

September 22, 2023

TO: Legal Counsel

News Media

Salinas Californian

El Sol

Monterey County Herald Monterey County Weekly

KION-TV

KSBW-TV/ABC Central Coast

KSMS/Entravision-TV

The next regular meeting of the <u>BOARD OF DIRECTORS OF SALINAS VALLEY HEALTH</u>¹ will be held <u>THURSDAY</u>, <u>SEPTEMBER 28</u>, 2023, AT 3:30 P.M., <u>DOWNING RESOURCE CENTER</u>, <u>ROOMS A</u>, B, & C, <u>SALINAS VALLEY HEALTH MEDICAL CENTER</u>, 450 E. <u>ROMIE LANE</u>, <u>SALINAS</u>, <u>CALIFORNIA</u> or via <u>TELECONFERENCE</u> (visit <u>SalinasValleyHealth.com/virtualboardmeeting</u> for Access Information).

Pete Delgado

President/Chief Executive Officer



REGULAR MEETING OF THE BOARD OF DIRECTORS SALINAS VALLEY HEALTH¹

THURSDAY, SEPTEMBER 28, 2023, 3:30 P.M. DOWNING RESOURCE CENTER, ROOMS A, B & C SALINAS VALLEY HEALTH MEDICAL CENTER 450 E. ROMIE LANE, SALINAS, CALIFORNIA or via TELECONFERENCE

(Visit salinasvalleyhealth.com/virtualboardmeeting for Access Information)

	<u>AGENDA</u>	<u>Presented By</u>
1.	CALL TO ORDER / ROLL CALL	Victor Rey, Jr.
2.	CLOSED SESSION (See Attached Closed Session Sheet Information)	Victor Rey, Jr.
3.	RECONVENE OPEN SESSION/CLOSED SESSION REPORT (Estimated time 5:00 pm)	Victor Rey, Jr.
4.	REPORT FROM THE PRESIDENT/CHIEF EXECUTIVE OFFICER	Pete Delgado
5.	PUBLIC INPUT	Victor Rey, Jr.
	This opportunity is provided for members of the public to make a brief statement, not to exceed three (3) minutes, on issues or concerns within the jurisdiction of this District Board which are not otherwise covered under an item on this agenda.	
6.	BOARD MEMBER COMMENTS	Board Members
7.	CONSENT AGENDA - GENERAL BUSINESS (Board Member may pull an item from the Consent Agenda for discussion.)	Victor Rey, Jr.
	A. Minutes of August 24, 2023, Regular Meeting of the Board of DirectorsB. Financial ReportC. Statistical Report	
8.	REPORTS ON STANDING AND SPECIAL COMMITTEES	
A.	Quality and Efficient Practices Committee Minutes of the September 25, 2023 Quality and Efficient Practices Committee meeting have been provided to the Board for their review. Additional Report from Committee Chair, if any.	Catherine Carson
B.	Finance Committee Minutes of the September 25, 2023 Finance Committee meeting have been provided to the Board for their review. The following recommendation has been	Joel Hernandez Laguna

- 1. Consider Recommendation for Board of Directors Approval of Preliminary Project Budget for the Medical Center Campus Colorization Project
 - Committee Chair Report
 - Questions to Committee Chair/Staff
 - Motion/Second

made to the Board:

Public Comment

- Board Discussion/Deliberation
- Action by Board/Roll Call Vote

C. Personnel, Pension and Investment Committee

Juan Cabrera

Minutes of the September 26, 2023 Personnel, Pension and Investment Committee meeting have been provided to the Board for their review.

- 1. Recommendation for Board approval: Amendment to the Salinas Valley Memorial Healthcare System 403(b) Retirement Plan.
- Committee Chair Report
- Questions to Committee Chair/Staff
- Motion/Second
- Public Comment
- Board Discussion/Deliberation
- Action by Board/Roll Call Vote
- 2. Consider recommendation for Board Approval of:
 - a. The findings supporting the recruitment of Nima Beheshti, DO;
 - b. The contract terms for Dr. Beheshti's Recruitment Agreement, and;
 - c. The contract terms for Dr. Beheshti's Neurology Professional Services Agreement.
- Committee Chair Report
- Questions to Committee Chair/Staff
- Motion/Second
- Public Comment
- Board Discussion/Deliberation
- Action by Board/Roll Call Vote
- 2. Consider recommendation for Board Approval of
 - a. The Findings Supporting Recruitment of Gurvinder Kaur, MD;
 - b. The contract terms for Dr. Kaur's Recruitment Agreement, and;
 - c. The contract terms for Dr. Kaur's Neurosurgery Professional Services Agreement.
- Committee Chair Report
- Questions to Committee Chair/Staff
- Motion/Second
- Public Comment
- Board Discussion/Deliberation
- Action by Board/Roll Call Vote

D. CORPORATE COMPLIANCE AND AUDIT COMMITTEE

Juan Cabrera

Minutes of the September 26, 2023 Corporate Compliance and Audit Committee meeting have been provided to the Board for their review. Additional Report from Committee Chair, if any.

9. REPORT ON BEHALF OF THE MEDICAL EXECUTIVE COMMITTEE (MEC) MEETING OF SEPTEMBER 14, 2023, AND RECOMMENDATIONS FOR BOARD APPROVAL OF THE FOLLOWING:

Theodore, Kaczmar, Jr., MD

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A. Reports

- 1. Credentials Committee Report
- 2. Interdisciplinary Practice Committee

B. Policies/Plans/Procedures

- 1. Chest Pain Standardized Procedure Revised
- 2. Intraosseous Infusion Standardized Procedure Nursing Standardized Procedure Revised
- 3. Vaginal Bleeding Standardized Procedure Revised
- 4. Surgical Wound Classification System Revised
- 5. Antibiotic Stewardship Policy Revised
- 6. Medication Error Reduction Plan (MERP) Revised

10. EXTENDED CLOSED SESSION (if necessary)

Victor Rey, Jr.

11. ADJOURNMENT

The Regular Meeting of the Board of Directors is scheduled for **Thursday**, **October 26**, **2023**, **at 4:00 p.m**.

The complete Board packet including subsequently distributed materials and presentations is available at the Board Meeting and in the Human Resources Department of the District. All items appearing on the agenda are subject to action by the Board. Staff and Committee recommendations are subject to change by the Board.

Requests for a disability related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting should be made to the Board Clerk during regular business hours at 831-759-3050. Notification received 48 hours before the meeting will enable the District to make reasonable accommodations.

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SALINAS VALLEY HEALTH BOARD OF DIRECTORS

AGENDA FOR CLOSED SESSION

Pursuant to California Government Code Section 54954.2 and 54954.5, the board agenda may describe closed session agenda items as provided below. No legislative body or elected official shall be in violation of Section 54954.2 or 54956 if the closed session items are described in substantial compliance with Section 54954.5 of the Government Code.

CLOSED SESSION AGENDA ITEMS

HEARINGS/REPORTS

(Government Code §37624.3 & Health and Safety Code §§1461, 32155)

Subject matter: (Specify whether testimony/deliberation will concern staff privileges, report of medical audit committee, or report of quality assurance committee):

- 1. Strategic Planning
- 2. Report of the Medical Staff Quality and Safety Committee
 - a. Pathology Tissue Review 1-2 Q 2023
- 3. Quality and Efficient Practices Committee
 - a. Opioid/Pain Committee
 - b. Sepsis
 - c. MERP attachment updates and the Medication Error Analysis
 - d. Cath Lab/Cardiac Rehab/CDOC
 - e. Environmental Services
 - f. Pharmacy & Therapeutics/Infection Prevention Full Report
 - g. Service Excellence

(Soverimment code 3:	3 1937)		
Title: President/CEO			

REPORT INVOLVING TRADE SECRET

(Government Code 854957)

(Government Code §37606 & Health and Safety Code § 32106)

Discussion will concern: (Specify whether discussion will concern proposed new service, program, or facility): <u>Trade Secret, Strategic Planning</u>, <u>Proposed New Programs and Services</u>

Estimated date of public disclosure: (Specify month and year): <u>Unknown</u>

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CONFERENCE WITH REAL PROPERTY NEGOTIATORS

(Government Code §54956.8)

Property: (Specify street address, or if no street address, the parcel number or other unique reference,

of the real property under negotiation): 1067 N. Davis Road, Salinas, Ca.

Agency negotiator: (Specify names of negotiators attending the closed session): Pete Delgado

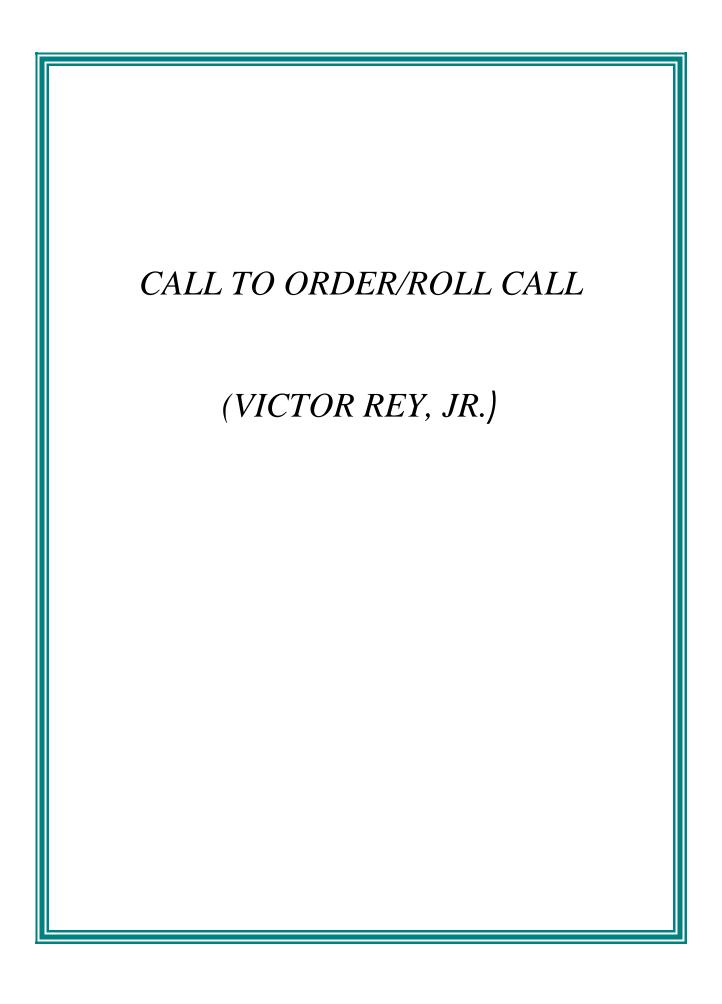
Negotiating parties: (Specify name of party (not agent): Farmers Daughter LP

Under negotiation: (Specify whether instruction to negotiator will concern price, terms of payment,

or both): Price and Terms

ADJOURN TO OPEN SESSION

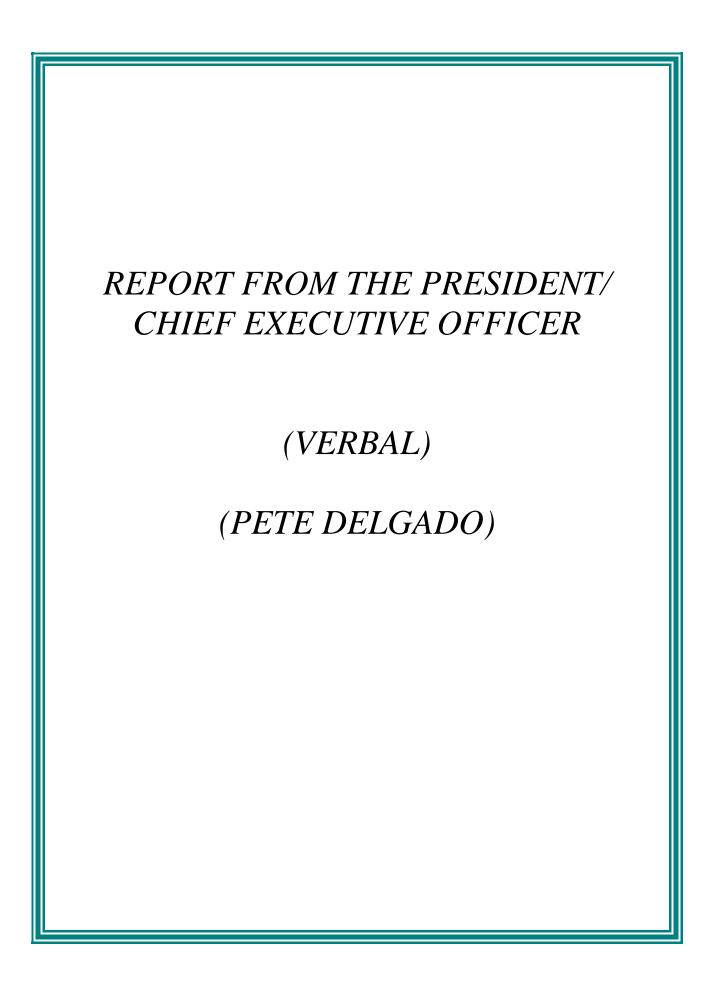
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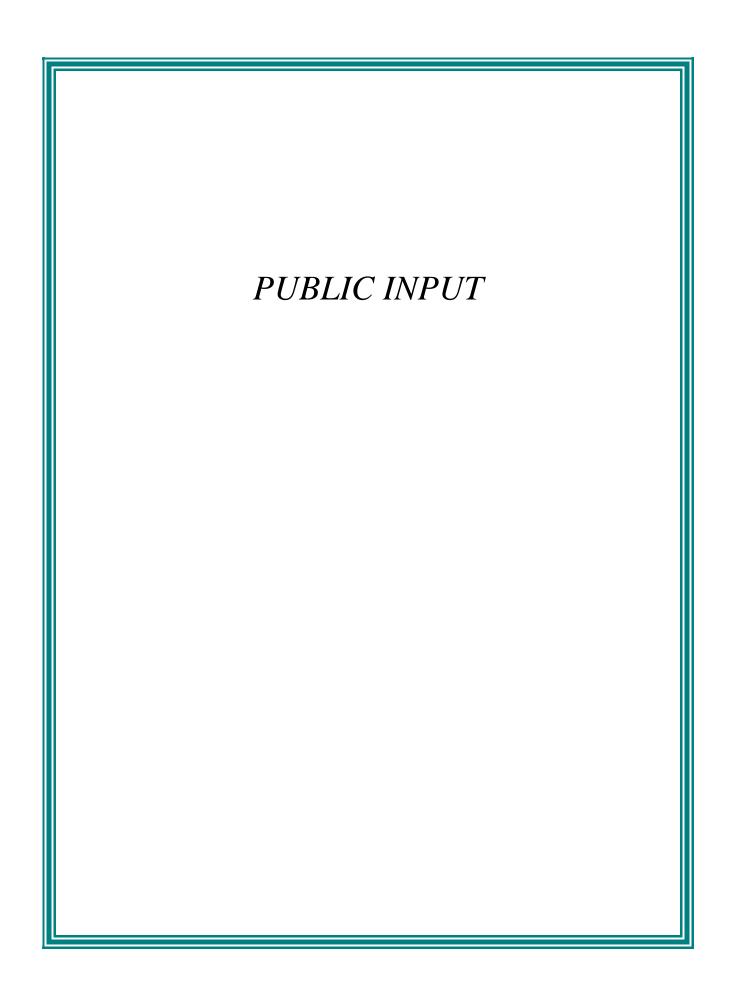


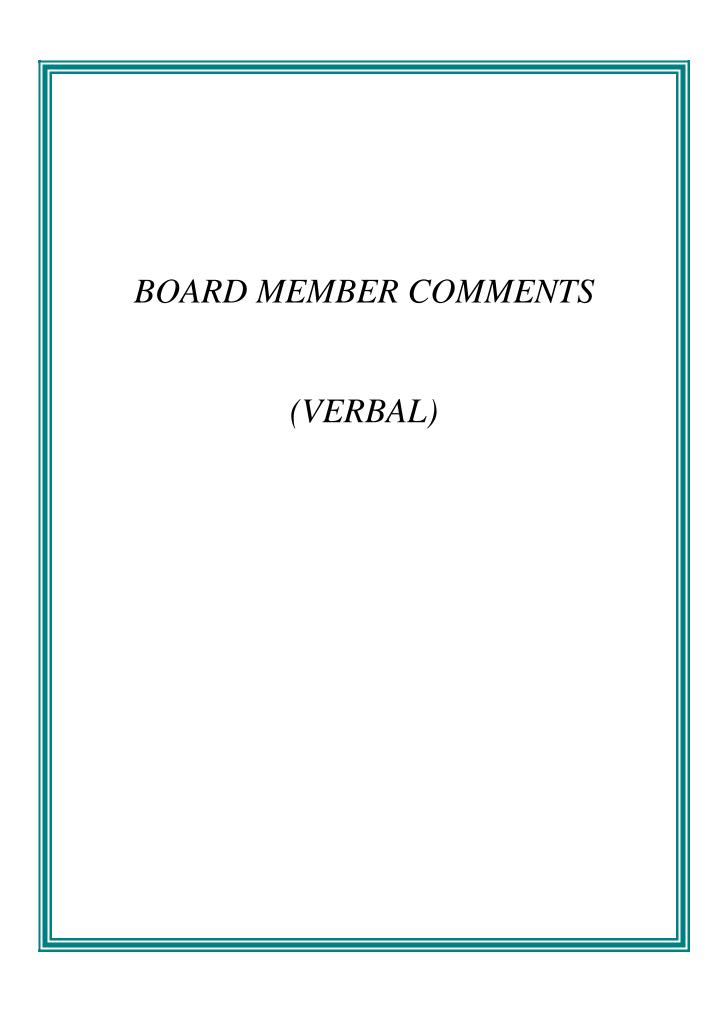
CLOSED SESSION (Report on Items to be Discussed in Closed Session) (VICTOR REY, JR.)

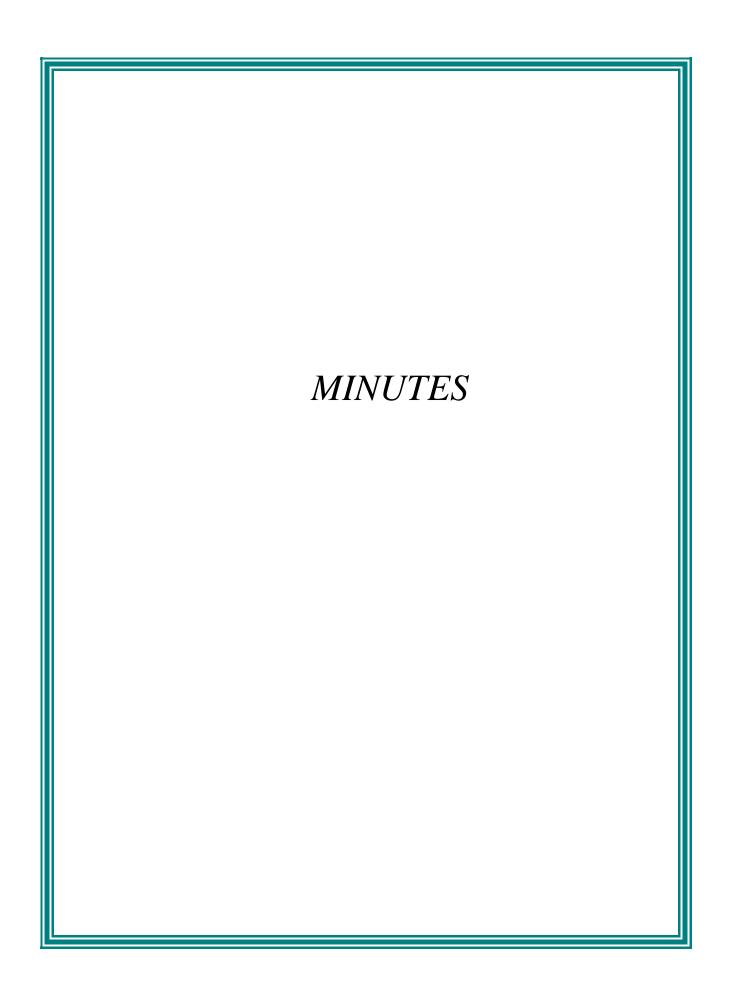
RECONVENE OPEN SESSION/ CLOSED SESSION REPORT (ESTIMATED TIME: 5:00 P.M.)

(VICTOR REY, JR.)











SALINAS VALLEY MEMORIAL HEALTHCARE SYSTEM¹ REGULAR MEETING OF THE BOARD OF DIRECTORS MEETING MINUTES AUGUST 24, 2023

Committee Members Present:

In-person: President Victor Rey Jr.; Vice-President Joel Hernandez Laguna, Juan Cabrera, Rolando

Cabrera MD., and Catherine Carson

Via Teleconference: None

Absent: None

Also Present:

Pete Delgado, President/Chief Executive Officer Theodore Kaczmar, Jr., MD., Chief of Staff Matthew Ottone, Esq., District Legal Counsel Julian Lorenzana, Board Clerk

1. CALL TO ORDER/ROLL CALL

A quorum was present and President Victor Rey, Jr. called the meeting to order at 4:05 p.m. in the Downing Resource Center, Rooms A, B, and C.

2. CLOSED SESSION

President Victor Rey, Jr. announced items to be discussed in Closed Session as listed on the posted Agenda are (1) Hearings and Reports (2) Conference with Legal Counsel – Anticipated Litigation, (3) Reports Involving Trade Secret. The meeting recessed into Closed Session under the Closed Session Protocol at 4:07 p.m. The Board completed its business of the Closed Session at 5:14 p.m.

3. RECONVENE OPEN SESSION/REPORT ON CLOSED SESSION

The Board reconvened Open Session at 5:24 p.m. President Victor Rey, Jr. reported that in Closed Session, the Board discussed (1) Hearings and Reports (2) Conference with Legal Counsel – Anticipated Litigation, (3) Report Involving Trade Secret. The Board received the reports listed on the Closed Session agenda, no additional actions were taken.

4. EDUCATION PROGRAM – EMPLOYEE ENGAGEMENT 2023

Murat Phillipe, Workforce Engagement Advisor with Press Ganey reviewed the 2023 Employee Engagement Survey. The national healthcare average for employee engagement has been declining due to the pandemic. Employee engagement at Salinas Valley Health has stayed relatively the same, ranking in the 84th percentile for the last couple of years with an 83% response rate. 46% of current employees are highly engaged and only 3% are disengaged. Some strengths are high quality safe care, community commitment, and perceptions of fair compensation and satisfactory benefits. Opportunities for

improvement are perceptions of respect from managers, communication across different levels of the organization, and connection with team members while working remotely.

Comments from the Board:

Vice President Joel Hernandez Laguna asked to clarify the section where employees were asked if they believe that their work unit is adequately staffed. Mr. Phillipe explained that 59% of employees had a favorable response, 22% were neutral, and 22% of employees had an unfavorable response

Director Catherine Carson commented that the Hospital should share the results from Leapfrog so that the employees know how well we are doing. She also suggested that the Hospital should publicize this information to the community as well.

PUBLIC COMMENT:

No public comment

5. REPORT FROM THE PRESIDENT/CHIEF EXECUTIVE OFFICER

This month's mission moment features David Spilker, MD. a patient who was diagnosed with mitral valve prolapse. He underwent a cardiovascular procedure where a mitral clip was surgically inserted into his heart, using very light anesthesia. Mr. Spilker said that he felt no pain and is now walking a mile a day and is back to feeling good.

Service: Daniel Van-Victorino, Chair of the Emergency Department Unit Practice Council, reported on patients being seen at the hospital. The hospital is currently seeing more patients than Natividad and CHOMP. Door-to-needle times have improved from 46.05 minutes last year to 40.22 minutes this year. Their goal for door-to-needle time is to be under 30 minutes. Another goal that the council is working on is that of blood contamination rates. Their goal was to see less than 3%. This year they are well below 2%. **Growth:** A new clinic location for Urology opened on August 1st. There are currently 3 Urologists, we are actively recruiting for one more provider. The new parking structure is moving along and is expected to be completed in November.

Quality: Salinas Valley Health was recently recognized by US News and World Report. We ranked as a high-performing hospital in nine procedures and were regionally ranked 50th in California.

Industry: Many hospitals around the nation continue to have financial problems and are struggling with layoffs.

People: Employee Forums have resumed after a hiatus due to COVID. These meetings are an opportunity for staff to share their ideas and input to improve operations. Our Director Victor Rey, Jr. was recognized by Modern Healthcare for Excellence in Governance. Pete Delgado, President/CEO was also recognized for his ten years of service to Salinas Valley Health

Community: Asthma Camp wrapped up this month. Our next Walk With A Doc is scheduled for September 9th with Dr. Stephanie Trost. OD Awareness Day is scheduled for August 31 and will be held in the MRI parking lot.

Public Comment:

No public comment

6. PUBLIC INPUT

No public input

7. BOARD MEMBER COMMENTS

President Victor Rey, Jr.: The Mobile Clinic is amazing with all that they do and the impact they have on the community. This was a great investment, thank you to the Foundation for making it happen.

Vice President Joel Hernandez Laguna: Thank you to all the staff who set up the site visit today. Learned a lot about the Emergency Department and safety around the hospital.

Director Rolando Cabrera, MD.: No comment.

Director Juan Cabrera: Saw the Mobile Clinic at Alisal High School. There were a lot of young people there getting physicals.

Director Catherine Carson: No comment,

8. CONSENT AGENDA – GENERAL BUSINESS

- A. Minutes of July 27, 2023, regular meeting of the Board of Directors
- B. Financial Report
- C. Statistical Report
- D. Policies Requiring Approval
 - 1. Nursing Standardized Procedure for First Aid at Community Events
 - 2. Restraints Policy
 - 3. Rules and Regulations Amendments

PUBLIC COMMENT:

No public comment

MOTION:

Upon motion by Director Rolando Cabrera, second by Director Joel Hernandez Laguna, the Board of Directors approved the Consent Agenda, Items (a) through (d), as presented.

ROLL CALL VOTE:

Ayes: Directors Rey, Hernandez Laguna, J. Cabrera, R Cabrera, MD., and Carson;

Noes: None;

Abstentions: None;

Absent: None

Motion Carried

9. REPORTS ON STANDING AND SPECIAL COMMITTEES

A. QUALITY AND EFFICIENT PRACTICES COMMITTEE

Received a report from Director Catherine Carson regarding the Quality and Efficient Practices Committee.

B. FINANCE COMMITTEE

Received a report from Director Hernandez Laguna regarding the Finance Committee.

1. Consider Recommendation for Board Approval of the Purchase of Internet Connectivity Services Fees from CENIC as Sole Source Justification and Contract Award

PUBLIC COMMENT:

None

MOTION:

Upon motion by Director Rolando Cabrera, MD., and second by Director Juan Cabrera, the Board of Directors approved the purchase of internet connectivity services fees from CENIC as sole source justification and contract award in the amount of \$493,687.88 over a five-year term.

ROLL CALL VOTE:

Ayes: Directors Rey, Hernandez Laguna, J. Cabrera, R Cabrera, MD., and Carson;

Noes: None;

Abstentions: None;

Absent: None

Motion Carried

2. Consider Recommendation for Board Approval of the MetTel Addendum to Transfer Select Existing AT&T Carrier as Sole Source Justification and Contract Award

PUBLIC COMMENT:

No public comment

MOTION:

Upon motion by Director Juan Cabrera, and second by Director Joel Hernandez Laguna, the Board of Directors approved the MetTel Addendum to Transfer Select Existing AT&T Carrier as Sole Source Justification and Contract Award in the amount of \$307,915.56 over a three-year term.

BOARD DISCUSSION:

Director Catherine Carson commented that this is outstanding and commended the staff that brought this forward.

ROLL CALL VOTE:

Ayes: Directors Rey, Hernandez Laguna, J. Cabrera, R Cabrera, MD., and Carson;

Noes: None;

Abstentions: None;

Absent: None

Motion Carried

ADDITIONS AND CHANGES

Chair Victor Rey, Jr. announced two items being added to the Personnel, Pension, and Investment Committee under Reports on Standing and Special Committees

- 1. Consider recommendation for Board approval of:
 - Findings Supporting Recruitment of Vivian Monique McCorvey, MD.;
 - o Contract Terms for Dr. McCorvey's Recruitment Agreement, and;
 - o Contract Terms for Dr. McCorvey's Mammography Professional Services Agreement

PUBLIC COMMENT:

No public comment

MOTION:

Upon motion by Director Carson, second by Director Rolando Cabrera, MD.; the Board of Directors approved the addition to the Board of Directors agenda.

ROLL CALL VOTE:

Ayes: Directors Rey, Hernandez Laguna, J. Cabrera, R Cabrera, MD., and Carson;

Noes: None;

Abstentions: None;

Absent: None

Motion Carried

2. Consider recommendation for Board Approval of contract terms for Katherine Noel, MD's Obstetrics and Gynecology Professional Services Agreement

PUBLIC COMMENT:

No public comment

MOTION:

Upon motion by Director Carson, second by Director Joel Hernandez Laguna, the Board of Directors approved the addition to the Board of Directors agenda.

ROLL CALL VOTE:

Ayes: Directors Rey, Hernandez Laguna, J. Cabrera, R Cabrera, MD., and Carson;

Noes: None;

Abstentions: None;

Absent: None

Motion Carried

C. PERSONNEL, PENSION, AND INVESTMENT COMMITTEE

Received a report from Director Juan Cabrera regarding the Personnel, Pension, and Investment Committee.

- 1. Consider recommendation for Board approval of:
 - a. Findings Supporting Recruitment of Vivian Monique McCorvey, MD.;
 - b. Contract Terms for Dr. McCorvey's Recruitment Agreement, and;
 - c. Contract Terms for Dr. McCorvey's Mammography Professional Services Agreement

PUBLIC COMMENT:

No public comment

MOTION:

Upon motion by Director Carson, second by Director Joel Hernandez Laguna, the Board of Directors approved Dr. McCorvey's Mammography Professional Services Agreement with a recruitment incentive of \$40,000.

ROLL CALL VOTE:

Ayes: Directors Rey, Hernandez Laguna, J. Cabrera, R Cabrera, MD., and Carson;

Noes: None;

Abstentions: None;

Absent: None

Motion Carried

2. CONSIDER RECOMMENDATION FOR BOARD APPROVAL OF CONTRACT TERMS FOR KATHERINE NOEL, MD'S OBSTETRICS AND GYNECOLOGY PROFESSIONAL SERVICES AGREEMENT:

PUBLIC COMMENT:

No public comment

MOTION:

Upon motion by Director Catherine Carson, second by Director Rolando Cabrera, MD., the Board of Directors approved the contract terms of the Obstetrics and Gynecology Professional Service Agreement for Katherine Noel, MD.

ROLL CALL VOTE:

Ayes: Directors Rey, Hernandez Laguna, J. Cabrera, R Cabrera, MD., and Carson;

Noes: None;

Abstentions: None;

Absent: None

Motion Carried

D. COMMUNITY ADVOCACY COMMITTEE

Received a report from Director Rolando Cabrera, MD. regarding the Community Advocacy Committee. Both the Blue Zones Project and the Mobile Clinic have been working diligently. The Mobile Clinic has been conducting many physicals for students going back to school

BOARD DISCUSSION:

President Victor Rey, Jr. commented that he has been taking his children to the Mobile Clinic for physicals and has been recommending others to use the Mobile Clinic as a resource.

10. REPORT ON BEHALF OF THE MEDICAL EXECUTIVE COMMITTEE (MEC) MEETING OF JUNE 8, 2023, AND RECOMMENDATIONS FOR BOARD APPROVAL OF THE FOLLOWING:

A. REPORTS

- 1. Credentials Committee Report
- 2. Interdisciplinary Practice Committee Report
- 3. Medical Staff Excellence Committee Report
- 4. Quality and Safety Committee Report
 - Stroke Program Update
 - Risk Management
 - Clinical Nutrition Services Malnutrition Update
 - Accreditation & Regulatory Update
 - Beta HEART Update
 - Commission on Cancer Update
 - TJC National Patient Safety Goals

Dr. Allen Radner reported on the update for MEC on behalf of Dr. Theodore Kaczmar.

11. EXTENDED CLOSED SESSION

An extended Closed Session was not required

12. ADJOURNMENT

The next Regular Meeting of the Board of Directors is scheduled for **Thursday**, **September 28 at 4:00 p.m.** There being no further business, the meeting was adjourned at 6:50 p.m.

Rolando Cabrera, MD Secretary, Board of Directors



SALINAS VALLEY HEALTH MEDICAL CENTER SUMMARY INCOME STATEMENT August 31, 2023

		Month of Aug	ust,	Two months ended August 31,			
	_	current year	prior year	current year	prior year		
Operating revenue: Net patient revenue Other operating revenue Total operating revenue	\$ 	46,220,446 \$ 1,186,536 47,406,982	54,037,184 \$ 876,946 54,914,130	95,511,162 \$ 2,228,398 97,739,560	98,206,039 1,573,099 99,779,138		
Total operating expenses		47,591,796	48,625,055	94,607,592	91,460,304		
Total non-operating income	_	(450,187)	(4,049,023)	(1,236,790)	(2,654,432)		
Operating and non-operating income	\$	(635,002) \$	2,240,052 \$	5 1,895,178 \$	5,664,402		

SALINAS VALLEY HEALTH MEDICAL CENTER BALANCE SHEETS August 31, 2023

	Current year			Prior year	
ASSETS:					
Current assets Assets whose use is limited or restricted by board Capital assets Other assets Deferred pension outflows	\$ - \$_	445,929,153 159,053,150 248,850,702 170,736,355 116,911,125 1,141,480,485	_	395,627,087 150,535,522 237,862,826 187,372,094 95,857,027 1,067,254,556	
LIABILITIES AND EQUITY:					
Current liabilities Long term liabilities Lease deferred inflows Pension liability Net assets	- \$	82,777,137 17,007,738 2,856,606 124,875,355 913,963,649		106,264,372 18,514,233 1,911,058 79,111,485 861,453,408	

SALINAS VALLEY HEALTH MEDICAL CENTER SCHEDULES OF NET PATIENT REVENUE August 31, 2023

		Month of Augus	st,	Two months ended A	August 31,	
	_	current year	prior year	current year	prior year	
Patient days:						
By payer:						
Medicare		1,791	2,030	3,653	3,896	
Medi-Cal		921	1,036	1,947	2,125	
Commercial insurance		561	770	1,252	1,548	
Other patient	_	93	109	204	219	
Total patient days	=	3,366	3,945	7,056	7,788	
Gross revenue:						
Medicare	\$	113,231,345 \$	107,307,517 \$	224,212,310 \$	201,070,958	
Medi-Cal	Ψ	67,435,695	64,717,339	128,243,403	123,547,651	
Commercial insurance		51,931,778	54,731,567	102,001,344	103,825,171	
Other patient	_	9,874,241	8,307,858	18,992,826	16,651,622	
Gross revenue		242,473,059	235,064,281	473,449,883	445,095,403	
	_	74.5%	73.2%	74.4%	72.9%	
Deductions from revenue:						
Administrative adjustment		201,462	445,416	546,325	502,780	
Charity care		1,275,270	922,558	1,926,685	1,718,108	
Contractual adjustments:						
Medicare outpatient		37,772,969	32,066,624	71,927,614	61,578,570	
Medicare inpatient		47,527,738	46,992,416	95,809,741	90,293,094	
Medi-Cal traditional outpatient		2,743,779	3,530,319	5,109,016	6,728,151	
Medi-Cal traditional inpatient		4,037,810	3,890,601	9,784,360	8,987,520	
Medi-Cal managed care outpatient		31,410,007	25,051,448	57,624,795	48,183,509	
Medi-Cal managed care inpatient		23,530,377	23,830,410	43,275,873	45,486,678	
Commercial insurance outpatient		22,382,793	18,777,864	41,947,359	35,119,730	
Commercial insurance inpatient		19,770,883	20,752,986	38,951,207	38,444,130	
Uncollectible accounts expense		4,415,706	4,175,568	8,487,471	7,900,767	
Other payors	_	1,183,819	590,886	2,548,275	1,946,327	
Deductions from revenue	<u>-</u>	196,252,613	181,027,097	377,938,721	346,889,364	
Net patient revenue	\$ _	46,220,446 \$	54,037,184 \$		98,206,039	
		19.06%	22.99%	20.17%	22.06%	
Gross billed charges by patient type:						
Inpatient	\$	118,058,944 \$	124,806,208 \$		236,050,463	
Outpatient		92,426,725	82,086,994	174,338,706	153,682,338	
Emergency room	_	31,987,390	28,171,080	61,590,256	55,362,602	
Total	\$	242,473,059 \$	235,064,281 \$	473,449,882 \$	445,095,403	
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SALINAS VALLEY HEALTH MEDICAL CENTER STATEMENTS OF REVENUE AND EXPENSES August 31, 2023

		Month of August,		Two months ended August 31,		
	_	current year	prior year	current year	prior year	
Operating revenue:						
Net patient revenue	\$	46,220,446 \$	54,037,184 \$	95,511,162 \$	98,206,039	
Other operating revenue	Ψ	1,186,536	876,946	2,228,398	1,573,099	
Total operating revenue	_	47,406,982	54,914,130	97,739,560	99,779,138	
Operating expenses:						
Salaries and wages		16,259,581	19,579,449	32,435,126	35,638,600	
Compensated absences		2,897,556	2,826,365	5,945,662	5,439,480	
Employee benefits		9,178,334	7,587,087	17,865,559	14,805,225	
Supplies, food, and linen		7,311,261	6,863,466	13,918,750	12,972,922	
Purchased department functions		3,861,763	3,641,021	7,824,372	7,215,400	
Medical fees		2,918,877	2,001,209	5,045,162	3,370,302	
Other fees		1,499,051	2,284,660	4,387,647	4,639,728	
Depreciation		1,805,101	2,139,860	3,611,600	4,031,730	
All other expense		1,860,272	1,701,938	3,573,714	3,346,917	
Total operating expenses	_	47,591,796	48,625,055	94,607,592	91,460,304	
Income from operations	_	(184,814)	6,289,075	3,131,968	8,318,834	
Non-operating income:						
Donations		1,153,867	170,325	1,132,687	2,131,824	
Property taxes		333,333	333,333	666,667	666,667	
Investment income		1,996,078	(2,319,356)	4,540,738	(240,526)	
Taxes and licenses		0	0	0	0	
Income from subsidiaries		(3,933,465)	(2,233,325)	(7,576,882)	(5,212,397)	
Total non-operating income	_	(450,187)	(4,049,023)	(1,236,790)	(2,654,432)	
Operating and non-operating income		(635,002)	2,240,052	1,895,178	5,664,402	
Net assets to begin	=	914,598,651	859,213,356	912,068,471	855,789,006	
Net assets to end	\$ _	913,963,649 \$	861,453,408	913,963,649 \$	861,453,408	
Net income excluding non-recurring items Non-recurring income (expense) from cost	\$	(635,002) \$	2,240,052 \$	1,895,178 \$	5,664,402	
report settlements and re-openings and other non-recurring items	_	0	0_	0	0	
Operating and non-operating income	\$	(635,002) \$	2,240,052 \$	1,895,178 \$	5,664,402	
- r	Υ =	(σσσ,σσ <u>=</u> / φ	=,= : σ,σσΕ φ	-,σσσ,σ	3,33.,102	

SALINAS VALLEY HEALTH MEDICAL CENTER SCHEDULES OF INVESTMENT INCOME August 31, 2023

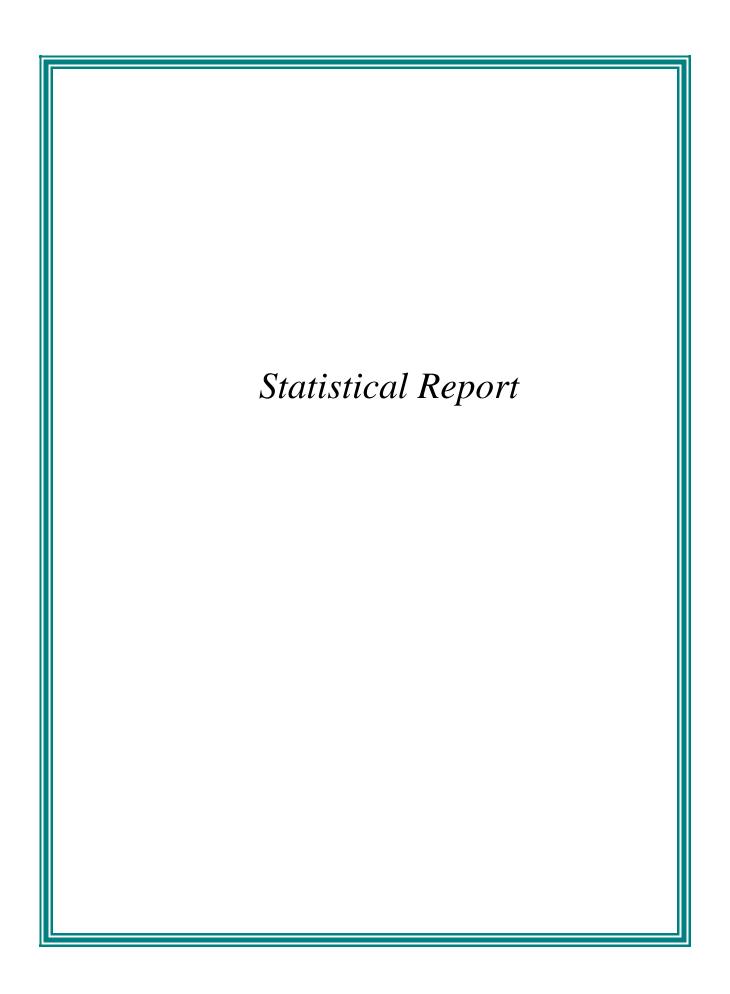
		Month of August,		Two months ended August 31,		
	=	current year	ugus	prior year	current year	prior year
	-	-			-	
Detail of all an an artist in income						
Detail of other operating income: Dietary revenue	\$	186,989	¢	117.173 \$	392.769	\$ 261,932
Discounts and scrap sale	φ	283,407	φ	267,808	288,234	273,675
Sale of products and services		52.869		68,008	112,797	79,570
Clinical trial fees		02,000		0	0	0
Stimulus Funds		0		0	0	0
Rental income		190,384		174,735	380,768	349,851
Other	_	472,887		249,222	1,053,830	608,071
Total	\$	1,186,536	\$	876,946 \$	2,228,398	\$ 1,573,099
Detail of investment income:						
Bank and payor interest	\$	1,463,761	\$	143,730 \$	2,864,451	
Income from investments Gain or loss on property and equipment		532,316 0		(2,463,086) 0	1,733,174 (56,887)	(758,346) 0
Gain or loss on property and equipment	-	0	_	<u> </u>	(50,507)	
Total	\$	1,996,078	\$	(2,319,356) \$	4,540,738	\$ (240,526)
Detail of income from subsidiaries:						
Salinas Valley Medical Center:						
Pulmonary Medicine Center	\$	(182,625)	\$	(200,808) \$	(359,989)	. , ,
Neurological Clinic		(56,266)		(29,459)	(135,431)	, , ,
Palliative Care Clinic		(62,133)		(55,680)	(146,654)	, , ,
Surgery Clinic		(173,977)		(197,637)	(400,367)	, , ,
Infectious Disease Clinic		(26,966)		(28,792)	(61,449)	
Endocrinology Clinic Early Discharge Clinic		(209,293) 0		(229,051) 0	(418,560) 0	(360,338)
Cardiology Clinic		(470,433)		(273,445)	(996,965)	
OB/GYN Clinic		(379,119)		(336,004)	(698,916)	
PrimeCare Medical Group		(763,843)		(353,702)	(1,497,877)	(888,298)
Oncology Clinic		(324,643)		(327,564)	(618,421)	
Cardiac Surgery		(267,302)		(203,668)	(490,177)	(437,700)
Sleep Center		(35,147)		(44,249)	(72,356)	
Rheumatology		(67,371)		(63,242)	(130,945)	
Precision Ortho MDs		(395,399)		(218,034)	(801,762)	(444,216)
Precision Ortho-MRI		0		0	0	0
Precision Ortho-PT		(38,538)		(192,000)	(101,870)	
Vaccine Clinic		0		124	0	(224)
Dermatology		(48,127)		(121,216)	(49,769)	(125,298)
Hospitalists		0 (36,959)		0	(72.901)	644 119
Behavioral Health Pediatric Diabetes		(40,007)		690,215	(73,801)	
Neurosurgery		(29,828)		(43,679) (27,346)	(91,614) (60,354)	, , ,
Multi-Specialty-RR		3,783		4,947	11,416	10,746
Radiology		(450,756)		(206,339)	(426,963)	
Salinas Family Practice		(148,785)		(62,793)	(265,764)	
Urology		(91,677)		(190,607)	(238,252)	, ,
Total SVMC		(4,295,411)		(2,710,029)	(8,126,840)	
Doctors on Duty		152,462		310,470	186,331	225,107
Vantage Surgery Center		0		0	0	0
LPCH NICU JV		0		0	0	0
Central Coast Health Connect		0 115,107		0	225.757	190 510
Monterey Peninsula Surgery Center Coastal		64,488		84,895 34,985	225,757 87,381	189,519 (28,650)
Apex		04,400		34,963 0	07,361	(28,030)
GenesisCare USA		17,428		23,876	1,017	47,753
Monterey Bay Endoscopy Center	-	12,461	_	22,479	49,472	69,066
Total	\$	(3,933,465)	\$	(2,233,325) \$	(7,576,882)	\$ (5,212,397)

SALINAS VALLEY HEALTH MEDICAL CENTER BALANCE SHEETS August 31, 2023

	_	Current year	Prior year
Current assets:	•	040.044.000.0	222.242.425
Cash and cash equivalents Patient accounts receivable, net of estimated	\$	342,311,300 \$	289,242,125
uncollectibles of \$26,733,775		80,708,653	84,274,211
Supplies inventory at cost		7,922,313	7,577,979
Current portion of lease receivable Other current assets		1,921,803 13,065,084	534,201 13,998,571
	-		
	-	445,929,153	395,627,087
Assets whose use is limited or restricted by board	-	159,053,150	150,535,522
Capital assets:			
Land and construction in process		65,148,659	38,411,356
Other capital assets, net of depreciation	_	183,702,043	199,451,470
	_	248,850,702	237,862,826
Other assets:			
Right of use assets, net of amortization		5,681,859	7,137,296
Long term lease receivable		1,115,546	1,462,610
Investment in securities		139,513,295	144,284,830
Investment in SVMC		3,643,019	8,219,949
Investment in Aspire/CHI/Coastal		1,769,022	1,615,050
Investment in other affiliates Net pension asset		21,122,341 (2,108,727)	23,313,309 1,339,050
Net persion asset	-		
	-	170,736,355	187,372,094
Deferred pension outflows	_	116,911,125	95,857,027
	\$_	1,141,480,485 \$	1,067,254,556
LIABILITIES AND NET ASSETS			
Current liabilities:			
Accounts payable and accrued expenses	\$	57,318,155 \$	60,393,423
Due to third party payers	•	6,167,894	24,708,173
Current portion of notes payable		0	0
Current portion of self-insurance liability		17,396,477	18,226,809
Current portion of lease liability	-	1,894,611	2,935,968
		82,777,137	106,264,372
Long term portion of notes payable		0	0
Long term portion of workers comp liability		13,027,333	14,058,922
Long term portion of lease liability	_	3,980,405	4,455,311
		99,784,875	124,778,605
	_		
Lease deferred inflows		2,856,606	1,911,058
Pension liability		124,875,355	79,111,485
Net assets:		040 050 700	227 022 022
Invested in capital assets, net of related debt Unrestricted	_	248,850,702 665,112,947	237,862,826 623,590,582
		913,963,649	861,453,408
	6		
	\$_	1,141,480,485 \$	1,067,254,556

SALINAS VALLEY HEALTH MEDICAL CENTER STATEMENTS OF REVENUE AND EXPENSES - BUDGET VS. ACTUAL August 31, 2023

	Month of August,				Two months ended August 31,			
	Actual	Budget	Variance	% Var	Actual	Budget	Variance	% Var
Operating revenue:								
Gross billed charges	\$ 242,473,059 \$	235 748 845	6,724,214	2.85% \$	473,449,883 \$	471,497,689	1,952,194	0.41%
Dedutions from revenue	196,252,613	185,229,895	11,022,718	5.95%	377,938,721	370,937,339	7,001,382	1.89%
Net patient revenue	46,220,446	50,518,950	(4,298,504)	-8.51%	95,511,162	100,560,350	(5,049,188)	-5.02%
Other operating revenue	1,186,536	1,332,540	(146,004)	-10.96%	2,228,398	2,665,080	(436,682)	-16.39%
Total operating revenue	47,406,982	51,851,490	(4,444,508)	-8.57%	97,739,560	103,225,430	(5,485,870)	-5.31%
Operating expenses:								
Salaries and wages	16,259,581	17,357,179	(1,097,598)	-6.32%	32,435,126	33,937,349	(1,502,223)	-4.43%
Compensated absences	2,897,556	2,974,990	(77,434)	-2.60%	5,945,662	6,518,329	(572,667)	-8.79%
Employee benefits	9,178,334	8,182,386	995,948	12.17%	17,865,559	16,088,185	1,777,374	11.05%
Supplies, food, and linen	7,311,261	6,899,278	411,983	5.97%	13,918,750	13,798,557	120,193	0.87%
Purchased department functions	3,861,763	3,539,230	322,533	9.11%	7,824,372	7,078,460	745,912	10.54%
Medical fees	2,918,877	2,359,060	559,817	23.73%	5,045,162	4,718,120	327,042	6.93%
Other fees	1,499,051	2,269,528	(770,477)	-33.95%	4,387,647	4,539,056	(151,409)	-3.34%
Depreciation	1,805,101	2,135,892	(330,791)	-15.49%	3,611,600	4,279,481	(667,881)	-15.61%
All other expense	1,860,272	1,841,330	18,942	1.03%	3,573,714	3,682,661	(108,947)	-2.96%
Total operating expenses	47,591,796	47,558,874	32,922	0.07%	94,607,592	94,640,199	(32,607)	-0.03%
Income from operations	(184,814)	4,292,616	(4,477,430)	-104.31%	3,131,968	8,585,231	(5,453,263)	-63.52%
Non-operating income:								
Donations	1,153,867	166,667	987,200	592.32%	1,132,687	333,333	799,354	239.81%
Property taxes	333,333	333,333	(0)	0.00%	666,667	666,667	0	0.00%
Investment income	1,996,078	1,185,806	810,272	68.33%	4,540,738	2,371,611	2,169,127	91.46%
Income from subsidiaries	(3,933,465)	(3,660,748)	(272,717)	7.45%	(7,576,882)	(7,414,475)	(162,407)	2.19%
Total non-operating income	(450,187)	(1,974,942)	1,524,755	-77.21%	(1,236,790)	(4,042,864)	2,806,074	-69.41%
Operating and non-operating incor	me \$(635,001)_\$	2,317,674	(2,952,675)	<u>-127.40%</u> \$	1,895,178 \$	4,542,367	(2,647,189)	-58.28%



	Month of Aug		Two mont		
	2022	2023	2022-23	2022-23 2023-24	
NEWBORN STATISTICS					
Medi-Cal Admissions	39	40	74	71	(3)
Other Admissions	90	89	182	171	(11)
Total Admissions	129	129	256	242	(14)
Medi-Cal Patient Days	60	56	118	107	(11)
Other Patient Days	159	146	300	276	(24)
Total Patient Days of Care	219	202	418	383	(35)
Average Daily Census	7.1	6.5	6.7	6.2	(0.6)
Medi-Cal Average Days	1.7	1.6	1.6	1.6	`0.0 [′]
Other Average Days	1.5	1.7	1.6	1.7	0.0
Total Average Days Stay	1.7	1.6	1.6	1.7	0.0
ADULTS & PEDIATRICS					(2.2)
Medicare Admissions	407	376	801	763	(38)
Medi-Cal Admissions	330	269	533	505	(28)
Other Admissions	425	269	638	571	(67)
Total Admissions	1,162	914	1,972	1,839	(133)
Medicare Patient Days	1,636	1,538	3,250	3,168	(82)
Medi-Cal Patient Days	1,097	960	2,218	2,018	(200)
Other Patient Days	1,125	701	2,067	1,371	(696)
Total Patient Days of Care	3,858	3,199	7,535	6,557	(978)
Average Daily Census	124.5	103.2	121.5	105.8	(15.8)
Medicare Average Length of Stay	4.0	4.0	4.0	4.2	0.1
Medi-Cal AverageLength of Stay	3.3	3.2	3.5	3.4	(0.1)
Other Average Length of Stay	2.7	1.9	2.6	1.9	(0.7)
Total Average Length of Stay	3.3	3.0	3.4	3.2	(0.2)
Deaths	21	26	42	51	9
Total Patient Days	4,077	3,401	7,953	6,940	(1,013)
Medi-Cal Administrative Days	9	2	23	5	(18)
Medicare SNF Days	0	0	0	0	0
Over-Utilization Days	0	0	0	0	0
Total Non-Acute Days	9	2	23	5	(18)
Percent Non-Acute	0.22%	0.06%	0.29%	0.07%	-0.22%

	Month o	f Aug	Two montl	ns to date	
	2022	2023	2022-23	2023-24	Variance
PATIENT DAYS BY LOCATION					
Level I	280	216	546	439	(107)
Heart Center	365	338	687	667	(20)
Monitored Beds	659	598	1,292	1,223	(69)
Single Room Maternity/Obstetrics	376	329	717	642	(75)
Med/Surg - Cardiovascular	976	765	1,894	1,656	(238)
Med/Surg - Oncology	183	264	403	557	154
Med/Surg - Rehab	544	439	1,086	906	(180)
Pediatrics	119	150	239	245	6
Nursery	219	202	418	383	(35)
Neonatal Intensive Care	95	100	259	222	(37)
PERCENTAGE OF OCCUPANCY					
Level I	69.48%	53.60%	67.74%	54.47%	
Heart Center	78.49%	72.69%	73.87%	71.72%	
Monitored Beds	78.73%	71.45%	77.18%	73.06%	
Single Room Maternity/Obstetrics	32.78%	28.68%	31.26%	27.99%	
Med/Surg - Cardiovascular	69.96%	54.84%	67.89%	59.35%	
Med/Surg - Oncology	45.41%	65.51%	50.00%	69.11%	
Med/Surg - Rehab	67.49%	54.47%	67.37%	56.20%	
Med/Surg - Observation Care Unit	0.00%	0.00%	0.00%	0.00%	
Pediatrics	21.33%	26.88%	21.42%	21.95%	
Nursery	42.82%	39.49%	20.43%	18.72%	
Neonatal Intensive Care	27.86%	29.33%	37.98%	32.55%	

	Month of Aug		Two months to date		
	2022	2023	2022-23	2023-24	Variance
DELIVERY ROOM					
Total deliveries	135	125	254	236	(18)
C-Section deliveries	34	45	71	77	6
Percent of C-section deliveries	25.19%	36.00%	27.95%	32.63%	4.67%
OPERATING ROOM					
In-Patient Operating Minutes	19,891	17,669	37,292	33,916	(3,376)
Out-Patient Operating Minutes	27,185	28,638	49,024	57,267	8,243
Total	47,076	46,307	86,316	91,183	4,867
Open Heart Surgeries	15	12	22	21	(1)
In-Patient Cases	139	128	277	246	(31)
Out-Patient Cases	286	299	523	572	49
EMERGENCY ROOM					
Immediate Life Saving	23	38	60	75	15
High Risk	563	744	1,060	1,443	383
More Than One Resource	3,002	3,005	5,872	5,772	(100)
One Resource	2,023	1,924	3,924	3,558	(366)
No Resources	112	110	182	225	43
Total	5,723	5,821	11,098	11,073	(25)

	Month of Aug		Two months to date		
	2022	2023	2022-23	2023-24	Variance
CENTRAL SUPPLY					
In-patient requisitions	15,042	13,697	28,908	27,788	-1,120
Out-patient requisitions	10,175	10,996	18,755	21,150	2,395
Emergency room requisitions	604	1,140	1,205	1,753	548
Interdepartmental requisitions	7,114	6,220	14,492	12,563	-1,929
Total requisitions	32,935	32,053	63,360	63,254	-106
		,			
LABORATORY					
In-patient procedures	39,936	35,536	77,397	71,532	-5,865
Out-patient procedures	11,597	11,764	22,005	22,459	454
Emergency room procedures	12,702	14,285	25,546	26,447	901
Total patient procedures	64,235	61,585	124,948	120,438	-4,510
BLOOD BANK					
Units processed	367	365	674	665	-9
Office processed	301	303	074	003	
ELECTROCARDIOLOGY					
In-patient procedures	1,169	1,019	2,150	2,096	-54
Out-patient procedures	400	426	756	822	66
Emergency room procedures	1,132	1,249	2,230	2,459	229
Total procedures	2,701	2,694	5,136	5,377	241
CATH LAB					
In-patient procedures	109	125	192	240	48
Out-patient procedures	94	103	183	193	10
Emergency room procedures	0	0	0	0	0
Total procedures	203	228	375	433	58
·				_	
ECHO-CARDIOLOGY					
In-patient studies	455	353	794	683	-111
Out-patient studies	249	245	462	493	31
Emergency room studies	0	0	0	0	0
Total studies	704	598	1,256	1,176	-80
NEURODIAGNOSTIC					
In-patient procedures	161	138	313	256	-57
Out-patient procedures	19	22	40	42	2
Emergency room procedures	0	0	0	0	0
Total procedures	180	160	353	298	-55
			<u> </u>		

	Month of Aug		Two months to date		
	2022	2023	2022-23	2023-24	Variance
OLEED OF MEED					
SLEEP CENTER	0	0	0	0	0
In-patient procedures Out-patient procedures	0 176	0 245	0 314	0 434	0 120
Emergency room procedures	0	0	0	434	0
Total procedures	<u>0</u> 176	245	314	434	120
Total procedures	170	240	314	707	120
RADIOLOGY					
In-patient procedures	1,411	1,214	2,700	2,468	-232
Out-patient procedures	389	451	741	858	117
Emergency room procedures	1,431	1,568	2,817	2,989	172
Total patient procedures	3,231	3,233	6,258	6,315	57
MAGNETIC RESONANCE IMAGING	i				
In-patient procedures	199	153	349	305	-44
Out-patient procedures	115	145	220	278	58
Emergency room procedures	13	11	16	20	4
Total procedures	327	309	585	603	18
MAMMOGRAPHY CENTER		4.000	0.740		740
In-patient procedures	4,611	4,360	8,719	8,003	-716
Out-patient procedures	4,561	4,331	8,639	7,939	-700
Emergency room procedures Total procedures	<u>2</u> 9.174	<u> </u>	<u>2</u> 17,360	0 15,942	- <u>2</u> -1.418
Total procedures	9,174	0,091	17,300	13,942	-1,410
NUCLEAR MEDICINE					
In-patient procedures	26	18	49	39	-10
Out-patient procedures	98	112	197	222	25
Emergency room procedures	0	0	1	0	-1
Total procedures	124	130	247	261	14
PHARMACY					
In-patient prescriptions	99,070	80,197	186,722	161,993	-24,729
Out-patient prescriptions	16,230	16,710	30,759	32,059	1,300
Emergency room prescriptions	8,324	9,502	17,225	18,273	1,048
Total prescriptions	123,624	106,409	234,706	212,325	-22,381
RESPIRATORY THERAPY	15 750	15 201	20 404	27.040	0.404
In-patient treatments	15,753	15,381	30,401	27,910	-2,491 1,072
Out-patient treatments Emergency room treatments	1,146 339	1,606 366	1,713 583	2,785 688	1,072 105
Total patient treatments	17,238	17,353	32,697	31,383	-1,314
rota, pationt trouthonto	11,200	17,000	02,001	01,000	1,014
PHYSICAL THERAPY					
In-patient treatments	2,484	2,330	4,948	4,776	-172
Out-patient treatments	179	234	416	497	81
Emergency room treatments	0	0	0	0	0
Total treatments	2,663	2,564	5,364	5,273	-91

	Month of Aug		Two months to date		
	2022	2023	2022-23	2023-24	Variance
OCCUPATIONAL THERAPY					
In-patient procedures	2,037	1,539	3,181	2,957	-224
Out-patient procedures	153	216	317	475	158
Emergency room procedures	0	0	0	0	0
Total procedures	2,190	1,755	3,498	3,432	-66
SPEECH THERAPY	400	100	0.40		
In-patient treatments	462	406	940	887	-53
Out-patient treatments Emergency room treatments	29 0	49 0	51 0	73 0	22 0
Total treatments	491	455	991	960	-31
Total deatherns	431	400	991	300	-51
CARDIAC REHABILITATION					
In-patient treatments	0	0	0	2	2
Out-patient treatments	531	585	875	1,084	209
Emergency room treatments	0	0	0	0	0
Total treatments	531	585	875	1,086	211
CRITICAL DECISION UNIT					
Observation hours	352	239	664	611	-53
ENDOSCOPY	101		0.40	40=	
In-patient procedures	121 42	77 49	213	137	-76
Out-patient procedures Emergency room procedures	42 0	49 0	70 0	95 0	25 0
Total procedures	163	126	283	232	<u>-51</u>
Total procedures	100	120	200	202	- 01
C.T. SCAN					
In-patient procedures	715	680	1,411	1,402	-9
Out-patient procedures	444	491	825	962	137
Emergency room procedures	721	813	1,395	1,566	171
Total procedures	1,880	1,984	3,631	3,930	299
DIETARY	21 200	21.027	A1 240	40 20E	076
Routine patient diets Meals to personnel	21,208 25,472	21,027 28,688	41,349 50,257	42,325 56,633	976 6,376
Total diets and meals	46,680	49,715	91,606	98,958	7,352
	. 0,000		2.,000		.,552
LAUNDRY AND LINEN					
Total pounds laundered	99,249	95,358	196,106	193,409	-2,697

QUALITY AND EFFICIENT PRACTICES COMMITTEE

Minutes of the Quality and Efficient Practices Committee will be distributed at the Board Meeting

(CATHERINE CARSON)

FINANCE COMMITTEE

Minutes from of the Finance Committee will be distributed at the Board Meeting

(JOEL HERNANDEZ LAGUNA)



Board Paper: Finance Committee

Agenda Item: Consider Recommendation for Board of Directors Approval of Preliminary Project Budget for the

Medical Center Campus Colorization Project

Executive Sponsor: Clement Miller, Chief Operating Officer

Earl Strotman, Director Facilities Management & Construction

Dave Sullivan, Facilities Management & Construction

Date: September 18, 2023

Executive Summary

Salinas Valley Health has implemented a comprehensive re-branding campaign, one which included re-naming corporate entities, with a roll out of new logo and signage installations. Concurrently, Salinas Valley Health pursued re-envisioning the 450 East Romie medical center campus with a fresh color scheme consistent with re-branding goals and characteristics that will result in a new visual presentation of campus structures to the community. Schematic evaluation resulted in the production of several different color schemes, and one was recently selected by the Executive Leadership Alignment Committee. Board approval is now requested to fund costs associated with the exterior refinishing of campus buildings, implementing the approved new color scheme.

Scope of this project includes production of permit plans, costs associated with a competitive bid process, and execution of the work, which will include re-finishing the exterior of the main hospital building(s), the existing DRC, and stand-alone buildings housing administrative staff, energy plant infrastructure, and the leased MRI facility. At the time of request, we expect a process of design development, permitting, and project execution to take roughly 10 months, which includes numerous mobilization phases to allow for on-going hospital operations and the impacts of winter weather cycles.

Background/Situation/Rationale

In recognition that the campus is a prominent presence in the community and visible from miles away, the new scheme will not only need internal approval but also community acceptance and jurisdictional review and approval prior to implementation. The new coloration of the exterior will require design and permitting with the City of Salinas Community Development Department. Final design and implementation costs will be brought forward to the Board for re-review upon completion of the entitlement and construction bidding process. The objective of this project is to modernize the medical center buildings to comply with the re-branding campaign and comply with current rules and regulations enforced by all agencies having jurisdiction, primarily within the City of Salinas.

Salinas Valley Health will be responsible for securing City or other approvals necessary to execute the work. Over the course of the project, design and planning oversight meetings will be completed with executive leadership and other key stakeholders.

Facilities Management will be responsible for securing approvals necessary to execute the work and will coordinate mobilization impacts with inter-department representatives to minimize disruption of hospital operations.

Financial Implications

Indirect Construction Costs:\$ 500,000Construction/Mobilization Costs:\$2,500,000Reserves and Contingencies:\$ 500,000Total:\$3,500,000

Budget:

As currently programmed, the Medical Center Campus Colorization Project cost estimate is \$3,500,000. Project reserves from the DRC Parking Garage Annex project are currently being applied to offset impacts to the overall capital improvement budget in fiscal year 2024. The project cost estimate includes design and engineering fees, permitting, project contingency, program management, and construction services as required to complete the project.

Current capital budget forecast includes:

Fiscal Year 2024 - \$3,000,000 Fiscal Year 2025 - \$ 500,000

Following completion of the construction bidding process, the budget will be reconciled to account for proposed configuration.

Schedule:

August 2023 – Executive alignment of main program schematic configuration

October 2023 – Commence construction documentation and agency permitting

January 2024 – Anticipated construction commencement

March 2024 – Anticipated construction commencement
August 2024 – Anticipated construction completion

Procurement:

Facilities Management plans to prepare bidding documents for solicitation to qualified painting contractors. Each of the responses was reviewed by Materials Management and Facilities Management to compare initial capital construction costs. Facilities Management will prepare a Board Paper to review project costs and consider award of construction services to the successful low bidder.

Recommendation

Consider recommendation for Board of Directors to approve the total estimated project budget for the Medical Center Campus Colorization Project in the budgeted amount of \$3,500,000.

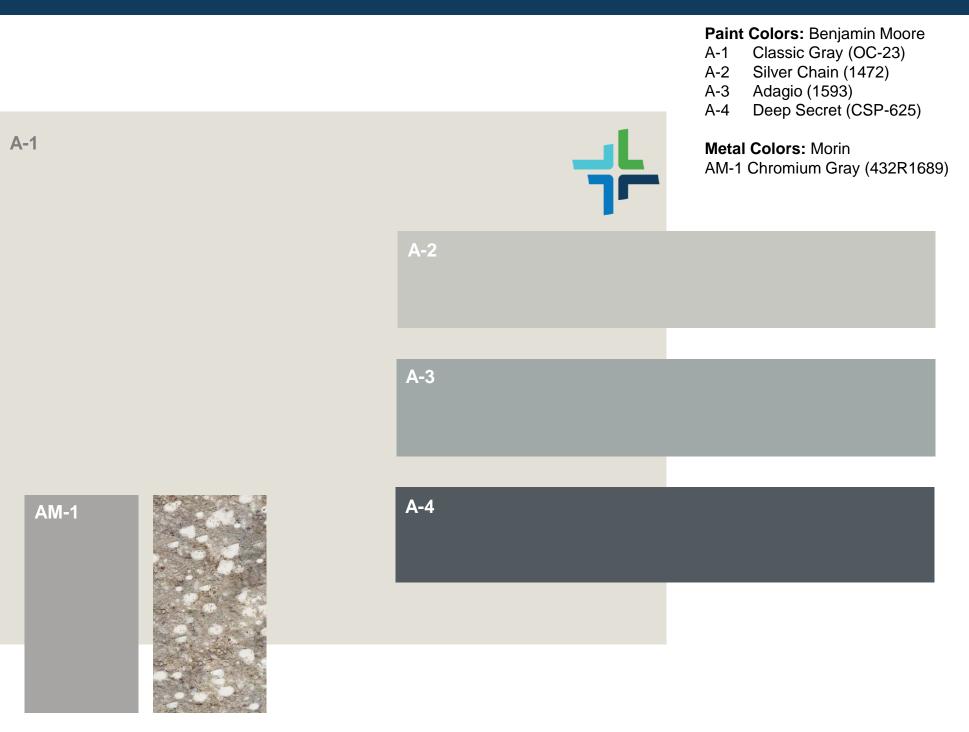
Attachments

Attachment 1: WRD Color Scheme Presentation



Rebranding Campus Colors

Color Scheme



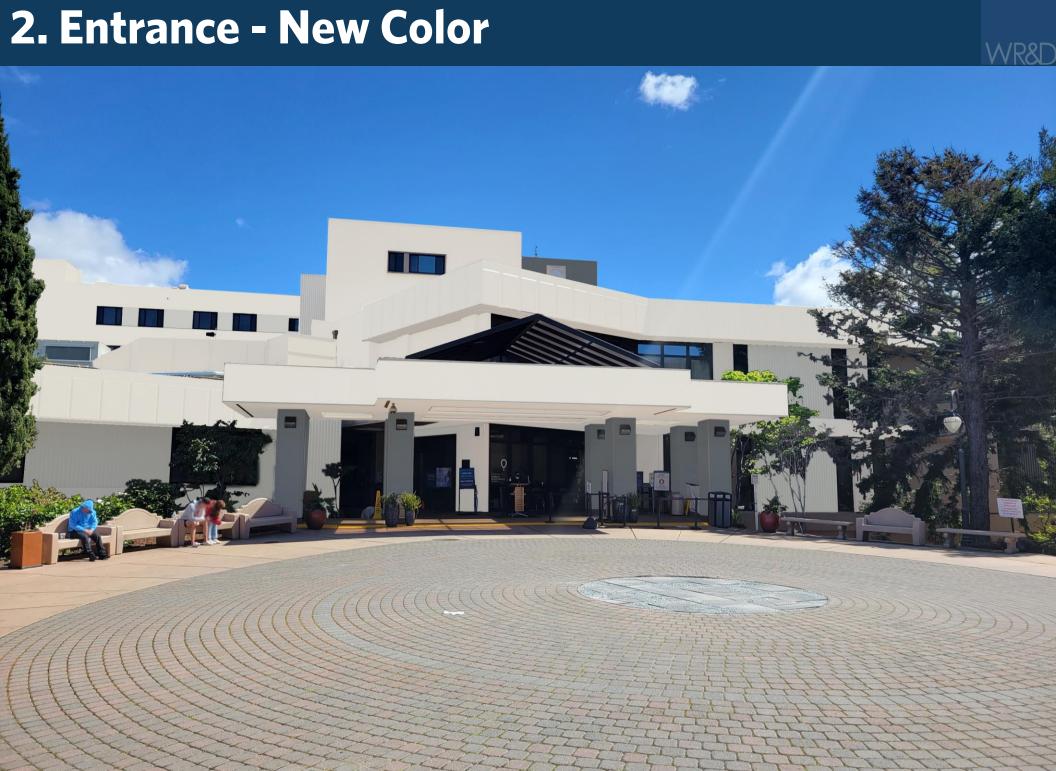




2. Entrance - Existing







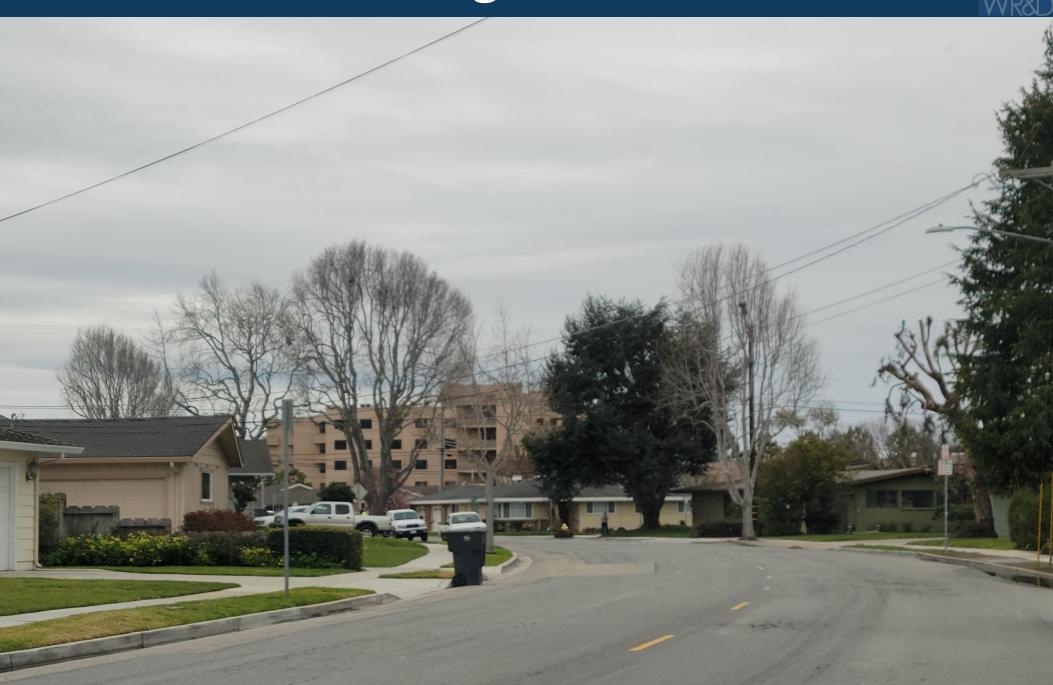
4. Emergency Entrance - Existing



4. Emergency Entrance - New Color B



5. Street View - Existing



5. Street View - New Color





6. Garage - Existing





7. Garage - Existing





7. Garage - New Color





8. Garage - New Color









PERSONNEL, PENSION AND INVESTMENT COMMITTEE

Minutes of the Personnel, Pension and Investment Committee will be distributed at the Board Meeting

(JUAN CABRERA)



Memorandum

To: Personnel, Pension and Investment Committee

From: Michelle Childs

Chief Human Resources Officer

Date: March 14, 2023

Re: Recommendation for Board Approval: Amendment to the Salinas

Valley Memorial Healthcare System 403(b) Retirement Plan ("403b

plan")

The Non-affiliated employees and SVMC physicians have been eligible for the Defined Contribution Plan (i.e. 403b plan) which offers employer basic and matching contributions to eligible employees.

Salinas Valley Health Medical Center and the Engineers and Scientists of California, Local 20 (ESC) have reached tentative agreement on an initial collect bargaining agreement in which the former non-affiliated staff will remain eligible for the Salinas Valley Memorial Healthcare System 403(b) Retirement Plan.

Attached is the Amendment necessary to permit staff represented by ESC to be eligible for the 403b plan.

AMENDMENT TO THE SALINAS VALLEY MEMORIAL HEALTHCARE SYSTEM 403(b) RETIREMENT PLAN

The Salinas Valley Memorial Healthcare System 403(b) Retirement Plan (Plan) is amended, effective as if the date this Amendment is executed as follow:

- 1. Section 3.01, "Eligible Employees; Excluded Employees," is amended and restated to read as follows:
 - 3.01. Eligible Employees; Excluded Employees.

All Employees of the Employer, who are not otherwise excluded from participation in the Plan, are eligible to participate in the Plan after completion of the eligibility requirements set forth in the Eligibility Requirements section, below. This Plan excludes the following Employees (even if they might otherwise satisfy the eligibility criteria specified in the Plan):

- A. Employees who are eligible to participate in the Salinas Valley Memorial Healthcare System 403(b) Tax Deferred Salary Reduction Plan and whose employment is governed by the terms of a collective bargaining agreement between Employee representatives (within the meaning of Code section 7701(a)(46)) and the Employer under which retirement benefits were the subject of good faith bargaining, unless the collective bargaining agreement specifically requires participation in this Plan (referred to as "affiliated employees").
- B. Employees who are nonresident aliens and who receive no earned income (within the meaning of Code section 911(d)(2)) from the Employer that constitutes income from sources within the United States (within the meaning of Code section 861(a)(3)).
- C. Employees who are students performing services described in Code section 3121(b)(10).
- D. Employees of an Affiliated Employer that has not adopted the Plan.
- E. Leased Employees.

- F. Except to the extent required by Code section 403(b)(12)(A)(ii), a worker that the Employer did not treat as an Employee, but who is subsequently determined to be an Employee by a local, State or federal governmental entity or by a court of competent jurisdiction.
- G. Employees who are eligible to participate in the Salinas Valley Memorial Healthcare System 403(b) Tax Deferred Salary Reduction Plan.
- H. Non-affiliated Employees who become covered by the terms of a collective bargaining agreement, unless the collective bargaining agreement specifically requires participation in this Plan.
- I. In addition to the foregoing exclusions, for purposes of the Nonelective Contributions and Matching Contributions, the following additional Employees shall be excluded:
 - Non-affiliated Employees (Employees whose employment is not governed by the terms of a collective bargaining agreement between Employee representatives and the Employer) who are temporary Employees.
 - Non-affiliated Employees (Employees whose employment is not governed by the terms of a collective bargaining agreement between Employee representatives and the Employer) who are Per Diem Employees.
 - 3. Employees of an entity in which the Employer is an investor.
- J. In addition to the foregoing exclusions, for purposes of the Matching Contributions, physicians and non-physicians of the Salinas Valley Health Clinics shall be excluded.
- 2. The Plan is further amended by changing all references in the Plan to the "Salinas Valley Medical Clinic" to the "Salinas Valley Health Clinics."

All other provisions of the Plan as in effect prior to this Amendment shall remain unchanged by this Amendment.

Executed this day of	, 2023
	SALINAS VALLEY MEMORIAL HEALTHCARE SYSTEM
	Ву:
	Title:



Board Paper: Personnel, Pension and Investment Committee

Agenda Item: Consider Recommendation for Board Approval of (i) the Findings Supporting Recruitment of

Nima Beheshti, DO, (ii) the Contract Terms for Dr. Beheshti's Recruitment Agreement, and (iii)

the Contract Terms for Dr. Beheshti's Neurology Professional Services Agreement

Executive Sponsor: Allen Radner, MD, Chief Medical Officer, Salinas Valley Health

Gary Ray, Chief Administrative Officer, Salinas Valley Health Clinics

Date: September 26, 2023

Executive Summary

In consultation with members of the medical staff, Salinas Valley Health (SVH) executive management has identified the recruitment of a physician specializing in neurology as a recruiting priority for the Medical Center's service area. Based on the Medical Staff Development Plan, completed by ECG Management Group in January 2023, the specialty of Neurology is recommended as a high priority for recruitment.

The recommended physician, Nima Beheshti, DO, received his Doctor of Osteopathic Medicine in 2019 at Rocky Vista University in Greenwood Village, CO. Dr. Beheshti completed his resident training at University of California Davis where he served as Chief Neurology Resident from 2021-2022. Dr. Beheshti will complete his Movement Disorders Fellowship at University of California Davis in 2024. Dr. Beheshti also holds a Masters of Public Health degree from University of California Berkeley and is fluent in Spanish. He will join Salinas Valley Health Clinics in the fall of 2024.

Terms and Conditions of Agreements

The proposed physician recruitment requires the execution of two types of agreements:

- 1. <u>Professional Services Agreement</u>. The proposed professional services agreement includes the following terms and conditions:
 - Professional Services Agreement (PSA). Physician will be contracted under a PSA with Salinas Valley Health and a member of Salinas Valley Health Clinics that provides W-2 relationship for IRS reporting.
 - ➤ <u>Term.</u> PSA is for a term of 2 years. Physician's annual compensation will be reported on an IRS W-2 Form as a contracted physician.
 - Schedule. Physician will be a 1.0 Full-Time Equivalent (FTE).
 - Base Compensation. Physician will receive base compensation of \$350,000 per year.
 - Productivity Compensation. To the extent it exceeds the base salary, physician will earn productivity compensation at \$60.50 work Relative Value Unit (wRVU) conversion factor.
 - ➤ Hospital Call. Physician will participate in unassigned patient call coverage.
 - ➤ Benefits. Physician will be eligible for standard SVH Clinics physician benefits:
 - Access to SVH Health Plan for physician and qualified dependents. Premiums are projected based on 15% of SVH cost.
 - Access to SVH 403(b) and 457 retirement plans. Five percent (5%) base contribution to 403b plan that vests after three years. This contribution is capped at the limits set by Federal law.
 - Four weeks (20 days) of time off each calendar year.
 - Continuing Medical Education (CME) annual stipend in the amount of \$2,400 paid directly to physician and reported as 1099 income.
 - Professional Liability. Physician will receive professional liability policy through BETA Healthcare Group.

2. **Recruitment Agreement** that provides a sign-on bonus of \$50,000 which is structured as forgivable loan over two years of service.

Meeting our Mission, Vision, Goals Strategic Plan Alignment:

The recruitment of Dr. Beheshti is aligned with our strategic priorities for the growth and finance pillars. We continue to develop Salinas Valley Health Clinics infrastructure that engages our physicians in a meaningful way, promotes efficiencies in care delivery and creates opportunities for expansion of services. This investment provides a platform for growth that can be developed to better meet the needs of the residents of our District by opening up access to care regardless of insurance coverage or ability to pay for services.

Pillar/	Goal	Alig	nm	ent:

Service □	People 🖂	Quality 🗌 I	Finance $oxed{oxed}$	Growth 0	Community
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Financial/Quality/Safety/Regulatory Implications

The addition of Dr. Beheshti to SVH Clinics has been identified as a need for recruitment while also providing additional resources and coverage for the SVH Neurology practice.

The compensation proposed in these agreements have been reviewed and compared to published industry benchmarks to confirm that the terms contemplated are fair market value and commercially reasonable.

Recommendation

Salinas Valley Health Administration requests that the Personnel, Pension and Investment Committee recommend to the Salinas Valley Health Board of Directors approval of the following:

- 1. The Findings Supporting Recruitment of Nima Beheshti, DO,
 - > That the recruitment of a neurologist to Salinas Valley Health Clinics is in the best interest of the public health of the communities served by the District; and
 - ➤ That the recruitment benefits and incentives the hospital proposes for this recruitment are necessary in order to attract and relocate an appropriately qualified physician to practice in the communities served by the District;
- 2. The Contract Terms of the Recruitment Agreement for Dr. Beheshti; and
- 3. The Contract Terms of the Neurology Professional Services Agreement for Dr. Beheshti.

Attachments

Curriculum Vitae for Nima Beheshti, DO

Dr. Nima Beheshti, DO MPH

UC Davis Department of Neurology

EDUCATION

Resident Physician, Neurology 2019 - 2024

University of California, Davis

Chief resident 2021 - 2022 Fellow, Movement Disorders exp 2023-2024

Doctor of Osteopathic Medicine 2019

Rocky Vista University

Master of Public Health, Nutrition 2015

University of California, Berkeley

Thesis; Physician Empathy and Communication towards Mexican-American Patients

Bachelor of Science, Biology 2011

Bachelor of Arts, Political Science Minor, Art History

University of California, Irvine

ADMINISTRATIVE AND LEADERSHIP EXPERIENCE

Fellow, Academic Pathways for Health Science Trainees Program, Davis, CA 2021 - 2022

- Completed a one-year training program to refine my leadership style, with MBTI integration
- Provided insights from multiple industry experts on the strengths and weaknesses of various management methods
- Took part in simulations to navigate difficult workplace scenarios using different conflict resolution techniques

Fellow, UC Davis / UC Irvine Clinician Health and Wellbeing Fellowship, Davis, CA 2021

- Completed 7-month long specialty program designed to help identify and tackle barriers to wellness in healthcare
- Topics included physician burnout, suicide, substance abuse, and cognitive concerns
- Designed a needs assessment to determine what residents are looking for in program-sponsored wellness activities
- Research culminated in the development and deployment of a survey to assess resident physician wellness needs, and to evaluate previous wellness strategies attempted by both individual departments and GME.

Fellow, Center for Health Leadership, Berkeley, CA

2013-2015

- Was coached through intensive self-reflection and personal growth exercises to identify my strengths and weaknesses as a leader, and was given a framework to improve these skills
- Developed project management and leadership skills during bi-weekly sessions
- Met with leaders in health care to observe different leadership styles in action

Project Manager Intern, Alta Bates Medical Group, Emeryville, CA

2014-2015

- Performed network analysis to identify more cost effective sites of care delivery
- Identified differentially priced codes based on site of service to reduce patient costs of care
- Worked alongside executive management and medical directorate in developing future strategies for growth, cost reduction, and quality improvement measures

CONSULTING EXPERIENCE

Consultant, Alameda County WIC Association, Hayward, CA

2014

- Performed needs assessment towards increasing patient recapture rate for clinically underserved area
- Prepared evidence based, budget neutral approaches to better coordinating care among young Latina mothers
- Made recommendations for expanding services and to better utilize web services via a complete plan of action

Consultant, Center for Care Innovations, San Francisco, CA

2014-2015

- Identified key marketing strategies to reach possible donors and investors
- Collaborated with industry leaders to learn how to sell a brand's image to interested parties
- Spurred development of cohesive mission, vision, and values of organization
- Synthesized findings and developed marketing materials for CCI to use in future expansion

Dr. Nima Beheshti, DO MPH

UC Davis Department of Neurology

RESEARCH EXPERIENCE

Junior Specialist, UC Irvine Medical Center Department of Urology Irvine, CA 2010-2013

- Worked closely with an interdisciplinary team of surgeons and coordinated research and evaluation
- Performed patient debrief after surgery and followed up with over 1,500 patients to track cancer recurrence
- Initiated and investigated multiple projects that led to two publications (see below)
- Established databases and advised on their use

TEACHING EXPERIENCE

Class Director, Model United Nations Course UC Irvine

2009-2011

- Instructed class of 30 students for six consecutive quarters
- Presented lecture material, facilitated discussion, coordinated guest speakers, and managed grades
- Prioritized international relations, legal writing, cooperation, public speaking, research, and debate skills

Graduate Student Instructor, Molecular and Cell Biology, Berkeley, CA

2014-2015

- Taught three classes: Intro to Biology, Drugs and the Brain, and Human Physiology
- Developed weekly lesson plan suited to each group's unique needs and interests
- Prepared mock interviews for students pursuing medical internships, and provided guidance and mentorship to aspiring pre-med and pre-pharmacy students.

LANGUAGE AND SOFTWARE SKILLS

Fluent: Spanish and Farsi (including medical topics)

Conversational: French and Italian

Prezi, STATA, Microsoft Office suite, Mac and PC

PUBLICATIONS

Beheshti N. Long Term Followup and Recovery Outcomes Following Robotic Assisted Radical Prostatectomy. Excellence in Research Undergraduate Journal May 2011

Liss M, Lusch A, Morales B, Beheshti N, Skarecky D, Narula N, Osann K, Ahlering T. Robot-Assisted Radical Prostatectomy: 5-Year Oncological and Biochemical Outcomes. J Urol April 2012

Beheshti N. The State of Early Childhood Mental Health in El Paso County, Colorado. Western States Medical Monographs, Volume 5, 2017

HOBBIES AND INTERESTS

-Cooking and Baking

-Yoga, Kickboxing

-Board games, Role-Playing Games

-Japanese Sumi-e Painting, woodburning, leathercraft

-History: Specifically Latin American and East Asian

-Art, Art History: Specifically Edo Japan, 20th Cen Europe

ACADEMIC HONORS AND ACCOLADES

Clinician Health and Wellbeing Innovation Award, Awarded 2021

UC Davis Medical Center Value Team Committee, Member 2021

UC Davis Neurology Department Wellness Ambassador; Accepted 2021

US Public Health Service Excellence in Public Health Award; Awarded 2019

Rocky Mountain Public Health Case Competition Finalist, 2nd place; Awarded 2015

Augustus Oliver Brown Endowment for Nutritional Research; Awarded 2013, 2014

Ruth L Huenemann Alumni Scholarship; Awarded 2014

Center for Health Leadership Fellowship; Accepted 2013

Sarah Samuels Award for Public Health Nutrition and Practice; Awarded 2013

Bocconi MilMUN Conference on International Women's Rights, Best Delegate; Awarded 2011

UC Irvine Summer Undergraduate Research Program Excellence in Research Award; Awarded 2011

UC Irvine Dean's Honor's List: Awarded five times 2009, 2010, 2011



Board Paper: Personnel, Pension and Investment Committee

Agenda Item: Consider Recommendation for Board Approval of (i) the Findings Supporting Recruitment of

Gurvinder Kaur, MD, (ii) the Contract Terms for Dr. Kaur's Recruitment Agreement, and (iii) the Contract Terms for Dr. Kaur's Neurosurgery Professional Services Agreement

Executive Sponsor: Allen Radner, MD, Chief Medical Officer, Salinas Valley Health

Gary Ray, Chief Administrative Officer, Salinas Valley Health Clinics

Date: September 26, 2023

Executive Summary

In consultation with members of the medical staff, Salinas Valley Health (SVH) executive management has identified the recruitment of a physician specializing in neurosurgery as a recruiting priority for the Medical Center's service area. Based on the Medical Staff Development Plan, completed by ECG Management Group in January 2023, the specialty of Neurosurgery is recommended as a priority for recruitment. Furthermore, there are currently only two credentialed neurosurgeons on SVH Medical Staff. Adding another neurosurgeon to Salinas Valley health Clinics will decrease the on-call burden for our existing providers and increase access for our clinic patients.

The recommended physician, Gurvinder Kaur, MD, received her Doctor of Medicine degree in 2013 at the University of California San Francisco and completed her neurosurgery residency at Northwestern Memorial Hospital in Chicago. Dr. Kaur completed her Neuro-Oncology Fellowship training at the University of Miami. Dr. Kaur comes to us from Centura Health in Colorado Springs where she has been practicing since 2021. She is a California native from the Bay Area. Dr. Kaur will join Salinas Valley Health Clinics in January 2024.

Terms and Conditions of Agreements

The proposed physician recruitment requires the execution of two types of agreements:

- 1. <u>Professional Services Agreement</u>. The proposed professional services agreement includes the following terms and conditions:
 - Professional Services Agreement (PSA). Physician will be contracted under a PSA with Salinas Valley Health and a member of Salinas Valley Health Clinics that provides W-2 relationship for IRS reporting.
 - Form as a contracted physician. Physician's annual compensation will be reported on an IRS W-2 Form as a contracted physician.
 - Schedule. Physician will be a 1.0 Full-Time Equivalent (FTE).
 - ➤ Base Compensation. Physician will receive base compensation of \$800,000 per year.
 - Productivity Compensation. To the extent it exceeds the base salary, physician will earn productivity compensation at \$90.00 work Relative Value Unit (wRVU) conversion factor.
 - Hospital Call. Physician will participate in unassigned patient call coverage.
 - Benefits. Physician will be eligible for standard SVH Clinics physician benefits:
 - Access to SVH Health Plan for physician and qualified dependents. Premiums are projected based on 15% of SVH cost.
 - ❖ Access to SVH 403(b) and 457 retirement plans. Five percent (5%) base contribution to 403b plan that vests after three years. This contribution is capped at the limits set by Federal law.
 - ❖ Four weeks (20 days) of time off each calendar year.
 - Continuing Medical Education (CME) annual stipend in the amount of \$2,400 paid directly to physician and reported as 1099 income.
 - Professional Liability. Physician will receive professional liability policy through BETA Healthcare Group.

2. **Recruitment Agreement** that provides a sign-on bonus of \$75,000 which is structured as forgivable loan over two years of service.

Meeting our Mission, Vision, Goals

Strategic Plan Alignment:

The recruitment of Dr. Kaur is aligned with our strategic priorities for the growth and finance pillars. We continue to develop Salinas Valley Health Clinics infrastructure that engages our physicians in a meaningful way, promotes efficiencies in care delivery and creates opportunities for expansion of services. This investment provides a platform for growth that can be developed to better meet the needs of the residents of our District by opening up access to care regardless of insurance coverage or ability to pay for services.

Pillar/	Goal	Alian	ment:
· · · · · · · · · · · · · · · · · · ·		/ 11191	

⊠ Service	People	Finance	Community

Financial/Quality/Safety/Regulatory Implications

The addition of Dr. Kaur to SVH Clinics has been identified as a need for recruitment while also providing additional resources and coverage for the SVH Neurosurgery practice.

The compensation proposed in these agreements have been reviewed against published industry benchmarks to confirm that the terms contemplated are fair market value and commercially reasonable.

Recommendation

Salinas Valley Health Administration requests that the Personnel, Pension and Investment Committee recommend to the Salinas Valley Health Board of Directors approval of the following:

- 1. The Findings Supporting Recruitment of Gurvinder Kaur, MD,
 - That the recruitment of a neurologist to Salinas Valley Health Clinics is in the best interest of the public health of the communities served by the District; and
 - That the recruitment benefits and incentives the hospital proposes for this recruitment are necessary in order to attract and relocate an appropriately qualified physician to practice in the communities served by the District;
- 2. The Contract Terms of the Recruitment Agreement for Dr. Kaur; and
- 3. The Contract Terms of the Neurosurgery Professional Services Agreement for Dr. Kaur.

Attachments

Curriculum Vitae for Gurvinder Kaur, MD

Gurvinder Kaur

CURRENT POSITION

Neurosurgeon 09/2021- present

Centura Health, Penrose Hospital Colorado Springs, CO

EDUCATION/TRAINING

Neurosurgery Neuro-oncology Fellow 2020-2021

Department of Neurosurgery, University of Miami

Resident Physician, Department of Neurosurgery 2013-2020

Northwestern Memorial Hospital

University of California, San Francisco, School of Medicine 2013

Medical Doctorate

University of California, Los Angeles 2006

Bachelor of Science, Neuroscience with Highest Honor

Summa Cum Laude

HONORS AND AWARDS

NIH-National Research Service Award (F32) Best Resident Consultant (Department of Emergency Medicine,	2017-2018 2015
Northwestern Memorial Hospital)	
Clinical and Translational Research Fellowship, UCSF	2011-2012
Howard Hughes Advanced Medical Student Fellowship	2011-2012
Howard Hughes Medical Student Fellowship	2010-2011
Dean's Medical Student Research Fellowship, UCSF	2008
Dean's Medical Student Research Fellowship, UCSF	2009
Dean's Honor List, UCLA	2002-2006
UCLA, Department of Neuroscience Highest Honor for Undergraduate Research	2006
Phi Beta Kappa	2006
College of Honors, UCLA	2006
Outstanding sophomore, Golden Key National Honor Society	2004

ACADEMIC LEADERSHIP AND SERVICE

Admission Committee member, UCSF School of Medicine.	2009-2013
West Coast Regional Chair, HHMI Medical Institute	2010-2011
Vice-President, Neuroscience Undergraduate Society, UCLA.	2005-2006
Community Service Chair, Golden Key Honor Society, UCLA	2005-2006

RESEARCH

Grant Funding

NIH- National Research Service Award/F32

2017-2018

Northwestern University

Role of tumor induced PD-L1 expression on myeloid cells in GBM on expansion of

Regulatory T cells and systemic immunosuppression

Howard Hughes Medical Student Fellowship

2010-2012

University of California, San Francisco

Necrosis Stimulates Glioblastoma Multiforme (GBM) Proliferation Through Complement Activation

Clinical and Translational Fellowship

2011-2012

University of California, San Francisco

Role of G-protein couple receptor Kinases in Glioblastoma Multiforme (GBM) Proliferation

Dean's medical student Fellowship

Summer 2008

University of California, San Francisco

Investigate the role of early leukocyte infiltration post spinal cord injury in early tissue damage, wound healing and recovery of function.

Dean's medical student Fellowship

Summer 2007

University of California, San Francisco

Synaptic Plasticity in substance abuse and addiction

Research Positions

Research Fellow, Bloch Laboratory

2017- 2018

PI: Orin Bloch, MD

Northwestern University, Brain Tumor Research Center

Department of Neurosurgery, Chicago, IL

The role of tumor Induced PD-L1 Expression on myeloid cells in GBM on expansion of

regulatory T Cells and systemic Immunosuppression

Research Fellow, Parsa Laboratory

2008-2013

PI: Andrew T. Parsa, MD PhD

University of California, San Francisco, Brain Tumor Research Center

Department of Neurosurgery, San Francisco, CA

Necrosis Stimulates Glioblastoma Multiforme (GBM) Proliferation Through Complement Activation

Research Assistant, Noble Laboratory

05/2008-09/2008

PI: Linda Noble, PhD

University of California, San Francisco, Spinal Cord Injury Center

Department of Neurosurgery, San Francisco, CA

Function of early leukocyte infiltration post spinal cord injury in early tissue damage, wound healing and recovery of function

Research Assistant, UCSF Graduate Medical Education

05/2008-12/2008

PI: Dr. Bridget O'Brien, PhD

UCSF Department of Medicine, Summer 2008

Development of benchmarking and Outcomes Reporting System for Graduate Medical Education (GME)

Programs

Research Assistant, Bonci Laboratory.

05/2007-09/2007

PI: Antonello Bonci MD

University of California, San Francisco, Ernest Gallo Clinic and Research Center

Synaptic plasticity and reward-related learning-TAT-PEP2M injection in the Ventral Tegmental Area (VTA) blocks long-term potentiation (LTP)

Research Assistant, Chandler Laboratory

2005-2006

PI: Dr. Scott Chandler, PhD

University of California, Los Angeles, Department of Neuroscience and Physiological Sciences

Participation of Kv1 channels in control of membrane excitability and burst generation in mesencephalic V neurons.

POSITIONS AND APPOINTMENTS

Neurosurgeon, Centura Health 09/2021- present

Penrose Hospital, Colorado Springs, CO

Neuro-oncology Fellow, Neurological Surgery 07/2020-06/2021

University of Miami, Miami, FL

Resident, Neurological surgery 07/2013- 2020

Northwestern University, Chicago, IL

McGaw House Staff Association; Neurosurgical Representative 06/2017-2020

Northwestern University, Chicago, IL

Instructor; Problem Based Learning 07/2017- 12/2017

Couse Directors: Dr. Robyn Bockrath, and Dr. Aneesha Shetty Northwestern University Feinberg School of Medicine, Chicago, IL

Instructor, Neuro-anatomy small groups 04/2008-06/2008

Course Director: Dr. Peter O'Hara, PhD

University of California San Francisco, San Francisco, CA

Instructor, Summer Math excellence program

Jose Valdes Math Institute, San Jose, CA

Summer 2005

PROFESSIONAL MEMBERSHIP

American Association of Neurological Surgeons	2011- Present
Congress of Neurological Surgeons	2011- Present
Society of Neuro-oncology	2011- Present

PUBLICATIONS

Kaur G, Han SJ, Yang I, Crane C. Microglia and central nervous system immunity. Neurosurgery clinics of North America. 2010; 21(1):43-51.

Kaur G, Kim J, Kaur R, Tan I, Bloch O, Sun MZ, Safaee M, Oh MC, Sughrue M, Phillips J, Parsa AT. G-protein coupled receptor kinase (GRK)-5 regulates proliferation of glioblastoma-derived stem cells. Journal of clinical neuroscience. 2013; 20(7):1014-8.

- **Kaur G**, Sayegh ET, Larson A, Bloch O, Madden M, Sun MZ, Barani IJ, James CD, Parsa AT. Adjuvant radiotherapy for atypical and malignant meningiomas: a systematic review. Neuro-oncology. 2014; 16(5):628-36.
- **Kaur G**, Kane AJ, Sughrue ME, Oh M, Safaee M, Sun M, Tihan T, McDermott MW, Berger MS, Parsa AT. MIB-1 labeling index predicts recurrence in intraventricular central neurocytomas. Journal of clinical neuroscience. 2013; 20(1):89-93.
- **Kaur G**, Kane AJ, Sughrue ME, Madden M, Oh MC, Sun MZ, Safaee M, El-Sayed I, Aghi M, McDermott MW, Berger MS, Parsa AT. The prognostic implications of Hyam's subtype for patients with Kadish stage C esthesioneuroblastoma. Journal of clinical neuroscience. 2013; 20(2):281-6. 15.
- Kaur G, Bloch O, Jian BJ, Kaur R, Sughrue ME, Aghi MK, McDermott MW, Berger MS,
- Chang SM, Parsa AT. A critical evaluation of cystic features in primary glioblastoma as a prognostic factor for survival. Journal of neurosurgery. 2011; 115(4):754-9.
- Hsiao CF, **Kaur G**, Vong A, Bawa H, Chandler SH. Participation of Kv1 channels in control of membrane excitability and burst generation in mesencephalic V neurons. Journal of neurophysiology. 2009; 101(3):1407-Han SJ, **Kaur G**, Yang I, Lim M. Biologic principles of immunotherapy for malignant gliomas. Neurosurgery clinics of North America. 2010; 21(1):1-16.
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CORPORATE COMPLIANCE AND AUDIT COMMITTEE

Minutes of the Corporate Compliance and Audit Committee will be distributed at the Board Meeting

(JUAN CABRERA)



Medical Executive Committee Summary – September 14, 2023

Items for Board Approval:

Credentials Committee

Initial Appointments:

APPLICANT	SPECIALTY	DEPT	PRIVILEGES
Bonano, John, MD	Orthopedic	Surgery	Orthopedic Surgery
	Surgery		
Chaudhry, Haider, MD	Neurology	Medicine	Tele-Neurology
Erlichman, Oren, MD	Anesthesiology	Anesthesiology	Anesthesiology
Kadakia, Rikin, MD	Interventional	Medicine	Cardiology
	Cardiology		Interventional Cardiology
			Peripheral Endovascular
			Cardiac Diagnostic Outpatient Center
			(CDOC)
			Center for Advanced Diagnostic
			Imaging (CADI)
Lee, Sherry, DO	Pediatrics	Pediatrics	Pediatrics
Logono, Alex, MD	Family	Medicine	Adult Hospitalist
	Medicine		
McCorvey, Vivian Monique, MD	Radiology	Surgery	Mammography
Rashid, Samiya, DO	Neurology	Medicine	Tele-Neurology
Shen, Jason, MD	Neurology	Medicine	Tele-Neurology
Wang, Aileen, MD	Endocrinology	Medicine	Endocrinology
			General Internal Medicine

Reappointments:

Keappointments.			
APPLICANT	SPECIALTY	DEPT	PRIVILEGES
Abundis, Rebecca, DO	Internal Medicine	Medicine	Medicine – Active Community
Chan, Erica, MD	Ob/Gyn	Ob/Gyn	Obstetrics and Gynecology
DeFilippi, Vincent, MD	Cardiothoracic	Surgery	Cardiac Surgery
	Surgery		Thoracic Surgery
Petrini, Joseph, MD	Family Medicine	Family Medicine	Family Medicine – Active Community
Ponzio, Christine, MD	Family Medicine	Family Medicine	Taylor Family Farms Health &
			Wellness Center
Rana, Naeem, MD	Sleep Medicine	Medicine	Sleep Center
Reddy, Kartheek, MD	Orthopedic	Surgery	Orthopedic Surgery
	Surgery		Hand Surgery
Renfer, Leonard, MD	Urology	Surgery	Urology
Santiago-Vergara, Diana, MD	Psychiatry	Medicine	Tele-Psychiatry
Seid, Terrence, DO	Anesthesiology	Anesthesiology	Anesthesiology
Siqueiros, Rafael, MD	Family Medicine	Family Medicine	Family Medicine Active Community

Staff Status Modifications:

NAME	SPECIALTY	STATUS	RECOMMENDATION
Carlson, Steven, MD	Pathology	Provisional	Recommend advancement to Active
			staff.
Hell, Richard, MD	Gastroenterology	Provisional	Recommend advancement to Active
			staff.
Mercado, Ma Cristina, MD	Pediatrics	Active	Active Community effective 10/01/2023.
Nguyen, Bich-Ha, MD	Internal Medicine	Active	Resignation effective 09/28/2023.
Moser, Evan, DO	Radiology	Leave of	Resignation effective 09/01/2023.
		Absence	

Privilege Modifications:

NAME	SPECIALTY	PRIVILEGE
Blakemore, Tonya, MD	Pediatrics	Newborn Circumcision relinquished
Dickey, James, MD	General Surgery	Regional Wound Healing Center (RWHC) added
Markovtsova, Anastasia, MD	Emergency Medicine	Emergency Medicine added

Temporary/Locum Tenens Privileges:

NAME	SPECIALTY	DATES	RECOMMENDATION
Dickey, James W., MD	General Surgery	9/5/2023 —	Locum tenens privileges for Regional
		9/29/2023	Wound Healing Center (RWHC)
Hussain, Jamal, MD	Interventional	9/8/2023 —	Locum tenens STEMI coverage
	Cardiology	9/11/2023	

Interdisciplinary Practice Committee

Initial Appointment:

NAME	SPECIALTY	DEPARTMENT	SUPERVISOR(S)
Serrano-Perez, Karen, PA-C	Physician Assistant	Emergency	Misty Navarro, MD
		Medicine	Cristina Martinez, MD

Modification of Privileges:

NAME	SPECIALTY	PRIVILEGE	RECOMMENDATION
Aliotti, Alexandria, PA-C	Physician Assistant	Cardiology	Voluntary relinquishment of
			Hospital Privileges
Davis, Christopher PA-C	Cardiac Surgery	Insertion of	Voluntary relinquishment of specific
		intravenous arterial,	privileges
		central venous and	
		Swan-Ganz catheters	
Shaw, Scott Eric, PA-C	Physician Assistant -	Ordering of Schedule	Temporary privileges as of
	Cardiac Surgery	II-V Drugs	9/13/2023 pending Board approval.

Other Items: (Attached)

Chest Pain Standardized	Reviewed and recommend approval of the revised standardized procedure as
Procedure	presented.
Intraosseous Infusion	Reviewed and recommend approval of the revised standardized procedure as
Standardized Procedure	presented.
Vaginal Bleeding Standardized	Reviewed and recommend approval of the revised standardized procedure as
Procedure	presented.

Policies and Plans: (Attached)

- 1. Surgical Wound Classification System Revised
- 2. Antibiotic Stewardship Policy Revised
- 3. Medication Error Reduction Plan (MERP) Revised

Informational Items:

I. Order Sets/Treatment Plans:

Treatment Plans	Hyperkalemia
	SEWS/Minds Scoring for Alcohol Withdrawal
	Delirium Treatment
Order Sets	
ONC.BKTANIV	ONC Antiemetic Breakthrough IV
ONC.BKTANPO	ONC Antiemetic Breakthrough PO
ONC.STEMTRANS	ONC Pre-Stem Cell Transplant
ONC.THROMBOSIS	ONC Venous Thrombosis
ONC.BOTOXSUP	OPI Botox Supportive Meds
ONC.EMLA	ONC Emla Cream
ONC.TUMORMA	ONC Tumor Marker Labs
ONC.INTLS	ONC TLS Labs: Inpatient
ONC.AMBTLS	ONC TLS Labs: Ambulatory
ONC.ANTIINPT	ONC Antiemetics: Inpatient
ONC IR PROCEDURES	ONC Port & PICC Procedures
ONC.IVIGLAB2	ONC AMB IVIG Labs
ONC.BBK	ONC Blood Products
ONC.MMAOM	ONC Multiple Myeloma Labs AOM
ONCMYELOMALABS	ONC Multiple Myeloma Initial 2
ONC.AMBCEA	ONC AMB CEA unchecked
ONC.PSATES	ONC AMB PSA & Testosterone unc
ONC.TESTOS	ONC AMB Testoster Free & Total
ONC.PSA	ONC AMB PSA

II. Committee Reports:

- a. Credentials Committee
- b. Interdisciplinary Practice Committee
- c. Quality and Safety Committee Reports:
 - Opioid/Pain Committee Report
 - Service Excellence Update
 - Sepsis Initiative Quality Improvement Report
 - Pharmacy and Therapeutics Committee/Infection Control Committee
 - Antibiotic Stewardship
 - Medication Safety Medication Error Reduction Plan Updated Crosswalk
 - Order Sets
 - Tissue Review
 - Cardiovascular Services Quality Improvement Report
 - Environmental Services Quality Improvement Report

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III. Other Reports:

- a. Summary of Executive Operations Committee Meetings
- b. Summary of Medical Staff Department/Committee Meetings August 2023
- c. Medical Staff Treasury Report September 7, 2023
- d. Medical Staff Statistics Year to Date
- e. HCAHPS Update September 6, 2023

Salinas Valley

Last N/A Approved Owner D

Darlene Vaughan:

Nursing Director

Last Revised

08/2023

approval

Area Nursing

Next Review

3 years after

Standardized Procedures

Chest Pain Standardized Procedure

POLICY

1. N/A

DEFINITIONS

- 1. Wong-Baker Scale: System to rate pain on a numeric scale, zero (0) to ten (10).
- 2. EKG: Electrocardiogram
- 3. IV/INT: Intravenous Therapy (saline lock) with intermittent flushes.
- 4. CBC: Complete Blood Count
- 5. CMP: Comprehensive Metabolic Panel

PROCEDURE

- 1. Function
 - 1. To expedite care for patients who present to the Emergency Department (ED) with a chief complaint of chest pain that may be cardiac in nature.
- 2. Circumstances
 - 1. Setting Emergency
 - a. Registered Nurses (RN) assigned to the ED may initiate orders for patients presenting with chest pain or symptoms that may be cardiac in nature prior to physician evaluation IF: the ED physician is not immediately available. The RN will obtain an EKG within 10 minutes, ensure blood is drawn, order approved laboratory tests, initiate cardiac monitoring, place oxygen per protocol and place an INT with routine flushes. This will apply to patients with symptoms listed in the PATIENT CONDITIONS section below.

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2. Supervision

a. Registered Nurses who are qualified to perform this standardized procedure may independently order approved laboratory tests, order an EKG, previous EKG, Oxygen Administration, and start/place an IV saline lock with intermittent flushes of 10cc normal saline to patients who present with a chief complaint of chest pain and for whom meet the criteria above. Physician supervision is not required.

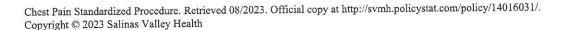
3. Patient Conditions

- a. Emergency Department patients who present with any of the following symptoms, the procedure will be initiated:
 - i. Chest Pain- Discomfort in the center of the chest that lasts more than a few minutes, or that goes away and comes back. Patients may describe the pain as uncomfortable pressure, squeezing, fullness or pain.
 - ii. Pain in other areas of the upper body Symptoms can included pain in one or both arms, the back, neck, jaw or stomach. Patient may describe the pain as deep aching and throbbing in one or both arms.
 - Shortness of breath May occur with or without chest pain/ discomfort. May be described as breathlessness and/or inability to catch breath when waking up.
 - iv. Anxiety Unusual nervousness, and/or feelings of impending doom.
 - Other signs These may include clammy sweating, nausea, lightheadedness or dizziness, syncope, palpations or irregular heartbeat.
- b. NOTE: Symptoms of heart attack in women are often different than in men. Women are more likely to experience shortness of breath, fatigue, nausea, dizziness and anxiety as presenting symptoms.

3. Data Base

1. Subjective

- a. Prioritization and Severity of Illness
 - i. Patients with a chief complaint of chest pain that may be cardiac in nature will be triaged (prioritized) according to accepted triage policy based on the severity of their illness and incorporating other medical conditions and/or additional features of their illness using the Emergency Severity Index (ESI) 5 level triage (see TRIAGE ASSESSMENT)
 - ii. History of present illness/injury/chief complaint
 - iii. Characteristic of Chest Pain using the Wong-Baker Pain Scale
 - iv. Consider conditions related to cardiac disease i.e.) pericarditis,



cardiomyopathy, or coronary artery disease

v. History of cardiac surgeries/illness

2. Objective

- a. Chief complaint of chest pain
 - i. Signs of hypovolemia
 - ii. Chest excursion, symmetry and pain upon palpation
 - iii. Level of consciousness
 - iv. Color of skin/sclera
 - v. Presence or absence of peripheral edema
 - vi. Objective signs of pain

4. Diagnosis

1. Chest Pain suspect to be cardiac in nature

5. Plan

1. Treatment

- a. The following laboratory tests may be ordered: CBC, CMP, POC I-stats as needed, Troponin I, Draw Extra, Chest XRay 1 View.
- b. The order must be placed under the name of the supervising ED physician. If a different provider is later assigned to the patient, the orders will be transferred to the provider assigned.
- c. The blood and urine specimens must be labeled accurately with the patient's name and account number. The accuracy of the label must be verified by using the hospital approved patient identification process (see PATIENT IDENTIFICATION policy). The labeling of specimens must occur AT THE PATIENT'S BEDSIDE.
- d. Specimens collected by the ED nursing staff must be timed and initialed by the person drawing the specimen and placed in a bio-hazard specimen bag
- e. Specimens collected in the ED will be handed to a phlebotomist or transported in person or by the pneumatic tube system to the lab.
- f. Cardiac monitor with rhythm interpretation (rhythm strip to be mounted in patient's medical record)
- 2. Patient conditions requiring consultation/reportable conditions:
 - a. Notify an Emergency Department physician immediately of the following:
 - i. Changes in airway, breathing, circulation or altered level of consciousness.
 - ii. Change in triage acuity.
 - a. Patients presenting with signs and symptoms of

- possible ACS (acute coronary syndrome).
- b. Note: If the patient appears unstable and/or a life threatening condition is identified: the ED RN will notify the ED physician IMMEDIATELY Conditions requiring immediate treatment include: Expanding or acute aortic abdominal aneurysm, acute myocardial infarction, pulmonary embolism or spontaneous pneumothorax.
- 3. Education Patient/Family
 - a. Instruct patient or care provider on types of blood tests being ordered and necessity of intravenous therapy.
- 4. Follow Up
 - a. As needed to maintain continuity of care
- 5. Documentation of Patient Treatment
 - Document all patient procedures and care on the appropriate nursing clinical documents along with any patient responses from the interventions.
 - b. Enters "supervising ED physician as ordering provider.
 - c. Navigates to Emergency Department Nursing Order Sets
 - d. Selects "Chest Pain-Standardized Procedure" as the order source.
- 6. Record Keeping
 - 1. The facility will retain the patients' record according to the RECORD RETENTION procedure.

REQUIREMENTS FOR THE REGISTERED NURSE

- 1. Education
 - 1. A registered nurse who has completed orientation and has demonstrated clinical competency may perform the procedures listed in this protocol. Education will be given upon hire with a RN preceptor/designee
- 2. Training
 - 1. Clinical competency must be demonstrated and approved by supervising personnel or preceptor.
- 3. Experience
 - 1. Current California RN license and designated to work in ED
- 4. Evaluation
 - 1. Initial: at 3 months, 6 months, and 12 months by the nurse manager through feedback from colleagues, physicians, and chart review during performance period being evaluated.

- Routine: annually after the first year by the nurse manager through feedback from colleagues, physicians and chart review.
- 3. Follow up: areas requiring increased proficiency as determined by the initial or routine evaluation will be re-evaluated by the nurse manager at appropriate intervals until acceptable skill level is achieved, e.g. direct supervision.
- 4. Demonstrates knowledge of procedure through clinical performance.

DEVELOPMENT AND APPROVAL OF THE STANDARDIZED PROCEDURE

1. Method

- 1. Review and approval every three (3) years.
- 2. Policy goes through the Emergency Department Physician Group every three (3) years.
- 3. Policy goes through the interdepartmental policy committee (IDPC) upon creation of policy and when changes are made.
- 4. Chief Nursing Officer (Vice President of Patient Care Services) upon creation of policy and with significant changes.

2. Review schedule

- 1. Review of policy every three (3) years
- 3. Signatures of authorized personnel approving the standardized procedure and dates:
 - 1. Approval of the standardized procedure is outlined in the electronic policy and procedure system.
 - 2. Nursing
 - a. Director of Emergency Department every three (3) years
 - 3. Medicine
 - a. Medical Director of Emergency Department every three (3) years
 - b. Chair of Interdisciplinary Medical Practice Committee every three (3) years
 - 4. Administration
 - a. Chief Nursing Officer (Vice President of Patient Care Services) every three
 (3) years

REGISTERED NURSES AUTHORIZED TO PERFORM PROCEDURE AND DATES

1. The list of qualified individuals who may perform this standardized procedure is available in the department and available upon request.

REFERENCES

- 1. Board of Registered Nursing, Title 16, California Code of Regulations (CCR) Section 1474; Medical Board of California, Title 16 CCR, Section 1379.
- 2. Emergency Nurses Association: Emergency Nursing Core Curriculum (2016), 7th Edition. Planning/interventions for myocardial infarction.

I. POLICY

A. N/A

II. DEFINITIONS

- A. Wong-Baker Scale: System to rate pain on a numeric scale, zero (0) to ten (10).
- B. EKG: Electrocardiogram
- C. IV/INT: Intravenous Therapy (saline lock) with intermittent flushes.
- D. CBC: Complete Blood Count
- E. CMP: Comprehensive Metabolic Panel

III. PROCEDURE

A. Function

1. To expedite care for patients who present to the Emergency Department (ED) with a chief complaint of chest pain that may be cardiac in nature.

B. Circumstances

1. Setting Emergency

a. Registered Nurses (RN) assigned to the ED may initiate orders for patients presenting with chest pain or symptoms that may be cardiac in nature prior to physician evaluation IF: the ED physician is not immediately available. The RN will obtain an EKG within 10 minutes, ensure blood is drawn, order approved laboratory tests, initiate cardiac monitoring, place oxygen per protocol and place an INT with routine flushes. This will apply to patients with symptoms listed in the PATIENT CONDITIONS section below.

2. Supervision

a. Registered Nurses who are qualified to perform this standardized procedure may independently order approved laboratory tests, order an EKG, previous EKG, Oxygen Administration, and start/place an IV saline

lock with intermittent flushes of 10cc normal saline to patients who present with a chief complaint of chest pain and for whom meet the criteria above. Physician supervision is not required.

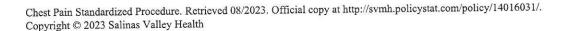
3. Patient Conditions

- a. Emergency Department patients who present with any of the following symptoms, the procedure will be initiated:
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 - ii. Pain in other areas of the upper body Symptoms can included pain in one or both arms, the back, neck, jaw or stomach. Patient may describe the pain as deep aching and throbbing in one or both arms.
 - iii. Shortness of breath May occur with or without chest pain/ discomfort. May be described as breathlessness and/or inability to catch breath when waking up.
 - iv. Anxiety Unusual nervousness, and/or feelings of impending doom.
 - <u>V.</u> Other signs These may include clammy sweating, nausea, lightheadedness or dizziness, syncope, palpations or irregular heartbeat.
- NOTE: Symptoms of heart attack in women are often different than in men. Women are more likely to experience shortness of breath, fatigue, nausea, dizziness and anxiety as presenting symptoms.

C. Data Base

1. Subjective

- a. Prioritization and Severity of Illness
 - Patients with a chief complaint of chest pain that may be cardiac in nature will be triaged (prioritized) according to accepted triage policy based on the severity of their illness and incorporating other medical conditions and/or additional features of their illness using the Emergency Severity Index (ESI) 5 level triage (see TRIAGE ASSESSMENT)
 - ii. History of present illness/injury/chief complaint
 - iii. Characteristic of Chest Pain using the Wong-Baker Pain Scale



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- iv. Consider conditions related to cardiac disease i.e.) pericarditis, cardiomyopathy, or coronary artery disease
- v. History of cardiac surgeries/illness

2. Objective

- a. Chief complaint of chest pain
 - i. Signs of hypovolemia
 - ii. Chest excursion, symmetry and pain upon palpation
 - iii. Level of consciousness
 - iv. Color of skin/sclera
 - v. Presence or absence of peripheral edema
 - vi. Objective signs of pain

D. Diagnosis

1. Chest Pain suspect to be cardiac in nature

E. Plan

1. Treatment

- a. The following laboratory tests may be ordered: CBC, CMP, POC I-stats as needed, Troponin I, Draw Extra, Chest XRay 1 View.
- b. The order must be placed under the name EMERGENCY PHYSICIAN. If a different provider is later assigned to the patient, the orders will be transferred to the provider assigned.
- c. The blood and urine specimens must be labeled accurately with the patient's name and account number. The accuracy of the label must be verified by using the hospital approved patient identification process (see PATIENT IDENTIFICATION policy). The labeling of specimens must occur AT THE PATIENT'S BEDSIDE.
- d. Specimens collected by the ED nursing staff must be timed and initialed by the person drawing the specimen and placed in a bio-hazard specimen bag
- e. Specimens collected in the ED will be handed to a phlebotomist or transported in person or by the pneumatic tube system to the lab.
- f. Cardiac monitor with rhythm interpretation (rhythm strip to be mounted in patient's medical record)

- Patient conditions requiring consultation/reportable conditions:
 - a. Notify an Emergency Department physician immediately of the following:
 - Changes in airway, breathing, circulation or altered level of consciousness.
 - ii. Change in triage acuity.
 - Patients presenting with signs and symptoms of possible ACS (acute coronary syndrome).
 - b. Note: If the patient appears unstable and/or a life threatening condition is identified: the ED RN will notify the ED physician IMMEDIATELY Conditions requiring immediate treatment include: Expanding or acute aortic abdominal aneurysm, acute myocardial infarction, pulmonary embolism or spontaneous pneumothorax.
- 3. Education Patient/Family
 - a. Instruct patient or care provider on types of blood tests being ordered and necessity of intravenous therapy.
- 4. Follow Up
 - a. As needed to maintain continuity of care
- 5. Documentation of Patient Treatment
 - a. Document all patient procedures and care on the appropriate nursing clinical documents along with any patient responses from the interventions.
 - b. Enters "EMERGENCY PHYSICIAN as ordering provider.
 - c. Navigates to Emergency Department Nursing Order Sets
 - d. Selects "Chest Pain-Standardized Procedure" as the order source.

F. Record Keeping

 The facility will retain the patients' record according to the RECORD RETENTION procedure.

IV. REQUIREMENTS FOR THE REGISTERED NURSE

A. Education

 A registered nurse who has completed orientation and has demonstrated clinical competency may perform the procedures listed in this protocol. Education will be given upon hire with a RN preceptor/designee

B. Training

1. Clinical competency must be demonstrated and approved by supervising personnel or preceptor.

C. Experience

1. Current California RN license and designated to work in ED

D. Evaluation

- Initial: at 3 months, 6 months, and 12 months by the nurse manager through feedback from colleagues, physicians, and chart review during performance period being evaluated.
- Routine: annually after the first year by the nurse manager through feedback from colleagues, physicians and chart review.
- 3. Follow up: areas requiring increased proficiency as determined by the initial or routine evaluation will be re-evaluated by the nurse manager at appropriate intervals until acceptable skill level is achieved, e.g. direct supervision.
- 4. Demonstrates knowledge of procedure through clinical performance.

V. DEVELOPMENT AND APPROVAL OF THE STANDARDIZED PROCEDURE

A. Method

- 1. Review and approval every three (3) years.
- 2. Policy goes through the Emergency Department Physician Group every three (3) years.
- 3. Policy goes through the interdepartmental policy committee (IDPC) upon creation of policy and when changes are made.
- Chief Nursing Officer (Vice President of Patient Care Services) upon creation of policy and with significant changes.

B. Review schedule

- 1. Review of policy every three (3) years
- C. Signatures of authorized personnel approving the standardized procedure and dates:
 - 1. Approval of the standardized procedure is outlined in the electronic policy and

Page 10 of 12

procedure system.

2. Nursing

a. Director of Emergency Department every three (3) years

3. Medicine

- a. Medical Director of Emergency Department every three (3) years
- b. Chair of Interdisciplinary Medical Practice Committee every three (3) years

4. Administration

a. Chief Nursing Officer (Vice President of Patient Care Services) every three
 (3) years

VI. REGISTERED NURSES AUTHORIZED TO PERFORM PROCEDURE AND DATES

A. The list of qualified individuals who may perform this standardized procedure is available in the department and available upon request.

VII. REFERENCES

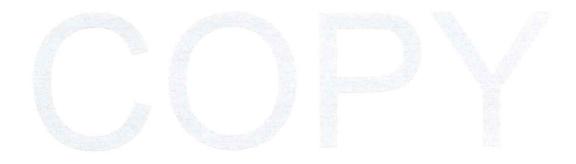
- A. Board of Registered Nursing, Title 16, California Code of Regulations (CCR) Section 1474;
 Medical Board of California, Title 16 CCR, Section 1379.
- B. Emergency Nurses Association: Emergency Nursing Core Curriculum (2016), 7th Edition. Planning/interventions for myocardial infarction.

Approval Signatures

Step Description	Approver	Date
IDPC	Katherine DeSalvo: Director Medical Staff Services	Pending
Policy Committee	Rebecca Alaga: Regulatory/ Accreditation Coordinator	08/2023
Policy Owner	Darlene Vaughan: Nursing Director	08/2023

Standards

No standards are associated with this document





Last N/A Approved

Owner

Darlene Vaughan:

Nursing Director

Last Revised 05/2017

Area Nursing

Standardized

approval

Procedures

Intraosseous Infusion Standardized Procedure Nursing Standardized Procedure

Next Review 3 years after

I. POLICY

- A. Intraosseous access and infusion is to provide an alternate means of vascular access when the IV route is not available or IV access attempts were unsuccessful and the patient would benefit from the timely administration of medications or fluids.
- B. Circumstances:
 - Setting:
 - A. Adult and pediatric patients where at least two attempts at IV access have been unsuccessful or it is determined that an IV attempt would be unsuccessful, and one of the following:
 - I. Cardiac arrest or impending arrest
 - II. Shock or evolving shock. This is a patient considered in Extremis.
 - · Supervision:
 - A. Intraosseous access and infusion may be performed in the emergency department by Registered Nurses who have successfully completed approved training within the past 12 months.
 - · Patient Condition:

Indications

- A. Intraosseous access and infusion is approved for adult and pediatric patients.
- B. Intraosseous access and infusion will never be performed to establish prophylactic vascular access

- C. Intraosseous access and infusion is approved only in the proximal tibia for children. The patient must weigh 3kg or more in order to use the EZ-IO
- D. Intraosseous access and infusion is approved only in the proximal tibia and the proximal humerus for patients age 8 and older. Sternal placement is prohibited

Contraindications

- A. Recent fracture of the involved bone.
- B Infection at the site selected for insertion
- C. Inability to locate anatomical landmarks for insertion.
- D. Those patients who have a patent IV or in whom an IV may be established in a timely manner.
- E. Second attempt on the same bone.

II. DEFINITIONS

- A. Intraosseous access and infusion: Establishing vascular access through bone marrow
- B. In Extremis: A profound state where death appears imminent
- C. EZ-IO- Type of Drill Intraosseous

III. PROCEDURE

- A. Database
 - Subjective
 - 1. Assure that indications for use have been met.
 - a. At least two attempts at IV access have been unsuccessful or it is determined that an IV attempt would be unsuccessful, and one of the following:
 - i. Cardiac arrest or impending arrest
 - ii. Shock or evolving shock. This is the patient in extremis.
 - Assure that contra-indications for use are not present.
 - a. Recent fracture of the involved bone
 - b. Infection at the insertion site
 - c. Inability to locate anatomical landmarks for insertion
 - d. Patients who have a patent IV or in whom an IV may be established in a timely manner.
 - e. Second attempt in the same bone.
 - Objective

- 1. Determine patient age and weight to select the appropriate IO insertion device.
 - a. For a patient 3kg and under use a manual IO device
 - b. For a patient over 3kg and under 40kg and under age 8 use the Pediatric EZ-IO or manual device.
 - c. For a patient over age 8 or a weight over 40kg, use the Adult EZ-
- 2. Approved insertion sites:
 - a. Proximal Tibia for pediatric patients. This is less than 8 year of age or less than 40kg.
 - b. Proximal Tibia or proximal humerus for adult patients. This is age 8 or older and 40kg or more.
- B. Diagnosis:
 - a. Cardiac Arrest
 - b. Shock or evolving shock.
- C. Plan
- Treatment
 - 1. Process for Insertion
 - a. Use body substance isolation precautions
 - b. Obtain age/weight appropriate supplies
 - c. Rule out contra-indications
 - d. Locate appropriate insertion site
 - e. Prepare insertion site using aseptic technique
 - f. Prepare the Intraosseous device
 - g. Stabilize the site and insert the needle at a 90 degree angle to the bone
 - h. Remove the sty let for the catheter
 - Confirm placement of the catheters by flushing the catheter with 10cc normal saline
 - j. Consider the administration of Lidocaine 2% solution, 20 mg for the adult or 0.5mg/kg (up to 20mg) for the pediatric patient who is conscious and complains of pain.
 - k. Dress insertion site, stabilize and secure the catheter
- · Patient conditions requiring consultation/reportable conditions:
 - a. Signs of infiltration of fluids
 - b. Redness or swelling at the site of insertion

- c. Duration of access approaching 24 hours
- Education-Patient/Family
 - Instruct patient or care provider to alert staff if site becomes painful or if the catheter becomes dislodged
 - b. Necessity of intravenous therapy
- Follow-up
 - a. As needed to maintain continuity of care
- · Documentation of Patient Treatment
 - a. Document all patient procedures and care on the appropriate nursing clinical documents along with any patient response from the interventions

IV. REQUIREMENTS FOR THE REGISTERED NURSE

- A. Education
 - A registered nurse who has completed orientation and has demonstrated clinical competency may perform the procedures listed in this protocol. Education will be given upon hire with an RN preceptor/designee.
- B. Training
 - Clinical competency must be demonstrated and approved by supervising personnel or preceptor.
- C. Experience
 - · Current California RN license and designated to work in ED
- D. Initial Evaluation
 - · Competency will be verified and documented upon hire
- E. Ongoing Evaluation
 - Ongoing evaluation of competency to perform this procedure will be evaluated by the department supervising personnel and/or designee as needed.

V. DEVELOPMENT AND APPROVAL OF THE STANDARDIZED PROCEDURE

- A. Method
 - · Review and approval every three (3) years
 - Policy goes through the Emergency Department Physician group every three (3) years.
 - · Policy goes through the interdepartmental policy committee (IDPC) upon creation of

policy and when changes are made

- · Chief Nursing Officer upon creation of policy and with significant changes.
- B. Review Schedule
 - Review of policy occurs every three (3) years.
- C. Signatures of Authorized Personnel Approving the Standardized Procedure and Dates
 - 1. Nursing Director of Emergency Services
 - 2. Medicine Medical Director, Emergency Department
 - 3. Administration Chief Nursing Officer

VI. REGISTERED NURSES AUTHORIZED TO PERFORM PROCEDURE AND DATES

- A. All Registered Nurses who have completed orientation and education regarding this standardized procedure.
- B. The list of qualified individuals who may perform this standardized procedure is available in the department and available upon request.

VII. REFERENCES

- A. Lowther A (2011) Intraosseous access and adults in the Emergency Department. *Nursing Standard*. 25, 48, 35-48.
- B. Ashford and St Peter's Hospitals NHS Trust (2008) Intraosseous Needle Placement Using EZ-IO System. http://tiny.cc/Ashford748.

Approval Signatures

Step Description	Approver	Date
IDPC	Katherine DeSalvo: Director Medical Staff Services	Pending
Policy Committee	Rebecca Alaga: Regulatory/ Accreditation Coordinator	07/2023
Policy Owner	Darlene Vaughan: Nursing Director	07/2023

Standards

No standards are associated with this document





Last N/A Approved

Last Revised N/A

Next Review N/A

Owner Darlene Vaughan:

Nursing Director

Area Nursing

Standardized Procedures

Vaginal Bleeding Standardized Procedure

I. POLICY

A. Function

 This standardized procedure outlines circumstances for which a registered nurse in the Emergency Department may start an IV and order blood work prior to a patient examination by a physician.

B. Circumstances

- Setting
 - 1. Registered Nurses (RNs) may order Complete Blood Count (CBC), Serum Human Chorionic Gonadotropin (sHCG), UA, with CX and a Blood Type and Rh factor (Type and Rh) on patients between menarche and menopause who present with a chief complaint of vaginal bleeding (DRAW EXTRA TUBES) IF: the ED physician is not immediately available AND the patient is between menarche and menopause.
 - Patient to be NPO except for Meds.
- Supervision
 - Registered Nurses, who are employed in the Emergency Department and have successfully completed the Patient's with Vaginal Bleeding competency, are qualified to perform this standardized procedure and may order CBC, sHCG, Type and Rh, place a saline lock IV when vital signs are within normal limits or initiate IV resuscitation if vital signs are abnormal, to the patients presenting with the chief complaint of vaginal bleeding and whom meet criteria. Physician supervision is not required.
- · Patient Conditions
 - Patients with a history of hysterectomy should only have blood drawn for a CBC.

- 2. Patients whose Type and Rh can be located in the medical record within the last one (1) year: DO NOT require a Type and Rh.
- Other
- Consider conditions related to vaginal bleeding, chromosomal abnormalities, endocrine dysfunction, abnormal development of the embryo, and trauma.
- Additional factors that increase risk of spontaneous abortion include maternal infections, advanced maternal age, malnutrition, substance abuse, immunologic incompatibility, surgery during pregnancy, and structural anomalies of the reproductive organs.

II. DEFINITIONS

- A. CBC: Complete Blood Count
- B. sHCG: Serum Human Chorionic Gonadotropin
- C. Blood Type and Rh factor (Type and Rh)
- D. UA with CX if indicated

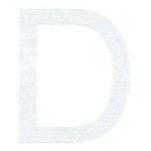
III. PROCEDURE

- A. Database
 - Subjective
 - Patients with the chief complaint of vaginal bleeding will be triaged and prioritized according to accepted triage policy based on the severity of their vaginal bleeding using the Emergency Severity Index (ESI) 5 Level Triage. (See TRIAGE ASSESSMENT)
 - a. Spontaneous abortion (miscarriage) is the loss of a pregnancy before viability of the fetus defined as 20 weeks gestation. Spontaneous abortion should be considered in any woman of childbearing age who presents to the emergency department with vaginal bleeding. Spontaneous abortions are commonly categorized as threatened, inevitable, incomplete, missed, or septic.
 - b. An ectopic pregnancy (EP) could cause vaginal bleeding in pregnant women. EP intrudes into the tubal wall too deeply or grows too large, it can rupture the tube and can be lifethreatening due to risk of hemorrhage.
 - c. Menopausal or women of a geriatric age, malignant disease should always be considered. Postmenopausal hormonal changes may be responsible for dysfunctional uterine bleeding (DUB). Patients in this age group with vaginal bleeding are at increased risk for uterine cancer.
 - d. Pediatric patients may have an estrogen and progesterone

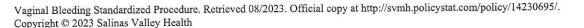
production imbalance and these do increase with puberty between 8-11 years of age. Vaginal bleeding in pediatric patients could be from maltreatment and the index of suspicion on sexual abuse must be maintained.

- 2. All patients presenting with chief complaint of vaginal bleeding and characteristics using numerical or Wong Baker pain scale.
 - a. Onset of vaginal bleeding and potential cause (what happened)
 - Last normal menstrual period (LNMP) and location of pain, if present.
 - c. Duration of vaginal bleeding
 - d. Characteristics of vaginal bleeding: amount, color, presence of clots/tissue. Number of full pads/tampons used (each holds approximately 30 ml of blood).
 - e. Alleviating or aggravating factors
 - f. Radiation of pain
 - g. Treatment before arriving to the Emergency Department.
 - h. Positive pregnancy test: date and method (serum or urine).
 - i. Fatigue, dizziness, lightheadedness, syncope
 - j. Contraceptive history
 - Reproductive history, total number of pregnancies, live births spontaneous/therapeutic abortion(s) (gravida, para, SAB/TAB)
 - Recent trauma or surgery
 - m. Recent sexual intercourse
- · Objective
 - 1. Patients with vaginal bleeding will be assessed for the following
 - a. Level of consciousness, behavior, affect
 - Abnormal vital signs, obtain orthostatic vital signs (lying, sitting, standing)
 - c. Skin, color; moist or dry
 - d. Gait
 - e. Quality and Quantity of vaginal bleeding, color, amount, passage of clots or tissue
 - f. Presence or absence of pain/cramping and location of pain
 - g. Palpation of abdomen for tenderness
 - h. Auscultation for Fetal Heart Tones
- B. Diagnosis
 - Vaginal bleeding caused by

- 1. Spontaneous abortion from a nonviable fetus
- 2. Ectopic pregnancy invading the tubal wall
- Uterine dysfunction
- 4. Endocrine imbalance
- Sexual assault/abuse or maltreatment
- 6. Malignant disease
- Potential differential diagnoses
 - 1. Deficient fluid volume
 - 2. Acute pain
 - Anticipatory grieving
- Plan
- 1. Treatment
 - Patient must have an accurate name-band in place before blood work is drawn.
 - When initiating an IV infusion the RN will label the blood tubes accurately by using the hospital approved patient identification process (see PATIENT IDENTIFICATION POLICY). The labeling of specimens must occur AT THE PATIENT'S BEDSIDE.
 - c. Specimens collected by the ED nursing staff must be timed and initialed by the person drawing the specimen and placed in a biohazard specimen bag.
 - d. Specimens will be handed to a phlebotomist or transported to lab in person or through the pneumatic tube system
 - e. The order must be placed under the name of the supervising ED physician. If a different provider is later assigned to the patient, the orders will be transferred to the provider assigned.
 - f. The ED RN will assess the patient presenting with vaginal bleeding according the standardized policy and procedure of Vaginal Bleeding.
 - The ED RN will initiate IV therapy when the following is present:
 - Moderate to heavy vaginal bleeding present
 - 2. Skin signs are cool, pale, and moist
 - Systolic blood pressure (SPB) of 100 or less and/or heart rate of greater than 100.
 - A female staff member MUST be present with the ED physician during the patient's vaginal exam.



- If specimens are obtained patient label must be taken to the bedside and verified with the patient using the two (2) Patient Identifiers (patient name and medical record number).
- 2. Patient conditions requiring consultation:
 - a. If the patient appears unstable and/or life threatening condition is identified: the ED RN will notify the ED physician IMMEDIATELY.
 - b. Heavy bleeding present with skin signs of cool, pale and moist.
 - c. Vital signs critical less than 100 SBP and heart rate greater than 100.
 - d. Changes in airway, breathing, circulation, or altered level of consciousness
 - e. Change in triage acuity
- 3. Education-Patient/Family
 - a. Educate on processes of the Emergency Department
 - i. Why patient must remain NPO status until results
 - ii. Explain the need for blood work and initiation of blood work
 - iii. Explain the procedure of vaginal exam
 - iv. Explain what medication given and why
 - Education that patient did not do anything wrong, that miscarriage or threatened miscarriage it is not the patient's fault
 - vi. Educate on receiving RhoGAM, if woman is Rhnegative
 - Educating for threatened abortion
 - Maintain bed rest for 24 to 48 hours or until bleeding subsides
 - Educate on the need for bed rest and pelvic rest (no sexual intercourse, do not place anything inside the vagina) until bleeding and cramping stop
 - iii. Use sanitary pads only; avoid tampons
 - iv. Return to the Emergency Department if bleeding or pain increases
 - v. Save any clots or tissue that passes and bring to the emergency department or follow-up physician
 - vi. Ensure appropriate follow-up care with obstetrician/ gynecologist.



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- c. Education for complete abortion
 - Mild abdominal pain/cramping is common for several days
 - ii. Use sanitary pads only; avoid tampons
 - iii. Take temperature four times a day
 - iv. Pelvic rest
 - v. Ensure follow-up care with obstetrician/gynecologist.
 - vi. Activity as tolerated
 - vii. Return to the emergency department if temperature is higher than 100.6 F, bleeding, pain, or foul-smelling discharge occurs or increases

d. Follow up

- Reassessment and reevaluation of vaginal bleeding every two (2) hours or more frequently according to the patient severity and amount of vaginal bleeding and accordance with the Emergency Department Policy and Procedure: Assessment/Reassessment (see STANDARDS OF CARE-EMERGENCY DEPARTMENT)
- e. Documentation of Patient Treatment
 - Document all patient procedures and care on the appropriate nursing clinical documents along with any patient responses from the interventions.
 - The ED RN initiating the standardized procedure will document the following: CBC, sHCG, Type and Rh, and IV therapy ordered per "standardized procedure" in the electronic medical record.
 - Enters "supervising ED physician as ordering provider, per policy.
 - Navigates to New Sets.
 - 4. Selects "ER Nursing Orders" order set
 - 5. Selects appropriate order.

IV. REQUIREMENTS FOR THE REGISTERED NURSE

- A. Education and Training
 - The RN completes an initial review of the Standardized Procedure with an evaluation of knowledge.

Vaginal Bleeding Standardized Procedure. Retrieved 08/2023. Official copy at http://svmh.policystat.com/policy/14230695/. Copyright © 2023 Salinas Valley Health

Page 6 of 8

- B. Experience
 - · Current California RN license and designated to work in ED
- C. Initial and Ongoing Evaluation
 - · Demonstrates knowledge of procedure through clinical performance.

V. DEVELOPMENT AND APPROVAL OF THE STANDARDIZED PROCEDURE

A. Method

- Review and approval every three (3) years.
- Policy goes through the Emergency Department Physician Group every three (3) years.
- Policy goes through the interdepartmental policy committee (IDPC) upon creation of policy and when changes are made.
- Chief Nursing Officer (Vice President of Patient Care Services) upon creation of policy and with significant changes.
- B. Review schedule
 - Review of policy every three (3) years
- C. Signatures of authorized personnel approving the standardized procedure and dates:
 - Nursing
 - 1. Director of Emergency Department every 3 years
 - Medicine
 - 1. Medical Director of Emergency Department every 3 years
 - 2. Chair of Interdisciplinary Medical Practice Committee every 3 years
 - Administration
 - Chief Nursing Officer (Vice President of Patient Care Services) every 3
 years

VI. REGISTERED NURSES AUTHORIZED TO PERFORM PROCEDURE AND DATES

A. Records are kept electronically in Education Department Computer system and in nursing unit's education file.

VII. REFERENCES

- A. Board of Registered Nursing, Title 16, California Code of Regulations (CCR)
- B. Section 1474; Medical Board of California, Title 16, CCR Section 1379.

- C. Emergency Nurses Association: Emergency Nursing Core Curriculum (2000)
- D. 6th Edition. Vaginal bleeding 536-564.
- E. TRIAGE ASSESSMENT
- F. STANDARDS OF CARE-EMERGENCY DEPARTMENT

Approval Signatures

Step Description Approver Date

Standards

No standards are associated with this document



Approved

Last N/A

Owner

Melissa Deen:

Salinas Valley

N/A

approval

Infection Prevention Manager

Last Revised

Next Review 3 years after

Area

Nursing Standardized

Procedures

Surgical Wound Classification System

I. POLICY STATEMENT

A. Surgical wounds are classified according to criteria used by Center for Disease Control and Prevention (CDC) uses an adaptation of the American College of Surgeons wound classification schema, which divides surgical wounds into four classes.

II. PURPOSE

- A. Adhering to mandated reporting of denominator data of surgeries preformed at Salinas Valley Health Medical Center, per Center for Disease Control and Prevention (CDC) via National Health Safety Network (NHSN), California Department of Public Health (CDPH) and Centers for Medicare & Medicaid Services (CMS)
- B. Create accuracy with which circulating nurses (CNs) classify surgical procedures by risk of contamination in the operating room.

III. DEFINITIONS

A. CLASS I Operative Wound, or CLEAN WOUND: an uninfected surgical wound in which no inflammation is encountered and the respiratory, alimentary, genital, or urinary tracts are not entered. Clean wounds are primarily closed and, if necessary, drained with closed drainage. Surgical wound incisions that are made after non-penetrating (i.e., blunt) trauma should be included in this category if they meet the criteria.

1.	Exa	amples of CLASS I Surg	ical Procedures:	
	Amputation	Laminectomy	Ovarian Cyctectomy	
	Breast biopsy	Mastectomy	Porto-caval shunt	
	Cataract	Muscle biopsy	Skin biopsy	

Example	es of CLASS I Surg	ical Procedures:
Ectropion	Oophorectomy	Tubal ligation
Femoral head resection	Orbital tumor	Vascular surgery
Herniorrhaphy	ORIF	Intervertebral disc resection

- B. <u>CLASS II Operative Wound, or CLEAN-CONTAMINATED WOUND</u>: a surgical wound in which the respiratory, alimentary, genital, or urinary tracts are entered under controlled conditions and without unusual contamination. Specifically included in this category are surgical procedures involving the biliary tract, appendix, vagina, and oropharynx, provided no evidence of infection is encountered and no major break in technique occurs.
 - Note: All clean operative wounds with open drains; (i.e. Penrose) are considered CLASS II operative wounds.

2.	Examples of CLASS II Surgical Procedures			
	Anterior/Posterior vaginal repair	Appendectomy (no inflammation or infection)	Bartholin cystectomy (not infected)	
	Caesarean section	Cervical biopsy	Cervical conization	
	Cholecystectomy (without inflammation, infection or gross spillage)	Circumcision	Cystectomy	
	D&C of uterus (no infection present)	Endoscopic procedures (ALLI) (e.g. Bronchoscopy, Cystoscopy, Esophagoscopy, Laryngoscopy, Proctoscopy, Sigmoidoscopy, or others)	Episiotomy	
	Gastrectomy (no inflammation)	Gastric Bypass	Hemorrhoidectomy	
	Hysterectomy, abdominal or vaginal (open or laparoscopic)	Intraocular foreign body removal	Mastoidectomy	
	Pneumonectomy or lobectomy without infection	Prostatectomy	Pyloroplasty	
	Resection of small intestine or colon (no spillage)	Salpingectomy via laparotomy (e.g. Ectopic pregnancy)	Stapedectomy	
	Stapes mobilization	Tonsillectomy	Tracheal surgery (and biopsy)	

	Examples of CLASS II Surgion	741 1 100044.00
Transurethral resection	Tuboplasty	Vaginal delivery (routine)
Y-V plasty of blade	ler	

C. <u>CLASS III Operative Wound or CONTAMINATED WOUND</u>: an open, fresh, accidental wound. This typically involves a surgical procedure in which a major break in sterile technique occurs (e.g., emergency open cardiac massage) or when gross spillage from the gastrointestinal tract and incisions in which acute, non-purulent inflammation is encountered.

	Examples of CLASS III Surgical Procedures		
	Appendectomy (inflamed, not perforated)	Bartholin cystectomy (inflamed)	Bowel Surgery
	Chalazion	Colostomy closure	Cholecystectomy (with inflammation, infection, or gross spillage)
	Dacryocystitis	Eye Surgery with Conjunctivitis	Hordeolum
	Intranasal surgery	Introcular foreign body with endophthalmitis	Lacrimal stenosis
	Laryngectomy, partial to total (not inflamed or infected)	Mandibulectomy (no infection)	Oral and dental surgery infection or inflammation
	Pilonidal cyst and sinus infected		

D. <u>CLASS IV Operative Wound or DIRTY OR INFECTED WOUND</u>: an old traumatic wound with retained or devitalized tissue, as well as a wound that involves existing clinical infection or perforated viscera. This definition suggests that the organisms causing postoperative infection were present in the wound before the surgical procedure.

1.	Examples of CLASS IV Surgical Procedures		
	Amputation in presence of gangrene or infection		Bowel resection in presence of peritonitis or perforation
	Burns	D&C (uterus- infected)	Drainage of intra-abdominal abscess
	Infected carcinoma	Laryngectomy, partial or total (inflamed/infected)	Lid or Orbital cellulitis or abscess

Exa	amples of CLASS IV Sur	gical Procedures
Mandibulectomy (infected)	Open fracture	Traumatic wound

IV. GENERAL INFORMATION

A. Circulating nurses (CNs) use the traditional wound classification system of clean, cleancontaminated, contaminated, and dirty-infected to classify surgical wounds in the operating room.

V. PROCEDURE

- A. Documentation by the CNs, will update the wound class in the patient electronic medical record.
 - 1. Provided in "III. Definitions" section of this policy

VI. EDUCATION/TRAINING

A. Education and/or training is provided upon hire and reviewed annually.

VII. REFERENCES

- A. Surgical site infection (SSI) event. In: National Healthcare Safety Network (NHSN) Patient Safety Component Manual. Atlanta GA: National Healthcare Safety Network, Centers for Disease Control and Prevention; 2018:9-1–9-32.
- B. Guideline for sterile technique. In: Guidelines for Perioperative Practice. Denver, CO: AORN, Inc; 2018: e133-e172ist top 5 current references)
- C. APIC Text of Infection Control and Epidemiology, on-line 2023
- D. CDC NHSN definitions 2023, Surgical Site Infection (SSI); https://www.cdc.gov/nhsn/pdfs/pscmanual/9pscssicurrent.pdf
- E. Operational Guidance for Reporting Surgical Site Infection (SSI) Data to CDC's NHSN for the Purpose of Fulfilling CMS's Hospital Inpatient Quality Reporting (IQR) Program Requirements, updated November 2019; https://www.cdc.gov/nhsn/pdfs/cms/ssi/Final-ACH-SSI-Guidance.pdf

Approval Signatures

Step Description Approver Date

P&T Committee Genevieve delos Santos: Pending

Pharmacy Operations Manager

Policy Committee Rebecca Alaga: Regulatory/ 08/2023

Accreditation Coordinator

Policy Owner Melissa Deen: Infection 08/2023

Prevention Manager

Standards

No standards are associated with this document

History

Created by Deen, Melissa: Infection Prevention Manager on 7/31/2023, 6:31PM EDT

new policy per CDPH recommendation

Last Approved by Deen, Melissa: Infection Prevention Manager on 7/31/2023, 6:31PM EDT

Comment by Deen, Melissa: Infection Prevention Manager on 7/31/2023, 6:36PM EDT

@Tesfamariam, Haimanot: Infection Prevention Specialist @Erausquin, Melissa: Operating Room Operations Manager @Hawthorne, Leslie: Operating Room Clinical Manager @Knight, Carla: Director of Perioperative Services

Please review and send me any edits.

This policy follows regulations regarding our mandated surgical denominator data for CDPH & CMS. Last year's CDPH validation audit, this policy was a recommendation in improve our wound class documentation by our surgical nursing staff.

Draft saved by Deen, Melissa: Infection Prevention Manager on 7/31/2023, 6:41PM EDT

Edited by Deen, Melissa: Infection Prevention Manager on 7/31/2023, 6:42PM EDT

typing error corrected in references.

Last Approved by Deen, Melissa: Infection Prevention Manager on 7/31/2023, 6:42PM EDT

Administrator override by Alaga, Rebecca: Regulatory/Accreditation Coordinator on 8/10/2023, 1:42PM EDT

Flow corrected. Please approve to move forward.

Surgical Wound Classification System. Retrieved 08/2023. Official copy at http://svmh.policystat.com/policy/14117514/. Copyright © 2023 Salinas Valley Health

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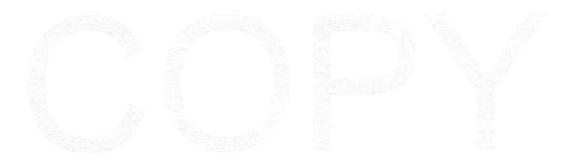
Rejected by Alaga, Rebecca: Regulatory/Accreditation Coordinator on 8/10/2023, 1:43PM EDT

Please approve to move forward with new approval flow. Thank you.

Last Approved by Deen, Melissa: Infection Prevention Manager on 8/10/2023, 1:45PM EDT

Last Approved by Alaga, Rebecca: Regulatory/Accreditation Coordinator on 8/10/2023, 2:37PM EDT

Policy Committee previously approved





Antibiotic Stewardship Policy

ASP Policy – approved by P&T Committee on 8/18/23

Policy Statement:

Salinas Valley Health actively supports its Antibiotic Stewardship Program (ASP) as an organizational priority, with the mission of promoting the appropriate use of antimicrobial agents to treat infections and to reduce possible adverse events associated with antimicrobial use.

Salinas Valley Health appoints a physician who is qualified through education, training, or experience in infectious diseases and antibiotic stewardship as the leader of the Antibiotic Stewardship Program.

Salinas Valley Health allocates financial resources for staffing and information technology to support the Antibiotic Stewardship Program. The organization's Antibiotic Stewardship Program employs active hospital-wide programs for the surveillance, prevention, and control of healthcare-associated infections and other infectious diseases. Using nationally recognized infection prevention and control guidelines, employing best practices for improving antibiotic use, and reducing the development and transmission of healthcare-associated infections and antibiotic resistant organisms, Salinas Valley Health continues to expand its robust Antibiotic Stewardship Program.

Purpose:

Optimizing the use of antimicrobials through an effective Antibiotic Stewardship Program has been shown to improve patient outcomes, protect patients from harms caused by unnecessary antibiotic use, decrease the incidence of hospital-acquired *Clostridioides difficle* infections, as well as diminish the spread of infections caused by multidrug-resistant organisms (MDRO).

The leader(s) of the Antibiotic Stewardship Program is responsible for the following:

- Developing and implementing a hospital-wide Antibiotic Stewardship Program that is based on nationally recognized guidelines to monitor and improve the use of antibiotics.
- Documenting Antibiotic Stewardship activities, including any new or sustained improvements
- Communicating and collaborating with the medical staff, nursing leadership, clinical microbiology/laboratory and pharmacy leadership, as well with the hospital's infection prevention and control and quality assessment and performance improvement programs on antibiotic use issues.
- Providing competency-based training and education for staff on practical applications of antibiotic stewardship guidelines, policies, and procedures.

Definitions:

- AR Antimicrobial Resistance
- ASHP American Society of Health System Pharmacists
- ASP Antibiotic (Antimicrobial) Stewardship Program
- CAP Community-acquired pneumonia
- CDC Centers for Disease Control and Prevention, a part of the U.S. Public Health Service of the Department of Health and Human Services (DHHS)
- CRE Carbapenem-resistant Enterobacteriaceae
- DOT Days of therapy for which a specific antimicrobial was administered
- ESBLs Extended-spectrum beta-lactamases
- HAI Healthcare-associated infections
- KPC Klebsiella pneumoniae carbapenemase
- MRSA Methicillin-resistant Staphylococcus aureus
- MDRO Multidrug-resistant organism
- P&T Pharmacy and Therapeutics Committee
- SSTI Skin and soft tissue infections
- TJC The Joint Commission
- UTI Urinary Tract Infection
- VRE Vancomycin-resistant enterococci

General Information:

Salinas Valley Health has a multidisciplinary committee, the Antibiotic Stewardship Committee, which oversees the Antibiotic Stewardship Program. The committee is composed of representation from the medical staff, pharmacy services, the infection prevention and control program, nursing services, microbiology, information technology, and the quality assessment and performance improvement program.

The Antibiotic Stewardship Committee is a subcommittee of the Pharmacy and Therapeutics Committee, working in concert with medical staff leadership and hospital administration in promoting appropriate antibiotic prescribing practices and reducing antibiotic resistance. The Antibiotic Stewardship Committee meetings take place every other month, on site, at Salinas Valley Health. ASP data is shared with the P&T Committee, Medical Executive Committee, and the Board of Directors.

The Antibiotic Stewardship Program demonstrates coordination among all components of the hospital responsible for antibiotic use and resistance, including, but not limited to, the infection prevention and control program, the quality assessment and performance improvement program, the laboratory/microbiology department, the medical staff, nursing services, and pharmacy services.

The Antibiotic Stewardship Program (ASP) initiatives are consistent with evidence-based practices and regulatory requirements. The Centers for Disease Control and Prevention (CDC), who published the Core Elements of Hospital Antibiotic Stewardship Programs and the most current guidelines, policy statements, compendiums, and regulations from relevant organizations such as ASHP, Infectious Diseases Society of America, the Society for Healthcare Epidemiology of America, The Joint Commission (TJC), Centers for Medicare and Medicaid Services, as well as the California Department of Public Health.

The CDC's Core Elements of Hospital Antibiotic Stewardship Programs that serve as guideposts for the Antibiotic Stewardship Program include: Hospital Leadership Commitment; Accountability; Pharmacy Expertise; Action; Tracking; Reporting, and Education.

In addition, TJC's new and revised requirements for antibiotic stewardship consist of twelve new and revised elements of performance (EPs) that apply to all accredited hospitals, with the goal of "optimizing antibiotic prescribing practices," provide a framework to expand the Antibiotic Stewardship Program. These ASP initiatives are designed to reduce or prevent healthcare-associated infections, including hospital-acquired *Clostridioides difficle* infections and multidrug-resistant organisms (MDROs).

Healthcare information technology (e.g., electronic medical records, computerized physician order entry, antibiogram/microbiology laboratory data and clinical decision support) is used to support and optimize ASP initiatives. The Antibiotic Stewardship Program documents the evidence-based use of antibiotics throughout the departments and services of Salinas Valley Health.

Metric, process and outcome measures are used to assess the effectiveness of the ASP initiatives and the overall impact on antimicrobial use and resistance patterns.

Procedure:

The Antibiotic Stewardship Committee is responsible for oversight of the Antibiotic Stewardship Program initiatives and reports findings and recommendations to the Pharmacy and Therapeutics/Infection Prevention Committee.

The core members of the multidisciplinary Antimicrobial Stewardship committee includes an infectious diseases physician, a clinical pharmacist with infectious diseases training, a clinical microbiologist or laboratory representative, an information technology pharmacist, an infection prevention professional, a hospital epidemiologist, and a representative from nursing.

When ordering oral and parenteral antibiotics (or other antimicrobials), the provider is required to indicate the specific indication for treatment in the electronic medical record. The indications are listed in a drop-down format and include: Bloodstream; Bone/Joint; *C. difficle*; CNS/Meningitis; Genitourinary Tract; Endocarditis/Endovascular; Intra-Abdominal; Sepsis; Neutropenic Sepsis; Pulmonary; Skin/Soft tissue; and Surgical Prophylaxis.

Interventions and Strategies

The Antibiotic Stewardship Program, as developed by the Antibiotic Stewardship Committee, utilized the following interventions and strategies, as appropriate:

- Prospective Audit and Feedback
 - The clinical pharmacist interacts directly with prescribers in order to tailor specific antibiotic therapy for each patient. This entails prospective review and feedback regarding antibiotic prescribing practices, including the treatment of positive blood cultures, the review of antimicrobials for appropriateness, and patient-specific feedback.
- Approved Mechanism and Process of Communication
- Formulary Restriction and Preauthorization Requirements.
 - Antibiotic use may be limited by the following criteria: Formulary-based restriction; criteria-based restriction; preauthorization-based restriction.
 - Use of Pharmacy and Therapeutics Committee-approved Restricted Antimicrobials List (attachment)
- Education
 - Educate and promote ASP strategies and prescribing criteria.
- Guidelines, Clinical Pathways, and Order Sets
 - Develop evidence-based practice guidelines incorporating local microbiology and resistance patterns to improve antimicrobial utilization. Examples include:
 - Use of surgical prophylactic antibiotics
 - o Community-acquired pneumonia
 - Develop and implement the use of order sets to facilitate implementation of practice guidelines.
- Streamlining or De-escalation
 - Streamline or de-escalate empirical antimicrobial therapy on the basis of culture and sensitivity results to eliminate redundant combination therapy and more effectively target the causative pathogen, resulting in decreased antimicrobial exposure and potential cost savings.
- Dose Optimization
 - Optimize antimicrobial dosing based on individual patient characteristics (including hepatic/renal function), causative organism(s), site of infection, pharmacokinetic/pharmacodynamic parameters.
- Intravenous to Oral (IV to PO) Conversion
 - Develop and implement the use of clinical criteria and guidelines for the systematic conversion from parenteral to oral antimicrobials, as allowed by patient's condition.
- Combination Therapy
 - Utilize combination when appropriate to minimize the emergence of resistance.
- Suppression Cascade Reporting
 - Implement cascade reporting of antibiotic susceptibilities for common pathogens (e.g., suppression of unnecessarily broad-spectrum agents for microorganisms that are susceptible to less broad-spectrum agents).

Computer Surveillance and Decision Support

Information technology (including electronic medical records, computerized physician order entry, antibiogram/microbiology laboratory data and clinical decision support) is utilized and optimized to support the ASP initiatives including, but not limited to:

- Improving access to patient-specific information, such as microbiology cultures and sensitivities, hepatic/renal function, drug interactions and allergies.
- Ensuring the effectiveness of drug regimens.
- · Tracking resistance patterns.
- Identifying nosocomial infections.
- Facilitating and tracking interventions.
- Surveillance of adverse drug events (ADE).

Microbiology - Laboratory Support

The microbiology department plays a critical role in antimicrobial stewardship by providing:

- Rapid molecular diagnosis of positive blood cultures.
- Patient-specific cultures and sensitivity data using suppression cascade reporting.
- Surveillance of resistant organisms.
- Molecular epidemiologic investigation of outbreaks.
- Antibiogram data development and maintenance.

Pharmacy Support

The clinical pharmacist's role in antimicrobial stewardship includes the following:

- Prospective audit and feedback rounding with the Infectious Diseases Physician twice a week.
- Prospective audit and feedback during the other days of the week.
- Vancomycin and aminoglycoside pharmacokinetic adult dosing protocols.
- Extended infusion beta-lactam adult dosing protocols (Piperacillin/Tazobactam and Meropenem).
- Antibiotic streamlining/de-escalation.
- Drug use criteria (DUE) development and implementation.
- IV to PO conversion.
- Documentation of clinical interventions in both patient-specific pharmacy interventions and the electronic medical record notes.
- Adherence to Pharmacy and Therapeutics Committee approved "Restricted Antimicrobials List."
 Specific communication to the ordering physicians is necessary.
 (See Attachment.)

Surveillance and Prevention of Multidrug-Resistant Organisms

- Initiatives are developed to prevent infections due to multidrug-resistant organisms (MDRO) including, but not limited to, Methicillin-resistant Staphylococcus aureus (MRSA), Vancomycin-resistant enterococci (VRE), Extended-spectrum beta-lactamases (ESBL), Carbapenem Resistant Enterobacteriaceae (CRE), and Klebsiella pneumoniae Carbapenemase (KPC). In addition, initiatives are also developed to prevent infections due to Clostridioides difficle (CDI).
- Practices consistent with evidence-based standards of practice and regulatory requirements are developed and implemented to reduce the risk of transmitting multidrug-resistant organisms.
- Key opportunities to improve antibiotic use include:
 - Community-acquired pneumonia (CAP) Avoid empiric use of antipseudomonal betalactams and/or MRSA agents unless clinically indicated. Guidelines suggest that in adults, many cases of uncomplicated pneumonia can be treated for 5 days when a patient has a timely clinical response.
 - Urinary tract infections (UTIs) Avoid antibiotic therapy for asymptomatic bacteriuria except in certain clinical situations where treatment is indicated, such as pregnancy and those undergoing invasive genitourinary procedures. Usage of the shortest duration of antibiotic therapy is advisable in most situations.
 - Skin and soft tissue infections (SSTIs) Avoid empiric use of antipseudomonal beta-lactams and/or anti-anaerobic agents in many situations. Limit duration of treatment to 5 to 7 days (excluding diabetic-foot infections).

Metrics, Quality Assurance, and Performance Improvement

- Salinas Valley Health's Antibiotic Stewardship Program collects, analyzes, and reports data to hospital leadership and prescribers.
- Metrics are developed and used to measure the prevalence of hospital-acquired infections caused by resistant organisms, antimicrobial susceptibilities of common pathogens obtained from hospital-specific antibiograms, antimicrobial use patterns, health care costs, and other variables related to hospital-acquired antibiotic-resistant infections. The Antibiotic Stewardship Program monitors the hospital's antibiotic use by analyzing data on days of therapy per 1,000 days at risk; it also reports antibiotic use data to the National Healthcare Safety Network's antimicrobial Use Option of the Antimicrobial Use and Resistance Module.
- Metrics and process and outcome measures are used to assess the effectiveness of the Antibiotic Stewardship Program initiatives and the overall impact on antimicrobial use and resistance patterns.

Metrics, Quality Assurance, and Performance Improvement (Continued)

- Process and outcomes measures may include:
 - Days of Therapy (DOT) per 1,000 patient days at risk (defined as the aggregate sum of days for which a specific antimicrobial agent was administered to individual patients as documented in the electronic medication administration record [eMAR]) and/or bar coding medication record (BCMA).
 - Multidrug-resistant organism infections rates using evidence-based metrics.
 - Compliance with evidence-based guidelines or best practices.
 - Evaluation of the education programs for staff and licensed independent practitioners
 - Process and outcome data related to multidrug-resistant organisms are provided to key stakeholders, including leaders, licensed independent practitioners, nursing staff and other clinicians.

Action

 Salinas Valley Health takes action on improvement opportunities identified by the Antibiotic Stewardship Program.

Documentation

- Documentation
 - Clinical interventions and monitoring activities will be documented in the electronic medical record.

Education/Training:

- Education and/or training is provided as needed:
 - Via the use of HealthStream Learning Center (HLC), the hospital's on-line health care-specific learning management system for new and updated items.
 - Written information, communicated to healthcare professionals within the organization via multiple mediums including, but not limited to:
 - Organization-wide email system in which staff members are responsible for accessing and reviewing.
 - New employee orientation using the HealthStream (e-learning) system.
 - Shift huddles, and pertinent updates when indicated.

Attachment(s):

Salinas Valley Health Restricted Antimicrobials

References:

- Antibiotic Prescribing and Use https://www.cdc.gov/antibiotic-use/stewardship-report/current.html
- Antimicrobial Prophylaxis in Surgery ASHP Therapeutic Guidelines
 https://www.ashp.org/pharmacy-practice/policy-positions-and-guidelines/browse-by-document-type/therapeutic-guidelines?loginreturnUrl=SSOCheckOnly
- Core Elements of Hospital Antibiotic Stewardship Programs https://www.cdc.gov/antibiotic-use/core-elements/hospital.html
- Essential Resources and Strategies for Antibiotic Stewardship Programs in the Acute Care Setting https://pubmed.ncbi.nlm.nih.gov/29590355/
- Implementing an Antibiotic Stewardship Program: Guidelines by the Infectious Diseases Society
 of America and the Society for Healthcare Epidemiology of America
 https://academic.oup.com/cid/article/62/10/e51/2462846
- Infectious Diseases Management Program at UCSF https://idmp.ucsf.edu/about
- Stanford Medicine Stanford Antimicrobial Safety and Sustainability Program https://med.stanford.edu/bugsanddrugs/guidebook.html
- The Joint Commission R3 Report Issue 35: New and Revised Requirements for Antibiotic Stewardship
 - $\frac{https://www.jointcommission.org/standards/r3-report/r3-report-issue-35-new-and-revised-requirements-for-antibiotic-stewardship/\#.ZAevkXZKiUk}{}$



Plan To Eliminate or Substantially Reduce Medication-Related Errors (SB 1875, HSC 1339.63)

Medication Error Reduction Plan (MERP)

Updated August, 2023

Contact Person:

Genevieve C. delos Santos
Pharmacy Operations, Interim Pharmacist-in-Charge
Director of Pharmacy
(831)-759-3234

Overview/Background and History of Salinas Valley Health

technology to improve the health and well-being of our community. In many cases, this provides our patients the opportunity to receive specialized medical care Salinas Valley Memorial Hospital, founded in 1953, is the cornerstone of what would eventually become Salinas Valley Memorial Healthcare System (SVMHS). A rebrand was necessary as there has been significant changes at the Health System and today, Salinas Valley Health serves thousands of individuals and families locally without the need for travel. Salinas Valley Health Medical Center, SVMHS' 263-bed general acute care hospital, employs 2,083 (non-physician/nonthroughout the Salinas Valley, Monterey Peninsula and surrounding areas. Our team actively utilizes the latest medical techniques with state-of-the-arl contingent worker) staff and has a medical staff of more than 300 dedicated physicians whose expertise comprises a broad spectrum of specialties.

Mission and Vision

- Mission: It is the mission of Salinas Valley Health to provide quality healthcare to our patients and to improve the health and well-being of our community.
- Vision: A community where good health grows through every action, in every place, for every person.

Programs & Specializations

Salinas Valley Health Medical Center continues to be a center of excellence where an inspired team delivers compassionate and culturally sensitive care, outstanding quality, and an exceptional patient service.

Services provided by Salinas Valley Health Medical Center are identified under the facility license.

Our major Affiliates and Partnerships Include:

- Salinas Valley Health Clinics
- Doctors on Duty (urgent care) and Urgent Care Centers
- Visiting Nurse Association Hospice
- Stanford affiliation with NICU

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Medication Error Reduction Plan (MERP)

MERP Background:

delayed or changed due to various factors. This revision will first outline the required elements of the plan and references to the most recent 2023 plan. In 2001 the California legislature passed legislation resulting in HSC 1339.63 which required every general acute care hospital to adopt a formal plan to eliminate or substantially reduce medication-related errors. Salinas Valley Memorial Hospital submitted a plan to the California Department of Health outlined multiple methods for reducing medication errors. Many of these steps were completed and in place at that time, while others have been Services (now California Department of Public Health [CDPH] by the end of 2001 as required), and the plan was accepted as submitted. This plan The plan is reviewed annually and updated as necessary.

Definition:

The National Coordinating Council for Medication Error Reporting and Prevention (NCC MERP) defines a medication error as: "A medication error is any professional, patient, or consumer." This standard definition is encouraged by the NCC MERP to be used by institutions and other groups to identify preventable event that may cause or lead to inappropriate medication use or patient harm while the medication is in the control of the health care

California MERP Requirements:

Salinas Valley Health has adopted the California MERP initiatives, which include eleven (11) procedures and systems that are associated with medication use. They include:

- Prescribing
- Prescription order communications
- Product labeling
- Packaging and nomenclature
 - Compounding
- Dispensing . 4. 6. 7. 8
- Distribution
- Administration

Education

- Monitoring 10.

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MERP Plan Element (PE) Methodology:

- Plan Element 1 (PE1) Evaluate, assess, and include a method to address each of the eleven (11) procedures and systems associated with medication use to identify weaknesses or deficiencies that could contribute to errors in the administration of medications.
 - Plan Element 2 (PE2) Annual review to assess the effectiveness of the implementation of each of the eleven (11) procedures and systems.
 - Plan Element 3 (PE3) Modify, as warranted, when weaknesses or deficiencies are noted, to achieve the reduction of medication errors.
- Plan Element 4 (PE4) Describe the technology to be implemented and how it is expected to reduce medication errors associated with one or more of the eleven (11) procedures and systems.
 - Plan Element 5 (PES) Include a system/process to proactively identify actual or potential medication-related errors. Shall include concurrent and retrospective review of clinical care.
- Plan Element 6 (PE6) Multidisciplinary process to regularly analyze all identified actual or potential errors and describe how the analysis will be utilized to change current procedure and systems to reduce errors.
- Plan Element 7 (PE7) Include a process to incorporate external medication-related error alerts to modify the eleven (11) current processes and systems as appropriate.

ANNUAL EVALUATION OF MEDICATION ERROR REDUCTION PLAN FOR YEAR 2023

1. Prescribing

- The process whereby a licensed or authorized prescriber orders a medication for a patient.
- California Board of Pharmacy and The Joint Commission. During the prescribing process, medication orders must be legible; they must not contain (CPOE) as well as faxed paper orders. The ordering of medications must comply with the required elements of a prescription, as mandated by the This includes order sets, order strings and individual medication orders, which are prescribed using electronic computerized provider order entry abbreviations, inappropriate leading/trailing zeroes, ranges, and as needed (PRN) orders without indication or clear instruction of use.

2. Prescription Order Communications

- This process may be via direct order by the provider or by means of a telephone order or verbal order to the licensed nurse/pharmacist when appropriate. The process where a prescription is communicated, clarified, transcribed (If necessary), and any other communications related to a prescription order.
 - This also includes communication of relevant information to the pharmacy necessary for medication order processing/verification, such as allergies, age, current weight (using metric units), height, gender, and pertinent laboratory values. In addition, medication-related electronic alerts during

contraindications and critical laboratory values are important features that must be acknowledged during prescription order communications. prescription order entry, pharmacy validation or clinical administration related to allergies, therapeutic duplication, drug interactions,

3. Product Labeling

- Product Labeling refers to the label placed on a medication at any point in the process intended to be administered to a patient.
- lettering, "Look Alike Sound Alike" (LASA), and the notation of "High Alert" for medications designated as High Alert when feasible. The product shall The product label shall contain the patient's name, the location where the medication is to be delivered (e.g., the patient's room), as well as the directions for use and applicable accessory and cautionary instructions (e.g., refrigerate). This also includes the use of "Tall Man" (mixed case) contain the appropriate units, such as the metric system, where applicable.

4. Packaging and Nomenclature

- Packaging and nomenclature include the process of preparing a product in a unit dose ready-to-administer package/container.
- This includes the repackaging of bulk products to unit dose packages. Packaging may also include the use of barcodes, as applicable. Nomenclature involves the utilization of a standard unit of measurement (metric system) and approved "Tall Man "(mixed case) lettering, as well as "Look Alike Sound Alike" (LASA) designations, where applicable.

5. Compounding

- The process of preparing a product not commercially available in the concentration ordered by the prescriber, preferably by the pharmacy.
- This involves utilizing a sterile compounding area as appropriate and expanding the availability of pre-made ready to use products when available. This includes employing standardized concentrations and beyond use dating pertinent to applicable rules, regulations, and laws.

6. Dispensing

- The process of a pharmacist validating a prescriber order and selecting the correct medication to dispense to a patient, including oral, parenteral, and miscellaneous medications.
 - This includes a process for verifying and using patient's own medications, where applicable.

7. Distribution

- The process where a clinician obtains the medication on the unit to administer to the patient.
- This includes the use of automated dispensing cabinets (ADCs), emergency medication carts, as well as medication storage. The distribution process involves the pharmacy distribution system (centralized vs. decentralized) and the utilization of pharmacy satellites.

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providing a process for using the override function for selected medications. In addition, ADCs provide oversight for controlled substances, including Automated dispensing cabinet use provides a critical role in the distribution process. Pharmacy is responsible for the stocking of the ADCs, following requirements for Look Alike Sound Alike (LASA) and High Alert medications, monitoring medication expiration dates and temperatures, and nandling, discrepancy, return, and diversion documentation and monitoring.

8. Administration

- The process where the clinician administers the medication to the patient.
- This includes the use of barcode medication administration (BCMA) technology that involves the process of verification by scanning the barcode on The process also includes the use of standard administration times, equipment modifications (such as tubing and administration sets), automated Smart Pump technology, and independent double checks (IDC) prior to medication administration as essential features to decrease adverse the medication and the patient identification wristband, providing enhanced patient safety. medication-related events.

9. Education

- This includes education campaigns and programs targeted to any clinician involved in the medication use process.
- This also includes tools intended to provide the clinician with medication-related information, such as UpToDate/Lexi-Comp, Micromedex, and other resources. This also includes education for directed at the patient.

10. Monitoring

- The process to monitor a particular step in the medication use process.
- This includes patient-specific monitoring, such as a response to a medication or pharmacokinetic drug dosing effects. This includes audits, rounds, as well as proactive, concurrent, and retrospective surveillance. Also included is the process of monitoring adverse drug events (medication errors and adverse drug reactions) and monitoring high alert or other medications with known potential for harm. In addition, this includes specialists hired to review safety information on a local and national level.

11. Use

- This encompasses all other practices, systems and procedures in the medication use process, including HIPPA (Health Insurance Portability and Accountability Act of 1996).
- Analysis (RCA), Failure-Mode-Effects Analysis (FMEA), and surveys. This may also include computerized tools to review usage and document reasons This includes processes for handling chemotherapy or biohazard agents. This includes medication use evaluations, Core Measures, Root Cause for medication use. In addition, this involves the review of proper "uses" of medications, such those with off-label indications.

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MERP CROSSWALK 2023-2024

Technology Implementa tion to Reduce Errors	EHR – Meditech Drug Dictionary, Order Strings, Order Sets; HealthStrea m – Education for Pharmacists	EHR – Meditech Standing Order Sets
External Medication Related Error Alerts to Modify Current Process <u>PE7</u>	https://www.ismp.org/resources/prevent-errors-during-emergency-use-hypertonic-sodium-chloride-solutions Various research articles	ASHP, IDSA https://www.ashp.org/pharmacy-practice/policy-positions-and-guidelines/browse-by-document- type/therapeutic-guidelines?loginreturnUrl=SSOCheckOnly
Change in Procedures/syst ems by utilizing analysis to reduce errors	Treatment of Hyponatremia: Acute Hyponatremia guidelines, using hypertonic NaCl 3% 50 mL & 100 min Chronic Hyponatremia guidelines, using either bolus or continuous infusion, with mandatory pre- built sodium checks establishing safer use of IV hypertonic sodium chloride solutions	Updated Pre-Op cefazolin and vancomycin pre- op doses in order sets; removed post- op dosing as per IDSA Guidelines
Weaknesses or deficiencies are noted to achieve the reduction of medication errors	Revised guidelines, added procedure; added mandatory sodium checks; provides evidencebased guidelines for treatment of acute and chronic hyponatremia	Many cefazolin and vancomycin pre-op doses were subtherapeutic in existing order sets
% Complia nce Annual Review	100%	180
Date of Initiati on	Jan 20, 2023	Jan 20, 2023
Responsible Parties	Medication Safety, P&T & MEC Clinical Informatics Pharmacy Education	ASP,P&T, MEC, Clinical Informatics, Order Set Committee Peri-Op Services Procedural Areas
Medication- Related Error Category (H&S 1339,63 (d))	PRESCRIBING Hypertonic Sodium Chloride Guidelines & Procedure for Treatment of Hyponatremia (Replaces March 2021 guidelines) Policy STAT 13807182	Surgical Prophylaxis Antibiotic Order Set Review & Update

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Technology Implementa tion to Reduce Errors		EHR – Meditech Standing Order Set	HER - Meditech (Weight- based medication orders programme d in metric units)
External Medication Related Error Alerts to Modify Current Process PEZ		ASHP, IDSA https://www.ashp.org/pharmacy-practice/policy-positions-and-guidelines/browse-by-document-type/therapeutic-guidelines?loginretumUrl=SSOCheckOnly	ISMP (Best Practice #3) https://www.ismp.org/tmsbp/faq3
Change in Procedures/syst ems by utilizing analysis to reduce errors	ABX regimens were updated based on IDSA guidelines	Updated Pre-Op cefazolin and vancomycin pre- op doses in order sets; removed post- op dosing as per IDSA Guidelines ABX regimens were updated based on IDSA guidelines	Kg-ONLY Scales to prevent pound vs Kg weight-based dosing discrepancies; Emergency Department implemented double verification of weight for pediatric patients less than 13 years old (Infant Kg-only scales arrived Lan 2023; Adult Kg-only Scales arrived Feb 2023)
Weaknesses or deficiencies are noted to achieve the reduction of medication errors		Discontinue previous prophylaxis and treatment antibiotics except Cefazolin Prophylaxis and Vancomycin Prophylaxis; Pharmacists may renally adjust dosage, as appropriate	History of pound vs Kg weight-based dosing discrepancies causing medication errors in pediatric (primary) and adult patients received weight-based dosing orders
% Complia nce Annual Review		100%	100%
Date of Initiati on		Jun 6, 2023	Jan 20, 2023
Responsible Parties	Pharmacy	ASP, P&T, MEC Clinical Informatics Order Set Committee Peri-Op Services Pharmacy	Medication Safety, P&T Emergency Department Pharmacy
Medication- Related Error Category (H&S 1339,63 (d))		Surgical Prophylaxis Antibiotic Order Set Review & Update – Post-Op Vascular Order Set Antibiotic Changes	New Kg-Only Scales ordered for the Emergency Department (3 infant; 2 adult)

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Technology Implementa tion to Reduce Errors	EHR - Meditech	EHR- Meditech	EHR - Meditech	EHR – Meditech Order Sets	EHR- Meditech	EHR- Meditech
External Medication Related Error Alerts to Modify Current Process PEZ	ACIP/CDC https://www.cdc.gov/vaccines/vpd/pneumo/hcp/recommendations.html	https://www.ahajournals.org/doi/10.1161/SVIN.121.000102	https://pubmed.ncbi.nlm.nih.gov/12463279/#:~:text=Rizatriptan%2010%20mg%20was%20generally,1.14%20and%201.10%20in%20two	CMS https://mearis.cms.gov/public/publications/ntap/NTP221017MFYGL	N/A	N/A
Change in Procedures/syst ems by utilizing analysis to reduce errors	Current best practice guidelines by ACIP/CDC.	Improve door- to-needle time (DTNT) for treatment acute ischemic stroke; Advantages include: More fibrin-specific and more resistant to degradation; faster administration	N/A	Available only through REMS, due to risk of CRS and ICANS	N/A	N/A
Weaknesses or deficiencies are noted to achieve the reduction of medication errors	Replacement for older pneumococcal polysaccharide vaccine (23-Valent)	Replace alteplase (60 minute infusion) with TNKase (5 second infusion)	45% more bioavailable than oral sumatriptan tablets	Treatment of multiple myeloma, relapsed, refractory	Different dosage form Smoking cessation aid	FDA-approved for Intravitreal injection – diabetic macular
% Complia nce Annual Review	100%	100%	100%	100%	100%	100%
Date of Initiati on	Apr 26, 2023	Mar 23, 2023	Mar 23, 2023	Mar 23, 2023	May 25, 2023	May 25, 2023
Responsible Parties	ASP, P&T Clinical Informatics Pharmacy Education	P&T Clinical Informatics Pharmacy Education	P&T Clinical Informatics Pharmacy	P&T Clinical Informatics Pharmacy Education	P&T Clinical Informatics Pharmacy	P&T Clinical Informatics
Medication- Related Error Category (H&S 1339,63 (d))	Formulary Approval: Pneumococcal Conjugate Vaccine (20-valent) (PCV20) (Prevnar	Formulary Approval: Tenecteplase (TNKase) Injection to replace Alteplase (TPA) Injection for treatment of acute ischemic stroke	Formulary Approval: Rizatriptan Orally Disintegrating Tablet	Formulary Approval: Teclistamab (Tecvayli) Solution, Subcutaneous	Formulary Approval: Nicotine Lozenge,	Formulary Approval: Aflibercept (Eylea)

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Technology Implementa tion to Reduce Errors		EHR- Meditech	EHR – Meditech Order Sets; HealthStrea m Education for Pharmacists	EHR – Meditech Order Sets; HealthStrea m Education for Pharmacists	EHR - Meditech
External Medication Related Error Alerts to Modify Current Process PEZ		N/A	IDSA	IDSA	IDSA ASHP
Change in Procedures/syst. ems by utilizing analysis to reduce errors	TES & PES	N/A	Updated Piperacillin- Tazobactam Pharmacy Protocol – change in loading dose to assure early therapeutic blood levels	Previously Meropenem only administered over 30 minutes; new protocol, given over 3 hours provides better antimicrobial coverage	Establishes List of selected antibiotics to be
Weaknesses or deficiencies are noted to achieve the reduction of medication errors	edema; diabetic retinopathy; Age-related macular degeneration; macular edema following retinal vein	Treatment of locally advanced or metastatic urothelial cancer	Evaluated protocol and determined a larger loading dose would provide higher serum antibiotic levels	Maximizes time- dependent bactericidal activity and improve the probability of target serum antibiotic level attainment	Updated restricted antimicrobial list
% Complia nce Annual Review		100%	100%	100%	100%
Date of Initiati on		May 25, 2023	Jan 20, 2023	Jan 20, 2023	Feb 2023
Responsible Parties	Pharmacy	P&T Clinical Informatics Pharmacy	ASP, P&T, MEC Pharmacy Clinical Informatics Education	ASP, P&T, MEC Pharmacy Clinical Informatics	ASP, P&T,MEC Pharmacy
Medication- Related Error Category (H&S 1339,63 (d))	Ophthalmic, Solution Prefilled Syringe 2 mg/0.05 mL (Use in Surgery)	Formulary Approval: Enfortumab vedontin (Padcev), Solution 20 mg, 30 mg	Antibiotic Stewardship; Pharmacy Protocols: Updated Piperacillin/Tazob actam Extended- Infusion Protocol/Adults	Antibiotic Stewardship: Pharmacy Protocols: New Meropenem Extended-Infusion Protocol/Adults	Antibiotic Stewardship:

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Technology Implementa tion to Reduce Errors		V/V	EHR - Meditech
External Medication Related Error Alerts to Modify Current Process PEZ		https://www.fda.gov/consumers/consumer-updates/mixing-medications-and-dietary- supplements-can-endanger-your-health	N/A
Change in Procedures/syst ems by utilizing analysis to reduce errors	prescribed by ID only; ID & Pulmonology only to prevent inappropriate use of selected antimicrobial agents	If nutritional supplements such as multivitamins, individual vitamins or minerals are ordered, pharmacists may substitute with a formulary equivalent; May reduce drug-drug, drug-drug, drug-disease reactions craused by dietary supplements	Reduce alligation calculation errors; Provide standardization of solutions as described for treatment of neonatal hypoglycemia
Weaknesses or deficiencies are noted to achieve the reduction of medication errors		Pharmacist may automatically discontinue dietary supplement orders, such as echinacea	Change to D12.5W, D15W, D20W in 250 mL with heparin concentration of 0.5 Unit/mL
% Complia nce Annual Review		100%	100%
Date of Initiati on		Jan 20, 2023	Jun 7, 2023
Responsible Parties	Clinical Informatics	PATMACY	NICU Multidiscipli nary Committee Medication Safety P&T Clinical Informatics Pharmacy Education
Medication- Related Error Category (H&S 1339,63 (d))	Updated Restricted Antimicrobial List	Approved: Pharmacists may automatically discontinue dietary supplement orders	Standardization of NICU Concentrated IV Dextrose Solutions

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Technology Implementa tion to Reduce Errors	EHR – Meditech Order Set	Kitcheck - Pharmacy	EHR - Meditech	EHR – Meditech	EHR - Meditech
External Medication Related Error Alerts to Modify Current Process PEZ	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10062534/ Mayo Clinic mSMART: Mayo Stratification for Myeloma and Risk-Adapted Therapy — Management of Teclistamab Cytokine Release Syndrome (CRS) and Immune Cell Associated Neurotoxicity Syndrome (ICANS)	https://cpr.heart.org/en/resuscitation-science/cpr-and-ecc-guidelines/algorithms	American Geriatrics Society 2023 updated Beers Criteria https://agsjournals.onlinelibrary.wiley.com/doi/full/10.1111/jgs.18372	ISMP https://www.ismp.org/resources/clinical-reminder-about-safe-use-insulin-vials	ASHP https://www.ashp.org/drug-shortages/current-shortages/drug-shortage- detail.aspx?id=738&loginreturnUrl=SSOCheckOnly
Change in Procedures/syst ems by utilizing analysis to reduce errors	72% of patients experienced CRS/3% of patients experienced ICANS (MajesTEC-1 trial) following dose 1, step-up dose 2, or the initial treatment dose	Reduce delay in treatment of Hyperkalemia/P EA arrest	Increased risk of cognitive impairment, delirium, falls, fractures in older adults (BEERS Criteria)	Streamlining insulin formulary choices may reduce opportunity for medication errors	CARES Act – Category II – now deemed to be "new drugs" and require new drug application in order to
Weaknesses or deficiencies are noted to achieve the reduction of medication errors	Addition of CRS/ICANS Management Order Set to Inpatient Teclistamab Orders	Addition of Regular Insulin 100 Unit/3 mL vial (and insulin syringes)	Rare utilization; shorter benzodiazepines and other hypnotics available	Formulary contains other alternatives	Not currently available
% Complia nce Annual Review	100%	100%	100%	100%	100%
Date of Initiati on	Jun 16, 2023	Jun 16, 2023	Mar 23, 2023	Mar 23, 2023	Mar 23, 2023
Responsible Parties	Medication Safety P&T Clinical Informatics Pharmacy Education	Medication Safety P&T Pharmacy	P&T Clinical Informatics Pharmacy	P&T Clinical Informatics Pharmacy	P&T Clinical Informatics Pharmacy
Medication- Related Error Category (H&S 1339,63 (d)) PE1	Development of CRS/ICANS Management Order Set	Pharmacist Code Blue Response Box Contents Addition	Formulary Removal: Temazepam Capsule, Oral, 30 mg	Formulary Removal: Insulin Human Isophane/Insulin Regular (NovoLIN) 70/30 100 Unit/mL 10 mL	Formulary Removal: Ammonia Inhalant

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Technology Implementa tion to Reduce Errors	EHR - Meditech	EHR- Meditech; ADM - Omnicell	EHR – Meditech; ADM - Omnicell	EHR – Meditech; ADM - Omnicell
External Medication Related Error Alerts to Modify Current Process <u>PE7</u>	N/A	N/A	ISMP, TJC, Board of Pharmacy https://www.ismp.org/resources/over-top-risky-overuse-adc-overrides-removal-drugs-without-order-and-use-non-profiled https://www.ismp.org/resources/guidelines-safe-use-automated-dispensing-cabinets https://academic.oup.com/ajhp/article-abstract/75/9/e172/5102097?redirectedFrom=fulltext	ISMP (January 26, 2023) FDA (Name Differentiation Project – 2001) https://www.ismp.org/recommendations/tall-man-letters-list
Change in Procedures/syst ems by utilizing analysis to reduce errors	marketed, unless FDA deems otherwise Removal approved by the four (A) intensivists; Adverse effects include: hypertriglycerid emia; cardiovascular effects	Improved communication between EHR (Meditech) and new Drug Dispensing Cabinets (Omnicell)	Annual review	Goal is to help draw attention to the dissimilarities in
Weaknesses or deficiencies are noted to achieve the reduction of medication errors	No utilization	Transition from Pyxis to Omnicell: Improvement in communication	Only emergency medications to prevent immediate harm to patient should be overridable	Updated drug name pairs or larger groupings with recommender, bolded uppercase letters
% Complia nce Annual Review	100%	100%	Ongoing review	100%
Date of Initiati	May 25, 2023	Mar/A pr 2023	Jun 2023	Feb 20, 2023
Responsible Parties	P&T Clinical Informatics Pharmacy	ER COMMUNICA Clinical Informatics Pharmacy	Medication Safety Pharmacy, Nursing, Physicians	Clinical Informatics Pharmacy
Medication- Related Error Category (H&S 1339,63 (d)) PE1	Formulary Removal: Clevidipine (Cleviprex) Emulsion, IV, 0.5 mg/mL 50 mL	PRESCRIPTION ORDER COMMUNICATION Creation of Clinical Mar Interface between Informatics pr Meditech Pharmacy 200 Formulary and Omnicell CPM	Review of Medication Override List	PRODUCT LABELING Update of Look- Alike Drug Names with Tall Man (Mixed Case) Letters

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Technology Implementa tion to Reduce Errors		EHR – Meditech Drug Dictionary, Order Strings, Order Sets	EHR – Meditech Order Set	EHR – Meditech Order Set
External Medication Related Error Alerts to Modify Current Process <u>PE7</u>		https://www.ismp.org/resources/prevent-errors-during-emergency-use-hypertonic-sodium-chloride-solutions Various research articles	IDSA	IDSA
Change in Procedures/syst ems by utilizing analysis to reduce errors	the look-alike drug names	ISMP: Prevent Errors During Emergency Use of Hypertonic Sodium Chloride Solutions- Update nomenclature in order entry systems (HYPERTONIC- 3%; CONCENTRATED -23.4%); Never refer to hypertonic or concentrated sodium chloride as "saline"	Build specific extended- infusion protocol loading dose information	New label build to guide the nurse to properly
Weaknesses or deficiencies are noted to achieve the reduction of medication errors		Revised order set: followed ISMP's labeling recommendations	Label updated reflecting the larger loading dose	Specific label build reflecting new protocol
% Complia nce Annual Review		100%	100%	100%
Date of Initiati on		Jan 20, 2023	Jan 20, 2023	Jan 20, 2023
Responsible Parties		Pharmacy Clinical Informatics	ASP, P&T, MEC Pharmacy Clinical Informatics Education	ASP, P&T, MEC Pharmacy
Medication- Related Error Category (H&S 1339,63 (d))		Hypertonic Sodium Chloride 3% Labeling	Antibiotic Stewardship; Pharmacy Protocols: Updated Piperacillin/Tazob actam Extended- Infusion Protocol/Adults – Revision of Labels reflecting updated dosing	Antibiotic Stewardship: Pharmacy Protocols:

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Technology Implementa tion to Reduce Errors	EHR – Meditech; ADM - Omnicell	EHR – Meditech Drug Drug Order Strings, Order Sets; Also: Distinctive Labeling in Pharmacy Electronic Storage Bins (Omnicell)
External Medication Related Error Alerts to Modify Current Process <u>PE7</u>	ISMP (January 26, 2023) FDA (Name Differentiation Project – 2001) https://www.ismp.org/recommendations/tall-man-letters-list	https://www.ismp.org/resources/prevent-errors-during-emergency-use-hypertonic-sodium-chloride-solutions Various research articles
Change in Procedures/syst ems by utilizing analysis to reduce errors	administer the medication Goal is to help draw attention to the dissimilarities in the look-alike drug names	Followed ISMP's Recommendations to differentiate the concentrated forms of NaCl; Also, ordered size, "HIGH ALERT" auxiliary labels, to be placed where Hypertonic NaCl is stored in the Pharmacy Electronic Storage Bins; this product will be scanned when pulled from this specific bin, the patient-specific label must also be scanned upon retrieval from this specific bin, the patient-specific label must also be scanned upon retrieval from this
Weaknesses or deficiencies are noted to achieve the reduction of medication errors	Updated drug name pairs or larger groupings with recommender, bolded uppercase letters	Need to update nomenclature in order entry systems to include "Hypertonic" for 3% NaCl injection and "Concentrated" for 23.4% NaCl injection for further differentiation. Never refer to Hypertonic or Concentrated Na Cl as "Saline"
% Complia nce Annual Review	100%	100%
Date of Initiati on	Feb 20, 2023	Jan 20, 2023
Responsible Parties	Clinical Informatics Education OMENCLATURE Clinical Informatics Pharmacy	Clinical Informatics Pharmacy
Medication- Related Error Category (H&S 1339,63 (d))	New Meropenem Clinical Extended-Infusion Informatics Protocol/Adults Education PACKAGING AND NOMENCLATURE Update of Look-Clinical Alike Drug Names Pharmacy (Mixed Case)	Hypertonic Sodium Chloride 3% Nomenclature

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Technology Implementa tion to Reduce Errors	N/A	Air Sampler
External Medication Related Error Alerts to Modify Current Process <u>PE7</u>	USP, CDPH, TJC, CA-BOP, ASHP	USP, CDPH, TJC, CA-BOP, ASHP
Change in Procedures/syst ems by utilizing analysis to reduce errors	Independent certification every 6 months of Primary Engineering Control (PEC – LFH, BSC) and Secondary Engineering Control (SEC). Independent surveyors monitor the air quality of the clean rooms; Particulate count must be less than 352,000 particles per measurement. The integrity of the HEPA filters is also tested.	Replaced HEPA filters; Removed excessive stock & supplies; Purchased air sampler for QA; Collaborated with chief microbiologist/L ead Clinical Lab Scientist; Updated media fill practice;
Weaknesses or deficiencies are noted to achieve the reduction of medication errors	Continued process improvement, Microbial sampling has presented a challenge. Both air and surface sampling take place. 1,000 liters of air and 12 different surfaces are tested. Required to have less than 10 CFUs grow on plates. If more than 10 CFUs are present, an action plan to change the compounding process must be created.	More examples of ongoing changes for adherence to USP 797
% Complia nce Annual Review	Ongoing review	Ongoing review
Date of Initiati	May 2023	2021 2022 2023
Responsible Parties	Pharmacy, Facilities, External Vendor (CERTS)	Pharmacy, Facilities, External Vendor (CERTS)
Medication- Related Error Category (H&S 1339,63 (d)) PE1	COMPOUNDING Hospital Inpatient Sterile Clean Room Suite	Hospital Inpatient Sterile Clean Room Suite

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Technology Implementa tion to Reduce Errors		N/A	Omnicell Meditech
External Medication Related Error Alerts to Modify Current Process PEZ		https://www.fda.gov/consumers/consumer-updates/mixing-medications-and-dietary- supplements-can-endanger-your-health	ISMP https://www.ismp.org/resources/follow-ismp-guidelines-safeguard-design-and-use- automated-dispensing-cabinets-adcs https://www.ismp.org/resources/guidelines-safe-use-automated-dispensing-cabinets
Change in Procedures/syst ems by utilizing analysis to reduce errors	Replaced certification company to CERTS. (2021). Created a position to oversee USP 797 monitoring and training of employees. (2022) Acquired new incubators to comply with revised 797 regulations. (2023)	If nutritional supplements such as such as multivitamins, individual vitamins or minerals are ordered, pharmacists may substitute with a formulary equivalent; May reduce drug-drug, drug-disease	The purpose of this transition is to improve availability of medications to
Weaknesses or deficiencies are noted to achieve the reduction of medication errors		Pharmacist may automatically discontinue dietary supplement orders, such as echinacea.	Improvement in providing more medications to the point of care. Omnicell offers increased
% Complia nce Annual Review		100%	100%
Date of Initiati on		Jan 20, 2023	Jan 9, 2023
Responsible Parties		P&T Pharmacy	Pharmacy Clinical Informatics Omnicell
Medication- Related Error Category (H&S 1339,63 (d))		Approved: Pharmacists may automatically discontinue dietary supplement orders	Automated Drug Delivery System (ADDS) – Hospital wide transition from Pyxis to

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Technology Implementa tion to Reduce Errors		Omnicell Meditech	Omnicell Meditech	ΝΆ	Alaris Smart Pump; EHR - Meditech
External Medication Related Error Alerts to Modify Current Process PEZ		ISMP https://www.ismp.org/resources/follow-ismp-guidelines-safeguard-design-and-use- automated-dispensing-cabinets-adcs https://www.ismp.org/resources/guidelines-safe-use-automated-dispensing-cabinets	ISMP https://www.ismp.org/resources/follow-ismp-guidelines-safeguard-design-and-use- automated-dispensing-cabinets-adcs https://www.ismp.org/resources/guidelines-safe-use-automated-dispensing-cabinets	ISMP https://www.ismp.org/resources/prevent-errors-during-emergency-use-hypertonic-sodium- chloride-solutions	https://www.heart.org/en/professional/quality-improvement/target-stroke/learn-more-about-target-stroke/learn-more-stroke#:~:text=The%20benefits%20of%20tPA%20in,are%20treated%20within%20this%20win dow.
Change in Procedures/syst ems by utilizing analysis to reduce errors	the point of care. Prior to using Omnicell products, 85% of doses are dispensed by a machine. The goal of this transition is to push this number to 95%	Ongoing ADDS medication inventory optimization	Improved availability of medications to point of care.	Only the Pharmacy Department may purchase and dispense hypertonic and concentrated NaCl solution products	Faster administration (single bolus over 5 seconds), compared to
Weaknesses or deficiencies are noted to achieve the reduction of medication errors	storage capacity and more efficient inventory monitoring.	Need for easier inventory monitoring.	Medication ordered not available in ADM	High Alert Medication	Need to improve door-to-needle time of 60 minutes or less
% Complia nce Annual Review		100%	Ongoing review	100%	100%
Date of Initiati on		Jan 9, 2023	Jan 9, 2023	Ongoi ng	Mar 23, 2023
Responsible Parties		Pharmacy Omnicell	Pharmacy Omnicell Nursing	Pharmacy	Pharmacy Clinical Informatics Education Nursing
Medication- Related Error Category (H&S 1339,63 (d))	Omnicell ADDS: Omnicell Central Pharmacy Manager (CPM).	Automated Drug Delivery System (ADDS) – Omnicell Central Pharmacy Manager (CPM).	Automated Drug Delivery System (ADDS) – Omnicell Central Pharmacy Manager (CPM).	Hypertonic NaCl 3% Solution Concentrated NaCl Solution	ADMINISTRATION Tenecteplase (TNKase) to replace alteplase (TPA) for treatment of

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Technology Implementa tion to Reduce Errors	PE4	Alaris Smart	Pump; EHR - Meditech	Alaris Smart	Pump EHR - Meditech	Alaris Smart Pump EHR - Meditech	Alaris Smart Pump EHR - Meditech
External Medication Related Error Alerts to Modify Current Process $\overline{\text{PE7}}$		ALIA	N/A	https://www.andexxa.com/		N/A	ISMP https://www.ismp.org/resources/prevent-errors-during-emergency-use-hypertonic-sodium-chloride-solutions
Change in Procedures/syst ems by utilizing analysis to reduce errors	PES & PEG	alteplase (over 60 minutes)	Added argatroban to Med Surg Location per location with same details as	Added	Anderson Andersonet alpha to Critical Care Only: High Dose Bolus and Infusion; Low Dose Bolus and Infusion	Added Added Pharmacy Dosing Protocol: Bolus and Maintenance	indicates type and frequency of patient monitoring required during administration Alaris Smart Pump Alerts and proper pump programming guidance Continue practice of
Weaknesses or deficiencies are noted to achieve the reduction of medication errors	<u>PE3</u>		Argatroban not allowed to be administered in Med Surg Areas	New formulary item;	Need safety guardrails	New Meropenem Pharmacy Dosing Protocol; Need safety guardrails	Revised Hypertonic NaCl Guidelines/Procedure; Need to update safety guardrails for 3% NaCl bolus 50 mL (over 10 min) and 3% NaCl bolus 100 mL (over 10
% Complia nce Annual Review	PE2		100%	100%		100%	100%
Date of Initiati on			Jan 16, 2023	Mar 6	Mar 6, 2023	Mar 20, 2023	Mar 20, 2023
Responsible Parties			Pharmacy Clinical Informatics Education Nursing	Dharmacv	Pharmacy Clinical Informatics Education Nursing	Pharmacy Clinical Informatics Education Nursing	P&T, MEC Pharmacy Clinical Informatics
Medication- Related Error Category (H&S 1339,63 (d))	PE1	acute ischemic	Smart Pump Smart Pump (Alaris) Update: Added Argatroban to MedSurg Location	2 min	Smart Pump (Alaris) Update: Added new formulary item, Andexanet alpha (Andexxa) – Critical Care Only	Smart Pump (Alaris) Update: Added Meropenem 3- Hour Infusion Therapy Protocol	Smart Pump (Alaris) Update: Hypertonic Sodium Chloride Administration

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Technology Implementa tion to Reduce Errors	Alaric Smart	Meditech	Alaris Smart Pump EHR - Meditech	Pump Pump EHR - Meditech	EHR -
External Medication Related Error Alerts to Modify Current Process PE7		N/A	https://www.bavencio.com/hcp	N/A	ISMP https://www.ismp.org/resources/three-new-best-practices-2022-2023-targeted-medication-safety-best-practices-hospitals
Change in Procedures/syst ems by utilizing analysis to reduce errors	barcode scanning of the patient/drug as well as independent double-check	Therapies include: Loading dose, 2 nd and 3rd doses, Units were changed to mg/Kg and mg/mL units in Loading, 2 nd , and 3 nd doses and 3 nd doses	Added mg/mL – 1 hour default infusion	Changed from "LD" to "LowDose Inf; improvement in descriptor.	Administration Leader assigned to lead this improvement
Weaknesses or deficiencies are noted to achieve the reduction of medication errors		Need for more specific dosing units for Loading dose, 2 nd and 3 nd doses	New formulary item; Need safety guardrails	Confusion with the abbreviation, "LD" (loading dose or low dose?),	Need to expand use of barcoding in some procedural areas and in Surgery/OR
% Complia nce Annual Review		100%	100%	100%	New initiative
Date of Initiati		Apr 7, 2023	Apr 16, 2023	May 21, 2023	First Quarte r, 2023
Responsible Parties		Pharmacy Clinical Informatics Education Nursing	Pharmacy Clinical Informatics Education Nursing	Pharmacy Clinical Informatics Education Nursing	Medication Safety Nursing Pharmacy Clinical Informatics
Medication- Related Error Category (H&S 1339,63 (d))		Smart Pump (Alaris) Update: Acetylcysteine Gram/mL to mg/mL to Critical Care, Infusion Center, and Progressive Care Locations	Smart Pump (Alaris) Update: New formulary item, Added Avelumab (Bavencio) to	Smart Pump (Alaris) Update: Changed "Ketamine LD Infusion" to Ketamine	ISMP's Best Practice 18: Maximize the use of barcode verification prior to medication and vaccine administration by

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Medication- Related Error Category (H&S 1339,63 (d))	Responsible Parties	Date of Initiati on	% Complia nce Annual Review	Weaknesses or deficiencies are noted to achieve the reduction of medication errors	Change in Procedures/syst ems by utilizing analysis to reduce errors	External Medication Related Error Alerts to Modify Current Process $\overline{\text{PE7}}$	Technology Implementa tion to Reduce Errors
PE1			PE2	<u>PE3</u>	PES & PEG		PE4
expanding use beyond inpatient care areas.						CAACA	FHR -
ISIMP's New Best Practice 19: Layer numerous strategies throughout the medication-use process to improve safety with high-alert medications Creation of Inpatient Pharmacist Training Manual (on-line and printed)	Pharmacy Clinical Informatics	First Quarte r, 2023 (updat ed in real time)	100%	Proactive practice, Need for consistency in training as well as providing point of reference for all employees	Limit the use of independent double-checks to select high-alert medications with the greatest risk for error (chemotherapy, opioid infusions, IV insulin, IV heparin infusions) Ongoing, live Inpatient Pharmacist Training Manual Online and Printable Manual constantly being updated to provide current information about Pharmacy Operations and Clinical Services (163 pages as of Feb 15, 2023)	https://www.ismp.org/resources/three-new-best-practices-2022-2023-targeted-medication-safety-best-practices-hospitals N/A	Meditech N/A
Antibiotic	ASP	Jan 20,	100%	Proactive training for	Pharmacists Training:	Various research articles	Meditech
Stewardship: Extended-Infusion	Pharmacy P&T	2023		uniform practice of updated			HealthStrea
Beta-Lactam	ы			Piperacillin/Tazobacta	assigned a		

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Technology Implementa tion to Reduce Errors	Alaris Smart Pump	HealthStrea m	EHR – Meditech; HealthStrea m Alaris Smart Pump
External Medication Related Error Alerts to Modify Current Process PEZ		CDC, TJC https://www.cdc.gov/antibiotic-use/core-elements/index.html https://www.jointcommission.org/resources/patient-safety-topics/infection-prevention-and- control/antibiotic-stewardship/	ISMP https://www.ismp.org/resources/prevent-errors-during-emergency-use-hypertonic-sodium- chloride-solutions Various research articles
Change in Procedures/syst ems by utilizing analysis to reduce errors	HealthStream PowerPoint education module, which includes test questions (Feb 16, 2023). Nursing Training: Nursing education via Win Tips as well as nursing huddles (P&T Jan 20, 2023). Physician Training: education via detailed email from Medical Staff Office (P&T Jan 20, 2023).	Change in name from "Antimicrobial Stewardship" to "Antibiotic Stewardship," as well as other updates.	Pharmacists Training: Pharmacists assigned a HealthStream PowerPoint education
Weaknesses or deficiencies are noted to achieve the reduction of medication errors	m (change in loading dose) and new Meropenem Extended-Infusion Pharmacy Protocols)	Original PowerPoint Education Module was revised in Sep 2022; Again revised on May 10,2023	Proactive training for completely updated Guidelines and Procedure
% Complia nce Annual Review		100%	100%
Date of Initiati on		May 10, 2023	Jan 10, 2023
Responsible Parties	Nursing Physicians	Pharmacy Education Nursing	Medication Safety P&T, MEC Pharmacy Clinical
Medication- Related Error Category (H&S 1339,63 (d))	Protocols for Adults (Updated Piperacillin/Tazob actam and new Meropenem)	Antibiotic Stewardship: Antimicrobial Stewardship HealthStream PowerPoint Education Module for New Famlowees	Medication Safety: Correction of Hyponatremia Guidelines and Procedure

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Technology Implementa tion to Reduce Errors		EHR - Meditech	EHR - Meditech
External Medication Related Error Alerts to Modify Current Process PEZ		ISMP https://www.ismp.org/recommendations/tall-man-letters-list	ISMP https://www.ismp.org/resources/prevent-errors-during-emergency-use-hypertonic-sodium-chloride-solutions
Change in Procedures/syst ems by utilizing analysis to reduce errors	module, which includes test questions. (Nursing Education Department's historical files list Mar 10, 2023 for Health Stream). Physician Training: Handson training for affective physician groups (ED, Intensivists, Hospitalists)—underway (Jun 2023). Nursing Training: To be performed after physician training completed.	Update Look- Alike drug names with Tall Man Mixed Case) letters (completed by IT Pharmacist on Feb 20, 2023)	Updated information using hospital computer
Weaknesses or deficiencies are noted to achieve the reduction of medication errors		Improve Lettering, using Tall Man (mixed case) letters for medication identification	Need to emphasize various modalities needed to prevent errors during use of
% Complia nce Annual Review		100%	100%
Date of Initiati on		Feb 20, 2023	Jan 10, 2023
Responsible Parties		Pharmacy Clinical Informatics	Pharmacy Clinical Informatics
Medication- Related Error Category (H&S 1339,63 (d)) PE1		ISMP: External Medication- Related Error Alerts – Tall Man Lettering	ISMP: External Medication- Related Error Alerts –

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Technology	tion to Reduce Errors	PE4			EHR-	Meditech
External Medication Related Error Alerts to Modify Current Process	PE7				A. C.	https://www.ismp.org/resources/prevent-errors-during-emergency-use-hypertonic-sodium-chloride-solutions Various research articles Various research articles In the search ar
	Change in Procedures/syst ems by utilizing analysis to		PE5 & PE6	system (Meditech) as well as education of physicians, nurses,	pharmacists	For patients receiving hypertonic sodium chloride, monitor serum sodium levels at baseline and at least every 6 hours, as well as renal function studies for signs of acute kidney injury and unwanted acidosis. Monitor patient for possible side effects of hypertonic NaCl (e.g., rebound elevated ICP, renal impairment, subarachnoid hemorrhage, natriuresis, high urinary water losses,
	Weaknesses or deficiencies are noted to achieve the reduction of	medication errors	2	hypertonic sodium chloride solutions		Need to build-in sodium checks, other labs, within the hypertonic sodium chloride orders
	% Complia nce Annual	Review	PE2			100%
	Date of Initiati on					Jan 20, 2023, 2023
	Responsible Parties					Medication Safety P&T, MEC Pharmacy Clinical Informatics
	Medication- Related Error Category (H&S	1339,63 (4)) PE1		Hypertonic Sodium Chloride Solutions		MONITORING Medication Safety: Hypertonic Sodium Chloride 3% Solutions (Procedure approved for mandatory labs)

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Technology Implementa tion to Reduce Errors	EHR – Meditech ADM - Omnicell	EHR – Meditech Omnicell	EHR – Meditech Omnicell Smart Pump (Alaris)	EHR - Meditech
External Medication Related Error Alerts to Modify Current Process PEZ	IDSA, TJC, Board of Pharmacy	ISMP, TJC, Board of Pharmacy https://www.ismp.org/resources/over-top-risky-overuse-adc-overrides-removal-drugs-without-order-and-use-non-profiled https://www.ismp.org/resources/guidelines-safe-use-automated-dispensing-cabinets	ISMP https://www.ismp.org/guidelines/safe-implementation-and-use-smart-pumps https://www.ismp.org/resources/safety-considerations-challenges-when-using-smart- infusion-pumps	N/A
Change in Procedures/syst ems by utilizing analysis to reduce errors	acidosis, masking of diabetes insipidus) Identify units, individuals and drugs that do not use BCMA; share outlier information with leadership.	Monitor for appropriateness (e.g., a delay in therapy would harm a patient), Optimize use of ADS (ADCs); require a medication order. Follow guidelines by ISMP.	Monitor for appropriateness of use	Share analysis data with staff; encourage staff to document
Weaknesses or deficiencies are noted to achieve the reduction of medication errors	Without BCMS, it can potentially lead to an error	Monitor number of orders, average verification time, and override percentage	Monitor total guardralls infusions; total guardralls alerts; total potential cost avoided from severe harms averted; total "good catches"	Pharmacists often make significant interventions improving patient care
% Complia nce Annual Review	Ongoing review	Ongoing review	Ongoing review	Ongoing review
Date of Initiati on	1 st Quarte r 2023	1st Quarte r 2023	1st Quarte r 2023	1 st Quarte r 2023
Responsible Parties	Medication Safety Quality & Patient Safety Pharmacy Nursing, Clinical	Medication Safety Quality & Patient Safety Pharmacy Nursing, Clinical Informatics	Medication Safety Quality & Patient Safety Pharmacy Nursing, Clinical	Medication Safety
Medication- Related Error Category (H&S 1339,63 (d))	Bar Code Medication Administration (BCMS)	Medication Overrides	Smart Pump Analysis (Alaris)	Pharmacy Clinical Interventions

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Technology Implementa tion to Reduce Errors		EHR – Meditech Converge Reporting System	EHR– Meditech Converge Reporting System	EHR -	EHR - Meditech
External Medication Related Error Alerts to Modify Current Process PEZ		ISMP https://www.ismp.org/error-reporting-programs https://psnet.ahrq.gov/primer/medication-errors-and-adverse-drug-events Various publications	ASHP, ISMP https://psnet.ahrq.gov/primer/medication-errors-and-adverse-drug-events Various publications	https://www.clinicalmicrobiologyandinfection.com/article/51198-743X(21)00035-5/fulltext https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8102963/https://www.fda.gov/drugs/drug-safety-and-availability/fda-drug-safety-communication-clostridium-difficile-associated-diarrhea-can-be-associated-stomach	ISMP (Best Practice #3) https://www.ismp.org/tmsbp/faq3
Change in Procedures/syst ems by utilizing analysis to reduce errors	clinical	Share information with staff as appropriate; proactively devise practices for	Proactively monitor for possible improvements in reporting and treating	Reviewed order sets containing PPI orders; removed thirty (30) PPI orders; kept the PPI orders for less than 10 order sets	Kg-ONLY Scales to prevent pound vs Kg
Weaknesses or deficiencies are noted to achieve the reduction of medication errors	but sometimes do not document these interventions.	Review medication error reports in real time	Review adverse drug reaction reports in real time	Proton Pump Inhibitor (PPI) therapy is a potentially modifiable risk factor for recurrent Clostridioides diffice infection (CDI)	Prompted by medication error reports of dosing
% Complia nce Annual Review		Ongoing	Ongoing review	100%	100%
Date of Initiati		Ongoi	Ongoi	1st Quarte r 2023	Feb 2023
Responsible Parties	Quality & Patient Safety Pharmacy Nursing, Clinical Informatics	Medication Safety Quality & Patient Safety Pharmacy Nursing, Clinical	Medication Safety Quality & Patient Safety Pharmacy Nursing, Clinical	ASP, P&T Pharmacy Clinical Informatics	P&T & MEC Medication Safety
Medication- Related Error Category (H&S 1339,63 (d))		Medication Error Review (Converge)	Adverse Drug Reaction Review (Converge)	Order Sets Containing Proton Pump Inhibitors (PPIs)	Metric-Only Scales Ordered for the

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Technology Implementa tion to Reduce Errors		N/A	EHR - Meditech	EHR - Meditech	EHR - Meditech
External Medication Related Error Alerts to Modify Current Process PEZ		ISMP https://www.ismp.org/resources/california-medication-error-reduction-plan-time-regulators-and-accreditors-adopt-similar Various references	ASHP Guidelines on Medication-Use Evaluation Am J Health-Syst Pharm. 2021;78:168-175	ASHP Guidelines on Medication-Use Evaluation Am J Health-Syst Pharm. 2021;78:168-175	ASHP Guidelines on Medication-Use Evaluation Am J Health-Syst Pharm. 2021;78:168-175
Change in Procedures/syst ems by utilizing analysis to reduce errors	Weight-based dosing discrepancies; Emergency Department implemented double verification of weight for pediatric patients less than 13 years old (Infant Kg-only scales arrived Feb 2023)	Updated MERP Policy	Proactively monitor for possible improvements	Proactively monitor for possible improvements	Proactively monitor for possible improvements
Weaknesses or deficiencies are noted to achieve the reduction of medication errors	errors of using pounds instead of kilograms in pediatric (primary) and adult weightbased doses	Previous MERP Policy in need of review	Need to evaluate rescue medications/appropri ateness of use of benzodiazepines	Need to evaluate rescue medications/ appropriateness of use of opioids	Need to evaluate rescue medications/appropri ateness of use of
% Complia nce Annual Review	1,	N/A	N/A	N/A	N/A
Date of Initiati on		Jun 2023	June 2023	June 2023	June 2023
Responsible Parties	Quality and Safety P&T ED Pharmacy	Medication Safety Committee MEC Pharmacy	Medication Safety Committee	Medication Safety Committee	Medication Safety Committee
Medication- Related Error Category (H&S 1339,63 (d))	Emergency Department	Medication Error Reduction Prevention (MERP) Policy Revision	Medication Use Evaluation (MUE) - Flumazenil	Medication Use Evaluation (MUE) - Naloxone	Medication Use Evaluation (MUE) - Sugammadex

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Technology Implementa tion to Reduce Errors	PE4		EHR - Meditech	
External Medication Related Error Alerts to Modify Current Process PE7			ASHP Guidelines on Medication-Use Evaluation Am J Health-Syst Pharm. 2021;78:168-175	
Change in Procedures/syst ems by utilizing analysis to reduce errors	PES & PEG		Proactively monitor for possible improvements	
Weaknesses or deficiencies are noted to achieve the reduction of medication errors		neuromuscular blockers	Need to evaluate appropriateness of indication of prescribing	
% Complia nce Annual Review	<u>PE2</u>		N/A	
Date of Initiati on			June 2023	
Responsible Parties			Medication Safety Committee	
Medication- Related Error Category (H&S 1339,63 (d))			Medication Use Evaluation (MUE) - Transdermal FentaNYL Patches	

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Medication-Related Error Category (H&S 1339,63 (d))	Responsible Parties	Date of Initiation	% Compliance Annual Review	Weaknesses or deficiencies are noted to achieve the reduction of medication errors	Change in Procedures/systems by utilizing analysis to reduce errors	External Medication Related Error Alerts to Modify Current Process	Technology Implementation to Reduce Errors
			PE2	PE3	<u>PES & PEG</u>	PE7	<u>PE4</u>
PRESCRIBING							
Hypertonic Saline Rate	P&T & MEC	March 2021	100%	-outdated guidelines for maximum rate of	-outdated guidelines for -updated guidelines to increase maximum maximum rate of infusion rate		
				administration			

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Medication-Related Error Category (H&S 1339,63 (d))	Responsible Parties	Date of Initiation	% Compliance Annual Review	Weaknesses or deficiencies are noted to achieve the reduction of medication errors	Change in Procedures/systems by utilizing analysis to reduce errors	External Medication Related Error Alerts to Modify	Technology Implementation to Reduce Errors
			PE2	PE3	PES & PE6	Current Process	PE4
Surgical Prophylaxis Antibiotic Review & Update	P&T, ASP, Clinical Informatics Peri-OP Services	July 2021	180	ABX selection and dosing require a routine review to meet the latest IDSA Guidelines	ABX regimens were updated based on the IDSA guidelines	IDSA	EHR – Meditech Standing Order set
CRRT Order Set Review and Change	Critical Care, Dialysis Service, Informatics, Pharmacy	Sept 2021	100%	Due to the changes in the device, close review of the order set to identify unsafe orders	Heparin infusion process was reviewed and a new process was put in place to use a syringe for titration	TJC,	EHR – Meditech Standing Order set
Total Plasma Exchange Order Set	Critical Care, Dialysis Service, Informatics, Pharmacy	Sept 2021	100%	Due to the changes in the device, close review of the order set to identify unsafe orders	Electrolyte replacement orders modified to meet USP 797 requirements.	TJC,	EHR – Meditech Standing Order set
Correction of Hyponatremia Guidelines, including use of Hypertonic Sodium Chloride	P&T & MEC Pharmacy Clinical Informatics	1st Quarter 2023		Provides evidence- based guidelines for treatment of acute and chronic hyponatremia	Treatment of Hyponatremia Guidelines Updated, describing recommendations for acute and chronic hyponatremia	ISMP 11/4/21	EHR – Meditech Order Strings
Intravenous Administration of Hypertonic Sodium Chloride Solutions in Adult Populations Procedure	P&T & MEC Pharmacy	1st Quarter 2023		Provides requirements for frequent sodium checks and other safety features	Establishes standards that assure safe use of IV hypertonic sodium chloride solutions	ISMP 11/4/21	EHR – Meditech
Surgical Prophylaxis Antibiotic Review/Update	P&T & MEC ASP Pharmacy Clinical Informatics	First Quarter 2023		ABX selection, dosages, and timing of doses reflect current IDSA guidelines	Surgical Prophylaxis Antibiotic Order Sets updated, employing evidence-based antibiotic choices, dosages, and timing of doses when applicable	ASHP, IDSA	EHR – Meditech Order Sets
Pharmacy Protocols: Updated Piperacillin/Tazobactam Extended-Infusion Protocol/Adults	P&T & MEC ASP Pharmacy Clinical Informatics	1st Quarter 2023		Evaluated protocol and determined a larger loading dose would provide higher serum antibiotic levels	Updated Piperacillin-Tazobactam Pharmacy Protocol – change in loading dose to assure early therapeutic blood levels	IDSA	EHR – Meditech Order Sets
Pharmacy Protocols: New Meropenem Extended- Infusion Protocol/Adults	P&T & MEC ASP Pharmacy Clinical Informatics	1st Quarter 2023			Previously Meropenem only administered over 30 minutes; new protocol, given over 3 hours provides better antimicrobial coverage	IDSA	EHR – Meditech Order Sets
Antimicrobial Stewardship: Updated Restricted Antimicrobial List	P&T & MEC ASP Pharmacy Clinical Informatics	Feb 2023			Establishes List of selected antibiotics to be prescribed by ID only, ID & Pulmonology only to prevent inappropriate use of selected antimicrobial agents	IDSA ASHP	
Metric-Only Scales Ordered for the Emergency Department	P&T & MEC Medication Safety Quality and Safety	Feb 2023			Prevent inaccurate weights in the ED (Kg vs Pounds) for weight-based medication dosing in infants/pediatrics/adults	ISMP Best Practice #3	

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Technology Implementation to Reduce Errors		Meditech	EHR & BCMA	EHR and ADM		-Dose edge label printer change		Dose Edge- EHR	EHR - Meditech		Meditech	Meditech
External Medication Related Error Alerts to Modify Current Process		ISMP	ISMP	ISMP, TJC		Board of Pharmacy Regulation compliance		ВОР	ISMP 11/4/21		ISMP	FDA
Change in Procedures/systems by utilizing analysis to reduce errors		Deleted the search term "PCC" and educated providers and pharmacists	All Anesthesia Orders are now entered in Meditech that prevents override and BCMA	Over 10 non emergent medications have been removed from override list		Pharmacy information was updated in DoseEdge label for outpatient infusion		Dose-Edge-Meditech reprogramed to show the route of administration on the label	ISMP: Prevent Errors During Emergency Use of Hypertonic Sodium Chloride Solutions-Update nomenclature in order entry systems (HYPERTONIC-3%; CONCENTRATED-23.4%); Never refer to hypertonic or concentrated sodium chloride as "saline"		Similar sounding drug names were given tall man lettering: hydroCHLOROthiazide, hydroXYzine, hydroxychloroQUINE	Changed to Thyrogen 0.9 mg vial according to new FDA prescribing information
Weaknesses or deficiencies are noted to achieve the reduction of medication errors		Search term "PCC" was linking to Profilnine only and not Kcentra	Medication orders for Anesthesia were in a different HER system	Only emergency medications to prevent immediate harm to patient should be over ridable		Wrong pharmacy information		Incomplete Labeling that did not include the route of Administration			Similar sounding drugs	Thyrogen was labeled 1.1 mg vial according to old FDA prescribing information
% Compliance Annual Review		100%	100%	100%		100%		100%			100%	100%
Date of Initiation		1st quarter 2020	June 2021	Jan 2022		March 2021		3 rd Quarter 2021	4 th Quarter 2022		2020	1st quarter 2021
Responsible Parties	ED Pharmacy ATION	Pharmacy	Anesthesia, Nursing, Pharmacy	Pharmacy, Nursing, Physicians		Pharmacy	See Administration	Pharmacy	Pharmacy Clinical Informatics		Pharmacy	Pharmacy
Medication-Related Error Category (H&S 1339,63 (d)) PE1	PRESCRIPTION ORDER COMMUNICATION	Profilnine and Kcentra	PACU/Anesthesia Orders in Meditech	Review of Medication Override List	PRODUCT LABELING	Infusion Center Label	Alteplase Labeling	Hospital Pharmacy Sterile Compound Labeling	Hypertonic Sodium Chloride Labeling	PACKAGING AND NOMENCLATURE	Tall man Lettering	Thyrogen 1.1 mg

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Medication-Related Error Category (H&S 1339,63 (d)) PE1	Responsible Parties	Date of Initiation	% Compliance Annual Review	Weaknesses or deficiencies are noted to achieve the reduction of medication errors	Change in Procedures/systems by utilizing analysis to reduce errors	External Medication Related Error Alerts to Modify Current Process	Technology Implementation to Reduce Errors
			PE2	PE3	PES & PE6	PE7	<u>PE4</u>
Update Look-Alike Drug Names with Tall Man (mixed case) Letters- ISMP update	Pharmacy	1st Quarter 2023		Help draw attention to dissimilarities in look- alike drug names	New Update from ISMP (1/26/23) – Updated list of Look-Alike Drug Names with Tall Man Letters	ISMP 1/26/23	Meditech
COMPOUNDING							
Outpatient Infusion Sterile Room Pressure	Pharmacy	1st Quarter 2021	100%	Negative room pressure was too low	Turned off one hood to create appropriate pressure	Board of Pharmacy	Sterile Room Engineering
Hospital Sterile Compounding Area update and renovation	Pharmacy, Facilities, External Vendor	3rd Quarter 2021	100%	Outdated equipment in Sterile Compounding Area	New HEPA Filters were installed, removed storage out of the sterile compounding area and replaced outdated laminate fixtures. New cleaning procedures	USP, CDPH, TJC, CA-BOP	n/a
DISPENSING							
RSI & Reaction Kit Dispensing	Pharmacy	3 rd Quarter 2021	100%	These kits look very similar but with different drug contents.	RSI Kit Drug List form uses colored paper and the Reaction Kit remains white for color differentiation.	TJC, ISMP	n/a
DISTRIBUTION							
Pyxis inventory optimization	Pharmacy and nursing	1st quarter 2021	%98	Medication ordered not available in ADM	Weekly and daily review of medication order not stocked report and optimizing inventory		Pyxis and Meditech
Malignant Hyperthermia Cart	Nursing, Materials Management, Pharmacy, Peri-Op, Education	4th Quarter 2021	100%	Mixing of multiple vials of Dantrolene poses risk for errors	Changed vials to Ryanodex – 250mg Dantrolene to only mix 2 vials	TJC, ISMP	n/a
Automated Medication Dispensing Cabinet Transition and Implementation: Pyxis to Omnicell – within Pharmacy and House wide	Pharmacy Clinical Informatics	4 th Quarter 2022			Transition from Pyxis to Omnicell CPM: Central Pharmacy Manager CSM: Controlled Substance Manager Automated Medication Dispensing Cabinets	ISMP 2/7/19	Omnicell
ADMINISTRATION				300			
Alteplase Infusion for stroke	Pharmacy Informatics/Education/Nursing	4 th quarter 2020	100%	Alteplase infusion rate error	-Reprogram pump library -Change Labeling – no rate for titration -Program Meditech to provide Alaris entries for each step		Meditech, Alaris
PACU Medication Review by RX and BCMA	Pharmacy, Cl, Nursing	4 th Quarter 2020	TBD	PACU medication oversight by RX needed improvement	Pharmacy oversight of PACU orders, implementation of BCMA	ISMP, TJC, BOP	EHR, BCMA
IV Insulin	Nursing, Education, Pharmacy, Informatics	4 th Quarter 2021	TBD	IV Insulin order didn't prompt double nurse check that can result in dosing errors	 EHR to require nursing double check before administration Designated syringe and needle for IV insulin 	ISMP, TJC,	НЕВ, ВСМА

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Medication-Related Error Category (H&S 1339,63 (d)) PE1	Responsible Parties	Date of Initiation	% Compliance Annual Review PE2	Weaknesses or deficiencies are noted to achieve the reduction of medication errors	Change in Procedures/systems by utilizing analysis to reduce errors	External Medication Related Error Alerts to Modify Current Process	Technology Implementation to Reduce Errors
Insulin Infusion Titration Software Upgrade	Pharmacy, Critical Care, Information Technology, Informatics	1st Quarter 2022	TBD	The lack of software upgrade participation could result in less than optimal therapeutics	Working with the Vendor, we are upgrading the software to the latest version Will inquire L&D to utilize the software for Insulin Infusion	ISMP, TJC	EndoTool, Meditech
Hypertonic Sodium Chloride Administration	P&T & MEC Pharmacy Clinical Informatics	1 st Quarter 2023			Procedure indicates type and frequency of patient monitoring required during administration Alaris Smart Pump Alerts and proper pump programming guidance Continue practice of barcode scanning of the patient/drug as well as independent double-check	11/4/21	Alaris Smart Pump EHR - Meditech
EDUCATION							
Alteplase Infusion for Stroke	Pharmacy Informatics/ Education	4 th Quarter 2020					Meditech and Alaris
Lidocaine for Pain Education	Education, Pharmacy, Nursing & Palliative Care	4 th Quarter 2020	TBD	Lidocaine infusion for pain is different than other indicated use that requires close monitorine	P&P written, order set created in HER, reprogramed guardrail in infusion pump and education is provided to nursing and pharmacy	ISMP	EHR, IV Infusion Pump
Malignant Hyperthermia Cart	Nursing, Materials Management, Pharmacy, Peri-Op, Education	4 th Quarter 2021	100%	Mixing of multiple vials of Dantrolene poses risk for errors	Changed vials to Ryanodex – 250mg Dantrolene to only mix 2 vials	TJC, ISMP	n/a
Low Dose Ketamine Education	Education, Pharmacy, Nursing	December 2021	100%	Education provided to staff involved with infusion for a new protocol	New protocol for additional therapeutic agent for acute and chronic pain	Various research articles	EHR, Smart Pump
Bivalirudin per Pharmacy Dosing	Pharmacy	March 2022	100%	Treatment of HIT for hepatically compromised patients	New protocol for pharmacy to manage dosing	Various research articles	EHR, Smart Pump
Zosyn Pharmacy Protocol-Adults (revised extended-infusion protocol)	Pharmacy Clinical Informatics	1st Quarter 2023			HealthStream – eLearning Mandatory Pharmacist Education Module (Change in loading dose)	Various research articles	EHR-Meditech Alaris Smart Pump
Meropenem Pharmacy Protocol- Adults (new extended-infusion protocol)	Pharmacy Clinical Informatics	1st Quarter 2023			HealthStream – eLearning Mandatory Pharmacist Education Module	Various research articles	EHR-Meditech Alaris Smart Pump
Creation of Inpatient Pharmacist Training Manual	Pharmacy	3 rd Quarter 2022			Online and Printable Manual constantly being updated to provide current		

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Medication-Related Error Category (H&S 1339,63 (d)) PE1	Responsible Parties	Date of Initiation	% Compliance Annual Review	Weaknesses or deficiencies are noted to achieve the reduction of medication errors	Change in Procedures/systems by utilizing analysis to reduce errors	External Medication Related Error Alerts to Modify Current Process	Technology Implementation to Reduce Errors
			PE2	PE3	PES & PE6	PE7	PE4
					information about Pharmacy Operations and Clinical Services		
MONITORING							
Vancomycin Monitoring	Pharmacy and Nursing	4 th quarter 2019	ongoing	Vancomycin was given when trough was over 20	EHR code to read vancomycin level to alert MAR when too high	ASHP, IDSA	Meditech
Medication Override	Pharmacy, Nursing, Quality, Informatics	4 th Quarter 2021	1%	Medication Override List should be routinely reviewed for appropriateness	 Start tracking override by units and medications Annual review of the list for addition and deletion 	IDSA, TJC, BOP	Meditech, Pyxis
Bar Code Medication Administration	Pharmacy Nursing, Quality, Informatics	3 rd Quarter 2021	%56	Without BCMS, it can potentially lead to an error	Identify units, individuals and drugs that do not use BCMA	IDSA, TJC, BOP	Meditech, Pyxis
Blood Glucose: Hyperglycemia and Hypoglycemia based on the new CMS reporting criteria for 2023	Clinical Informatics, Glycemic Committee, Med Safety	4 th quarter 2022	1	Difficult data collection criteria	New report built by clinical informatics to accurately report hypo and hyperglycemia	CMS	Meditech
Veltassa® (patiromer)	Pharmacy	4 th Quarter 2019	Ongoing	Frequent use of Veltassa® (patiromer) for acute hyperkalemia	Added the alert popup: "Not for emergent use"		Meditech
TPN Premix	Pharmacy and Dietitian	1st quarter 2021	Ongoing	Frequent use of Customized TPN causing delays in treatment	Added more TPN premix into the formulary		Meditech
Nateglinide and Repaglinide	Pharmacy	1st quarter 2021	Complete	Expensive drugs in the formulary with lack of use causing increase in drug cost and taking spaces in the inventory	Deleted Nateglinide 120 mg and Repaglinide 1 mg and 2 mg from the formulary due to lack of use over the past several months. Nateglinide 60 mg and Repaglinide 0.5 mg were kept in the formulary.		Meditech
Haldol IVPB	Pharmacy	1st Quarter 2021	Complete	Haldol IV drip was ordered by MD	Deleted Haldol IV drips from the EHR order string dictionary		Meditech
Lidocaine for Pain (completed)	Education, Pharmacy, Nursing & Palliative Care	4 th Quarter 2020	TBD	Lidocaine infusion for pain is different than other indicated use that requires close monitoring	P&P written, order set created in EHR, reprogramed guardrail in infusion pump and education is provided to nursing and pharmacy	ISMP	EHR, IV Infusion Pump
Low Dose Ketamine Infusion for Pain (completed)	Education, Pharmacy, Nursing & Palliative Care	1st Quarter 2022	TBD	Ketamine infusion for pain is different than	P&P written, order set to be created in EHR, programed guardrail in infusion pump	ISMP	EHR, IV Infusion Pump

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Review of medication errors PE3 PE2 other indicated use that requires close
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Initiation

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Previous MERP Crosswalk Data

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Medication-Related Error Category (H&S 1339,63 (d))	Responsible Parties	Date of Initiation	% Compliance Annual Review	Weaknesses or deficiencies are noted to achieve the reduction of medication errors	Change in Procedures/systems by utilizing analysis to reduce errors	External Medication Related Error Alerts to Modify Current Process	Technology Implementation to Reduce Errors
			PE2	PE3	PES & PEG	<u>PE7</u>	PE4
PRESCRIBING							
Hypertonic Saline Rate	P&T & MEC	March 2021	100%	-outdated guidelines for maximum rate of administration	-updated guidelines to increase maximum infusion rate		
Surgical Prophylaxis Antibiotic Review & Update	P&T, ASP, Clinical Informatics Peri-OP Services	July 2021	TBD	ABX selection and dosing require a routine review to meet the latest IDSA Guidelines	ABX regimens were updated based on the IDSA guidelines	IDSA	EHR – Meditech Standing Order set
CRRT Order Set Review and Change	Critical Care, Dialysis Service, Informatics, Pharmacy	Sept 2021	100%	Due to the changes in the device, close review of the order set to identify unsafe orders	Heparin infusion process was reviewed and a new process was put in place to use a syringe for titration	TJC,	EHR – Meditech Standing Order set
Total Plasma Exchange Order Set	Critical Care, Dialysis Service, Informatics, Pharmacy	Sept 2021	100%	Due to the changes in the device, close review of the order set to identify unsafe orders	Electrolyte replacement orders modified to meet USP 797 requirements.	7JC,	EHR – Meditech Standing Order set
PRESCRIPTION ORDER COMMUNICATION	UNICATION						
Profilnine and Kcentra	Pharmacy	1st quarter 2020	100%	Search term "PCC" was linking to Profilnine only and not Kcentra	Deleted the search term "PCC" and educated providers and pharmacists	ISMP	Meditech
PACU/Anesthesia Orders in Meditech	Anesthesia, Nursing, Pharmacy	June 2021	100%	Medication orders for Anesthesia were in a different HER system	All Anesthesia Orders are now entered in Meditech that prevents override and BCMA	ISMP	EHR & BCMA
Review of Medication Override List	Pharmacy, Nursing, Physicians	Jan 2022	100%	Only emergency medications to prevent immediate harm to patient should be over ridable	Over 10 non emergent medications have been removed from override list	ISMP, TJC	EHR and ADM
PRODUCT LABELING							29
Infusion Center Label	Pharmacy	March 2021	100%	Wrong pharmacy information	Pharmacy information was updated in DoseEdge label for outpatient infusion	Board of Pharmacy Regulation compliance	-Dose edge label printer change
Alteplase Labeling	See Administration						
Hospital Pharmacy Sterile Compound Labeling	Pharmacy	3 rd Quarter 2021	100%	Incomplete Labeling that did not include the route of Administration	Dose-Edge-Meditech reprogramed to show the route of administration on the label	ВОР	Dose Edge- EHR

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Medication-Related Error Category (H&S 1339,63 (d))	Responsible Parties	Date of Initiation	% Compliance Annual Review	Weaknesses or deficiencies are noted to achieve the reduction of medication errors	Change in Procedures/systems by utilizing analysis to reduce errors PES & PES	External Medication Related Error Alerts to Modify Current Process	Technology Implementation to Reduce Errors
Hypertonic Sodium Chloride Labeling	Pharmacy Clinical Informatics	4 th Quarter 2022			ISMP: Prevent Errors During Emergency Use of Hypertonic Sodium Chloride Solutions-Update nomenclature in order entry systems (HYPERTONIC-3%; CONCENTRATED-23.4%); Never refer to hypertonic or concentrated sodium chloride as "saline"	11/4/21	EHR - Meditech
PACKAGING AND NOMENCIA LOKE Tall man Lettering	Pharmacy	2 nd Quarter 2020	100%	Similar sounding drugs	Similar sounding drug names were given tall man lettering: hydroCHLOROthiazide, hydroXYzine, hydroxychloroQUINE	ISMP	Meditech
Thyrogen 1.1 mg	Pharmacy	1st quarter 2021	100%	Thyrogen was labeled 1.1 mg vial according to old FDA prescribing information	Changed to Thyrogen 0.9 mg vial according to new FDA prescribing information	FDA	Meditech
COMPOUNDING							
Outpatient Infusion Sterile Room Pressure	Pharmacy	1st Quarter 2021	100%	Negative room pressure was too low	Turned off one hood to create appropriate pressure	Board of Pharmacy	Sterile Room Engineering
Hospital Sterile Compounding Area update and renovation	Pharmacy, Facilities, External Vendor	3 rd Quarter 2021	100%	Outdated equipment in Sterile Compounding Area	New HEPA Filters were installed, removed storage out of the sterile compounding area and replaced outdated laminate fixtures. New cleaning procedures	USP, CDPH, TJC, CA-BOP	n/a
DISPENSING							
RSI & Reaction Kit Dispensing	Pharmacy	3 rd Quarter 2021	100%	These kits look very similar but with different drug contents.	RSI Kit Drug List form uses colored paper and the Reaction Kit remains white for color differentiation.	TJC, ISMP	n/a
DISTRIBUTION							
Pyxis inventory optimization	Pharmacy and nursing	1st quarter 2021	%98	Medication ordered not available in ADM	Weekly and daily review of medication order not stocked report and optimizing inventory		Pyxis and Meditech
Malignant Hyperthermia Cart	Nursing, Materials Management, Pharmacy, Peri-Op, Education	4 th Quarter 2021	100%	Mixing of multiple vials of Dantrolene poses risk for errors	Changed vials to Ryanodex – 250mg Dantrolene to only mix 2 vials	TJC, ISMP	n/a
Automated Medication Dispensing Cabinet Transition and Implementation: Pyxis to Omnicell – within Pharmacy and House wide	Pharmacy Clinical Informatics	4 th Quarter 2022			Transition from Pyxis to Omnicell CPM: Central Pharmacy Manager CSM: Controlled Substance Manager Automated Medication Dispensing Cabinets	ISMP 2/7/19	Omnicell
ADMINISTRATION							

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Medication-Related Error Category (H&S 1339,63 (d)) PE1	Responsible Parties	Date of Initiation	% Compliance Annual Review	Weaknesses or deficiencies are noted to achieve the reduction of medication errors	Change in Procedures/systems by utilizing analysis to reduce errors	External Medication Related Error Alerts to Modify Current Process	Technology Implementation to Reduce Errors
			PE2			PE7	
Alteplase Infusion for stroke	Pharmacy Informatics/Education/Nursing	4 th quarter 2020	100%	Alteplase infusion rate error	-Reprogram pump library -Change Labeling – no rate for titration -Program Meditech to provide Alaris entries for each step		Meditech, Alaris
PACU Medication Review by RX and BCMA	Pharmacy, CI, Nursing	4 th Quarter 2020	TBD	PACU medication oversight by RX needed improvement	Pharmacy oversight of PACU orders, implementation of BCMA	ISMP, TJC, BOP	EHR, BCMA
IV Insulin	Nursing, Education, Pharmacy, Informatics	4 th Quarter 2021	TBD	IV Insulin order didn't prompt double nurse check that can result in dosing errors	EHR to require nursing double check before administration Designated syringe and needle for IV insulin	ISMP, TJC,	нек, всма
Insulin Infusion Titration Software Upgrade	Pharmacy, Critical Care, Information Technology, Informatics	1st Quarter 2022	TBD	The lack of software upgrade participation could result in less than optimal therapeutics	 Working with the Vendor, we are upgrading the software to the latest version Will inquire L&D to utilize the software for Insulin Infusion 	ISMP, TJC	EndoTool, Meditech
EDUCATION							
Alteplase Infusion for Stroke	Pharmacy Informatics/ Education	4 th Quarter 2020					Meditech and Alaris
Lidocaine for Pain Education	Education, Pharmacy, Nursing & Palliative Care	4 th Quarter 2020	TBD	Lidocaine infusion for pain is different than other indicated use that requires close monitoring	P&P written, order set created in HER, reprogramed guardrail in infusion pump and education is provided to nursing and pharmacy	ISIMP	EHR, IV Infusion Pump
Malignant Hyperthermia Cart	Nursing, Materials Management, Pharmacy, Peri-Op, Education	4 th Quarter 2021	100%	Mixing of multiple vials of Dantrolene poses risk for errors	Changed vials to Ryanodex – 250mg Dantrolene to only mix 2 vials	TJC, ISMP	n/a
Low Dose Ketamine Education	Education, Pharmacy, Nursing	December 2021	100%	Education provided to staff involved with infusion for a new protocol	New protocol for additional therapeutic agent for acute and chronic pain	Various research articles	EHR, Smart Pump
Bivalirudin per Pharmacy Dosing	Pharmacy	March 2022	100%	Treatment of HIT for hepatically compromised patients	New protocol for pharmacy to manage dosing	Various research articles	EHR, Smart Pump
MONITORING							
Vancomycin Monitoring	Pharmacy and Nursing	4 th quarter 2019	ongoing	Vancomycin was given when trough was over 20	EHR code to read vancomycin level to alert MAR when too high	ASHP, IDSA	Meditech

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REVIEWED	Medication Safety: March 2021, October 2021, December 2021, March 202	21, March 202
BY:	Pharmacy & Therapeutics:	
	Medical Executive Committee:	
REVISED and	REVISED and Director of Pharmacy: March 2021, May 2021, August 2021, October 2021,	October 2021,
AUGMENTE	December 2021, March 2022	
DBY:		
APPROVED	Medication Safety: March 2021, October 2021	
BY:	P & T Committee:	
	Medical Executive Committee:	
NEXT REVIEW: As needed	7: As needed REVIEWED: REVISED:	

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MERP CROSSWALK 2021-2022

Technology Implementation to Reduce Errors	EHR – Meditech Standing Order set	EHR – Meditech Standing Order set	EHR – Meditech Standing Order set	DATE OF THE PARTY OF	Meditech	EHR & BCMA	EHR and ADM	-Dose edge label printer change		Dose Edge- EHR	Meditech
External Medication Related Error Alerts to Modify Current Process	IDSA	TJC,	TJC,	THE RESERVED IN	ISMP	ISMP	ISMP, TJC	Board of Pharmacy Regulation compliance		BOP	ISMP
Change in Procedures/systems by utilizing analysis to reduce errors PES & PE6	-updated guidelines to increase maximum infusion rate ABX regimens were updated based on the IDSA guidelines	Heparin infusion process was reviewed and a new process was put in place to use a syringe for titration	Electrolyte replacement orders modified to meet USP 797 requirements.	一日本の大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大	Deleted the search term "PCC" and educated providers and pharmacists	All Anesthesia Orders are now entered in Meditech that prevents override and BCMA	Over 10 non emergent medications have been removed from override list	Pharmacy information was updated in DoseEdge label for outpatient infusion		Dose-Edge-Meditech reprogramed to show the route of administration on the label	Similar sounding drug names were given Tall Man lettering: hydroCHLOROthiazide, hydrOXYzine,
Weaknesses or deficiencies are noted to achieve the reduction of medication errors	-outdated guidelines for maximum rate of administration ABX selection and dosing require a routine review to meet the latest IDSA	Guidelines Due to the changes in the device, close review of the order set to identify unsafe	Due to the changes in the device, close review of the order set to identify unsafe orders	THE RESERVE OF THE PARTY OF	Search term "PCC" was linking to Profilnine only and not Keentra	Medication orders for Anesthesia were in a different HER system	Only emergency medications to prevent immediate harm to patient should be over ridable	Wrong pharmacy information		Incomplete Labeling that did not include the route of Administration	Similar sounding drugs
% Compliance Annual Review	100% TBD	%001	%001	Name and Address of the Owner, where	100%	100%	<mark>100%</mark>	100%		100%	%00I
Date of Initiation	March 2021 July 2021	Sept 2021	Sept 2021	Contract of the last	1st quarter 2020	June 2021	Jan 2022	March 2021		3 rd Quarter 2021	2020
Responsible Parties	P&T & MEC P&T, ASP, Clinical Informatics Peri-OP Services	Critical Care, Dialysis Service, Informatics, Pharmacy	Critical Care, Dialysis Service, Informatics, Pharmacy	COMMUNICATION	Pharmacy	Anesthesia, Nursing, Pharmacy	Pharmacy, Nursing, Physicians	Pharmacy	See Administration	Pharmacy	IENCLATURE Pharmacy
Medication-Related Error Category (H&S 1339,63 (d)) PEI	Hypertonic Saline Rate Surgical Prophylaxis Antibiotic Review & Update	CRRT Order Set Review and Change	Total Plasma Exchange Order Set	2. PRESCRIPTION ORDER COMMUNICATION	Profilnine and Keentra	PACU/Anesthesia Orders in Meditech	Review of Medication Override List	S. PRODUCT LABELING	Alteplase Labeling	Hospital Pharmacy Sterile Compound Labeling	4. PACKAGING AND NOMENCLATURE Tallman Lettering

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Medication-Related Error Category (H&S 1339,63 (d)) PE1	Responsible Parties	Date of Initiation	% Compliance Annual Review	Weaknesses or deficiencies are noted to achieve the reduction of medication errors	Change in Procedures/systems by utilizing analysis to reduce errors PES & PE6	External Medication Related Error Alerts to Modify Current Process	Technology Implementation to Reduce Errors PE4
Thyrogen 1.1 mg	Рһагтасу	1st quarter 2021	100%	Thyrogen was labeled 1.1 mg vial according to old FDA prescribing information	Changed to Thyrogen 0.9 mg vial according to new FDA prescribing information	FDA	Meditech
5. COMPOUNDING Outpatient Infusion Sterile	Рһагтасу	1st Quarter	100%	Negative room pressure	Turned off one hood to create appropriate nreseure	Board of Pharmacy	Sterile Room Engineering
Hospital Sterile Compounding Area update and renovation	Pharmacy, Facilities, External Vendor	3 rd Quarter 2021	100%	Outdated equipment in Sterile Compounding Area	New HEPA Filters were installed, removed storage out of the sterile compounding area and replaced outdated laminate fixtures. New cleaning procedures	USP, CDPH, TJC, CA-BOP	n/a
6. DISPENSING RSI & Reaction Kit Dispensing	Pharmacy	3 rd Quarter 2021	100%	These kits look very similar but with different drug contents.	RSI Kit Drug List form uses colored paper and the Reaction Kit remains white for color differentiation.	TJC, ISMP	n/a
7 DISTRIBILITION			The state of the s				
Pyxis inventory	Pharmacy and nursing	1st quarter 2021	%98	Medication ordered not available in ADM	Weekly and daily review of medication order not stocked report and optimizing inventory		Pyxis and Meditech
Malignant Hyperthermia Cart	Nursing, Materials Management, Pharmacy, Peri-Op, Education	4th Quarter 2021	100%	Mixing of multiple vials of Dantrolene poses risk for errors	Changed vials to Ryanodex – 250mg Dantrolene to only mix 2 vials	TJC, ISMP	n/a
8. ADMINISTRATION							
Alteplase Infusion for stroke	Pharmacy Informatics/Education/Nursing	4 th quarter 2020	%001	Alteplase infusion rate error	-Reprogram pump library -Change Labeling — no rate for titration -Program Meditech to provide Alaris entries for each step		Meditech, Alaris
PACU Medication Review by RX and BCMA	Pharmacy, CI, Nursing	4 th Quarter 2020	ТВД	PACU medication oversight by RX needed inprovement	Pharmacy oversight of PACU orders, implementation of BCMA	ISMP, TJC, BOP	EHR, BCMA
IV Insulin	Nursing, Education, Pharmacy, Informatics	4 th Quarter 2021	TBD	IV Insulin order didn't prompt double nurse check that can result in dosing errors	EHR to require nursing double check before administration Designated syringe and needle for IV insulin	ISMP, TJC,	HER, BCMA
Insulin Infusion Titration Software Upgrade	Pharmacy, Critical Care, Information Technology, Informatics	1st Quarter 2022	TBD	The lack of software upgrade participation could result in less than optimal therapeutics	Working with the Vendor, we are upgrading the software to the latest version Will inquire L&D to utilize the software for Insulin Infusion	ISMP, TJC	EndoTool, Meditech

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Technology Implementation to Reduce Errors	Meditech and Alaris	EHR, IV Infusion Pump	n/a	EHR, Smart Pump	EHR, Smart Pump	Meditech	Meditech, Pyxis		Meditech, Pyxis	Meditech	Meditech	Meditech	Meditech	Meditech
External Medication Related Error Alerts to Modify Current Process		ISMP	TJC, ISMP	Various research articles	Various research articles	ASHP, IDSA	IDSA, TJC, BOP		IDSA, T.JC, BOP	CMS				
Change in Procedures/systems by utilizing analysis to reduce errors PES & PE6		P&P written, order set created in HER, reprogramed guardrail in infusion pump and education is provided to nursing and pharmacy	Changed vials to Ryanodex – 250mg Dantrolene to only mix 2 vials	New protocol for additional therapeutic agent for acute and chronic pain	New protocol for pharmacy to manage dosing	EHR code to read vancomycin level to alert	MAK when too nign Start tracking override by units and	 medications Annual review of the list for addition and deletion 	 Identify units, individuals and drugs that do not use BCMA 	 New report built by clinical informatics to accurately report hypo and hyperglycemia 	Added the alert popup: "Not for emergent	use" Added more TPN premix into the formulary	Deleted Nateglinide 120 mg and Repaglinide 1 mg and 2 mg from the formulary due to lack of use over the past several months. Nateglinide 60 mg and Repaglinide 0.5 mg	were kept in the formulary. Deleted Haldol IV drips from the EHR order string dictionary
Weaknesses or deficiencies are noted to achieve the reduction of medication errors		Lidocaine infusion for pain is different than other indicated use that requires close monitoring	Mixing of multiple vials of Dantrolene poses risk for errors	Education provided to staff involved with infusion for a new protocol	Treatment of HIT for hepatically compromised patients	Vancomycin was given	When trough was over 20 Medication Override List	should be routinely reviewed for appropriateness	Without BCMS, it can potentially lead to an error	Difficult data collection criteria	Frequent use of Veltassa	for acute hyperkalemia Frequent use of Customized TPN causing	delays in treatment Expensive drugs in the formulary with lack of use causing increase in drug cost and taking spaces in	the inventory Haldol IV drip was ordered by MD
% Compliance Annual Review		TBD	100%	<mark>%001</mark>	<mark>100%</mark>	ongoing	1%		%56	-	Ongoing	Ongoing	Complete	Complete
Date of Initiation	4 th Quarter 2020	4 th Quarter 2020	4th Quarter 2021	December 2021	March 2022	4th quarter	2019 4 th Quarter	2021	3rd Quarter 2021	4 th quarter 2022	4th Quarter	2019 1st quarter 2021	1st quarter 2021	1st Quarter 2021
Responsible Parties	Pharmacy Informatics/ Education	Education, Pharmacy, Nursing & Palliative Care	Nursing, Materials Management, Pharmacy, Peri-Op, Education	Education, Pharmacy, Nursing	Pharmacy	Pharmacy and Nursing	Pharmacy, Nursing, Quality,	Informatics	Pharmacy Nursing, Quality, Informatics	Clinical Informatics, Glycemic Committee, Med Safety	Pharmacy	Pharmacy and Dietitian	Рһатпасу	Pharmacy
Medication-Related Error Category (H&S 1339,63 (d))	Alteplase Infusion for Stroke	Lidocaine for Pain Education	Malignant Hyperthermia Cart	Low Dose Ketamine Education	Bivalirudin per Pharmacy Dosing	10. MONITORING Vancomycin Monitoring	Medication Override		Bar Code Medication Administration	Blood Glucose: Hyperglycemia and Hypoglycemia based on the new CMS reporting criteria for 2023	11. USE Veltassa	TPN Premix	Nateglinide and Repaglinide	Haldol IVPB

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Technology Implementation to Reduce Errors		EHR, IV Infusion	duma	EHR, IV Infusion	Jump		
External Medication Related Error Alerts to Modify Current Process	PE7	ISMP		ISMP			
Change in Procedures/systems by utilizing analysis to reduce errors PES & PE6		P&P written, order set created in EHR,	reprogramed guardrau in intusion pump and education is provided to nursing and pharmacy	P&P written, order set to be created in EHR,	programed guardrail in infusion pump and	education will be provided to nuising and	Juannacy
Weaknesses or deficiencies are noted to achieve the reduction of medication errors		Lidocaine infusion for	pain is different than other indicated use that requires close monitoring	Ketamine infusion for	pain is different than other	indicated use that requires	CIOSE IIIOIIIIOIIII
% Compliance Annual Review	PE2	TBD		TBD			
Date of Initiation		4th Quarter	2020	1st Quarter	2022		
Responsible Parties		Education, Pharmacy, Nursing &	Palliative Care	Education, Pharmacy, Nursing &	Palliative Care		
Medication-Related Error Category (H&S 1339,63 (d))		Lidocaine for Pain	(completed)	Low Dose Ketamine	Infusion for Pain	(completed)	

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MERP CROSSWALK 2020

Medication-Related Error Category (H&S 1339,63 (d)) PEI PRESCRIBING	Responsible Parties	Date of Initiation	% Compliance Annual Review <u>PE2</u>	Weaknesses or deficiencies are noted to achieve the reduction of medication errors PE3	Change in Procedures/systems by utilizing analysis to reduce errors PES & PE6	External Medication Related Fror Alerts to Modify Current Process	Technology Implementation to Reduce Errors	
Evaluation of new drugs added to formulary and overall formulary management			Annual Formulary Review completed December 2018 and presented to P&T Complete and Ongoing		Annual review of Formulary by P&T Committee. Developed a process to evaluate new requests to the formulary which includes: special monitoring requirements, side effect profile, drug risk panels, look a like-sound alike, review of the literature and medication error reports.			
Medications prescribed are on the approved formulary list. Implement computerized physician order entry.		Implemented between Feb – Jane 2012.	Complete and ongoing. Complete		Medications are prescribed from an approved list. The use of Non-Formulary medications requires completion of a request form CPOE was implemented in the ED in 2010 and updated in August of 2011. Implementation of CPOE for the rest of the hospital began in February of 2012 and was completed in June of 2012. Use CPOE for the rest of the hospital began in February of 2012 and was completed in June of 2012. Use of CPOE fins been tracked by obthsticua and by the hospital as a Whole.			
Minimize and climinate symbols and abbeviations that have been known to be open to misinterpretation and/or are known to result in medication crrors. Prescribers avoid use of trailing zeros e.g., 20,0 mg, and to admiss			Complete		The abbreviation list was revised, utilizing the ISMP recommendations in the summer of 2002. The Annouse of the seen developed and included with the approved abbreviation list. Orders containing unapproved abbreviations will require contact with the prescribing physician and written order clarification in the medical record.		Conversion to CPOE has greatly reduced the number of handwritten orders and the opportunities for writing do not use abbreviations	
Use of pre-printed physician orders improves legibility of orders			Target Date May 2011 Complete and ongoing		Approximately 500 orders sets have been reviewed and approved so far. The approved order sets have been incoporated into CPOE. The hospital has implemented CPOE thus addressing legibility concerns. A new committee has been formed, the Clinical Decision Support Committee, which oversees content of the lectronic order sets and insures that corresponding paper order sets are available for printing during downtime as appropriate. Pharmacy leadership was added to the Clinical Decision Support Committee in 2015.			
Easy access to drug information while prescribing medications			Target Date June 2008 1° Counplete Complete		Micromedex electronic medication information is available throughout the facility at any computer work station. All clinical staff have access to data base. Lexicomp's electronic data that we access to data base. Lexicomp's electronic data base is available to the clinician via the Pyxis (automated dispensing machines). Physicians and all hospital staff have electronic access to LeyToAnce software. Micromedex Formulary Advisor was made available in June of 2010. In December of 2015, the Medical Executive Committee in collaboration with Hospital Administration expanded SYMH's association expanded SYMH's association expanded and the spiral Administration expanded SYMH's directive registration for all hospital staff to access Up ToDate Anywhere. A hospital-wide enopital devices. Instructions were sent out to pharmacy staff for accessing Micromedex Drug Reference, IV Compatibility, Drug Interactions, Pediatrics, and NeeTwo mobile devices. For Oncolpty services, NCCR subscription service was purchased February 2016.			
Clinician has access to laboratory data When making decisions regarding prescribing.			Target Date Feb 2013 Complete and ongoing		The clinician has electronic access to real time laboratory data. Lab values are available to physicians entering orders through CPOE at the point of prescribing. Clinical panels have been implemented which organize pertinent alb values by disease state (e.g. diabetes) and allow for graphing to recognize trends, coordination of lab values, viral signs and other clinical date with drug administration. In 2015, real-time lab results display on pharmacist verification queues beneath drug orders as well as to the pharmacist status board.			
Monitoring of all Anticoagulation Medications (NPSG 3c)			Target Date December 2009 Ongoing		Pharmacists will monitor all anticoagulation medications. Currently dosing Heparin and Warfarin per protocol. Anticoagulation protocol changed to require physicians to use Articoago Order form and provide indication and agol information as of December 2010. Data collected to document education of patients. Dabigatran, rivaroxaban, and apixaban added to monitoring. Order form education of patients. Dabigatran, rivaroxaban, and apixaban added to monitoring. Order form cover anticoagulation data submitted and adjustran, and rivaroxaban completed in 2011. Warfarin over anticoagulation data submitted to CallEN ADE reduction project for 2012 and 2013. Data was abmitted to CallEN 2.0 for 2015/2016. SVMH exceeded program improvement goals during the data collection period (reported in August 2016). Update to anticoagulation order sets in 2014 requiring approved sets to be used for all anticoagulans. No longer accepting "a la cante" orders between the advance of the set of an anticoagulans. No longer accepting "a la cante" orders between in anticoagulan and advanced or sets revised in December 2016 to make identifying physicianselected indications and gable easier for pharmacists.			

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Technology Implementation to Reduce Errors							
External Medication Related Error Alerts to Modify Current Process							
Change in Procedures/systems by utilizing analysis to reduce errors PES & PE6	Medications are reconciled at the following clinical transitions: Admission, Out of ICU, Postop, 30 App VLOS, and a Discharge for impatients units. Opportunities for improvement have been identified in the admission and discharge process and are in the process of being developed. Dr First is planned to be implemented in 2013 which is intended to improve our ability to gather accurate medication lists on admission and discharge processing per Posterbility for non-controlled sits so admission and to facilitate e-prescribing on discharge. Prescribing for non-controlled substances implemented in Auns. 2014. Two week pilot project with Pharmacist in ED completed in September 2013. Pilot project planned for December of 2013 for dedicated nurse to take admission history information. Pharmacist educated and required to review medication history along with admission orders. LEAPFROG Data: Pharmacy to audit quality of Medication Reconciliation beginning 2 nd quarter 2018.	The pharmacy has multiple drug dosing protocols that have been in place for over 20 years. The diettitan/pharmacist based TPN protocol lass been developed this year. (2009) Education for dictions, pharmacists, physicians and nursing. The physician may write orders for total or pattial management of TPN by the team. Lepindian and Argarchan protocols approved January 10 P&T Lepindian and Argarchan protocols approved March 2010 P&T Piperacillin/Tazobacian extended infusion protocol 2013. Vancomychi dosing protocol revised in April 2014 utilizing ClinCale (trademark). Heparin dosing protocol revised in November 2014.	Procedure included in the Medication Use Policy, CPM 272 CPM 272 zevised to prohibit range orders and require physicians to include clarification of therapeutic duplication. This policy change was bailt in to the preprinted order sets in 2011, and was implemented in CPOE in 2012.	Require that "Hold" orders include parameters for number of doses or days that the medication will be held. If parameters are not included, the medication will be discontinued. Revised procedure has been included in the Medication Use Policy, 272, and implemented in August 2004. Process was and arrawired for Physicians in CPOE in February of 2012 and for Pharmacist order entry in October of 2012. Hold order no longer allowed in order entry by pharmacists as of 2014.	Orders will be reviewed and rewritten for patients with a length of stay of 30 days of longer, upon change in level of care and postoperatively. Procedure is included in the CPM 2848. Policy updated in Nov 2012 to reflect changes in CPOE in 2012	Multiple IV infission medications have physician orders to titrate to prescribed parameters. In order to provide uniform practice amongst the clinical staff, a chart has been developed to provide uniform that does adjustment increments for each of these medications. Medication Use Policy RAST Tirration Guidelines have been built into CPOE as of February 2012. Requirement for RASS scores incoporated into propofol infusion titration orders. November 2013. Incorporated atto dexmedetomidine orders in January 2014.	The policy for LASA (Look alike-Sound alike) medications is reviewed annually. The 2012 review by the Medication Safety Team, reviewed current ISMP literature and other LASA information, and the last 4 quarters of Medication Errors related to LASA literature and other LASA information, and the last 4 quarters of Medication Errors related to LASA literature and other LASA information, and the list. These lists are posted on the Paysis machines. Multiple methodologies are utilized to identify these medications: Tallman lettering, Paysis alerts, stock separation in Paysis and the pharmacy, and sitekers. In the pharmacy the majority of medications are stored in vertical carousels and are placed according to frequency of tuse as opposed to alphabrical order, thus reducing the risk of look-alike sound alike confusion. Light bars on the Vertical Carousel assist the pharmacy stock of look-alike sound alike confusion. Light bars on the Vertical Carousel assist the pharmacy subject to prevent physicians from mistakensy selecting WinRho (same generic name) when aftenping to order RhoGam. WinRho (same generic name) when aftenping to order RhoGam. The last update to the LASA medication list was reviewed and approved by P&T in December 2018.
Weaknesses or deficiencies are noted to achieve the reduction of medication errors							
% Compliance Annual Review PE2	Target Date 2nd Quarter 2013 2nd Quarter 2014 Monitoring reported in the Quarterly Medication Use Report	Target Date Thy protocol 2009, revised TPN protocol 2009, revised 2010 Lepirudin and Argatroban Am 2010 Renal Dosing Program March 2010. Pp/Tazo 2013 Vancomycin April 2014 Heparin Nov 2014 IV to PO October 2016 Ongoing	Target Date February 2012 Complete	Target Date 2012 2014 Complete	Target Date 2012 Complete	Target Date November 2013 Complete	Target Date July 2013 and ongoing LASA updated list approved by P& T September 2013 ongoing
Date of Initiation							
Responsible Parties							
Medication-Related Error Category (H&S 1339,63 (d)) PEI	Reconciliation of Medications (NPSG &a & b)	Develop pharmacy based dosing protocols	Policy on "range" orders under review.	Implement revised policy on "Hold" orders	"Automatic Stop Order" policy	Guidelines/parameters for critical care medications that are titrated	Strategies for improvement of medications that Look aike and Sound alike

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Medication-Related Error Category Respo (H&S 1339,63 (d)) Par	Responsible Date of Parties Initiation	% Compliance Annual Review	Weaknesses or deficiencies are noted to achieve	Change in Procedures/systems by utilizing analysis to reduce errors	External Medication Related Error	Technology Implementation to Reduce Errors
		<u>PE2</u>	the reduction of medication errors PE3	PES & PEG	Alerts to Modify Current Process PE7	ran
Orders for PRN medications require an indication		Target Date 2012 Complete		Medication Use Policy – CPM 272, supports the requirement that PRN orders must have an indication written by the prescriber. Meditech upgrade requires physicians or pharmacists to enter a pm indication when entering an order.		3
		Target Date Feb 2012 Complete		CPOE implemented which reduces the opportunity for bad handwriting to result in a medication error.		
		Target Date My 2011 2017 Ongoing		Pediatric weight based dosing section added to CPM 2/12 Medication Use Policy. Defines requirement for weight based dosing and reference guidelines. Weight based dosing built into Pupician order sets and time CPOE. Redatric dosing scleulanor developed and implemented into SharePoint. Allows custom dosing to match the Broselow tape but also includes that are not on the tape. Approved by Pharmacy and Therapeutics in June, 2014. A NICU-specific Emergency Drugs Calculator was developed and approved by P&T. This was added to the Meditech Globe hyperlinks in Aungust 2016 to allow for easy access for NICU staff.		
)		In 2015, Informatics began updating Weight-based dosing sets for pediatric patients to incorporate maximum allowable doses. Maximum doses are being updated on a rolling basis with full implementation by 2017.		
V. Seerlin, A. Colonia, and Col		Target Date		Audit of insulin dosing in 2014 revealed that nursing staff were miscalculating IV insulin drip doses. Endo Tool was implemented in October 2015 which simplifies the dose determination (compared to paper protocol) and also individualized dosing to the patient's unique response to improve control and avoid both hypoglycennia and phyperglycennia. Endo Tool dosing has been incorporated into all insulin-drip containing order sets.		
		August 2016 Complete		Aggressive dosing recommendations and frequency of blood glucose checks were brought to the attention of the Medication Safety Committee and Glycennic Control Task Force in Ally of 2016. Changes to EndoTool settings to "moderate" bolts multipliers and less stringent requirements for every 2 hours blood glucose checks were implemented in August of 2016. Incidence of hypoglycennia has remained low following the changes.		
				Order sets were developed and implemented February 2015 to simplify the CPOE ordering of complex basel-buls insulin regimens to align with ADA practice recommendations. Pubrametisis required to monitor patients on the new basal-bolus order sets daily. Order sets currently undergoing review to see if they can be simplified further with planned implementation in 1st quarter 2016.		
Simplifying order entry of basal-bolus insulin regimens		Target Date 1s Quarter 2015 May 2016 Complete		The basal-bolus sets were simplified further due to provider feedback and an observed increased increased med bus insulin regimen for basal sincience of hypoglycemia noted with the weight-based sets. Dosing recommendations for basal and bolus insulin regimens have been added to the new orders. Every long pre-calculated doses. Hospital correctional scale insulins have been standardized to less aggressive dosing and to eliminate dosing variance at SYMH. Bolus meal-time insulin administration times were changed to coincide with meal delivery and muses were trained to give with the first bite of the meal and to loul of if the meal is skipped. All correctional scale insulins must be ordered with the new order set, and insulins have been standardized to include only insulin glargine (basal) and insulin Lispo (bolus and courceftonal insulins). Hypoglycemia has been reduced while maintaining average BG values within 140-180 my/dt.		
		Target Date May 2017 Complete		Clinical Informatics working with Pharmacy and physician champion to develop alerts for drugs contraindicated in pregnancy. Planned implementation with Meditech 6.15 upgrade in May 2017.		
		Ongoing		A pain-control specialist was brought in to conduct a CE program "Updates in Pain Management" let of NMH plantameaks, physiciales, and nursing in August 2016. Fain management learning modules provided by Comprehensive Pharmacy Services were assigned and completed by Clinical Pharmacists in September 2016. In an effort to improve patients' pain control, in December 2016 plantametics in September 2016, with the Orthopedic Nurse Navigator to provide post-op pain regimen recommendations for total hig/knee replacement patients with opioid histories.		
		Target Date 2018 Completed		To align With best practice guideline recommendations, beginning in I* quarter 2018 certain antibiotics are required to have a documented indication at the point of order entry. Evaluation of this procedure and consideration for expanding the antibiotic list will follow.		
Improving chemotherapy prescribing		Target Date 4th Quarter 2017 In progress		Meditech Oncology module build began in 4th quarter 2017 and is projected to finish in 1th quarter 2018. The program will enhance the safety of chemotherapy ordering by aligning CPOE order sets		

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Medication-Related Error Category (H&S 1339,63 (d))	Responsible Parties	Date of Initiation	% Compliance Annual Review	Weaknesses or deficiencies are noted to achieve	Change in Procedures/systems by utilizing analysis to reduce errors	External Medication Related Error	Technology Implementation to Reduce Errors
PEI	ű		PE2	the reduction of medication errors	PES & PEG C.	Alerts to Modify Current Process PET	rad
					with NCCN guidelines and unifying the documentation/ordering systems used by the outpatient cancer clinic and SVMH.		No.
Removal of insulin regular sliding scale		2019			Removal of insulin regular sliding scale will leave only insulin Lispro sliding scale available for ordering to avoid confusion and standardize sliding scale therapies.		
Monitoring of oral glycemic medications		2019			As a recommendation from the Glyvemic Committee, alerts for patients on oral hypoglycemic medications are built in Medmined and will be monitored by pharmacists for appropriateness.		
Labor & Delivery Group B Strep order set		2019			Updated the L&D Group B Strep Prophylaxis Order Set to reflect current ACOG standards for Ampfairlish as the drug of choice instead of Penicilin G. Penicilin doses are not available in MiniBag Plus system and require startie compounding by the pharmacy; however Ampicillin standard doses for loading and maintenance are ready to use via the mini-bag plus system. This change eliminates mampower, labor, and materials costs to prepare Penicillin while Ampicillin bags are premixed and ready to use.		
2. PRESCRIPTION ONDER COMMON ICATION Limit the use of verbal orders for medications; accepted only in emergent/urgent situations	CATION		Target Date November 2012 Ongoing		"Verbal orders are acceptable in ennergency situations or during procedures only per the Medication Use Policy CPM 272 Use of verbal orders, telephone orders, CPOE orders and written orders are bring tracked by IPAC to determine if there are abuses of the use of telephone orders and verbal orders.		
Assure that telephone orders are authenticated by the prescriber as soon as possible			Target Date February 2012 Ongoing		Policy requires that the physician co-signs their telephone or verbal orders within 48 hours. (Medical Staff Rutes and Regs). Physicians can use c-signature to sign verbal and telephone orders which has improved this process		
Improved communication of physician orders via transmission using scanner technology (Pyxis Connect)			Target Date August 2013 October 2015 Complete		The purpose of this technology is to improve legibility of orders, turnaround time and error reduction. Implemented Payis Connect and subsequent ongoing monitor of timelines of order entry. Payis Connect is used mostly for pre-operative and chemotherapy orders as the majority of Proscription Order Communication occurs via CPOE. Medication error data indicates that errors due for Prescription Order Communication have decreased since the implementation of CPOE. Musing—Pharmacy communication for missing doses and schedule changes has been incorporated into Mediceth to reduce the risk of legibility issues. Payis Connect service discontinued October 2015 due to incompatibility with newer versions of Windows. CPOE has been emphasized since the discontinuation. Faxed orders evaluated and presented to Clinical Decision Support Committee for review.		
Develop a process for initiation and maintenance of pre-printed physician orders			Target Date February 2013 Ongoing		A new committee has been formed, the Clinical Decision Support Committee, which oversees content of the electronic order sets and insures that corresponding paper order sets are available for printing during downtime as appropriate. Provation system implemented in 2015 to streamline order set development as well as ensure real-time updates between paper (down-time) and CPOE sets		
Elements of an order are established in policy. Unclear or ambiguous orders are clarified			Complete		Medication Use Policy CPM 272 identifies elements required for a valid medication order. The policy also states when the physician should be contacted for clarification and defines who calls the nurse or pharmacist.		~
Improvement in communication of NEW orders for clinical staff			Target Date March 2009 Complete		Implementation of the Status Board has allowed the notification of NEW / CHANGES in medication orders once pharmacy files the order. This shows NMO (new medication order) on the nurses' Status Board next to patient name.		
Electronic notification between nursing and pharmacy regarding order entry accuracy			Target Date August 2011 Ongoing		eMAR implementation provides a new communication tool for nursing to notify pharmacy of order entry discrepancies. The process of nurse "verification/acknowledgement" of a medication order, allows electronic notification of discrepancies via the "reject "function.		
Pharmacist Order Entry accuracy is analyzed			Target Date February 2012 Ongoing		Pharmacist role with CPOE has changed to be primarily one of order verification versus order entry. Medication errors for both Physicians, Nurses, and pharmacists are analyzed to determine opportunities for system improvements. Problem prone processes such as anticoagulation and fentanyl transferrant part orders are sampled to determine order entry/verification accuracy and compliance with hospital policies and guidelines.		
ED Orders instituted on floor without Pharmacy verification		ž	Target Date September 2012 Ongoing		CPOE Orders intended for ED use only were continued by admitting physicians via the managed transfer process resulting in orders which were imappropriate for inpatient use being continued and not reviewed by a pharmacis. The solution implemented was to ori allow the continuation of ED medication orders by admitting physicians, educate the physicians and musing staff about the change in process, and to run a daily report in the pharmacy to identify any medication orders on inpatients with an emergency department physicians name associated with it. Any such orders on inpatients be chariffed by the pharmacist reviewing the report.		

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Medication-Related Error Category (H&S 1339,63 (d))	Responsible Parties	Date of Initiation	% Compliance Annual Review	Weaknesses or deficiencies are noted to achieve	Change in Procedures/systems by utilizing analysis to reduce errors	External Medication Related Error	Technology Implementation to Reduce Errors
- <u>181</u>			<u>PE2</u>	the reduction of medication errors	<u>93d & E3</u>	Alerts to Modify Current Process PE7	
3. PRODUCT LABELING Medications bar codes are included in			Target Date		Pharmacy provides all medications with bar code technology. Products utilize manufacturer's		PE4
product labeling			Complete Target Date		packages with product NDC number as barcode or medications packaged in the Talyst packager.		
Increased safety of medication identification for clinicians			April 2009 Complete		The newly implemented eMAR shows the medications' generic and trade names		
Increase safety with labeled pre-filled saline flush syringes			l arget Date June 2008 Complete		The hospital implemented the use of pre-filled saline flush syringes. This improves safety by avoiding potential use of unlabeled syringes		
Controlled medications with documentation of waste required needs to be drawn up into a syringe and must have proper labeling			Target Date Aug 2010 Complete Monitors		Change product from ampule to tubex, which allows the nurse to waste medication at the Pyxis machine and then take syrings to bedside to sean. (Fentanyl) Fentanyl syringses no longer regularly available. Controlled substance policy changed to require nurse, anesthesiologist to maintain possession of the manufacturer's vial up to the time of narcoite waste.		
All medications are properly labeled when mixed by pharmacy or prepared outside of pharmacy			Target Date October 2007 Complete		Medication Use Policy – CPM 272 defines requirements for labels. Policy – Label ovoi'off the sterile field defines the process for labeling medications that are poured into sterile containers on the sterile surgical field. (NPSG 3D)		
Improperly labeled medications have an increased risk of administration errors.			New labels added as needed Complete		All IV medications have a patient specific label attached Special auxiliary labels for medications include: High Alert-Co-Signature required, High Alert Institution of this order than Alike, ORAL MED, Concentrated Electrolytes, Chemotherapy, Hazardous Medications, Paralyzing Agent, check dose, KCL added Paralyzing Agent, check dose, KCL added Wedications compounded by the hospital pharmacy have a "Compounded Medication" sticker attached Concentrations of medication is clearly marked on medication or IV labels		
Medications requiring multiple vials for a dose			Target Date November 2012 Complete		Pharmacy staff will bundle multiple medications together. If possible, the medications will be combined in the same container to reduce omission errors. Additional special directions are added to the label with asterisks.		
KitCheck TM tray exchange system			Target Date December 2014 Complete		Affixes RFID chip to each component of anesthesia tray, code cart exchange tray, and emergency Kis. Automates first dug to expire label and ensures correct contents of required medications in each tray. Report system is able to keep track of meds expiring in kits deployed throughout the hospital as well as keep records of for numbers in case of drug recalis.		
Use of multiple measuring systems increase risk of errors			Target Date Weight − 1st Q 2011 Pending		The metric system is the approved unit of measure. BMV Team has recommended that all weights be recorded ONLY in Kg's		
Capital Equipment request submitted for Codonics printer system for Pyxis anesthesia carts and Main OR and OB PACU's			Target Date December 2014 Pending		Will allow amesthesiologists access to preprinted labels for syringes used in the administration of anesthesia. Provides label with drug name (generic and trade), expiration date, and anesthesiologist's initials. Ensures full compliance with labeling requirements.		
Risks associated with use of oral medications in syringes for NICU and pediatric patients			Target Date January 2009 Complete		All oral medications are dispensed in Colored Oral syringes, and label with ORAL MED special label.		
Information on New medications added to Formulary is important to improve patient safety during medication administration			Target Date August 2011 Complete		The Formulary Policy includes statement that when new modifacions are added to the Formulary, there will be pertinent information on the eMAR for nursing to assist in nonitoring the patient. Currently the following types of information are added to the eMAR and available at the point of administration: black Box Warnings, Look-affec Sound alike warnings, and any special administration or monitoring instructions. Additional information is available at the Pyxis machine (Lackcomp) and on all PV's on Clinical tunits (Micromedex)		
Improved labeling and tracking of compounded intravenous medications			Target Date 3 rd quarter 2017 Complete		Starting in 4th quarter 2017, lot numbers and manufacturers were added to IV drug DoseEdge labels. This will enhance the tracking and tracing of compounded products to case the identification of patients if a product issue Were to arise.		
4. PACKAGING AND NOMENCLATURE	JIRE						
5, COMPOUNDING	THE STATE OF THE PARTY OF THE P	The state of the s	THE RESERVE OF THE PARTY OF THE	Section of the sectio		A TOTAL DESIGNATION OF	
The pharmacy will compound or admix all sterile medications except in an emergency or when not feasible (i.c., short stability).			Complete		Medications should be prepared in an environment where there is adequate light, free from distractions, and with clean hands and a clean work surface. Annual competency training on ascptic technique will be provided for staff that prepares sterile admixtures. This process does not include		

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Medication-Related Error Category (H&S 1339,63 (d))	Responsible Parties	Date of Initiation	% Compliance Annual Review	Weaknesses or deficiencies are noted to achieve the reduction of	Change in Procedures/systems by utilizing analysis to reduce errors	External Medication Related Error Alerts to Modify	Technology Implementation to Reduce Errors
<u>PE1</u>			<u>PE2</u>	medication errors	PES & PEG	PE7	9 34
					reconstitution of products for immediate administration by nursing or physicians. Medication Use Policy, #272		
				-	Comprehensive process for review of chemo orders including implementing the assignment of a designated clinical pharmacist for the orcology unit each day, annual competency and certification program for pharmacist for the orcology unit each day, annual competency and certification program for pharmacist check of technicians and pharmacists, standardized worksheets with double check by 2 pharmacist, and request for 3 days advance notice to permit adequate safe review of orders and preparation as well as assuring availability of the medication. Dose Edge implemented November 2014 which enhances the safety of chemotherapy preparation. Hazardous agents will only be compoundable in the BSC, refigures an in-limit overification, and reduces risk for contamination by minimizing entry and exit into the baffer room. Oncology Lean Kaizera done in October of 2013 to identify opportunities to improve the outpatient chemotherapy process. Decentralized pharmacists, nursing and physicians. Chemotherapy order sets being developed in cooperation with oncology physicians collenotherapy order sets being developed in cooperation with oncology physician group. Oncologist's office required to fax protocol being used as well as otherwise.		
Improved Safety in Chemotherapy Preparation			2013 Ongoing		In October 2015, SVIMH pharmacists were granted access to OncoEMR system that SVIMC Cancer Clinic employs, allowing access to patient's most current lab values, clinic progress notes, as well as carner treatment history. Share-boint system was implemented in June 2015 to facilitate the coordination between the clinic and nursing, scheduling, and pharmacy departments for new chemotherapy orders. Equablied Closed System Transfer devices implemented September 2015 to increase the safety of hazardous drug compounding.		
					Daily pharmacy "chemo huddle" implemented in May 2015 to address clinical, scheduling, and stocking issues. This has been expanded in September 2016 to include participation from the Salinas Valley Memorial Cancer Care Clinic as well as management from the hospital outpatient infusion center.		
					Meditech Oncology module purchased with planned implementation in 3 rd Quarter 2017.		
					ECG Management Consultants have been hired to conduct an evaluation of SVMHS' oncology services. The consultants will be on-site in January 2017 and will provide performance improvement recommendations to enhance the global program.		
Standardization of Concentrations of NICU medications			December 2009 Continue to add new medications as they are introduced		The injectable medications used by NICU have been reviewed and standard concentrations developed to reduce the risk of compounding errors. • A compounding table used for preparation of stock solutions for IV medications — This is available on the Planmacy Shared drive. • Standard concentrations for the oral medications have been updated. • Standard concentrations for the oral medications have been updated. • Standard concentrations for the oral medications have been updated. • Standard concentration techniques using Worksheets • Standard double signature; two Planmacists check technicians work and all calculations are actual to the standard daily to review NICU profiles and orders		
Standardization of Concentrations for Critical Care IV solutions			Feb 2012 Complete		Physicians often write titration orders for critical care medications drips. The physicians provide parameters such as leart rate, blood pressure, or RASS score to maintain the patient. This document has been developed to assist the muses in choosing the dose adjustments to increase or decrease infusions by. The furtion parameters are now programmed in CPOE as well.		
Assure quality products are used in compounding			Complete		Pharmacy procurement policy states that only USP grade ingredients are purchased for use		
Assure competency of personnel preparing aseptic compounds			Feb 2011 Complete		Pharmacy staff compounding sterile products will maintain competency according ASHP guidelines. This includes yearly Sterile Compounding Competency and successful aseptic technique verification (PATT II)		
Pediatric IV solutions safety			November 2010 Complete		A second pharmacist check on all routinely prepared pediatric IV solutions Will be required.		
DoseEdge IV compounding system	E		November 2014 Complete		Eliminates error-prone proxy checks such as the "syringe-pull back method." Pictures are taken for every step of the IV compounding process to verify accuracy. Forces users to scan barcodes to verify the correct ingredients are used. Log is kept to keep track of for numbers and expiration dates Which		

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Technology Implementation to Reduce Errors	PE4												
External Medication Related Error Alerts to Modify Current Process													
Change in Procedures/systems by utilizing analysis to reduce errors PES & PE6	would assist in the event of product recalls. High alert, pediatric doses, and chemotherapy require independent double checks from 2 pharmacists.	Occased upglate plannet December 2015. A medication risk assessment in January 2016 revealed that nurses were using saline flushes on the units to reconstitute medications. Pharmacy has worked with Education to instruct nurses to only using approved dilutens for medication reconstitution. Floor stocks of fluents add sterile water for injection have been made readily available on the nursing units.	Hazardous drug list reviewed and updated at December 2016 P&T and subsequently at the December 2017 P&T meeting. A gap analysis has been conducted to identify areas for improvement to align with USP <800> meeting analysis has been conducted to identify areas for improvement to align with USP <800> within compliance of USP <800.	Started the process of standardizing infusion drip concentrations per ASHP recommendations. Changes made as of December 2018 included drip infusions for vasopressin, norepinephrine, and isoproterenol.	Medications are reviewed prior to administration in all inpatient areas. Urgent/ Emergent situations are exempt. Pyxis machines are "profiled" except for procedural areas where there is a LIP present. ED added to profile in 2010.	Continue to monitor Pyxis misfile errors. Addition of Talyst Carousel and Auto-Cool technology to add additional points of barcoding prior to loading in the Pyxis. Add medications to LASA list based on Pyxis fill error reports.	Medications should be reviewed by a pharmacist prior to administration by any licensed practitioner when a LIP is not present. The Pyxis Tech will monitor OVERRIDE transactions using the Pandora data system. The Meditech/Pyxis profile will be checked to assure that a physicians' order is present. If no order is found, a note is sent to the manager of the unit for review, and response required. The lead pharmacist will also record a Pennenic report for a med administration without an order.	The lists of unit specific OVERRIDE medications are reviewed periodically. List of override medications for ED approved May 2010, List of unit specific override medications for rest of Pyxis machines reviewed Nevenbar 2010. Last review of override medications was presented and approved by P&T December 2016.	Medications are dispensed/stocked in the smallest unit of use available. Liquid medications are purchased or repackaged into unit dose quantities as feasible.	Concentrated electrolytes have been removed from stock on nursing units. Exception is concentrated from the OR for heart cases and NACL for dialysis, where they have auxiliary warming labels denoting "Concentrated Electrolytes". Neuronuscular blocking agents have "Paralytic" warming labels, and LASA meds have Look alke Sound alke labels. In addition, High Adert medications it dentified in the Medication Les policy have HIGH ALERT labels. Many of these medications required independent double signatures prior to administration	The pharmacy will dispense all medications with a scannable bar code. Multiple methods are utilized to accomplish this. See detailed information in Product labeling section	Medications available on the nursing units (not in Pyxis) are limited to those emergency meds maintained in the Crash Carts and other defined emergency kits such as RSI kits. Exception-Dialysis.	Concentrated electrolytes have been removed from stock on nursing units. Exception is concentrated KCl in the OR for heart cases and McI for dialysis, where they have anxiliary warning hebes denoing "Concentrated Electrolytes." Neuromuscular blocking agents have clearly visible "Paralytic" warnings on the packaging, and LASA meds have Look alke Sound alike labels. In addition, High Alert medications identified in the Medication Use policy have HIGH ALERT labels. Many of these medications required independent double signatures prior to administration.
Weaknesses or deficiencies are noted to achieve the reduction of medication errors							(i)						
% Compliance Annual Review PE2	December 2018 In progress	June 2016 Complete	December 2016, December 2017 In Progress	Target Date December 2018 Ongoing	Target Date 2012 Ongoing	Target Date 2012 Complete	Target Date Review of Pysis Override list performed in 2016. Pysis Override Reconciliation report started 3th GT 2012.Pysis Override Trending Since	2010. Complete and Ongoing Monitor	Target Date 2012 Complete	Target Date 2012 Complete	Target Date April 2009 Complete	Target Date March 2009 Complete	2012 2016 Complete
Date of Initiation													
Responsible Parties													
Medication-Related Error Category (H&S 1339,63 (d)) PE1		Use of approved products for medication reconstitution	Ensuring safety While compounding hazardous drugs	Standardized infusion drip concentrations per ASHP recommendations	o. Diviensinos Pharmacist review of orders prior to administration improves medication safety	Improve Pyxis restocking procedures	Detailed monitoring of medications withdrawn from Pyxis machines using as AVED 1015 for accessing	HIG OVERNIDE HIROTORI	Dosing medication errors are reduced when meds are dispensed in the smallest unit of use/ready to use form	High risk mediations are identified and special restrictions are implemented.	All medications are dispensed with a bar code to allow bedside medication verification (BMV)	Floor stock medications are limited to emergency carts.	High risk mediations are identified and special restrictions are implemented.

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Medication-Related Error Category (H&S 1339,63 (d))	Responsible Parties	Date of Initiation	% Compliance Annual Review	Weaknesses or deficiencies are noted to achieve	Change in Procedures/systems by utilizing analysis to reduce errors	External Medication Related Error	Technology Implementation to Reduce Errors
PEI			PE2	the reduction of medication errors PE3	Ale Cu Cu	Alerts to Modify Current Process PET	PE4
Insulin Lispro, glargine, and regular insulin (EO) dispensing from Pyxis		2019			Concentrated NaCl for dialysis has been removed from order sets and the vials are no longer stocked on the dialysis rooms as of 2016. Changed patient specific whole vial and pen dispensing of insulin Lispro and glargine to loading in Payis. This was a recommendation from the Missing Medications Taskforce to decrease waste, save cost, and decrease missing medications and delay in administration. The Emergency Department		
IV Push antibiotics		2017			subsequently requested to have regular insulin valis loaded in PAXEs to decrease waste. During the IV fluid shortage in 4Q.2017-1Q.2018 as a result of Hurricane Maria, we had to manage our IV fluid bags of all sizes. One of the major initiatives implemented was converting common antibioties from initiasin to IV pasts. Antibiotics converted to IV pasts included cefazolin, cefaxitin, co-drinxone co-ferione necronomen and aztroonam		
Inhaler to nebulizer dosing conversion		2019			In collaboration with Respiratory Therapy, P&T approved the automatic conversion of all inhalters to nebalizer solutions as method of choice for all respiratory treatments. Respiratory therapists administer all nebalized doses and provide education on all discharge inhaler therapies; this ensures proper medication documentation and billing and promotes proper inhaler techniques. Additionally, this decreases inhaler waste and drug costs.		
7. DISTRIBUTION Pyxis optimization			Target Date December 2018 Ongoing (projected completion Feb 2018) 2019 In Progress		Initiated Pyxis optimization with regards to assessment of standard stock, optimal par levels, stock outs, and more.		
Segregation of neuromuscular blocking agents			2016		Medication risk assessment in 2016 showed inconsistent practices with pharmacy segregation of neuronmscular blocking agents in alignment with ISMP safety recommendations. All neuronmscular blocking agents loaded in approved units are now placed in lidded containers with "High Alert" and "WARNING: Panalyzing Agent" inbels affixed.		
Unit dose distribution practices improve medication safety			Target Date 2012 Complete and ongoing		The hospital pharmacy fully supports the concept of unit dose dispensing including repackaging of half the delicity charles, repackaging Patient's Own Meds into Patient Specific Unit Dose, repackaging of liquids when feasible into unit dose		
Implementation of Pyxis Anesthesia system			Target Date 2 qr 2010 Ongoing		Implementation of Pyxis Anesthesia Machines in the OR for anesthesiologist access to medications. Providing increased security of medications and improved control of inventory and accountability of controlled substances. 100% of controlled substances removed from the OR Pyxis Anesthesia machines are reconciled with the PICIS Medication Administration record and discrepancies are reported to the Anesthesia department as Well as to the Pharmacy and Therapeuties Committee.		
Medications are stored in a secure manner.			Target Date October 2008 Complete		Access to medications was reviewed by a Task Force. Locks were placed on refrigerators, Med Cabinets, and In/Out boxes on the mursing units. High Abert and LASA medications have been identified by Medication Safety Team, and are stored with alterts identifying them as such.		
Removal of medications no longer prescribed			Target Date Improved process Ame 2009 Complete		Pharmacy technicians round several times a day and review unit inventories (patient cassettes and medication refrigerators) for medications that have been discontinued, or if patients are discharged or transferred. Murses are responsible to return discharged or discontinued medications to the Pharmacy unit of the Pharmacy through the pneumatic tube system. RCRA disposal bins placed in the central pharmacy and in the Oncology unit.		
Pyxis ES upgrade			September 2016 Complete		SVMH's Pyxis machines were upgraded from the 3500 series to the current ES system. The new Pyxis machines and user interfaces were designed to streamline the medication removal process and improve throughput, alert nurses of patient allergies at the console-level, notify providers if a medication is pulled "too soon" in relation to a previous dose, streamline the narcotic waste and removal process, and to reduce missing medication requests through real-time inventory tracking.		
Medications with High Risk for error will be identified as High Alert medications. Some of these medications will require an independent double check upon administration.			Target Date 2013 December 2018 ongoing		The Medication Safety Team has reviewed the list of High Alert medications. With the implementation of eMAR/BMV, some changes have been made to the fist. The Team acknowledged that there is still a need for some medications to entermin on the High Alert list, however they do not receptive an independent double cheek/signature. This list is reviewed annually by the Medication Safety Team and Pharmacy & Therapeutics Committee per the recommendations of ISMP and current evidence. On the Committee per the recommendations of ISMP and sourcest evidence. Some appearance the High alert table into 3 sections: adults, pediatries, and neonatal medications. This process will be reexamined as we nove to Mediche C/Sc 665 in 2011. List of High alert medications this process will be reexamined as we nove to Mediche C/Sc 665 in 2011. List of High alert medications this process will be reached.		
					(Lantus) vinis and regular insulin vinis was identified through Hypoglycemia ADE reduction effort. Medication Safety Team recommended switch to pens for Lantus only to differentiate the long		

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Tec	3										
External Medication Related Error Alerts to Modify Current Process					1						
Change in Procedure&systems by utilizing analysis to reduce errors $\overline{\rm PE5 \ \& \ PE6}$	acting insulin from the short acting insulin and prevent the doses from being confused when given simultaneously. With this change nurses were educated on the absolute prohibition against sharing Lantus pens even with different syringes. Win Tips were sent out reinforcing this education and the CDC "one pen—one patient" posters were posted to further reinforce the program. Last undate to High Alert Medications list presented to and approved by P&T December 2018.	A multi-disciplinary team began Working in March 2008, chaired by a consultant. The team reviewed technology options which include software, computers on wheels, tablets, barcode scanners, and packaging equipment.	Following the implementation of eMAR/BMV in the in-patient units, metrics were developed to monitor turisting compliance to seaming precesses. Data is collected to review the patient arm band seaming mad medieation seaming percentages. All eMAR/BMV scan rates in 2013 exceeded 83%. A multidisciplinary team is being formed, using the ICU as a pilot unit, to determine methods to increase the medication barcode scanning percentage to above 93% hospital —wide.	The nurse will only administer medications for which he/she has basic knowledge. This requirement is included in the Medication Use Policy, and was implemented in August 2004. Micromedex added to computer sever, allowing access throughout the facility. Pyxis med stations have Lexicomp for drug reference.	Laboratory results are available to the nurse with the eMAR/BMV process. Informatics multidiscipilinary team determines what lab data crosses to eMAR upon administration. Clinical panels have been implemented which organize pertinent lab values by disease state (e.g., diabetes) and allow for graphing to recognize trends, coordination of lab values, vital signs and other clinical date with drug administration.	This will decrease unnecessary variability in the medication administration process and reduce therefore reduce the potential medication errors. Revisions have been made to meet changes in CMS requirements. The Medication Safety Team has reviewed and revised the Standard Times with the implementation of CMAR. The Medication safety Team has reviewed and revised the Standard Times with the implementation of CMAR. This medication with repeat CMS revision of Timeliness of Medication Administration requirements.	Will decrease errors due to self-administration of medications and improves safety and control of mendication left at the bedside for self-administration. This requirement is included in the Medication Use Policy, Section 3.4.10, and was implemented in Angust 2004. SVMH doesn't allow self-administration, except those nedications listed in the policy. Self-administration restricted to the Sigher Center and Cardiac Rehabilitation unit. Med Use policy updated to reflect these two carve outs.	The hospital has implemented the use of special oral feeding tubes with orange stripe. Epidural tubing has yellow strip and has NO ports.	Implemented the use of amber oral syringes for ALL pediatric/neonatal medications	The eMAR/BMV implementation team reviewed the processes for nursing related to medication administration. Medication 'sanctuaries' have been developed in many of the units. The Pyxis machines, refigerators and locked medication cabinets have been relocated to one area or room.	Smart pumps were upgraded to a newer software version in 2010 with the following improvements: addition of neuroligy medications with Gauachiais dose protection, addition of the intermittent Gauardralis for use with piggyback and sayinge medications. Coll ata collected and analyzed to determine most common causes of aleris. As a result of the analysis hard stops were put in place for teparin initiosius and a separate profile was created for high dose PCA initisions as opposed to those for opiate naive patients. In 2012 the Alaris Gauardralis database was revised and an additional 15 Hard Max limits were added based on recommendations of Alaris. San Diego Patient Safety Collaborative and analysis of SVMH Alaris CQI data. Replacement of Alaris Pump CPU's as well as addition of Faul-Tidal CQ2 modules (better monitoring of opiate containing PCA's and Epidural infusions) and Alaris Viewer (real-time viewing of patient and drug specific infusion monitoring including drug, concentration, rate, volume remaining, barcode identification of Tunse, medication including drug, concentration, rate, volume remaining, barcode identification of Tunse, medication
Weaknesses or deficiencies are noted to achieve the reduction of medication errors											
% Compliance Annual Review PE2		Target Date House Wide completion by May 2010 Complete	Target Date 2013 Complete And ongoing monitoring	Target Date Risk reduction plan complete (8/04) Complete	Target Date February 2012 Complete and ongoing	Target Date 2013 In progress	Target Date Risk reduction plan complete (8/04) Complete	Target Date January 2009 Complete	Target Date March 2009 Complete	Target Date July 2009 Complete	Target Date November 2013 April 2015 for Alaris upgrade, February 2016 for Alaris Viewer, 14 Quanter 2017 for new CQI reporting Ongoing
Date of Initiation											
Responsible Parties											
Medication-Related Error Category (H&S 1339,63 (d)) PEI		Implement electronic charting (eMAR) for medication administration, and implement bar coding bedside rechnology	Implementation of Bedside Medication Verification (BMV)	Evaluate medication resources available to the nurse	Access to laboratory data is readily available to the clinician during administration	Medications will be administered using established standard times	Establish guidelines for self- administration by patient/caregiver and restrictions on medications that can be left at the bedside for self- administration	Multiple tubing for medications can be a risk. Reduce similarities by using distinctive administration sets.	Uniform use of oral syringes for pediatric and/or neonatal oral medications	Improvement in medication administration processes with the eMAR implementation	Utilization of Smart Pump technology to improve safety of IV infusions.

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Responsible Parties	ible Date of Initiation	% Compliance Annual Review	Weaknesses or deficiencies are noted to achieve	Change in Procedures/systems by utilizing analysis to reduce errors	External Medication Related Error	Technology Implementation to Reduce Errors
		PE2	the reduction of medication errors PE3	PES & PEG	Alerts to Modify Current Process PE7	
				In 2016, Carefusion updated their CQI data collection suite with more robust reporting functions. Pharmacy and Nursing Education plan to attend CQI training sessions in January 2017. Enhanced		PE4
		Target Date 2010 Complete		reports to be presented for 1st Quarter 2017 data at the Medication Sofety Team meeting. Two pharmaeists will attend Pediatric and NICU codes so that all medications doses and calculations can be double ehecked. When only one pharmaeist is on duty the pharmaeist will double check doses with an RN.		
		October 2017 Complete		Nursing education and Medication Use policy updated to provide guidance when medications are ordered with duplicate PRN indications. In the event that two orders exist for the same PRN indication, the unsre will default to use the ord note first. If oral is contraindicated, then a narenteral form will be administered ner MD order.		
				Previously, the bolus was administered via a separate syringe, and the infusion in a separate bottle and required more complex Alaris programming steps. In an effort to reduce door to needle time for stroke patients, nurses are now administering alteplase bolus and infusion from the same bottle. Alaris Guardraits have been updated to simplify the steps to run alteplase-Stroke protocol.		
				Nurses will be able to document PCA administration in the electronic health record (Medirech) in lieu of paper documentation. Testing is currently underway. Documentation will also be viewable to other disciplines including pharmacy.		
		Target Date 2012 Ongoling		Medication and med error reduction strategies are completed through the following modalities: Clinical Nurse Educators Med Safety Tean Med Safety Tean Med Safety Tip Sheets Chemo Certification Micromedex Drug Sheets Crare Mouse		
		Target Date Risk reduction plan complete (9'04) Ongoing		The Medication Safety Team will be educated about the principles of medication error reduction. Information will be incorporated into new employee nursing orientation as Well as annual training. Discussions at MST re: selected med errors.		
		Target Date Risk reduction plan complete (10/04) 3rd Qtr 2007 Ongoing		LASA list of "look-alike, sound-alike" drugs will be developed and information communicated to caregivers. List of medications is reviewed annually. Lists are available at the Pyxis machines, Tall Man lettering used, Pyxis alerts, stock separated in Pyxis machines and pharmacy inventory. Stickers utilized. Policy written. High alert list posted-on each Pyxis machine		
		Target Date Risk reduction plan complete (8/04) Complete		Patients and families will receive information about the medications being administered during the course of treatment and upon discharge. This requirement is included in the Medication Use Policy, Section 3.10, and was implemented in August 2004.		
		Target Date Risk reduction plan complete (8/04) Complete		The Respiratory Therapist will educate the patient in on the proper use of metered-dose inhalers while administering the first doss. RT and Mursing will collaborate on additional educational needs of the patient. The nurse will administer all subsequent MDI doses. This requirement is included in the Medication Use Policy, and was implemented in August 2004.		
		December 2015 Complete		In December of 2015, the Medical Executive Committee in collaboration with Hospital Administration expanded SYMH's subscription services to include UpToDate Anywhere to facilitate ongoing physician education. UpToDate Anywhere allows physicians to view UpToDate inside or outside the institution while concurrently obtaining CME.		
		Target Date March 2015 August 2016 Complete and Ongoing		In 2015, Salinas Valley Memorial Healtheare System initiated the annual Patient Safety Fair to provide education to clinicians, non-clinical staff, patients, and their families with regard to pertinent safety education topics. Pharmacy's presentation in 2015 involved Opioid Safety. Pharmacy's presentation in 2016 involved Antibiotic Stewardship.		
		Target Date October 2016		The Verge Occurrence Reporting system was updated in early 2016, and it was noted that reported events were lower than usual. Improvements were made to the system in October 2016 to improve		

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Medication-Related Error Category (H&S 1339,63 (d))	Responsible Parties	Date of Initiation	% Compliance Annual Review	Weaknesses or deficiencies are noted to achieve	Change in Procedures/systems by utilizing analysis to reduce errors	External Medication Related Error	Technology Implementation to Reduce Errors
134			<u>PE2</u>	the reduction of medication errors PE3	PES & PEG	Alerts to Modify Current Process PEZ	P 64
			Complete		the end-user experience. Education campaigns were conducted, including a booth presentation at the 2016 Patient Safety Fair. Reported occurrences have since returned to baseline averages.		17.00
Transitions of Care Pharmacy Coordinator					In collaboration with the Transitions of Care team, the pharmacy department hired a Transitions of Care Pharmacy Coordinator to facilitate discharge counseling and oversee the transitions of care from a medication safety reexpective.		
Pharmacy Newsletter					Construct clinical newsletter to broadcast medication shortages, ASP performance, Nebulizer conversion, Medication error and ADR reporting to medical, plarmacy, and nursing staff		
10. MONITORING Begin use of trigger drugs to identify adverse drug reactions e.g., naloxone, flumazenil, epinephrine, etc.			Target Date Implemented 4Q 07 Ongoing		Pyxis entries have been edited for nursing to help identify trigger medications. Pharmacists began reviewing these events and reporting through the ADR reporting process.		
Include reporting and analysis of potential and actual ("near miss") medication errors.			Target Date November 2013 Complete Quarterly Amlysis		Provisions include prompt reporting and review of medication errors, patient notification and record-keeping reduirements Detailed analysis of serious med acrorss (level E to 1) Analysis of serious med acrorss (level E to 1) immediately implement corrective action Error reporting is encouraged and is non-punitive.		
Use of protocols for drugs with narrow therapeutic index			Target Date November 2013 Oneoing		Pharmacists provide protocol dosing for several medications with narrow therapeutic index. Heparin, warfarin, aminoglycosides, vancomyein, enoxaparin, argatrobun		
Ensure that essential patient information is available to the caregiver			Target Date Risk reduction Plan complete (10/04) Complete		Revise patient demographic information to add required fields for pregnancy and lactation status.		
The patient care provider will monitor and assess the effect of medications on the patient.			Target Date Risk reduction plan complete (8/04) Aug 07 Complete		The effects of medications on patients are monitored to assess effectiveness of medication therapy and minimize the occurrence of adverse events. Pain medications are reassessed 30 minutes after administration and are documented in Meditech.		
Decentralized pharmacist on the nursing units			Target Date 2014 Complete		Pharmacists monitor drug regimens, dosing, therapeutic duplicates, adverse drug reactions, and medication reconcilitation. ICU/SICU established 1s QTR 2007 Oncology/ST established 1s QTR good of the control of the co		
Develop process for proactively monitoring controlled substances for potential diversion			Target Date 2013 14 Quarter 2017 Complete And Ongoing		Implementation of the Anomalous Report by Pandora, Which provides user and location specific information on controlled substance use. Phirmacy nanagement revelves the reports monthly and sends to the unit managers for review and response. Controlled Substance discrepancy rates by Nursing Unit started in 3 rd Quarter 2012 to identify Units and individuals involved in significant mimbers of discrepancies. Since implementation and distribution of Controlled Substance discrepancy racking by unit the number of controlled substance discrepancies generated in the Pyxis system has decreased by 40%.		
Implementation of Black Box Warning Policy			Target Date 2012 Monitor		Provide safe medication monitoring parameters for medications with Black Box Warnings. Policy and Procedure developed and approved by Pharmacy & Therapeutic Committee. Monitoring of TACA reports and update policy as needed. Back Box warnings are included at the point of preseribing with CPOE and at the point of administration with Pyxis CDC warnings. Last Black Box Warnings update presented to and approved by P&T December 2018.		
Implementation of Fentanyl Patch protocol to comply with Black Box Warnings			Target Date 2013 Ongoing		Pharmacists required to assess opiate history of patients with orders for fentanyl patches prior to dispensing, as well as indication for use. Assessment must be documented as a clinical intervention. Daily report will be reviewed by Lead Pharmacist to assure that all fentanyl patch patients have		

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Medication-Related Error Category (H&S 1339,63 (d))	Responsible Parties	Date of Initiation	% Compliance Annual Review	Weaknesses or deficiencies are noted to achieve	Change in Procedures/systems by utilizing analysis to reduce errors	External Medication Related Error	Technology Implementation to Reduce Errors
PEI			<u>PE2</u>	the reduction of medication errors PE3	PES & PEG	Alerts to Modify Current Process PEZ	PE4
					assessment documentation. There were no adverse outcomes due related to fentanyl patch administration since the new process has been implemented. Fentanyl patch monitoring continues in 2012 with 100% compliance. Fentanyl patch compliance will be studied during December of 2013 to determine if compliance is being maintained. Consideration being given to requiring Fentanyl Transfermal Patch order set in CPOE. Morphine equivalency reference sheet updated in August 2014 to include hydrocodone, most often prescribed to outpatients as Vicodin or Norco. This will allow planmacists to apply exteluations for this commonly used pain med.		
Implement change in plarmacy ordering PTT's in conditional status (pending) so that murses can identify actual time of heparin rate changes and PTT can be drawn at appropriate time.			Target Date 2013 Ongoing		Problem identified with Meditech 6.05 implementation due to process change of pharmacist's rather than unse entering PT orders for heparin prococols. There was sometimes a lag time between when a rate change order was ordered by the pharmacist and when the drip rate was changed. Subsequent PTT's ordered by the pharmacist and when the drip rate was changed. Subsequent resulting in missincepretation of Ibas. The change allowed the RN to unpend the lab order based on the actual time the heparin rate was changed. Consideration of the pain drips not having rate adjusted or discontinued when ordered. Consideration of Alaris Viewer to allow Pharmacy remote real-time access to drug, dose, rate and guardrail status of all IV drugs. Consideration of Shift by shift heparin drip rounding by charge nurse.		
Improving monitoring of medication doses in patients With changing clinical conditions			Target Date March 2016 Complete		Pertinent real-time lab results that can affect drug dosing decisions were added to Pharmacist work queues in 2012. In March 2016, abnormal GFS and searun creatinine values were added to the pharmacy Meditech Status Board to alert pharmacists to investigate potential dose adjustments.		
Improving appropriate antimicrobial usage			Target Date May 2017 and Ongoing		Plantmacy began to report Antimicrobial Stewardship activities and data to P&T in 2016. As of March 2016, abrain 2016 and abrain and abrain on antibosics are flagged on the Plantmacy Status Board with added emphasis placed on broad-spectrum antimicrobials and agents with provider restrictions. Pharmacy began rounding twice weekly with Infectious Disease specialist to review antimicrobial orders began rounding twice weekly with Infectious Disease specialist to review antimicrobial orders twice weekly to provide feedback on antimicrobial asset Didactic education has been provided through Mederal Grand Rounds, in-services to hospitalist group and plantmacy, as well as the 2016 Patient Safety Fair.		
					To align with CDC bast practice recommendations, Clinical Informaties is currently developing Meditech functionality for providers to document antibiotic indications as well as automatically-generated alerts for antibiotic revealuations ("time-outs"). The goal is to implement these in May 2017 with the Meditech of 15 tuggarde.		
Approval of Medication Safety Pharmacist position			Target Date 2018 Complete		To aid in the identification of gaps in SVMH's current medication safety program and to drive the program forward, a medication safety specialist position has been approved.		
Vancomycin, Aminoglycoside, TPN, procainamide pharmacy protocols revised			Target Date December 2018 Complete		Revisions of vancomyein, aminoglycosides, and TPN pharmacy dosing protocols have all been updated and revised. Procainamide dosing protocol has been archived due to lack of use.		
Medmined Clinical Decision Support Implementation			Target Date December 2018 Ongoing		Initiated the use of Medmined, a clinical decision support system to help pharmacists track clinical changes in real time. Training started in December 2018, With subsequent implementation		
Display Creatinine Clearance on EMR header		2018			eGFR appearing on patient header while nearly all medication protocols require adjustment based on the Creathinic Clearance, worked with Laboratory department to display CrCl back on to the header for pharmacist calculations/dose adjustments		
Vancomycin, Aminoglycoside, TPN, Anticoagulation, Procainanide pharmacy protocols revised		2019			Revisions of vancomycin, aminoglycosides, and TPN phatrnacy dosing protocols have all been updated and revised. Anticoagulation policy evised to include direct oral anticoagulant agents and reversal agents. Procialmulied osing protocol has been archived due to lack of fuse.		
Daily ICU rounds		2019			Pharmacists previously attended ICU rounds previously occurred on Monday. Wednesday and Fridays. Currently, pharmacists attend ICU counds Monday through Friday to increase patient monitoring and communication with the interdisciplinary team.		
Ortho Pain Management		2017			Joint Program initiative to address low pain management scores in our Ortho Joint program. Multidisciplinary team including pharmacy to review meds on admission and follow patient through the transitions of care to improve pain scores. March 2017 67%, April 50%; June 2018 86%, July 100%.		
Narcotic Audit		2019			A risk based audit was performed to access assurance that processes and controls are in place to prevent diversion of controlled substances. Audit revealed no diversion risks with current program		

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Medication-Related Error Category (H&S 1339,63 (d))	Responsible Parties	Date of Initiation	% Compliance Annual Review	Weaknesses or deficiencies are	Change in Procedures/systems by utilizing analysis to reduce errors	External	Technology Implementation to Reduce
<u>। जत</u>			<u>PB2</u>	noted to achieve the reduction of medication errors $\overline{PE3}$	PES & PEG	Kelated Error Alerts to Modify Current Process PE7	PE4
Medication rolated errors are routinely reviewed and analyzed.			Target Date Quarterly reports Ongoing		Significant errors are reviewed using the Root Cause Analysis process. Significant errors are reviewed using the Root Cause Analysis process. Safey Team, the Plannacy of Incladentour errors. Analysis report presented to Medication Safety Team, the Plannacy of Therapeuties committee. Medication errors are categorized according to the 11 elements in this plan and analysis of these categories helps determine priorities for Medication Safety inditatives. To further improve medication error reporting and identification of trends, Plannacy has been working with the Regulatory department to expand the Verge system's medication correcurence reporting. Starting with 3.2 Chanter 2016 data, medication errors were further analyzed and subdivided beyond the general MERP categories in order to more easily recognize any breakdowns in the medication management system. The goal is to have easily-run reports through Verge that provide more meaningful data.		
Medication use evaluations review ligh risk, ligh use, problem prone meds, including medications associated with 'near misses".			Target Date 2012 Ongoing		Identification of pobblems with medications and develop improvement action plan as necessary. Opiate ADE study looking at severe opiate related ADE's performed in 2009 with findings of High incidence of opiate related ADE's in patients receiving PCA. Six recommendations approved and incidence of opiate related ADE's in patients receiving PCA. Six recommendations approved and preferred in 2012 behavior as the performed in 2012 included fentanyl patch, warfarin, dabguran, and rivaroxaban, Participating in CallENA ADE reduction Initiative to reduce errors from warfarin, adorgeran, and rivaroxaban, Participating in CallENA ADE reduction Initiative to patch, warfarin, dabguran, and rivaroxaban, Participating in CallENA ADE reduction Initiative to patch, warfarin, dabguran, and rivaroxaban, Participating in CallENA ADE reduction Initiative to reduce errors from warfarin over-anticoagulation, severe lopogybcemia and over scaddiston from opiates. DOP is member of CallENA ADE Workgroup which is the planning and implementation group for the state. A pilot study of severe hypoglycemia was performed in December of 2012 that study lead to the formation of the Glyscemic Control Task Force addressing both hypoglycemia and hyperglycemia of runsof that study lead to the formation of the Glyscemic for most patients admitted to the bospital, increased measurement of High ALC on admission, adjustment of insulin in anticipation of steroid dose reduction, mursing, physician and pharmacist education, better notification of NPO status to clinicians and continued measurement and reporting of glucometrics standardized procedure for glycemic measurement and reporting of glucometrics standardized procedure for glycemic measurement at point of care was approved in November 2015 for point-of-care blood sugar testing for all adult patients admitted to SVMH, with ALC to be ordered if patients meet criteria. Data is also being reported through HRET with goals set at being below the HRET (CMS) guideline for a score of 4. Warfarin over auticoa		
Antimicrobial Stewardship		1Q 2017	Complete		Remove IV aztreonam from order sets; restricted use to severe penicillin-allergic patients.		
Antimicrobial Stewardship		3Q 2017	Complete		Remove pantoprazole (IV and PO) from general admissions order set.		
Antimicrobial Stewardship		2019			Add Weight based IV cefazolin to prophylactic antibiotic order set to include all doses including 3 gram to be prepared by the OR staff		

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