

March 7, 2024

NOTICE

The Board of Directors of the Kaweah Delta Health Care District will meet in an open Academic Development Committee meeting at 4:00PM on Wednesday, March 13, 2024 in the Kaweah Health Medical Center – Support Services Building Copper Conference Room (2nd Floor) 520 West Mineral King Avenue.

All Kaweah Delta Health Care District regular board meeting and committee meeting notices and agendas are posted 72 hours prior to meetings (special meetings are posted 24 hours prior to meetings) in the Kaweah Health Medical Center, Mineral King Wing entry corridor between the Mineral King lobby and the Emergency Department waiting room.

The disclosable public records related to agendas are available for public inspection at Kaweah Health Medical Center – Acequia Wing, Executive Offices (Administration Department) {1st floor}, 400 West Mineral King Avenue, Visalia, CA and on the Kaweah Delta Health Care District web page https://www.kaweahhealth.org.

KAWEAH DELTA HEALTH CARE DISTRICT David Francis, Secretary/Treasurer

Kelsie K. Davis Board Clerk, Executive Assistant to CEO

DISTRIBUTION: Governing Board Legal Counsel Executive Team Chief of Staff <u>http://www.kaweahhealth.org</u>

400 West Mineral King Avenue · Visalia, CA · (559) 624 2000 · www.kaweahdelta.org

KAWEAH DELTA HEALTH CARE DISTRICT BOARD OF DIRECTORS ACADEMIC DEVELOPMENT

Wednesday March 13, 2024

Kaweah Health Support Services Building 520 West Mineral King – Copper Conference Room (2nd floor)

ATTENDING: Directors: Ambar Rodriguez (chair) & Mike Olmos; Lori Winston, M.D., Chief of Medical Education & Designated Institutional Official; Gary Herbst, CEO; Keri Noeske, CNO; Amy Shaver, Director of GME; Krystal De Azevedo, Manager of GME; James McNulty, Director of Pharmacy Services, Sean Oldroyd, DO; Mara Lawson; Lydia Marquez, Executive Assistant to the Chief of Medical Education & Designated Institutional Official, Recording

OPEN MEETING – 4:00PM

CALL TO ORDER – Ambar Rodriguez

Public/Medical Staff participation – Members of the public may comment on agenda items before action is taken and after it is discussed by the Board. Each speaker will be allowed five minutes. Members of the public wishing to address the Board concerning items not on the agenda and within the jurisdictions of the Board are requested to identify themselves at this time. For those who are unable to attend the beginning of the Board meeting during the public participation segment but would like to address the Board, please contact the Board Clerk (Kelsie Davis 559-624-2330) or kedavis@kaweahhealth.org to make arrangements to address the Board.

- 1. <u>CLINICAL EDUCATION</u> Presentation of the Nursing Preceptor Program at Kaweah Health. Mara Lawson, RN, Director of Clinical Education, Nursing Professional Development Practitioner
- 2. <u>PHARMACY RESIDENCY PROGRAM ANNUAL PROGRAM REVIEW</u> Nicole Gann, Inpatient Pharmacy Clinical Manager & Cory Nelson, Ambulatory Pharmacy Manager

ADJOURN – Ambar Rodriguez

In compliance with the Americans with Disabilities Act, if you need special assistance to participate at this meeting, please contact the Board Clerk (559) 624-2330. Notification 48 hours prior to the meeting will enable the District to make reasonable arrangements to ensure accessibility to the Kaweah Delta Health Care District Board of Directors meeting.

Mike Olmos – Zone I	Lynn Havard Mirviss – Zone II	Dean Levitan, MD –	David Francis – Zone IV	Ambar Rodriguez – Zone V
President	Vice President	Zone III	Secretary/Treasurer	Board Member
		Board Member	-	

MISSION: Health is our Passion. Excellence is our Focus. Compassion is our Promise.

Kaweah Delta Health Care District ACADEMIC DEVELOPMENT COMMITTEE

<u>Mission and Purpose</u>: The Academic Development Committee of the Board serves to strengthen our institutional pillar of empowering through education. Kaweah is a teaching health care organization and education is the foundation that enables Kaweah's teams to provide world-class care to our community in a constantly evolving medical climate. Members provide strategic guidance and support for the development and enduring success of our educational programs.

<u>Specific Responsibilities:</u> Review of GMEC oversight of GME including the Annual Institutional Review and annual program evaluations for all residency programs. Provide oversight of Annual American Society of Health System Pharmacists program reviews. Annual budget review and feasibility assessments for new & expanding programs. Collaborate with the Human Resources department and help with enterprise strategies for the education of our workforce. Monitor program retention and attrition along with compliance with ACGME, ABMS, CMS, ASHP and the Joint Commission. This committee will also serve to foster educational alignment with institutional goals and metrics.

3.13.24 Agenda:

Clinical Education - Presentation of Nursing Preceptor Program at Kaweah Health – Mara Lawson, RN, Director of Clinical Education, Nursing Professional Development Practitioner

Pharmacy Residency Program Annual Program Review – Nicole Gann, Inpatient Pharmacy Clinical Manager & Cory Nelson, Ambulatory Pharmacy Manager

Team Nursing Model Clinical Education's Role



Background

- Industry moved away from LVNs in acute care
- Nursing shortage since early 2000s compounded by COVID pandemic
- RN contract labor costs not sustainable
- Nurse to patient ratio impacts patient care





Challenges

- Staff memory of why we went away from LVNs
- Unaware of what LVNs learn in school
- Lack of trust "It's my license"
- Current workforce consists of many new nurses
- LVNs changing from SNF to Acute Care mindset
- Change Fatigue!







Our Process Research

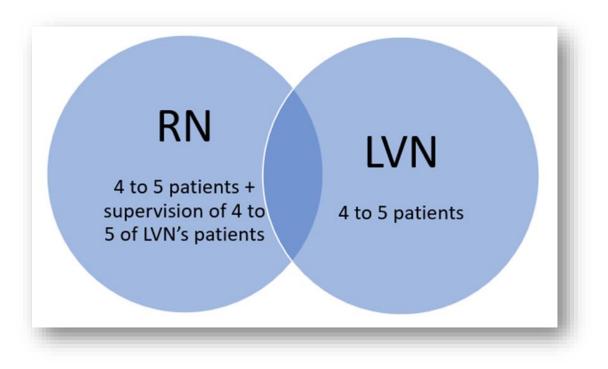
- Outside the Walls
 - What are other organizations doing?
 - Locally & nationwide
- Scope of practice
 - Consulted BRN & BVNPT
 - Internal scope more restrictive
- Input from front line nurses
 - Things to consider
- Workflows for all units
- Failure Mode Effect Analysis (FMEA)





Our Process CREATE

- <u>New model</u>: 1 RN + 1LVN = Team Nursing
- Standardize orientation checklists (RN & LVN)
- Delegation Guidelines document (Yes/No)
- Nursing workflows
- Classes for RNs & LVNs Director support
- Kaweah Compass page to house resources







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Clinical Education

Home

Clinical Education Request

AHA/CPR Information AHA Class Schedules Ongoing Monthly Education Clinical Orientation Team Nursing Resources Team Nursing Video Team Nursing Powerpoint Team Nursing Tools

KHNRP

Nursing Service Line Resources 🗸



Clinical Education Request



Questions?

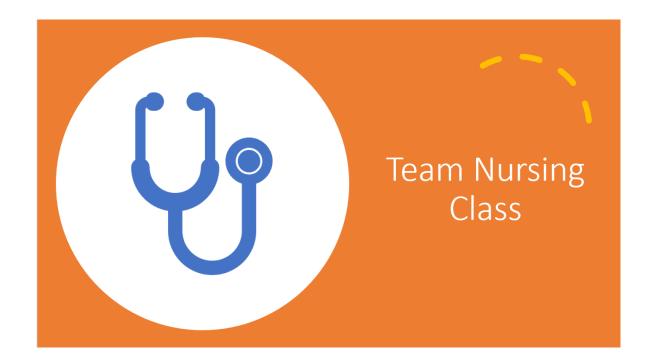
Contact Information

Clinical Education (559) 624-2426



More than medicine. Life.

Our Process Create



Agenda

- Why We're Here
- Orientation Plan
- Scope of Practice
- Delegation
- Workflow
- Patient Care Scenarios



Our Process Change

- Orientation for existing break relief LVNs
 - Additional training for skills they didn't receive (central lines, handoff report, etc.)
- Sustainability:
 - Adding team nursing training to orientation plans for new nurses
 - Policies & resources RN to Licensed Nurse
 - RN only items
 - Registered Nurse Residency Program → Licensed Nurse Residency Program

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RESPONSES (TES	104	LVN	CBA	COMMENTS
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Identification of Plan of Care	Yes	No.	No.	
Evaluation of Internet Long	Yes	Ym	142	
Decisionia: Health Placent Decumentation				
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Transfer Assessment	Tes	Test	140	
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Our Process Evaluate

- Team Nursing taskforce
 - Dashboard items
- Survey nurses on team nursing units
- Trialing different models





Strengths

- Input from bedside nurses
- Utilizing full scope for LVNs
- Team nursing resources added to Kaweah Compass
- Partnership of unit leaders & clinical educators
- Education for existing nurses <u>and</u> new hires
- Expanded Nurse Residency Program
- Increased LVN pay to compensate for increased responsibility
- LVNs motivated to go back to school to become RNs because of team nursing





Weaknesses

- TIME removed a lot of educators from normal duties
- Not fully staffed for LVN or RN positions
- Not popular model amongst nurses





Opportunities

- Expand Preceptor Class to include LVNs
- Expand Clinical Education to include LVN
- Change culture of our workforce to be supportive of team nursing





Threats

- Recruiting RNs & LVNs into team nursing model
- Retention of current staff
- LVNs not respected by some staff for their scope of practice & abilities
- LVN perception of doing the same work as RNs for less pay
- High patient acuities and high census makes this model challenging





Live with passion.

Health is our passion. Excellence is our focus. Compassion is our promise.



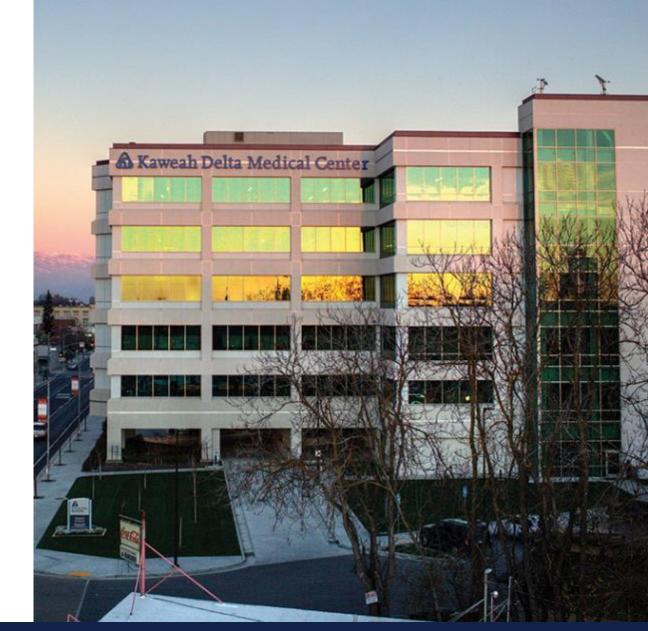
Pharmacy Residency Programs

PGY1 Pharmacy Practice and PGY2 Ambulatory Care March 2024



Objectives

- Understand pharmacy training pathway
- Understand pharmacy residency accreditation
- Review Kaweah Health Pharmacy Residencies
- Assess current and future state of each pharmacy residency program
- Review value of pharmacy residencies to organization







Training

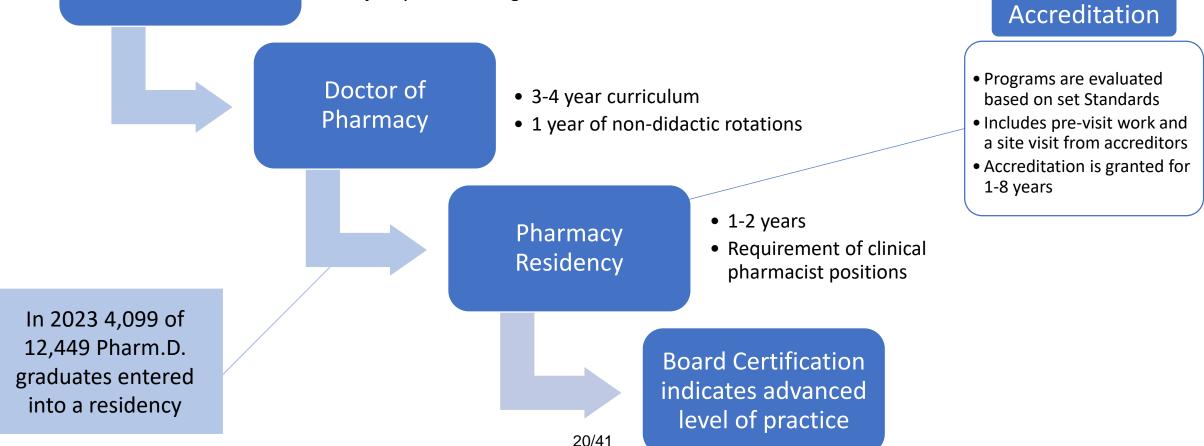
Pre-pharmacy 2-4 years of focused

undergraduate training

Majority have BS degree

pharmacists advancing healthcare*

Residency Accreditation





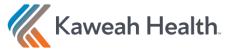
Pharmacy Residency

PGY1 Pharmacy Practice Residency

- One-year residency programs designed to develop clinical pharmacists responsible for medication-related care of patients with a wide-range of conditions
- Graduates are eligible for board certification and for PGY2 pharmacy residency training

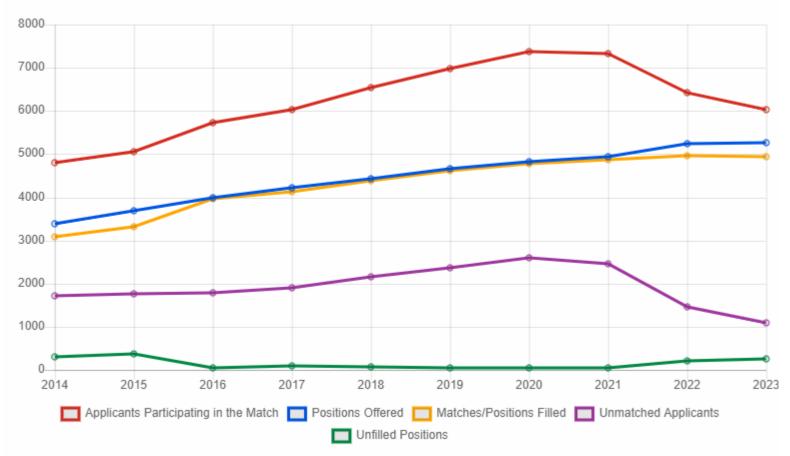
PGY2 Residency Programs

- One-year residency program designed to build upon PGY1 while focusing in a particular area of practice
- Examples Include: Ambulatory Care, Critical Care, Emergency Medicine, Infectious Disease, Oncology, Pain and Palliative Care, Administration



Pharmacy Residency

Match Trends





2023: 6,019 Candidates competing for 5,256 Positions Nationwide

Note: Excludes positions filled in the Early Commitment Process.

PGY1 Pharmacy Practice

Program Overview

- o 2 Pharmacy Residents
 - Evidenced based practice
 - Practice leadership
- ASHP Accreditation Granted
 - October 2023
 - Pending final accreditation length

- Program Graduation Requires
 - Staffing Requirement
 (340 hours per resident)
 - Research/Quality
 Improvement Project
 - Teaching Certificate Program
 - Formulary Projects



Program Structure

Hospital & Department Orientation (3 weeks)

Core Rotations:

- Ambulatory Care (4 weeks)
- Pharmacy Practice Management (4 weeks)
- Infectious Diseases (4 weeks)
- Internal Medicine 1 (4 weeks)
- Internal Medicine 2 (weeks)
- Critical Care (4 weeks)
- Pain Management (4 weeks)
- Emergency Medicine (4 weeks)

Longitudinal Experiences:

- o Medical Emergency Response
- Formulary Management
- Residency Project
- Staffing
- Teaching Certificate Program





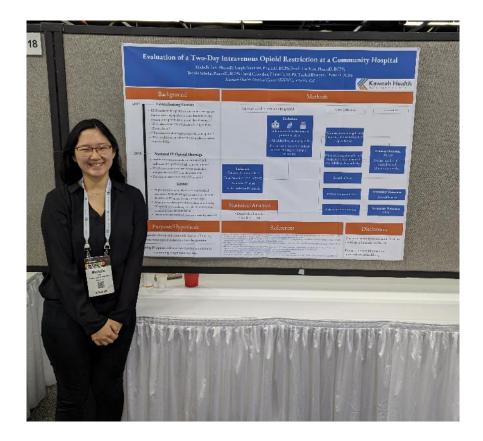
Program Structure

Project Work

- \circ 2 half days per rotation
- \circ Month of December
 - Includes ASHP Mid-year, Project Days, PTO

Electives (3 x 4 weeks)

- o Anemia Management
- Advanced Pain
- Anticoagulation (inpatient)
- Critical Care II
- Drug Information
- Emergency Medicine II
- Informatics
- Pediatrics/NICU





PGY1 Program Structure Yearly Snapshot

		Resident 1	Resident 2					Rotations	Portfolios
	2022-23	B etetic ::::	Sahadulad		Assigned Designs by Manth		Required Rotations:	Residency Portfolios	
Week	2022-23	Rotations	Scheduled	Med Emerg Pager Schedule	Assigned Projects by Month	Resident Stat	ffing Schedule	Orientation	must be updated by the
1	June 27 - July 1	Pharmacy	Pharmacy		ACLS	Resident 1	Resident 2	Infectious Diseases Practice Managemt	resident on a regular basis. RPD will
2	July 4 - July 8	Orientation	Orientation	a ng			7/9-7/10	Critical Care	monitor the resident to
3	July 11 - July 15			s a s	Start Recitations			Internal Med I & II	ensure portfolios are
4	July 18 - July 22	ID	Internal Med 1	1	One Formal Presentation	7/23 - 7/24		Pain Management Emergency Medicine	kept up to date. Residents will be given
5	July 25 - July 29	UI	5T/4T	1	Assign Monograph/MUE		7/30 - 7/31	Ambulatory Care	a regularly scheduled
6	Aug 1 - Aug 5			1	Assign Research Project			Longitudinal Exp:	time to ensure updates
7	Aug 8 - Aug 12			2	Start Staffing Component	8/13-8/14		Staffing	are completed.
8	Aug 15 - Aug 19	Internal Med 1	ID	2	One Formal Presentation		8/20- 8/21	Research Project Formulary Mngmt	
9	Aug 22 - Aug 26	5T/4T		2	Present Research			Med Emergency	
10	Aug 29 - Sept 2			2	Assign Lecture 1	9/3-9/4		Elective Rotations:	
11	Sept 5 - Sept 9		Order Entry	1	Work on Form Project 1		9/10-9/11	(choose 3)	Project Days
12	Sept 12 - Sept 16	Practice Management		1	One Formal Presentation			Acute Coag	Residents will be given
13	Sept 19 - Sept 23	/Project Work	Elective 1	1	Submit Research IRB	9/24/1945		Emergency Medicine Drug Information	2 half- day per month to work on longitudinal
14	Sept 26 - Sept 30		Pediatrics/NICU	1	Work on Lecture /Form 1		10/1-10/2	Informatics	related projects
15	Oct 3 - Oct 7	Order Entry		2	Poster Abstract Due			Advanced Pain	(research, service,
16	Oct 10 - Oct 14			2	One Formal Presentation	10/15-10/16		Pediatrics	formulary)
17	Oct 17 - Oct 21	Amb Care	ED Rotation	2	Work on Form Project 1			Anemia Management Ambulatory Care	Other
18	Oct 24 - Oct 28	And Gare	LD Rotation	2	Work on Lecture 1		10/29-10/30	Staffing	Residents will
19	Oct 31 - Nov 4			1	Receive IRB Approval	11/5-11/6		Commitment: Every	complete a teaching certificate through
20	Nov 7 - Nov 11			1	One Formal Presentation			3rd weekend	ASHP prepared by the
21	Nov 14 - Nov 18	Elective 1	Pain Management	1	Start Data Collection		11/19 - 11/20	Estimated start time: July	University of Kentucky.
22	Nov 21 - Nov 25	Pediatrics/NICU	4 weeks	1	Work on Lecture /Form 1	11/26-11/27		December Transition:	Residents will have the
23	Nov 28 - Dec 2			1	ASHP Poster Draft Due			These 4 weeks will be	opportunity to precept a pharmacy student
24	Dec 5 - Dec 9	ASHP	ASHP	None	Form Project 1 Due		12/10-12/11	reserved as time to	during at least one
25	Dec 12 - Dec 16	Pharmacy	Pharmacy	2	Poster at ASHP	12/17-12/18		attend ASHP, work on research project;	learning experience.
	Dec 19 - Dec 23	Operations	Operations	1	Lecture 1 Due			operations training and	Elective rotations may
	Dec 26 - Dec 30	PTO	РТО	None	Data Collection Research		12/30 - 1/1	project follow up;	be extended to 6 weeks to allow for the
28	Jan 2 - Jan 6	Elective 2		1	One Formal Presentation	1/7-1/8		confirm future learning	resident to further
29	Jan 9 - Jan 13	Drug	Cricital Care	Care 1	Assign Lecture 2		1/14-1/15	experiences ; schedule and take PTO	customize their
30	Jan 16 - Jan 20	Information		1	Assign Form Proj 2				learning experiences.
31	Jan 23 - Jan 27			1	Data Collection Research	Staffing		-	
32	Jan 30 - Feb 3			2	One Formal Presentation		Staffing	4	
33	Feb 6 - Feb 10	Cricital Care	Amb Care	2	Work on Lecture 2			-	
	Feb 13 - Feb 17	-		2	Work on Form Project 2	Staffing		-	
	Feb 20 - Feb 24			2	West State Abs Due		Staffing	4	
36	Feb 27 - March 3		Practice	1	One Formal Presentation	a . <i>m</i>	ł – – – – – – – – – – – – – – – – – – –	4	
37	March 6 - March 10	Pain Management	Management	1	Work on Lecture 2	Staffing	01-77	4	Presentations
38	March 13 - March 17	wanagement	/Project Work	1	Work on Form Project 2		Staffing	4	1 presentation per rotation (excl
39	March 20 - March 24			1	Draft PPT Due Research	01-17		4	conc/long); ASHP
40	March 27 - March 31		Internal Med 2	2	One Formal Presentation	Staffing	Sta //	4	poster at Mid-Year ; 2-3
41	April 3 - April 7	ED Rotation	3W	2	Lecture 2 Due		Staffing	4	didactic lectures
42	April 10 - April 14			2	Work on Form Project 2 PPT Present KDHCD	Cto #		4	(teaching certificate), Formal presentation
43	April 17 - April 21			2		Staffing	Staffin a	4	research project to
44 45	April 24 - April 28	Elective C		1	One Formal Presentation		Staffing	4	KHMC staff, Sierra
	May 1 - May 5	Elective 3 ED II	Elective 2 Informatics	1	Form Project 2 Due	Ctaffin a		4	Society (CSHP) &
	May 8 - May 12		mormanos	1	PPT at SSHP	Staffing		4	WSC; Other presentations may be
	May 15 - May 19	WERC/Resident	WEDC/Droinest	1 Nana	Draft Manscript Due One Formal Presentation		Stoffing	4	assigned by preceptor
	May 22 - May 26	WSRC/Project	WSRC/Project	None	Western States PPT	Staffing	Staffing	4	PRN; Substitution of
49	May 29 - June 2	Int Med 2	Elective 3	2		Staffing		4	project for presentation
50	June 5 - June 9	зw	Advanced	2	Teaching Portfolio Manuscript Due	Staffing	Staffin -	4	with approval by preceptor & RPD (limit
51	June 12 - June 16	-	Pain/Palliative	2	Manuscript Due Wrap up all Evals	Staffing	Staffing	4	2X)
52	June 19 - June 23 Last Day	Broject Wraz UD	Project WrapUP	2	wrap up all Evais	34 shifts	34 shifts	4	
	Lasi Day	r loject wrap0P	r toject wrap0P			JH 511115	JH 5111115	<u></u>	



- Strong clinical acute care experiences in a variety of settings

- Talented and experienced preceptors

- Improves employee satisfaction & provides professional development

- Partnerships with UCSF strengthens resident experience

- Team rounding limited to certain patient care units

- Difficulty recruiting and retaining to rural area

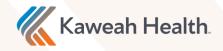
S W PGY1

- KH has extensive medical residency programs to further integrate training

- Almost 65% KH retention rate of residents after completion of residency

 Current economic climate has caused a decrease in resident applicant pool (ultimately impacts clinical pharmacist recruitment)

- Decreased # of inpatient jobs after residency completed



Ambulatory Care PGY2

- First PGY2 program in the Central Valley
 - 2018-2019 Residency Year
- ASHP Accreditation Granted
 - July 2, 2018
 - Anticipated next accreditation: May
- Early Commitment option for PGY1s interested in PGY2



- Program Graduation Requires
 - Research Project
 - Business Plan for a Pharmacy Service Line
 - Staffing Hours coverage of pharmacist shifts



PGY2

- <u>Required Block Rotations (4 d/w)</u>:
 - Family Medicine (8 weeks)
 - Specialty Clinic (8 weeks)
 - Rural Health Clinic (8 weeks)
- <u>Required Block Rotations (2 d/w)</u>:
 - Pain Management I (12 weeks)
 - Primary Care (12 weeks)

Week	Date		Resident					
1	July 11-15							
2	July 18-22	Orientation (3 weeks)			1			
3	July 25-23				i i			
4	Aug 1-5							
5	Aug 8-12	1						
6	Aug 15-19]						
7	Aug 22-26	Rural Hea	lth Clinics					
8	Aug 29-Sep 2	(8 weeks, 4	days/week)					
9	Sept 5-9]						
10	Sept 12-16]						
11	Sept 19-23							
12	Sept 26-30							
13	Oct 3-7							
14	Oct 10-14							
15	Oct 17-21	Family N	ledicine	-				
16	Oct 24-28	(8 weeks, 4	days/week)	na				
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29	Jan 23-27	. ve	š	ect		43	May 1-5	, ě
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31	Feb 6-10			Р	1/2	45	May 15-19	ary Care 2 days/week)
						46	May 22-26	ar) 2





PGY2

- o <u>Required Longitudinal</u>:
 - Staffing (1/2 day per week)
 - Practice Management and Leadership
 - Scholarship and Teaching
- <u>Elective Rotations (2 d/w)</u>:
 - Pain Management II
 - Cardiology
 - Nephrology
 - Endocrinology
 - Will explore other options based on resident interest

Week	Date	Resident					
1	July 11-15		0-1				
2	July 18-22]	Orientation (3 weeks)				
3	July 25-23]	(3 weeks)				
4	Aug 1-5						
5	Aug 8-12	1					
6	Aug 15-19]					
7	Aug 22-26	Rural Hea	Ith Clinics				
8	Aug 29-Sep 2	(8 weeks, 4	days/week)				
9	Sept 5-9	1					
10	Sept 12-16]					
11	Sept 19-23]					
12	Sept 26-30						
13	Oct 3-7]					
14	Oct 10-14]					
15	Oct 17-21	Family N	Aedicine	-			
16	Oct 24-28	(8 weeks, 4	days/week)	na			
17	Oct 31-Nov 4			ipn			
18	Nov 7-11			git		32	Feb 13-17
19	Nov 14-18			6		33	Feb 20-24
20	Nov 21-25	+	+	e,		34	Feb 27-Mar
21	Nov 28-Dec 2	Σ	Σ	<u> </u>	al)	35	Mar 6-10
22	Dec 5-9	Ŭ Ŭ	ĕ	é	di	36	Mar 13-17
23	Dec 12-16	*	+ *	ativ	itu	37	Mar 20-24
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31	Feb 6-10	~	-	Р.	1/2	45	May 15-19
						46	May 22-26
1						47	May 29-Jun

32 33 34 35 36 37 38 39	Feb 13-17 Feb 20-24 Feb 27-Mar 3 Mar 6-10 Mar 13-17 Mar 20-24 Mar 27-31 Apr 3-7	Specialt (8 weeks, 4	,	Practice Management and	2Staffing (
40 41 42 43 44 45 46 47 48 49	Apr 10-14 Apr 17-21 Apr 24-28 May 1-5 May 8-12 May 15-19 May 22-26 May 29-Jun 2 Jun 5-9 Jun 12-16	Primary Care (13 weeks, 2 days/week)	Elective 2 (10 weeks, 2 days/week)	Pra	
50 51 52	Jun 19-23 Jun 26-30 Jul 3-7		Flex Time		



- Strong clinical patient interactions/responsibility

- Talented and well-trained preceptor team
- Variety of practice settings
- Partnerships with UCSF and UMN to strengthen resident experience

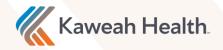
- KH has extensive medical residency programs to further integrate training

- Key Medical Group as potential partners in training
- Could seek partnership with Fresno areas to provide elective opportunities

- Limited elective experiences, especially in specialty areas (MH, ID)
- Moderate interaction with medical residents
- Difficulty recruiting to rural area

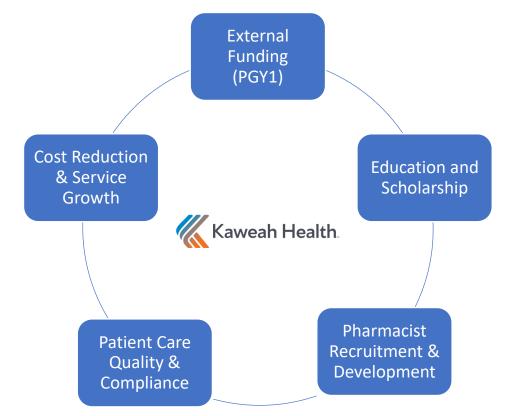
- Kern Medical Center started a PGY2 in Ambulatory Care in 2022

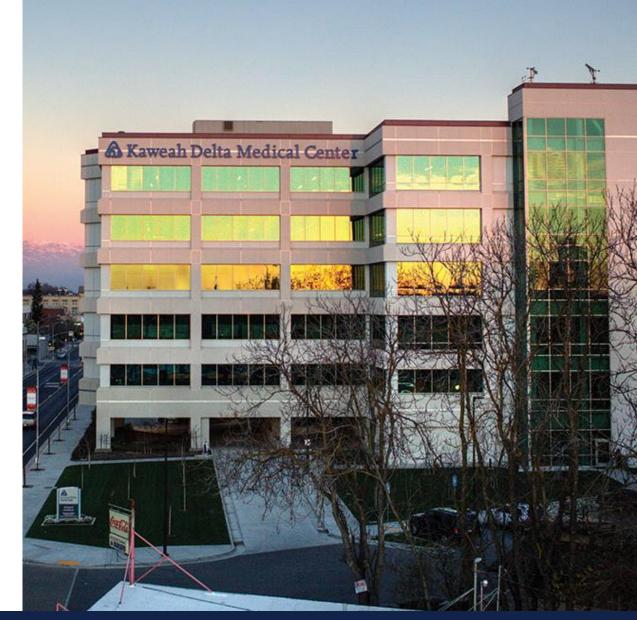
- PGY1 programs with a strong ambulatory care focus



PGY2

Why? Benefits to the Organization







More than medicine. Life.

Pharmacy Resident Value Added

To the Organization and Community

- Supports Patient Care
 - Expands the reach of the current clinical pharmacist as resident can:
 - Attend Code Blues and RRTs
 - Makes recommendations to improve medication therapy
 - Complete consults, therapeutic interchanges and automatic adjustment
 - Expands outpatient clinic volume
- Improves the Quality of Health Care Services
 - Completion of residency related quality improvement and/or research projects
 - Example Projects: Implementation of long-acting antipsychotic service line, review of clinical outcomes of pharmacist-managed type-2 diabetes mellitus, Implementation of Cerner smart template to improve consult workflow, Impact of ED RPh interventions on use of LMWH over UFH
- Supports Medical, Nursing and Patient Satisfaction
 - Resource for medication information and medication therapy optimization
 - Participate in patient counseling or medication history review
 - Provide educational in-services
 - Reduction in complex visits for primary care providers
 - Improved patient care experience for patients with multiple chronic conditions/medications
- Cost Reduction
 - Reduce pharmacist recruitment costs by retaining current residents into open pharmacist positions
 - Residents cover inpatient pharmacist shifts on the weekends (680 hours/year) and ½ day per week outpatient (208 hours/year)
- Professional Development, Education and Scholarship
 - Provides for development of leadership/clinical skills of current pharmacist staff through precepting
 - Allows current pharmacist staff to contribute to research and/or quality improvement projects w/ opportunity for publications
 - Journal Club and Topic/Case Presentations for continuing education to current pharmacist staff

Kaweah Health

Example Resident Research

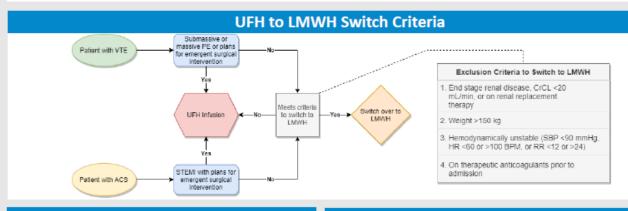
The Impact of Emergency Department Pharmacist Interventions on the Use of Low Molecular Weight Heparin over Unfractionated Heparin to Reduce Medication Error Rates

Jeanny An, PharmD; Kathryn Smith, PharmD, BCPS; Savannah Frady Lail, PharmD, BCPS, BCCCP; Christopher Mahaffey, PharmD, BCPS Kaweah Health Medical Center, Visalia, CA

Narrow therapeutic range

Background

- Unfractionated heparin (UFH) infusion and low molecular weight heparin (LMWH) are guideline recommended and FDA approved for acute coronary syndrome (ACS) or venous thromboembolism (VTE) treatment
- UFH infusions are prescribed more frequently compared to LMWH despite unfavorable characteristics that can lead to adverse outcomes and errors^{1,2}:
- LMWH is a weight-based once or twice daily subcutaneous injection that does not require routine monitoring of anticoagulation activity³
- LMWH has lower medication error risk, and with the added ease of administration, may be initiated quicker in select patients with ACS or VTE
- Pharmacist-led effort to decrease error rates was implemented by recommending a LMWH whenever appropriate in patients with ACS or VTE



1.

2

3.

Research Purpose and Outcomes

Purpose:

- To quantify the ED pharmacists' interventions regarding the choice of initial parenteral anticoagulant and assess opportunities for optimization of prescribing practices for patients with ACS or VTE Primary Outcome:
- The number of medication errors potentially prevented by the ED pharmacy team by recommending a switch from UFH infusion to LMWH in select ACS or VTE patients

Secondary Outcomes:

- Number of UFH infusions ordered for patients that met the criteria to switch to a LMWH that could have been intervened on
- · Difference in time to initiation of anticoagulation

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Disclosures

Authors of this presentation have the following to disclose concerning possible financial or personal relationships with commercial entities that may have a direct or indirect interest in the subject matter of this presentation.

Jeanny An: Nothing to disclose Kathryn Smith: Nothing to disclose Savannah Frady Lail: Nothing to disclose Christopher Mahaffey: Nothing to disclose Please direct correspondence to Jeanny An, PharmD 400 W Mineral King Ave Visalia, CA 93291 Jean@kaweahhealth.org

Methods

DESIGN: Retrospective, quality improvement, medication use evaluation (MUE)

INCLUSION CRITERIA:

- Adult patients 18 years or older presenting to the ED from November 1, 2020 to September 30, 2021
- Confirmed diagnosis of ACS or VTE
- ACS defined as unstable angina, non-ST-elevation myocardial infarction, ST-elevation myocardial infarction
- VTE defined as pulmonary embolism or deep vein thrombosis

EXCLUSION CRITERIA:

- · Patients admitted for non-ACS or VTE related problems
- · Vulnerable patient populations such as children, pregnant women, and prisoners

PRIMARY OUTCOME DATA COLLECTION:

· Total number of pharmacy interventions made that switched UFH infusion to LMWH

SECONDARY OUTCOME DATA COLLECTION:

- Age, sex, weight, initial coagulation lab markers, initial indication, anticoagulation medication prescribed, baseline creatinine clearance (CrCL), history of ACS or VTE
- · Hemodynamic status on admission, time to initiation of anticoagulation

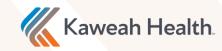
MUE/HEPARIN AUDIT DATA COLLECTION:

- · Diagnosis, unit location, weight used to calculate heparin dose
- · Review MIDAS safety reporting system for known errors
- Medication errors to be identified with heparin infusions:
- · Incorrect weight programmed and used to calculate initial bolus and maintenance dose
- Incorrect initial heparin bolus dose given
- · Not ordering PTT levels at the correct time or levels not drawn on time
- Inappropriate adjustment of heparin infusion rates
- Not administering the needed heparin boluses

Results/Conclusions

In progress





Poster # 1128614

Implementation of a Cerner Smart Template Powerform to Improve Pharmacist Consult Workflow

Rvan Rana, PharmD; Steven Richardson, PharmD, BCIDP, AAHIVP; Nicole Gann, PharmD, BCPS; Blake Bartlett, PharmD; Kelvin Tran, PharmD Kaweah Health Medical Center, Visalia, CA

Background

- At Kaweah Health, the value of pharmacist participation in the vancomycin consult service is apparent, however, the current consult workflow process, as mapped in Figure 1, could benefit from optimization.
- There are many redundant steps in the current documentation process and the data mining in order to complete the vancomycin work up is time consuming.
- The goal of this project is to analyze current workflow and then redesign and implement a new workflow to support completion of vancomycin consults utilizing new Smart Template Powerform functionality within the EHR thus eliminating unnecessary steps and streamlining workflow.
- Improvement of workflow could be beneficial to optimizing the efficiency of the daily activities performed by the clinical pharmacists, potentially capturing additional time in the pharmacist day for continued focus on other essential clinical pharmacist activities
- The results of this study could show the benefit of implementing a new Powerform into the pharmacists' workflow and could lead to further improvement of the EHR system to provide pharmacists time to focus on other clinical aspects of their job.

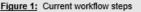
Objectives

- Purpose.
- Improve the efficiency of current pharmacist workflow for vancomycin consult management Objectives:
- Primary: Reduce redundancy in the documentation process and decrease manual data mining of clinical patient information measured by the time to complete a vancomycin consult
- <u>Secondary</u>: Increase pharmacist work satisfaction with the vancomycin consult service

Acknowledgements

- The primary research team would like to thank the individuals and institutions involved with this pharmacy research opportunity from Kaweah Health Medical Center
- The primary study investigators have no relevant financial or nonfinancial relationships to disclose. All images are free of copyright & approved for commercial use.
- Contact information: Ryan Rana (rrana@kaweahhealth.org)





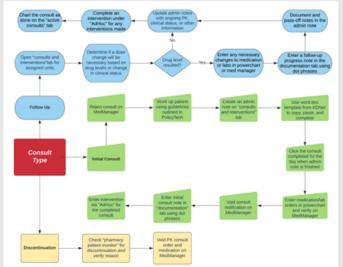
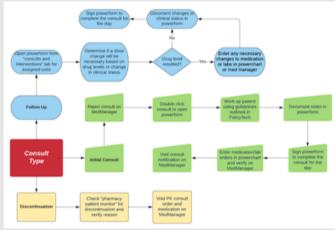


Figure 2: Proposed new workflow steps are mapped out below removing many of the duplicate documentation steps.



Study Design

- This quality improvement project will involve implementation of a new Powerform with Smart Template functionality within the EHR system aimed to improve and streamline the pharmacist workflow process.
- Pre- and post- implementation measurements of the time to complete a vancomvcin consult as well as differences in work satisfaction of the pharmacist will be measured and reported as part of the implementation process.

Primary objective:

- Data collection of the time to complete a consult will be accomplished using completed pharmacist intervention forms on the EHR during a two-week window both before and after implementation of the new form template.
- Pre-implementation data will be pulled using an existing KD Hub Discern Report while post-implementation data will be pulled from a new KD Hub Discern Report compatible with the new Powerform.
- Data points to be collected include the following: date, type of consult, time started, time completed, estimated time to complete, patient floor, pharmacist shift, and pharmacist name

Secondary objective

 Data collection for work satisfaction will be accomplished using an electronic survey tool and emailed pre and post implementation of the new workflow to all pharmacists participating in the vancomycin consult workflow and the difference in scores will be reported as an outcome measure of the intervention

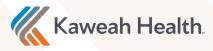
Results

- · Initial facilitation meeting to determine new workflow has been completed.
- Pre-implementation surveys will be sent out in December. Powerform implementation will go live in the new year with post-implementation surveys to follow

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Implementation of a Standardized Inpatient Electronic Health Record Based Oral Chemotherapy Monitoring Process to Improve Pharmacist Workflow

Elysia Lee PharmD, Mara Miller PharmD. BCPS, Brooke Sabella PharmD, Eva Coulson PharmD. BCPS, Rheta Silvas PharmD, Blake Bartlett PharmD Kaweah Health Medical Center, Visalia, CA

Background

- The utilization of oral chemotherapy (OC) agents has been increasing due to increased market availability of oral agents as well as ease of administration and convenience for the patient.
- A majority of OC medications utilized at Kaweah Health Medical Center are non-formulary agents.
- Institutional guidance at Kaweah Health Medical Center defines the necessity of pharmacist involvement in OC monitoring.
- Current policy defines specific agents that require review by two chemotherapy competent nurses and/or a clinical pharmacist. For agents not specifically listed in the policy, a chemotherapy competent nurse or pharmacist should perform a review to determine if the agent warrants additional review.
- The current procedure for documentation of initial review and monitoring of OC can be optimized.
- Kaweah Health Medical Center has developed PowerForm templates within the electronic health record (EHR) as a means to document assessments, monitoring and interventions for other select medications.

Objectives

- Improve efficiency of pharmacist assessment and documentation for ongoing monitoring of OC medications
- Increase pharmacist work satisfaction through the implementation of an new workflow
- Increase pharmacist compliance with documentation of initial review and ongoing OC monitoring

Disclosures

- The primary study investigators have no relevant financial or nonfinancial relationships to disclose.
- All images are free of copyright and approved for commercial use. Primary contact information: Elysia Lee (elylee@kaweahhealth.org)



Figure 1: Process Map of Current Monitoring Workflow

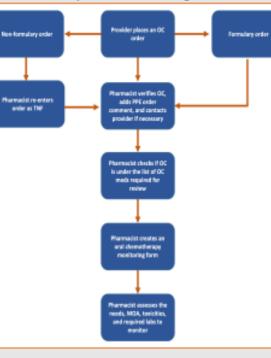
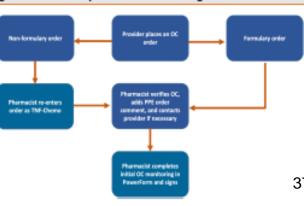


Figure 2: Process Map of Revised Monitoring Workflow



Study Methods

Single center quality improvement project

Outcomes

- Time to complete OC monitoring
- Pharmacist satisfaction with the workflow
- Overall compliance rate of OC precaution order comments and documentation of OC monitoring

Data Analysis

- Data collection for time requirement and pharmacist satisfaction will be collected using an electronic survey tool and emailed pre- and post-implementation of the new workflow to all pharmacists participating in the OC monitoring.
- Data collection for the overall compliance with OC precaution order comments and documentation of OC monitoring will be collected via chart view for a 3 month period pre- and post-implementation of the new workflow.
- Results will be analyzed using descriptive statistics.

Research Timeline

- Pre-implementation surveys sent out in November 2022.
- PowerForm implementation date is to be determined.
- Post-implementation surveys will be completed post-implementation of new monitoring workflow.

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Pharmacy Residency Retention Rates

Class Year	PGY1 Retention Rate	PGY2 Retention Rate
2015	100%	
2016	100%	
2017	50%	
2018	0% [100% PGY2*]	
2019	0% [50% PGY2]	100%
2020	50% [50% PGY2]	n/a
2021	0%	0%
2022	50%	0%
2023	100%	n/a
2024	0% [50% PGY2*]	100%

*Resident retained into KH PGY2 Program



Pharmacist Retention, Development and Satisfaction

- Inpatient Clinical Pharmacists (50 pharmacists)
 - >78% of Pharmacists have completed PGY1 residency
 - 22% of Pharmacist have completed PGY2 residency or Fellowship training in specialty areas
 - >45 % of Pharmacists have obtained BCPS or related certification
- Ambulatory Care Pharmacists (6 pharmacists)
 - 5/6 pharmacist have completed 2 years of post-graduate training
 - 3/6 (3/4 eligible*) board certified (BCACP, BCPS, BCGP, BCPP)
- Highly skilled pharmacists look for job opportunities that include residency programs
- Residency Programs promotes workplace energy, practice reflection, innovation and enhanced focus on quality improvement
- Resident Projects enhance workplace experience
- Retention of current resident offsets recruitment, orientation and training costs

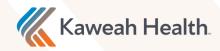


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