

University of Iowa Hospitals and Clinics

UIHC

IOWA 大学研修報告

September 29 - October 12, 2013



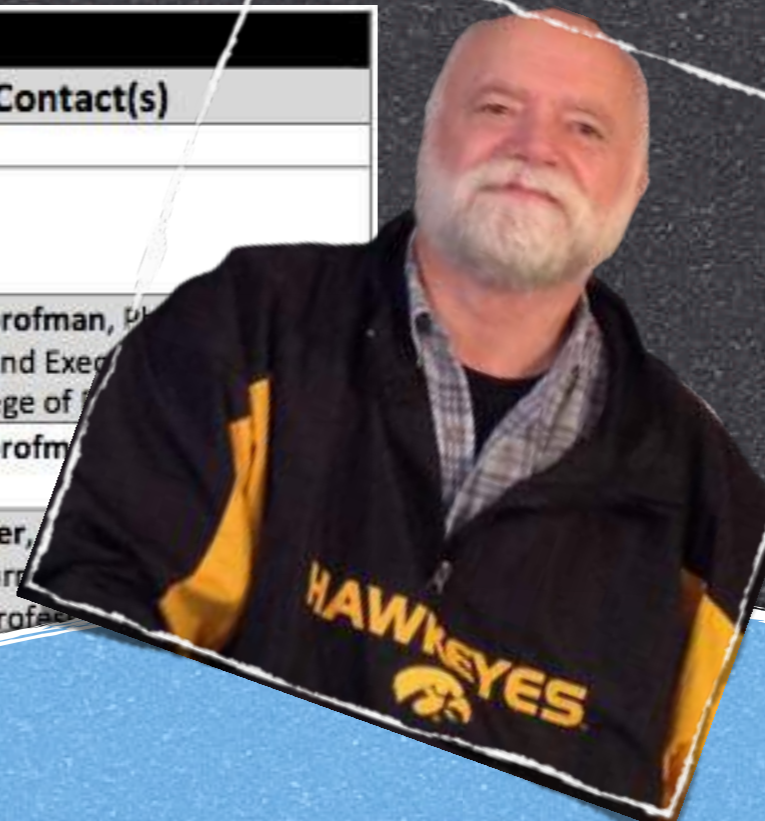
高橋 賢成 (MASA)

外賀 裕次郎 (YUJIRO)

大石 智春 (TOMO)

Day 2

Monday, September 30, 2013				
Start Time	End Time	Activity	Location	Contact(s)
8:30 AM	N/A	Pick-Up at Hotel	Hotel	o Jay Currie
9:00 AM	10:00 AM	Welcome Reception	College of Pharmacy (COP), Room S543	o Jay Currie
10:15 AM	11:15 AM	United States Healthcare System	COP, S543	o Bernard Sorofman, Ph.D. Professor and Executive Dean, College of Pharmacy
11:30 AM	1:00 PM	Lunch	COP, S543	o Bernard Sorofman o Jay Currie
1:00 PM	2:30 PM	Diabetes Mellitus Management	COP, S543	o Katie Horner, Pharm.D. Clinical Pharmacy Assistant Professor
3:00 PM	4:00 PM	UIHC Pharmacy Leadership Team	UIHC	o [Name partially obscured]
4:00 PM	5:00 PM	Campus Tour	Pick-Up at CC101A GH	o Ben Urick, Pharm.D. Ph.D. Student, Health Services Research
5:00 PM	6:00 PM	Free Time		
6:00 PM	N/A	Dinner		o Jay Currie

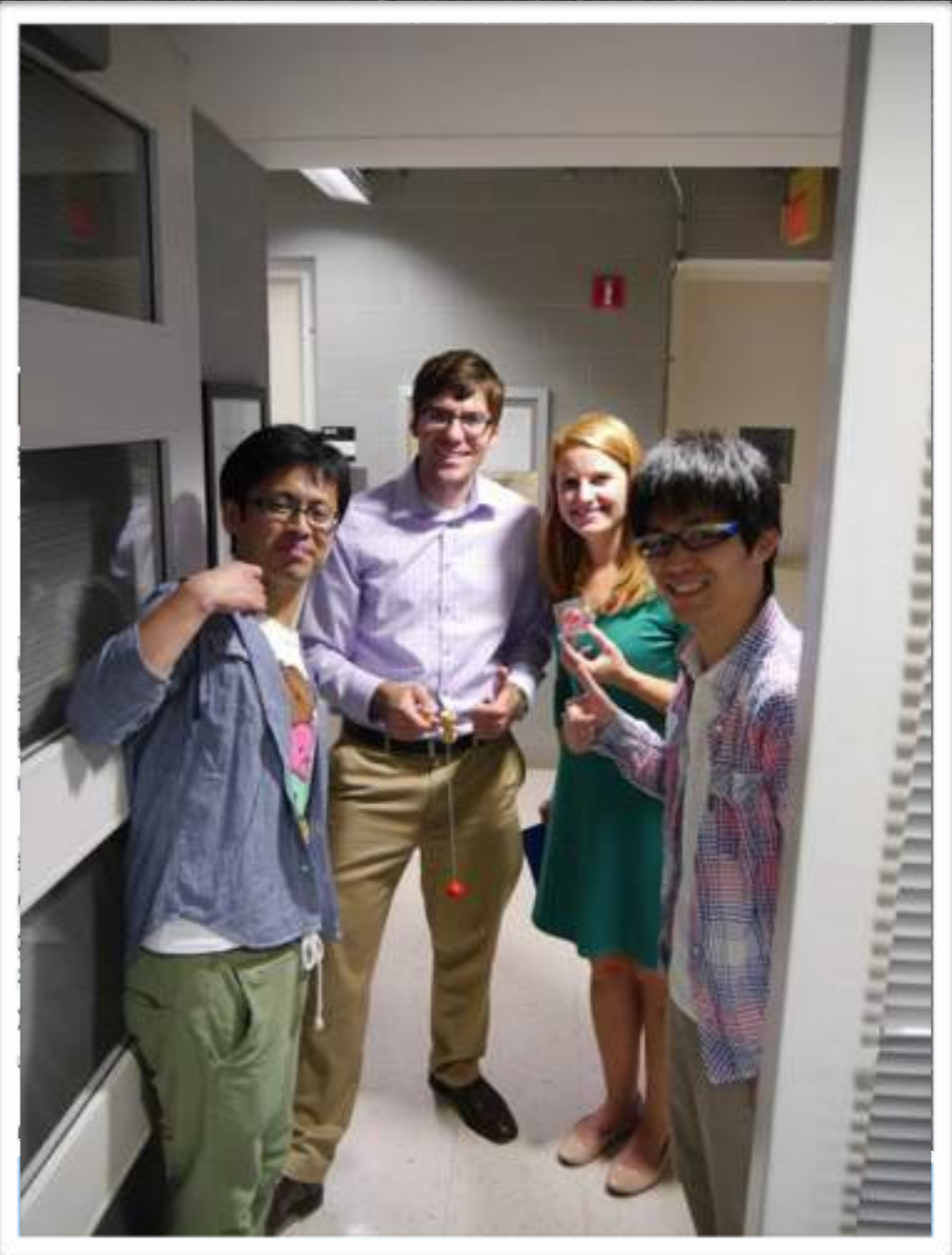


United States Healthcare System

Day 2

Monday, September 30, 2013

Start Time	End Time	Activity	Location	Con
8:30 AM	N/A	Pick-Up at Hotel	Hotel	o Jay Currie
9:00 AM	10:00 AM	Welcome Reception	College of Pharmacy (COP), Room S543	o Jay Currie
10:15 AM	11:15 AM	United States Healthcare System	COP, S543	o Bernard Sorofn Professor and E Dean, College o
11:30 AM	1:00 PM	Lunch	COP, S543	o Bernard Sorofn o Jay Currie
1:00 PM	2:30 PM	Diabetes Mellitus Management	COP, S543	o Katie Horner, P Clinical Pharma Assistant Profes
3:00 PM	4:00 PM	UIHC Pharmacy Leadership Team	UIHC Pharmacy Conference Room, CC101A GH	o Mike Brownlee Chief Pharmacy Associate Dean Professor, COP o Dave Weetman Assistant P Pharm o Lis o
4:00 PM	5:00 PM	Campus Tour	CC101A GH	Ph.D. Studes Research
5:00 PM	6:00 PM	Free Time		
6:00 PM	N/A	Dinner		o Jay Currie



Campus Tour

Day 3

Tuesday, October 1, 2013				
Start Time	End Time	Activity	Location	Contact(s)
7:45 AM	11:00 AM	UIHC Iowa River Landing Clinic	UIHC Iowa River Landing *meet at the staff entrance in the lower level of the parking garage	o Katie Horner
11:00 AM	12:30 PM	Travel to UIHC, Lunch		o Jay Currie
12:30 PM	1:30 PM	Observe Student Immunization Clinic	COP, Banker (115)	o Jay Currie
1:15 PM	2:15 PM	Pharmacy Practice Laboratory Introduction	COP, 216	o Jeff Reist, PharmD, BCPS Assistant Professor (Clinical), COP o Shellie Fravel, PharmD, BCPS Assistant Professor (Clinical), COP
2:30 PM	4:20 PM	Pharmacy Practice Laboratory Class	COP, 219 or 226	o Jeff Reist
		Dinner		o Jay Currie



Anticoagulation Case Management Service

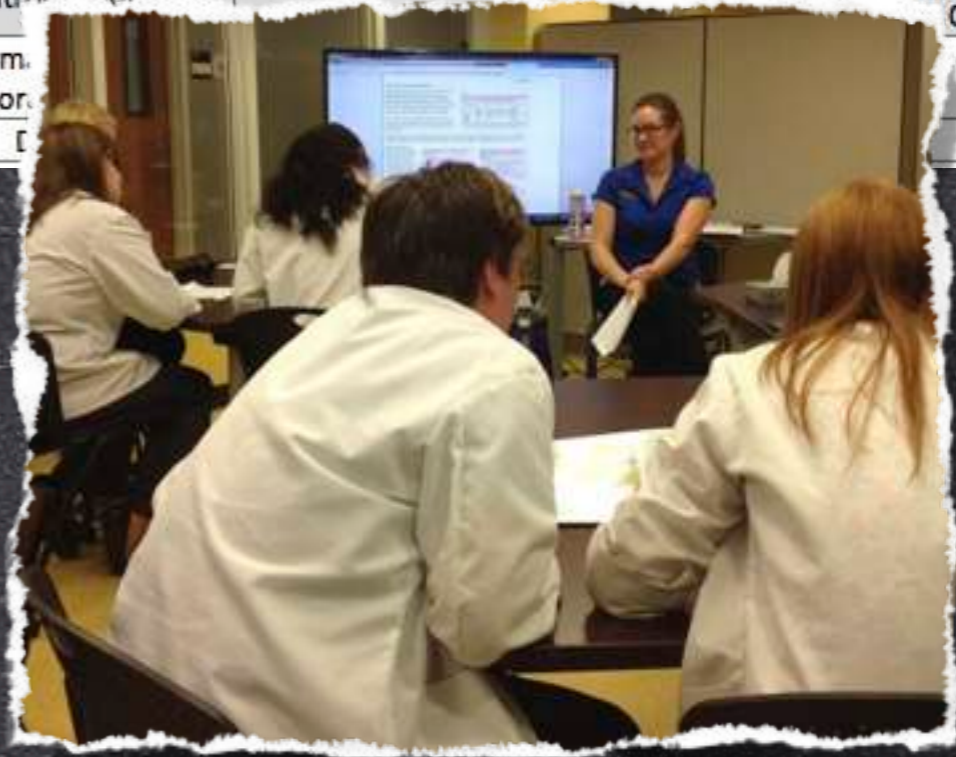


at UIHC IOWA River Landing Clinic



Pharmacy Practice Laboratory

Start Time	End Time	Activity	Location	Contact(s)
7:45 AM	11:00 AM	UIHC Iowa River Landing Clinic	*meet at the staff entrance in the lower level of the parking garage	o Katie Horner
11:00 AM	12:30 PM	Travel to COP		o Jay Currie
12:30 PM	1:30 PM	Observe Student Immunization Clinic	COP, Banker (115)	o Jay Currie
1:15 PM	2:15 PM	Pharmacy Practice Laboratory Introduction	COP, 216	o Jeff Reist, PharmD, BCPS Assistant Professor (Clinical), COP o Shellie Fravel, PharmD, BCPS COP
	4:20 PM	Pharm. Labor.		



Day 4

Wednesday, October 2, 2013				
Start Time	End Time	Activity	Location	Contact(s)
9:30 AM	11:30 AM	4 th Year Student Case Presentation Session	COP, S538	o Jay Currie
11:30 AM	12:30 AM	Lunch/Break		
12:30 PM	4:00 PM	Community Pharmacy Tours	Surrounding Area	o Jay Currie o Stevie Veach, Pharm.D., BCACP Assistant Professor (Clinical) Pharmacist, Liberty Pharmacy
4:00 PM	4:30 PM	Meeting with College of Pharmacy Dean	Dean's Office or Room 114	o Donald Letendre, Pharm.D. Dean and Professor, College of Pharmacy

Day 4

4th Year Student Case Presentation Session

Wednesday, October 12, 2011			
Start Time	End Time	Activity	Location
9:30 AM	11:30 AM	4 th Year Student Case Presentation Session	COP, 5538
11:30 AM	12:30 AM	Lunch/Break	
12:30 PM	4:00 PM	Community Pharmacy Tours	Surrounding Area
4:00 PM	4:30 PM	Meeting with College of Pharmacy Dean	Dean's Office Room 114



Community Pharmacy Tours

Sta
9
11
17
4



Hy-Vee Drugstore
SHINGLES VACCINE AVAILABLE NOW



Day 4

Wednesday, October 2, 2013

Start Time	End Time	Activity	Location
9:30 AM	11:30 AM	4 th Year Student Case Presentation Session	COP, S53
11:30 AM	12:30 AM	Lunch/Break	
12:30 PM	4:00 PM	Community Pharmacy Tours	Surrounding
4:00 PM	4:30 PM	Meeting with College of Pharmacy Dean	Dean's Office Room 11



Meeting with COP Dean

Day 5

Thursday, October 3, 2013				
Start Time	End Time	Activity	Location	Contact(s)
8:15 AM	N/A	Pick-Up at Hotel		o Jay Currie
9:00 AM	11:00 AM	CarePro Home Infusion Site Visit	Cedar Rapids	o Stewart Peterson , Pharm.D., BCPS Clinical Pharmacist, CarePro o Bryce Jackman , R.Ph., BCNSP o Director of Pharmacy, CarePro
11:00 AM	11:45 AM	Travel to College		o Jay Currie
11:45 AM	12:45 PM	Lunch with College Dean	COP, 114	o Donald Letendre o Jay Currie
1:15 PM	3:00 PM?	UIHC Tour	Meet at CC101 GH	o Courtney Gent , Pharm.D. PGY2 Health System Administration Resident, UIHC
3:00 PM	4:00 PM	Break		
4:00 PM	5:00 PM	Medication Reconciliation in the U.S.	COP, 5545	o Stuart Pitman , Pharm.D., BCPS Clinical Pharmacy Specialist, UIHC Assistant Professor (Clinical), COP o Mike Farley , Pharm.D., BCPS Clinical Pharmacy Specialist, Mercy Assistant Professor (Clinical), COP

CarePro Home Infusion Site Visit

Day 5



Thursday, October 3, 2013			
Time	Activity	Location	Contact(s)
	Pick-Up at Hotel		<ul style="list-style-type: none"> o Jay Currie
11:00 AM	CarePro Home Infusion Site Visit	Cedar Rapids	<ul style="list-style-type: none"> o Stewart Peterson, Pharm.D., BCPS Clinical Pharmacist, CarePro o Bryce Jackman, R.Ph., BCNSP Director of Pharmacy, CarePro
11:45 AM	Travel to College		<ul style="list-style-type: none"> o Jay Currie
		COP, 114	<ul style="list-style-type: none"> o Donald Letendre o Jay Currie
		Meet at CC101 GH	<ul style="list-style-type: none"> o Courtney Gent, Pharm.D. PGY2 Health System Administration Resident, UIHC
			<ul style="list-style-type: none"> o Stuart Pitman, Pharm.D., BCPS Clinical Pharmacy Specialist, UIHC Assistant Professor (Clinical COP)



mercy
COP

Day

UIHC Tour



Thursday, October			
	Start Time	Activity	
	N/A	Pick-Up at Hotel	
	11:00 AM	CarePro Home Infusion Site Visit	Cer
11:00 AM	11:45 AM	Travel to College	
11:45 AM	12:45 PM	Lunch with Colleg	
1:15 PM	3:00 PM?	UIHC Tour	
3:00 PM	4:00 PM	Break	
4:00 PM	5:00 PM	Medication Reconciliation in U.S.	

Medication Reconciliation in the U.S.



Day 6

Friday, October 4, 2013

Start Time	End Time	Activity	Location	Contact(s)
7:30 AM	4:30 PM	Cardiovascular Continuing Education Program	Iowa Memorial Union (IMU)	
5:45 PM		Homecoming Parade	Downtown Iowa City	

Day

Cardiovascular Continuing Education Program

Friday, Oct 11			
Start Time	End Time	Activity	Location
7:30 AM	4:30 PM	Cardiovascular Continuing Education Program	Walter Reed Memorial Union (IMU)
5:45 PM		Homecoming Parade	Downtown Iowa



Day 6

Friday, October 4, 2013

Start Time	End Time	Activity	Location	Contact(s)
7:30 AM	4:30 PM	Cardiovascular Continuing Education Program	Iowa Memorial Union (IMU)	
5:45 PM		Homecoming Parade	Downtown Iowa City	

Homecoming Parade





Monday, October 7, 2013				
Start Time	End Time	Activity	Location	Contact(s)
9:00 AM	10:00 AM	Medication Therapy Management		
10:15 AM	11:15 AM	Practice-based Research Essential Tools		
11:30 AM	12:30 PM	Lunch/Practice-based Research Workshop and Examples		Ken Urick, Pharm.D., Ph.D. Student Health Services Research
12:45 PM	1:45 PM	Community Residency Program	COP, S543	o Stevie Veach
2:00 PM	3:30 PM	Anticoagulation	COP, S543	o Deanna McDanel, Pharm.D., BCPS Clinical Pharmacy Specialist, UIHC Associate Professor (Clinical), COP
3:30 PM		Clinical Problem		

Community Residency Program

What is a Pharmacy Residency?

- A pharmacy residency is a training program after graduating from a school of pharmacy.
- Transition from student to pharmacist

What types of residencies are there?

- Post graduate year 1 (PGY1) – general knowledge
 - o Pharmacy Practice (usually hospital or clinic) > 2000 positions offered in 2013
 - o Community pharmacy > 180 positions offered in 2013
- Post graduate year 2 (PGY2) – specialty area About 700 positions in 2013


↳
in

Other information about pharmacy residencies

- Usually lasts 12 months starting in July
- Estimate that 1 year of residency is equivalent learning to 3 to 5 years of practice experience
- Residents are paid a stipend
- Some programs are affiliated with Colleges of Pharmacy
- <http://www.ashp.org/menu/Residents.aspx>

The University of Iowa Pharmacy Residency Programs

- ~ start
- PGY1 Community Pharmacy Residency – 6 community pharmacy locations ⑥
 - PGY1 Pharmacy Practice Residency at The University of Iowa Hospital and Clinics ⑥ → ②
 - PGY1/PGY2 Ambulatory Care Residency at The University of Iowa Hospital and Clinics ③
 - PGY1 Pharmacy Practice Residency at the Veterans Affairs Medical Center ③
 - PGY1 Pharmacy Practice Residency, Waterloo at Northeast Iowa Family Practice Center
 - <http://pharmacy.uiowa.edu/residency-programs>



PGY1 Community Pharmacy Residency Program

The PGY1 Community Pharmacy Residency Program offered by The Department of Pharmacy Practice and Clinical Sciences at The University of Iowa College of Pharmacy is designed to assist postgraduate pharmacists in developing specialized clinical skills in the community pharmacy setting. Established in 1987, the residency is a collaboration of the College and innovative practitioners.

Residency Purpose Statement
The goal of The University of Iowa College of Pharmacy PGY1 Community Pharmacy Residency is to develop necessary skills within the resident pharmacist to: 1) apply advanced practice skills to provide patient care in the community; 2) develop, implement, sustain or enhance pharmacy-provided patient care services; 3) actively participate in, and develop leadership strategies to facilitate the process of practice and professional improvement through education and mentoring.

Minimum Requirements
-A Doctor of Pharmacy degree from an ACPE Accredited School
-Two years of experience providing high quality community pharmacotherapy
-Eligible for licensure in Iowa

Duration
The residency is 12 consecutive months, beginning July 1, and running until June 30 of the following year.

Components
The majority of the residency year will be spent providing direct patient care in one of several community pharmacy practice sites. Limited weekly time in other clinical settings is available for developing ambulatory practice skills. Available practice sites include, but are not limited to family practice, outpatient ambulatory care specialty clinics, pediatric allergy and immunology, and drug information.

The Resident will
-Meet regularly with residency faculty
-Participate in student pharmacist education at the College and your site
-Complete the Pharmacy Educator Preparation Program (PEPP) and resident writing group program
-Complete a comprehensive project and present it regionally and nationally
-Work with faculty to advance pharmaceutical care delivery in practice

Accreditation
Postgraduate Year One (PGY1) Community Pharmacy Residency Program by ACP-PPA. Re-accredited 2012. Will participate in the Residency Match for the 2013-2014 residency year.

Benefits
Current resident benefits include \$40,000 stipend, health and dental insurance, sick leave, time university paid holidays, ten days of paid vacation, 10 days of professional dues, and a \$1000 travel allowance to attend national and regional meetings.

Contact Information
To obtain information, write, call or e-mail:
Steve Beach, PharmD, BCACP
Assistant Professor (Clinical)
115 S. Olden Ave.
0225 Pharmacy Building
Iowa City, IA 52242-1112
319-334-4570
e-mail: steve.beach@uiowa.edu
<http://pharmacy.uiowa.edu/1-community-pharmacy-residency>

Application
Please apply using the Pharmacy Online Centralized Application Service (PHORCAS).

Application Timetable
Review of applications and scheduling of interviews begins January 7, 2013. Later applications may be considered.

"The University of Iowa Residency Program was the top choice because of its long history and many options for experiencing various areas of pharmacy. In addition, the network of residents of various pharmacy sites within the program provides the opportunity to work with your peers and learn from their experiences as well."
—Andrew Purdy, Class of 2013

Monday, October 7, 2013

Start Time	End Time	Activity	Location	Contact(s)
9:00 AM	10:00 AM	Medication Therapy Management	COP, 114	<ul style="list-style-type: none"> ○ Matt Witry, Pharm.D., Ph.D. Student, Health Services Research ○ Brandon Patterson, Pharm.D., Ph.D. Student, Health Services Research
10:15 AM	11:15 AM	Practice-based Research Essential Tools	COP, 114	○ Liz He
11:30 AM	12:30 PM	Lunch/Practice-based Research Workshop and Examples	COP, 114	○ Be Health S
12:45 PM	1:45 PM	Community Residency Program	COP, S543	○ Stevie Veach
2:00 PM	3:30 PM	Anticoagulation	COP, S543	<ul style="list-style-type: none"> ○ Deanna McDanel, Pharm.D., BCPS Clinical Pharmacy Specialist, UIHC Associate Professor (Clinical), COP
3:30 PM	5:00 PM	Clinical Problem Solving and Teaching with Cases	COP, S543	○ Jay Currie

Anticoagulation

Monitoring INRs

- **Initial monitoring of INRs:**
 - 2 to 3 days after starting, 2 to 3 times per week for the first 1 to 2 weeks, then periodically thereafter
- **General rule:** INR should increase by 0.1 - 0.2 per day in the first week after initiation
- **Steady state reached in 10-14 days**
- **After STABLE:**
 - Every 4 weeks
 - CHEST 2012: Up to every 12 weeks if consistently stable x 3 months
 - 2 weeks or sooner
 - Dose changes, low/high INR, other factors



Adjusting Warfarin Dose

- **Assess INR and parameters affecting warfarin**
- **Maintain INR within goal range, options:***
 - One time booster (when INR low) or decreased (when INR high) dose
 - Holding doses when very high
- AND/OR
- Adjust weekly dose by 5-15%
 - 5% when closer to INR range
 - 15% when very high or low
 - Exceptions: critically high/low INR or recent initiation
- CHEST 2012: If previously stable and ≤ 0.5 below or above range, continue current dose and check in 1-2 weeks
- If INR outside of range, re-check in 2 weeks or sooner

Tuesday, October 8, 2013				
Start Time	End Time	Activity	Location	Contact(s)
9:00 AM	10:00 AM	Antimicrobial Stewardship	COP, S545	o Sarah Johnson, Pharm.D., BCPS Clinical Pharmacy Specialist, UIHC Assistant Professor (Clinical), COP
10:15 AM	11:15 AM	Preceptor Train	COP, S545	o Jay Currie
11:30 AM	1:00 PM	Lunch		
1:00 PM	2:00 PM	Professional Experience Prog		o Jay Currie
2:00 PM	3:00 PM			
3:15 PM	4:15 PM			
5:30 PM	N/A			Associate Dean, COP

Antimicrobial Stewardship

Guide to Choice of Antimicrobial Therapy

"Antibiogram"

June 2013

Provided by the
Infectious Disease & Therapeutics Subcommittee
Antimicrobial Advisory Subcommittee
University of Iowa Hospitals and Clinics

	% Susceptible														
	Ceftazidime	Ceftazidime/Avibactam	Ampicillin/Sulbactam	Ampicillin/Sulbactam	Piperacillin/Tazobactam	Cefepime	Ceftazidime	Meropenem	Imipenem	Meropenem	Imipenem	Adjuvant	Trimethoprim-Sulfamethoxazole	Colistin	Mobilus (Lumiracoxin)
<i>Citrobacter freundii</i> (114)	4	52	0	18	87	100	82	91	97	100	100	88	82	30	0
<i>Citrobacter koseri</i> (54)	10	30	0	21	88	100	58	95	96	100	100	98	94	36	0
<i>Enterobacter aerogenes</i> (119)	3	85	0	0	66	89	87	100	96	100	100	91	37	30	0
<i>Enterobacter cloacae</i> (110)	3	80	0	0	84	85	81	95	96	100	98	82	82	36	0
<i>Enterobacter coli</i> (2642)	88	87	58	63	57	85	93	82	92	100	100	97	79	83	18
<i>Klebsiella oxytoca</i> (180)	44	87	0	44	90	93	91	99	99	100	99	97	95	30	0
<i>Klebsiella pneumoniae</i> (58)	86	95	3	81	85	97	83	97	98	99	99	95	91	54	0
<i>Morganella morganii</i> (11)	0	88	0	23	85	100	81	98	95	100	100	95	83	30	0
<i>Providencia stuartii</i> (272)	88	88	54	-	90	99	83	88	94	100	100	98	87	81	0
<i>Serratia marcescens</i> (14)	0	87	0	0	89	100	93	98	73	99	99	97	95	0	0
Non-Enterobacteriaceae															
<i>Aerobacter anaerobius</i> complex (83)	-	85	-	82	72	82	82	86	84	84	-	-	-	75	-
<i>Pseudomonas aeruginosa</i> (702)	-	-	-	-	85	82	84	88	84	86	-	83	-	75	-
<i>Serratia marcescens</i> (163)	-	-	-	-	-	80	-	-	-	-	-	-	-	-	-

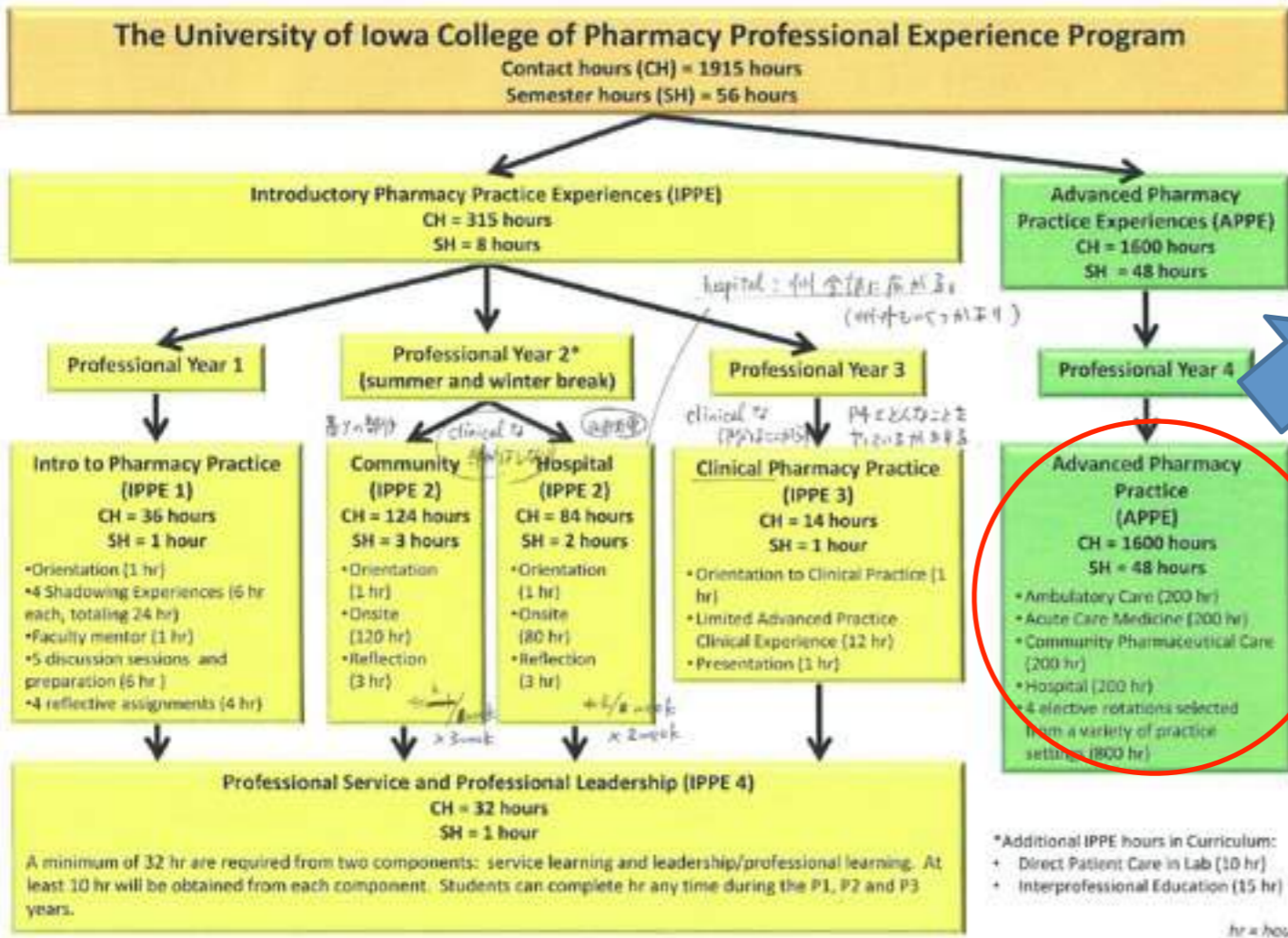
Select Injectable Formulary Antimicrobial Agents*	Commonly Used IV Daily Dose(s)**	Daily Cost†	Oral Agent (% Bioavailability)	Usual Daily Oral Dose**	Daily Cost†
Acyclovir	10 mg/kg q8h	\$12	Acyclovir (25%) Valacyclovir (55%)	800 mg 5 times/day 1 gm TID	\$1 \$5
Amikacin	15 mg/kg q24h	\$48	---	---	---
Amphotericin B deoxycholate	1 mg/kg q24h	\$18	---	---	---
Amphotericin B liposomal	5 mg/kg q24h	\$300	Posaconazole (variable; up to 96% with high fat meal)	800 mg/day divided	\$144
Ampicillin	2 gm q4h	\$28	Ampicillin (98%)	500 mg q4h	<\$1
Ampicillin/sulbactam	3 gm q4h	\$12	Amoxicillin/clavulanate (94%)	875 mg/125 mg q12h	\$1
Aztreonam	500 mg q8h	\$7	Azithromycin (40%)	500 mg daily	\$3
Aztreonam	2 gm q12h	\$154	---	---	---
Caspofungin	70 mg load, then 50 mg q24h	\$17	---	---	---
Cefazolin	2 gm q12h	\$4	Cephalexin (well absorbed)	500 mg q4h	<\$1
Cefepime	2 gm q12h	\$28	---	---	---
Cefepime	2 gm q12h	\$34	Cefuroxime (48 to 50%)	500 mg q12h	\$2
Cefepime	2 gm q12h	\$28	Cefuroxime (48 to 50%)	500 mg q12h	\$2
Ceftazidime	2 gm q12h	\$3	Cefdinir (50%)	300 mg q12h	\$7
Ceftazidime	2 gm q12h	\$3	Cefuroxime (48 to 50%)	500 mg q12h	\$1
Ciprofloxacin	400 mg q12h	\$7	Cyproheptadine (80%)	750 mg q12h	<\$1

Drug	Criteria For Use
Anti-bacterial Agents	
Aztreonam	<ol style="list-style-type: none"> 1. Documented or suspected gram-negative infection and history of beta-lactam allergy. 2. Cystic fibrosis patient infected with <i>Pseudomonas aeruginosa</i>. 3. Recommendation by Infectious Diseases. <p>Note: Consider formal consultation with the Infectious Diseases Service for selection of alternate antibiotic therapy or Allergy/Immunology for allergy testing.</p>
Ceftazidime	<ol style="list-style-type: none"> 1. Documented <i>Pseudomonas aeruginosa</i> infection. 2. Recommendation by Infectious Diseases. <p>Note: The first line agent is cefepime.</p>
Colistimethate	<ol style="list-style-type: none"> 1. Recommendation by Infectious Diseases.

Tuesday, October 8, 2013

Start Time	End Time	Activity	Location	Contact(s)
9:00 AM	10:00 AM	Antimicrobial Stewardship	COP, S545	o Sarah Johnson, Pharm.D., BCPS Clinical Pharmacy Specialist, UIHC Assistant Professor (Clinical), COP
10:15 AM	11:15 AM	Preceptor Training	COP, S545	o Jay Currie
11:30 AM	1:00 PM	Lunch		
1:00 PM	2:00 PM	Professional Experience Program	COP, S545	o Jay Currie
2:00 PM	3:00 PM	Webinar: Iowa Health Insurance Marketplace	COP, S545	o Jay
3:15 PM	4:15 PM	Lipids	COP, S545	
5:30 PM	N/A	Dinner (5:30 Pick-Up at Hotel)	Oyama Sushi	

Preceptor training



* chose 4 elective rotation

DEPT	COURSE	TITLE	
46	136	Elective Academic Rotation	
46	140	Elective Ambulatory Care Rotation	
46	141	Elective Community Management Rotation	
46	142	Elective Compound/Comp Alt Med Rotation	
46	143	Elective Critical Care Medicine Rotation	
46	161	Elective Drug Information Rotation	
46	178	Hospital Pharmacy Rotation	Required Rotation
46	179	Community Pharmaceutical Care Rotation	Required Rotation
46	180	Acute Care Medicine Rotation	Required Rotation
46	181	Elective Family Medicine Rotation	
46	182	Elective Pediatrics Rotation	
46	184	Elective Psychiatry Rotation	
46	185	Elective Neurology Rotation	
46	186	Elective Surgery Rotation	
46	187	Elective Nuclear Pharmacy Rotation	
46	188	Elec Pharm Prac Underserved Pop Rotation	
46	192	Elective Long Term Care Rotation	
46	193	Elective Home Health Care Rotation	
46	194	Elective Managed Care Rotation	
46	196	Ambulatory Care Rotation	Required Rotation
46	197	Elective Hematology/Oncology Rotation	
46	199	Elective Research Rotation	
46	300	Elective Emergency Medicine Rotation	
46	301	Elective Hospital Management Rotation	
46	302	Elective Infectious Disease Rotation	
46	303	Elective Medication Use Eval Rotation	
46	304	Elective Pharmacy Industry Rotation	
46	305	Elective Pharmacy Regulatory Rotation	
46	306	Elective Professional Association Rotation	
46	307	Elective Veterinary Pharmacy Rotation	
46	308	Elective Advanced Community Pharmacy	

Tuesday, October 8, 2013

Start Time	End Time	Activity	Location	Contact(s)
9:00 AM	10:00 AM	Antimicrobial Stewardship	COP, S545	o Sarah Johnson, Pharm.D., BCPS Clinical Pharmacy Specialist, UIHC Assistant Professor (Clinical), COP
10:15 AM	11:15 AM	Preceptor Training	COP, S545	o Jay Currie
11:30 AM	1:00 PM	Lunch		
1:00 PM	2:00 PM	Professional Experience Program	COP, S545	o Jay Currie
2:00 PM	3:00 PM	Webinar: Iowa Health Insurance Marketplace	COP, S545	o Jay Currie
3:15 PM	4:15 PM	Lipids	COP, S545	o Shellie Fravel
5:30 PM	N/A	Dinner (5:30 Pick-Up at Hotel)	Oyama Sushi	o Hazel Seaba, Pharm.M.S. Professor (Clinical) and Associate Dean, COP

Lipids

GUIDE TO THE MANAGEMENT OF HYPERCHOLESTEROLEMIA

September 2009

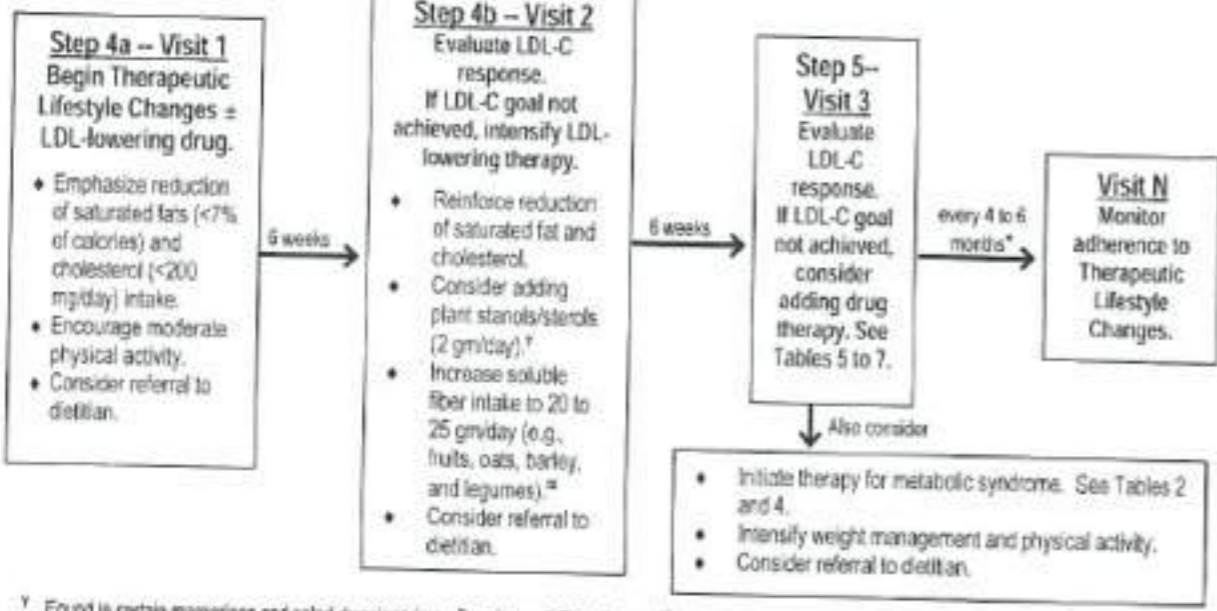
Provided by Pharmacy and Therapeutics Subcommittee Medication Use Evaluation Subcommittee

Table 5. Lipid Lowering Medications Information

Agents and Daily Doses [†]	Lipid/Lipoprotein Effects (% Change) [‡]				Prescription Cost per Month [§]	Administration Time
	LDL-C [¶]	HDL-C	TG	TC		
rosuvastatin 10 mg	-21%	+2%	-26%	-16%	\$32	Evening meal
rosuvastatin & generic 20 mg	-27%	+2%	-30%	-19%	\$27	
rosuvastatin & generic 40 mg	-33%	+2%	-31%	-21%	\$35	
rosuvastatin & generic 80 mg Q x 40 mg	-43%	+2%	-32%	-23%	\$71	
simvastatin 5 mg	-20%	+2%	-22%	-16%	\$18	Bedtime
simvastatin & generic 10 mg	-23%	+2%	-23%	-17%	\$20	
simvastatin & generic 20 mg	-26%	+2%	-24%	-18%	\$24	
simvastatin & generic 40 mg	-31%	+2%	-25%	-20%	\$24	
simvastatin & generic 80 mg	-37%	+2%	-26%	-22%	\$28	
pravastatin 10 mg	-22%	+1%	-24%	-15%	\$18	Bedtime
pravastatin & generic 20 mg	-28%	+1%	-25%	-17%	\$21	
pravastatin & generic 40 mg	-34%	+1%	-26%	-18%	\$24	
atorvastatin 10 mg	-28%	+4%	-29%	-20%	\$40	Any time of day
atorvastatin 20 mg	-34%	+4%	-30%	-22%	\$70	
atorvastatin 40 mg	-41%	+4%	-31%	-23%	\$126	
atorvastatin 80 mg	-48%	+4%	-32%	-25%	\$125	
ezetimibe (Zetia) 10 mg	-18%	+1%	-6%	-12%	\$114	Any time of day
ezetimibe/simvastatin 10/20 mg	-44%	+4%	-22%	-31%	\$110	Bedtime
ezetimibe/simvastatin 10/40 mg	-49%	+4%	-24%	-33%	\$115	
ezetimibe/simvastatin 10/80 mg	-54%	+4%	-25%	-35%	\$134	
ezetimibe/simvastatin 10/80 mg	-49%	+4%	-27%	-34%	\$118	
cholesterol 4 to 16 gm daily or + B/D	-15 to -30%	+2 to +4%	2 or more	N/A	\$30 to \$200	With meals
cholesterol 2 to 20 gm daily or + B/D	-15 to -30%	+2 to +4%	2 or more	N/A	\$32 to \$417	Take increasing medications #1 hour before or 2-4 hours after
cholesterol 2 to 10 gm daily or + B/D (tablets)	-15 to -30%	+2 to +4%	2 or more	N/A	\$3 to \$75	With meals
cholesterol 1.5 to 3 gm + drink ^{**}	-6 to -20%	+1 to +3%	-30 to -50%	N/A	\$12 to \$24	
cholesterol 1 to 2 gm oral ^{**}	-6 to -20%	+1 to +3%	-30 to -50%	N/A		
niacin 600 mg B/D	-11 to +32% ^{††}	+10 to +20%	-26 to -58%	-1.8 to -50%	\$16	30 min prior to meals
niacin 400 mg, 200 mg	-21 to +45% ^{††}	+10 to +22%	-24 to -55%	+17 to -22%	\$40	Without regard to meals
niacin 1 gm daily or +	-43% ^{††}	+2%	-42%	-10%	\$71	With meals



Steps 4 and 5. Hypercholesterolemia Therapy – Therapeutic Lifestyle Changes



[†] Found in certain margarines and salad dressings (e.g., 2 gm/day = 3 Tbsp Benecol[®] margarine, or 2 Tbsp Take Control[®] margarine).
[‡] 2 to 4 servings of fruits and 2 to 4 servings of whole grains result in a 2% to 4% reduction in LDL-C.
[§] In primary prevention, the goal is to reach the target. Once the target is reached, once the target is reached.

Pravastatin (Pravastatin [®] & generic)	10 mg	-22%	+7%
	20 mg	-28%	+2%
	40 mg	-34%	+12%
Atorvastatin (Lipitor [®])	10 mg	-28%	+6%
	20 mg	-34%	+9%
	40 mg	-41%	+6%
	80 mg	-48%	+5%

Wednesday, October 9, 2013				
Start Time	End Time	Activity	Location	Contact(s)
9:00 AM	12:00 PM	UIHC Clinical Observation	Meet at CC101 GH	<ul style="list-style-type: none"> Elizabeth Beltz, Pharm.D., Clinical Pharmacy Specialist, UIHC Assistant Professor (Clinical), COP Kate Oltrogge, Pharm.D., BCPS Clinical Pharmacy Specialist, UIHC Assistant Professor (Clinical), COP Stephanie Malenfant, PharmD, MPH Clinical Pharmacy Specialist, UIHC Assistant Professor (Clinical), COP
12:00 PM	1:00 PM	Lunch		
1:00 PM	2:30 PM	Accountable Care Organizations Project	COP, S552	
2:45 PM	3:45 PM	Kidney Transplants		
4:00 PM	5:00 PM	Drug Information Resources in Practice	COP, S552	<ul style="list-style-type: none"> Associate Professor (Clinical), COP Ron Herman, PhD Professor (Clinical), COP Director, Iowa Drug Information Network

UIHC Clinical Observation



Wednesday, October 9, 2013				
Start Time	End Time	Activity	Location	Contact(s)
9:00 AM	12:00 PM	UIHC Clinical Observation	Meet at CC101 GH	<ul style="list-style-type: none"> Elizabeth Beltz, Pharm.D. Clinical Pharmacy Specialist, Assistant Professor (Clinical) Kate Oltrogge, Pharm.D. Clinical Pharmacy Specialist, Assistant Professor (Clinical) Stephanie Malenfant, Pharm.D. Clinical Pharmacy Specialist, Assistant Professor (Clinical)
12:00 PM	1:00 PM	Lunch		
1:00 PM	2:30 PM	Accountable Care Organizations Project	COP, S552	<ul style="list-style-type: none"> Bill Doucette, PhD Professor and Services
2:45 PM	3:45 PM	Kidney Transplants	COP, S552	<ul style="list-style-type: none"> Sharon ... Pharm. ... Specialist, VA ... Assistant Professor (Clinical), COP
4:00 PM	5:00 PM	Drug Information Resources in Practice	COP, S552	<ul style="list-style-type: none"> Kevin Moores, Pharm.D. Director, Division of Drug Information Service Associate Professor (Clinical), COP Ron Herman, PhD Professor (Clinical), COP Director, Iowa Drug Information Network

Drug information Resources in Practice

To access the IDIS 4.0 Drug Database go to Login Page
<http://itsnt14.its.uiowa.edu/>

Username:
tokyowomenshosp
 Password:
tokyowomenshosp

Free 30-day trial of the IDIS Drug Database.

IDIS4.0 Drug Database Find what you need to succeed

Home | Search History | Saved Searches | Preferences | Log Off

Basic Search [input] and [input]

Search Clear

Advanced Search

Drug [input] and [input]

Disease [input] and [input]

Descriptor [input] and [input]

Citation Finder

Search Limits

Age
 In Use Neonon to 4 Wks 1 Mo to 12 Yrs 13 to 39 Yrs 40 Yrs and Over

Abstract Available Publication Year: [input] 2013

Other Databases
 IowaTeach
 IDIN Answers
 Comparative Effectiveness Plus

Search Tools
 Thesaurus
 Drug Hierarchy
 Drug A to Z List
 Disease Hierarchy
 Disease A to Z List
 Journal Look Up
 Descriptor Definitions
 Index Notes

Training Videos (circled in red)

Overview
 Drug Search
 Disease Search
 Descriptor Search
 Comparative Effectiveness Plus

Help
 Topics
 New Features
 Training Tools
 E-mail: idis@uiowa.edu
 Please Give Us Your Feedback

Training Videos:
 it provides basic information to assist in getting started with trial.

<http://itsnt14.its.uiowa.edu/idis2.0/advanced.asp>

Thursday, October 10, 2013

Start Time	End Time	Activity	Location	Contact(s)
9:00 AM	10:30 AM	Chronic Kidney Di	COP 5545	o Ryan Jacobsen, Pharm.D., BCPS Clinical Pharmacy Specialist, UIHC
10:30 AM	11:30 AM	Break/		
11:30 AM	1:20 PM	Pediatric		
1:45 PM	3:15 PM	Publishing/Editing		o Jeanine Abrons, Pharm.D., M.S. Assistant Professor (Clinical), COP
3:30 PM	4:30 PM	Iowa Poison Control Center	COP, 114	o Linda Kalin, RN, BS, CSPI Executive Director, I.P.C.C.

Iowa Poison Control Center

Put these stickers on your phones!

**POISON
Help**
1-800-222-1222

First Aid for Poisoning

Has the person collapsed or stopped breathing?

- ▶ Call **911** or your local emergency number right away.

Poison in the eyes?

- ▶ Rinse eyes with running water for 15 to 20 minutes.
- ▶ Call **1-800-222-1222**.

Poison on the skin?

- ▶ Take off any clothing that the poison touched.
- ▶ Rinse skin with running water for 15 to 20 minutes.
- ▶ Call **1-800-222-1222**.

Inhaled poison?

- ▶ Get to fresh air right away.
- ▶ Call **1-800-222-1222**.

Swallowed the wrong medicine or too much medicine?

- ▶ Call **1-800-222-1222**.

Swallowed something that's not food or medicine?

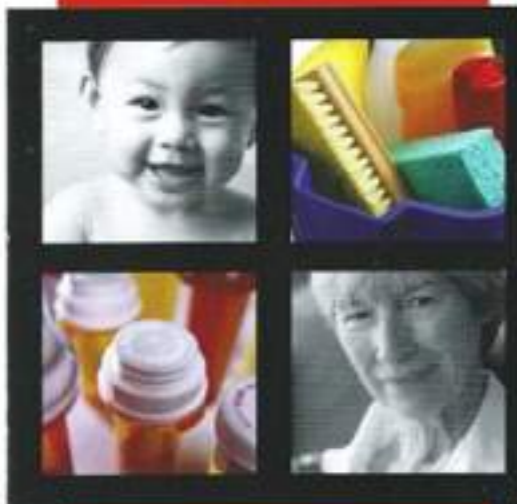
- ▶ Drink a small amount of milk or water.
- ▶ Call **1-800-222-1222**.

How Your Poison Center Helps You

In the United States, poison centers provide immediate treatment advice for poison emergencies. They also provide information about poisons and poison prevention, 24 hours a day, 7 days a week.

Poisons can hurt you — or even kill you — if you eat them, breathe them, or get them in your eyes or on your skin. The poison center can help you with questions about:

- household products
- chemicals at work or in the environment
- drugs (prescription, over-the-counter, herbal, illegal, or animal medicines)
- snake bites, spider bites, and scorpion stings.



**IOWA STATEWIDE
POISON CONTROL CENTER**

Call **FAST** to treat a poisoning!
Call **FIRST** to prevent a poisoning!

**POISON
Help**
1-800-222-1222

24 hours a day • 7 days a week

Student Keio Rotation Presentation

Friday, October 11, 2013			
Start Time	End Time	Activity	Location
8:00 AM	N/A	Pick-Up	Hotel
9:00 AM	11:30 AM	Tour of St. Luke's Hospital	Cedar Rapids
11:30 AM	1:00 PM	Travel/Lunch	
1:00 PM	2:30 PM	Antimicrobial Dosing in Dialysis	COP, S545
2:30 PM	3:30 PM	Break	
3:30 PM	4:30 PM	Student Keio Rotation Presentation	COP, S545

- o Jay Currie, BCPS
- o Brett [Name], Specialist, VA Hospital
- o Associate Professor (Clinical), COP
- o Kelsey Mohs, 4th Year Pharm.D. Student
- o Chris Wang, 4th Year Pharm.D. Student
- o Luke Watson, 4th Year Pharm.D. Student



St.Luke's Hospital



病床数；500床

稼働率；50-60%

薬剤部；

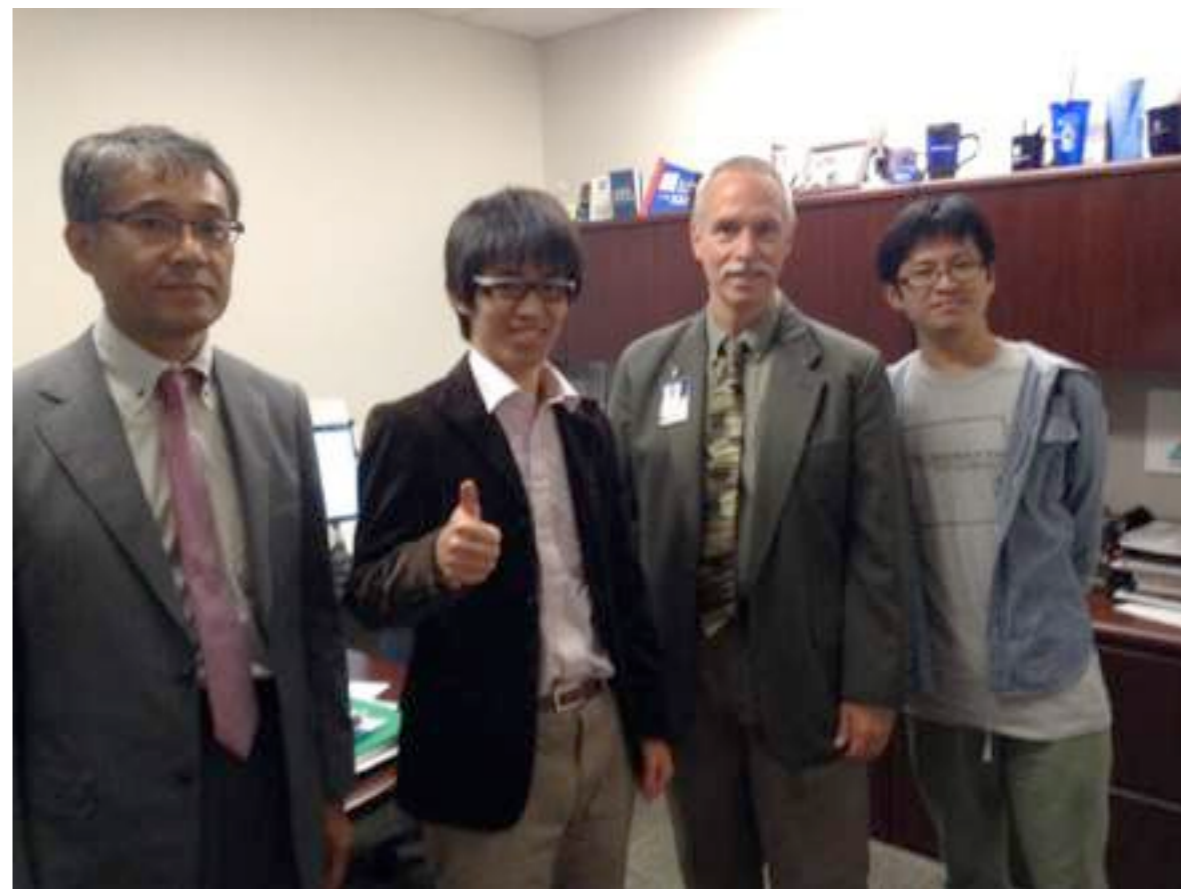
central pharmacy ;1、operation room;1

薬剤師数；30人、テクニシャン；25人

勤務体制；3交代(7:00-15:00 各7名,
14:30-23:00 各5名,21:00-7:00 各1名)







sightseeing





謝辞

この度は、貴重な研修の機会を与えてくださいました木村部長をはじめとする薬剤部の諸先生方、Dean Donald Letendre、Dr. Bernard Sorofman、Dr. Jay Currieをはじめとするアイオワ大学薬学部諸先生方に心から感謝しております。ありがとうございました。