

Singapore Healthcare ERM Congress 2013



The Awakening – From Adversity to Opportunity: Lessons Learnt

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Ms Irene Quay
Chief Pharmacist
Pharmacy Department

21 AUGUST 2013

Partners in Academic Medicine





PATIENTS. AT THE HE TOF ALL WE DO.



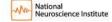
















Recap Chemo Overdose Error in Nov 2009

- 2 KKH adult oncology patients on ambulatory chemotherapy pumps
 - IV Doxorubicin continuous infusion over 72 hours
 - IV 5-Fluorouracil continuous infusion over 96 hours
- Errors happened due to pump setting errors
 - Ran out of chemo model pump as 3 pumps were sent for servicing
 - Pharmacists unfamiliar of the different unit of measure (UOM) when substituted pumps were used and overlooked UOM when checking





Immediate Action

- Urgent sourcing of antidote, Vistonuridine, as advised by our Medical Oncologist, who just learnt about the antidote from a recent oncology conference
 - Importance of training as a form of investment in ERM principles
- Establishment of an urgent approval workflow with the Health Sciences Authority (HSA) for approval of urgent unregistered drugs after office hours

Risk Mitigation/ Controls

Risk Avoidance

- Review standardization of different models of pumps in different sections in Pharmacy
 - Oncology: Chemotherapy/ Palliative pumps-Solis SMART pumps
 - Pharmacy Lab: Antibiotic pumps (CADD pumps)
- Discard pumps and checklist with mL/ 24hrs rate
- Keep only pumps with standardize UOM: mL/Hr
- Chemotherapy and Pain pumps are changed to SMART pumps with max dose/ flow rate alert/ limits to prevent accidental wrong setting of pumps
- Establish a multidisciplinary team for future pump evaluation to include all users, BME expert, risk officer, etc



Risk Mitigation

- All pharmacy staff using pumps need to be trained and certified competent and also educated on the delivery rate/UOM
- All oncology pharmacists and subsequent new oncology pharmacists are also trained by vendor since Jan 2010.
- Internal competency check to be done at orientation and yearly via an established checklist
- Training materials cover all possible risks and errors. All staff to read and sign a circular highlighting the common errors in relation to infusion pumps

Training Checklists

CADD®-Solis (fth sunder reads) Competency Checklist

Name	
NG CHOUR W	
Title	
Sm. Darmoir	
Hospital/Dept	
his women't distribute	Harpital Phanny Department
Expected date of completion	
12/2/200	

Competency statement

The participant will doministrate proper practical knowledge, theory of operation and clinical application of the CADD*-Solis ambulatory pump.

Signature of Participant			
Mylender			

Competency checks	Section	Date Completed
CADIDF-Softs External Features	1	7
CAOD* Solls Operating Features	2	4 15/2/2011
Programming the CADO ⁴ -Solly	1	1
Reports and Tasks on the CADD*-Solin	4	
Alarms and Care of the Pump	5	1
Administrator settings		



JOB/ SKILLS COMPETENCIES CHECKLIST

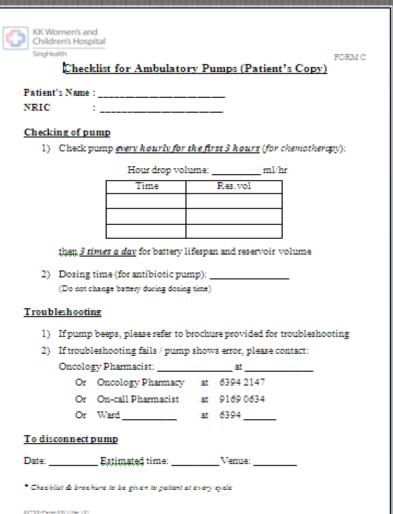
Name of Procedure(s):	Setting Ambulatory Pumps
Target Completion Date:	
Staff Name:	
Employee No:	
Department:	Pharmacy (applicable to Oncology & CIP Pharmacists)

Place a tick ($^{\prime}$) for criteria 'met' and a $\,^{\prime}$ X) for 'Not Met' in the column provided for each competency assessment.

S/N	STEPS	COMPETENCY ASSESSMENT (No. of Tries)					DATE ASSESSED COMPETENT	SIGNATURE OF ASSESSOR	NAME OF ASSESSOR
		1	2	*	4	5			
1.	Identify the correct pump to use for different uses a) CADD Soils for chemo and Palliative (different pumps)								
	 b) CADD Legacy-plus for antimicrobial 								
2.	Understand the differences among the pumps.								
2.1	Different modes of administration: a) CADD Soils — Continuous — PCA b) CADD Legacy-plus — Continuous and Intermittent								
2.2	Rate of Infusion: a) CADD Soils — mi/hr (To use this) — mg/hr — mcg/hr b) CADD Legacy-plus — mi/hr c) Note the TGA News Issue 49 — Medical device incident and ISMP Canada Safety Bulletin								

Patient Education

- Educate patients on troubleshooting of pumps
- Patient information
 pamphlet to check for
 earlier than intended
 completion of infusion
- Provide hotline
 number and mobile
 number of Oncology
 pharmacist on call for
 pumps support



Risk Mitigation

- Develop a chemotherapy overdose manual/ antidote booklet, in collaboration with National Cancer Centre (NCC)
- Setting up a centralized antidote centre at macro level
 - Worked with hospital pharmacies and MOH CPO on stock piling of critical chemotherapy antidotes

Risk Mitigation

- Establish as a hospital policy to use only mL/ hr pumps
- All equipment for servicing must be replaced with same type
- Use of substitute should be avoided. If really cannot be avoided, to inform prescribing Doctors and HOD. Users have to be adequately trained
- Purchase service contracts for pumps with provision for replacement units

System Engineering and Human Factors

- Space constraint in Oncology Pharmacy
- Interruptions and Distractions
- Lighting and Noise control
- Conducive environment for checking of drugs and rotation of pharmacist checkers
- Oncology expansion in FY2013
- Future plans for IV Compounding automation and electronic orders interface

Photos of Old and New Oncology Pharmacy



Old and New Oncology Pharmacy





Opportunities Arise from Crisis

Pharmacy Department Medication Safety Initiatives

Need for Hospital to have a Strategic Plan for Medication Safety

- Hectic pace of healthcare
- Forces immediate patient needs and priorities over long-term planning for patient safety
- Balance Short Term needs of patients and Long Term plans for patient safety
- Safe Medication use requires careful planning and resources
- Errors involving medication use make up largest single cause of medical errors in hospitals¹

To Err is Human: Building a Safer Health System, eds. Linda T.Kohn, Janet M. Corrigan, and Molla S. Donaldson (Washington: National Academy Press, 2000)

ISMP Model Strategic Plan for Medication Safety

Goal #1:

Create, communicate and demonstrate a leadership-driven culture of safety

Pharmacy Medication Safety Subcommittee – Formed since 2010

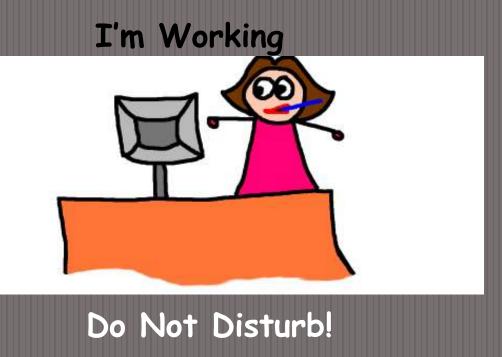
Committee Members	Role
Irene Quay	Chairperson
Isabella Sim	Secretariat Support
Lim Kae Shin/ Jamie	Medication Safety Officer/ Drug Information Services Pharmacist
Natalie	Medication Safety PT
Valerie Seah/ Ellen Joy	CIP Champion
Santhi/ Go Hui Jia	WIP Champion
Siti Fatimah	IPAS Champion
Alan Chui	Admin/ OP Rep
Ng Cheng Li	Oncology Champion
Noelle Crista	TPN Champion
Monika/ Foziah	OP Champion
Lucita Dejucos	EP Champion
Mohammed Nazri	Purchasing/ Pharmacy Store Champion
Seow Meow Kwei	IT Champion

Note: Members appointed on a bi-annual, rotational basis

Medication Safety Activities/ Contests

- "Do Not Interrupt"
 - Poster Design
 - Thank You for Not Interrupting





Wait. Do not interrupt, Interruption can cause errors

CHECKING P A K N G E.O.

HELLO

P YOUR CALL N

PEN PLEASE

I'm glad to assist you but please wait till I'm finished.

"Thank you for your patience in allowing me to complete my task before attending to you." Get rewarded for practising patient safety

2) Every staff will be issued a card with a unique number. You can get

RULES AND REGULATIONS:

- 1) Contest is open to ALL pharmacy staff.
- additional cards from your section's med safety sub-committee representative.
- 3) On the back of this card are 20 BLUE, 1 YELLOW and 1 RED box. Get OTHER pharmacy staff to STAMP AND SIGN in the appropriate box (your own stamp on the back of this card is not valid) :-

BLUE

If you allow your colleague to complete their task (eg. typing, packing, checking, dispensing, verifying, receiving, answering a phone call etc) before attending to your query/request, remember to leave your card for them to

stamp at their convenience.

YELLOW

If you interrupt your colleague during their course of work, they are to stamp and sign in this yellow box on your card. 5 signatures would be deducted from your total score as PENALTY.

RED

After receiving a stamp in the yellow box, if you interrupt someone again, he will stamp and sign in this red box on your card and this means

GAME OVER for you

- 4) All cards (including empty ones) are to be dropped into the contest box located in main pharmacy pantry by the closing date. If you have more than one card, please staple and submit them together. Token prizes will be issued along the way (1 prize for every 10 signatures)
- 5) Closing date of contest: 5pm, Monday 2 APRIL 2012.

Signature & Name Stamp	Signature & Name Stamp	Signature & Name Stamp	Signature & Name Stamp	Signature & Name Stamp
1	2	3	4	5
Signature & Name Stamp	Signature & Name Stamp	Signature & Name Stamp	Signature & Name Stamp	Signature & Name Stamp
6	7	8	9	1 0
TOKEN PRIZE	Signature & Name Stamp	Signature & Name Stamp	Signature & Name Stamp	Signature & Name Stamp
	11	1 2	1 3	14
Signature & Name Stamp	Signature & Name Stamp	Signature & Name Stamp	Signature & Name Stamp	Signature & Name Stamp
1 5	1 6	1 7	1 8	1 9
Signature & Name Stamp	TOKEN PRIZE	PENALTY	PENALTY	
2 0				GAME OVER

"Crossword Puzzle"

The puzzle below contains the 6 Packing Rights.. Can you locate them?

Υ	V	L	N	Q	S	Н	K	М	Υ	J	Z
Ę	Υ	Р	F	J	Н	0	E	F	U	Р	D
Κ	0	W	Α	В	T	D	Χ	В	Y	М	J
	R	Α	P	W		R	P	T	J	W	S
Z	E	Х	Р	Α	T	R	L	E	٧	R	Р
В	T	0		0	T	T	R	0	F	E	E
Q	U	I.	J	G	N	1	Y	М	D	R	N
М	0	K	0	Α	J	С	E	D	Р	K	S
N	R	٧	U	В	Υ	Z	R	N	٧	W	ı
R	E	Q	U	E	S	U	Р	ı	T	Α	N
Α	U	S	W	F	G	С	Н	L	J	z	G
D	D	0	S	E	С	Т	I	0	N	М	S

Dose
Drug
Expiry
Patient
Quantity
Route

"Jigsaw Puzzles"

APO –Warm Up (4pcs)

Nitrofurantoin 50mg
Sulfatrim Paed 100-20mg
Trifluoperzine 1mg
Baclofen 10mg
Fluoxetine HCL 10mg
Nifedipine 5mg

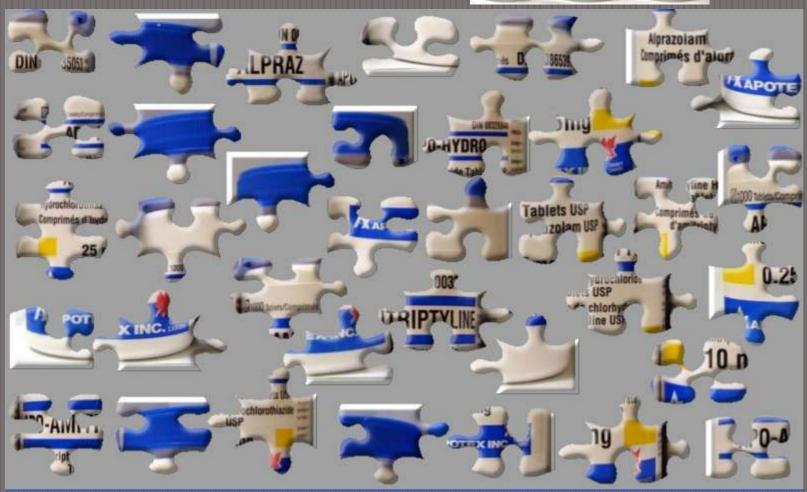




APO 5- 36pcs

Alprazolam 0.25mg Amitriptyline HCL 10mg Hydrochlorothiazide 25mg





"Pharmacy Amazing Race"

- o 5 teams are competing
- o Prizes
 - ➤ 1st Prize: \$30 CapitaLand Mall Voucher for each team member.
 - ➤ 2nd Prize: \$20 CapitaLand Mall voucher for each team member.
 - ➤ 3rd Prize: \$10 CapitaLand Mall voucher for each team member.







Rewards for "Near Miss Reporting"



Annual "Pharmacy Idol" Awards

- Criteria We are focusing on staff that sets example by:
 - Adhering to Pharmacy Department's P&Ps and WIs
 - Displays consistency in learning and sharing drug and safety knowledge
 - Promotes the Pharmacy Safety Culture



Winners of "Best Shelf Contest"





OP – Adabelle & Patricia







"Drug Returns Contest"

- Download blackboard mobile learn from play store
- Search for Singapore Health Services Pte Ltd
- Login using ADID username and password



ISMP Model Strategic Plan for Medication Safety

Goal #2:

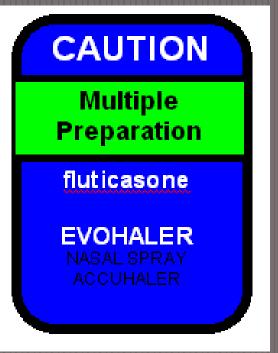
Improve error detection, reporting and use of information to improve medication safety

Pharmacy Medication Safety Initiatives

- Near miss presentation by committee reps and action plans on a monthly basis
- Department conduct medication review for all medication errors
- Review action plans and timeline
- Bimonthly audit results shared at roll-call
- Review and align product and label descriptions
- MERP Category D and above error trending

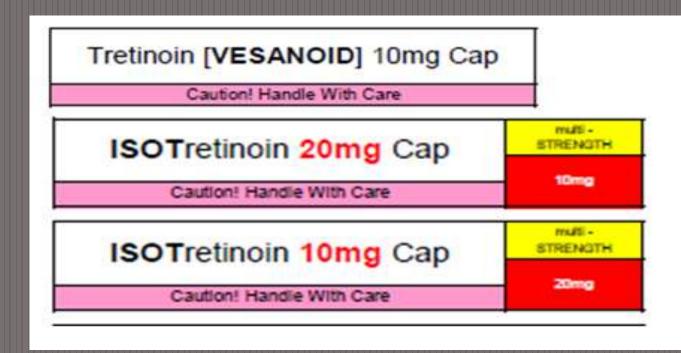
Alert Tags for Pharmacy Drug Bins







New Drug Bin Labels



KKH-10-1301

Discharge Time: 1 PM

KK Women's and Children's Hospital Pte. Ltd. 100 Bukit Timuh Road Singapore 229899

The original prescription carries a coloured KKH logo

NAME

Page 1 of 2

PRESCRIPTION 12-Oct-10 02:39 PM PAYMENT CLASS : CLASS B2 NRIC :S4482007B ACCOUNT :7609000212F

ADMIT DATE : 25 Apr 09 02:27 PM

LOCATION : KKH-W44 / Gynaecology

Weight: 50.0(KG) Weight Fintry Date: 30 Sep 10 BIRTH DATE : 01-Jan-21 (89 Yrs) Sex: Male ADDRESS :Blk/Hsc:502,Level/Unit:01-01 JELAPANG ROAD Singapore 670502

: PATIENTS ON MEDIFUND SCHEME 2

Drug Name + Form	Dose and Frequency + Instruction	Duration / Qty	For Pharmacy Use Only
. Amiodarone HCI Suspension	PO 1 mg - OM Variable Dose	1 weeks	0.
	And PO 2 mg - BD Variable Dose		
	** Note: Multiple strengths available >> Non Commercial Item - Drug Needs to be prepared by Pharmacy		
, Pine Co Inhalation Solution	Inhalation 1 inhalation - OM Variable Dose	1 weeks	
	And Inhalation 2 inhalation - QDS Variable Dose ** Note: Multiple preparations available		
. Busulfan Suspension	PO 1 mg - Q6H Variable Dose	I weeks	

FOR PHARM	ACY USE ONLY	Typed by	:				
DATE	DRUG	QTY	BALANCE	PACKED BY	COUNSELLED BY	Packed by	:
		-	\vdash			Checked by	:
		\vdash	\vdash			*Counselled by	:
						If educational me	aterial given, please state:

 Introduction of coloured drug labels and changing the colour every quarter





LASA Poster

TOPICALS

June 2013

LOOK ALIKE- SOUND ALIKE (LASA)

DRUG	INDICATIONS	COMMENTS	PICTURES
Mupirocin	The ointment is used for methicillin-resistant Staphylococcus aureus (MRSA) skin infections	Patients should test positive for MRSA infection before these medications are prescribed for them	Mupirocin 2% Ointment (5 g)
	The NASAL ointment is used for elimination of MRSA in the nasal carriage		Mupirocin 2% NASAL Ointment (3 g)
Tacrolimus	Calcineurin inhibitor, used for moderate to severe atopic dermatitis, in patients unresponsive to	Younger children should use the lower strength (0.03%) to avoid increased skin irritation e.g. burning and itch	Protopic Tacrolimus 0.03% Ointment
	conventional therapy	Adults may use either strength	Protopic Tacrolimus 0.1% Ointment
Mometasone	Corticosteroid, used in the treatment of dermatoses e.g. eczema and to relieve inflammation	Ointment has a more occlusive effect (compared to cream, which is water-based) and used for a larger limbic area	Mometasone furoate [ELOMET®] 0.1% CREAM
			Mometasone furoate [ELOMET®] 0.1% OINTMENT

Sharing of Medication Safety Information

ISMP Newsletter Volume 17 Issue 17

Jamie Stephanie (KKH)

Sent: Thu 23/08/2012 11:56 AM

To: Jasper Tong Weng Kong (KKH); KKH-ANP; KKH-CE; KKH-NA; KKH-NA-Exec; KKH-NMs;

KKH-NN; KKH-O&G; KKH-PAME; KKH-PHARM; KKH-SURG

Dear All,

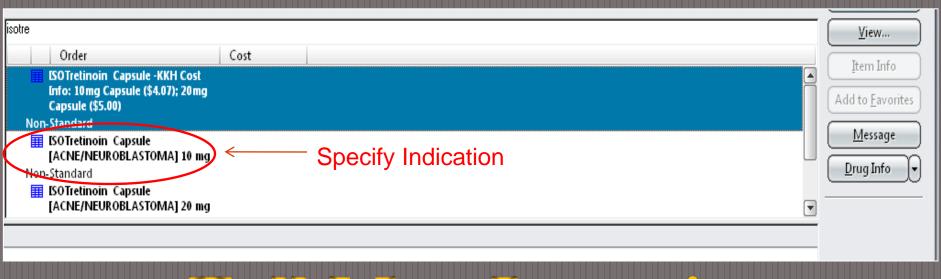
Please click here to see the latest ISMP issue.

In this issue:

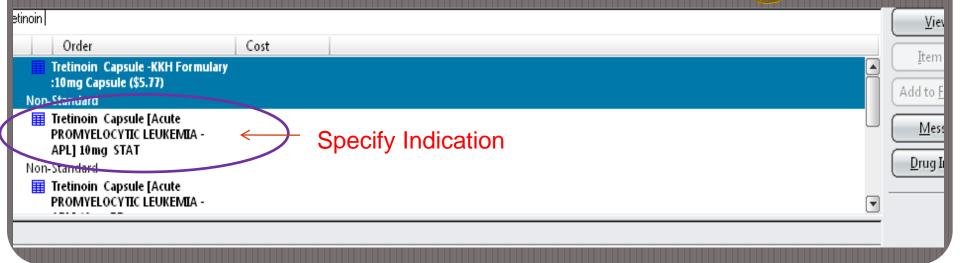
- Avoiding inadvertent IV injection of liquid drugs that are supposed to be administered orally
- Generic methylergonovine and Engerix-B mix-up due to look-alike vials
- Insulin pen misuse by patient the importance of educating patients on how to use their insulin pens!
- Diluent vial looks like the drug vial
- ON-Q pump with bupivacaine attached to IV

Sincerely, Jamie Stephanie Drug Information Services

Mixed Up ONE – Tretinoin or ISOtretinoin ??



Tall Man Lettering



SOUND-ALIKE (Caution Drugs)

ISOtretinoin vs Tretinoin

MULTIPLE STRENGTH







ISOtretinoin



Tretinoin

(Roaccutane/Oratane)

ATRA (Tretinoin Capsule) Vesanoid

Acne/Neuroblastoma

Acute Promyelocytic Leukemia – APL

Mixed Up TWO – Amphotericin Everywhere....

formulations of amphotericin B can be extremely dangerous ALERT: Mix-ups between conventional and lipid

WorthRepeating...

various formulations of amphotericin B

Mixed Up TWO – Amphotericin Everywhere....







FUNGIZONE® [Amphotericin B] 50 mg Injection

AMBISOME® [Amphotericin B (Liposomal)] 50 mg Injection

Pharmacy Bin Label



FUNGIZONE

[Amphotericin B] 50mg Inj



AMBISOME

[Amphotericin B (Liposomal)] 50mg Inj

Mixed Up TWO – Amphotericin Everywhere....





Conventional Am	š. 195		EABLE with FUNGIZONE	
 To each 50 Shake vial 	vigorously for 30	L of Water for Inject	tion (WFI). translucent suspension.	
Dilution Guide &		d viai – 4 mg/m.c.		96
Patient's Dose	THE REAL PROPERTY.			
1. Withdraw	mL (mg) of solution	from vial.	
2. Attach the 5-n	nicron filter that is	provided, to the syri	nge. Use only 1 filter per vial.	
	r attached, inject t . (Total volume =		yringe, through the filter into	mL of
*Max. Concer *Min. Concer	ntration for infusion tration for Infusion tration for infusion	on (Fluid restricted) n	= 0.2 mg/mL - 0.5mg/mL 1-1	
J. muse over	nous (reco	mmended 2 nours, n	nay be reduced to 1 hour if well toles	rated) [1, 3, 3]
Stability: Unopened vials to be Reconstituted vial me Special Precautions Usually inspect Administer usin	e stored at temperate aay be stored for up to the reconstituted vi g a separate line or	ures ≤25°C. to 24 hours at 2-8°C. ial for particulate matter	r and shake till completely dispersed. se 5% before infusion. An in-line filter	
Stability: Unopened vials to be Reconstituted vial m Special Precautions 1. Visually inspect 2. Administer usin micron) may be	e stored at temperati ay be stored for up to the reconstituted vi g a separate line or used.	ures ≤25°C. to 24 hours at 2-8°C. ial for particulate matter	r and shake till completely dispersed. se 5% before infusion. An in-line filter	
Stability: Unopened vials to be Reconstituted vial in Special Precautions 1. Visually inspect 2. Administer usin micron) may be 3. DO NOT reconstitution; (with	e stored at temperate aay be stored for up the reconstituted vi g a separate line or used. stitute with Saline S	ures ≤25°C. to 24 hours at 2-8°C. ial for particulate matter flush line with Dextro	r and shake till completely dispersed. se 5% before infusion. An in-line filter	(⊵1
Stability: Unopened vials to be Reconstituted vial in Special Precautions 1. Visually inspect 2. Administer usin micron) may be 3. DO NOT recons	e stored at temperate tay be stored for up the reconstituted vi g a separate line or used. stitute with Saline S h reference to patien : : dbook tugs 8* Edition to Drugs. 13thEdition mas Ravised May 2009	ures ≤25°C. to 24 hours at 2-8°C. ial for particulate matter flush line with Dextro- solution or other electro	r and shake till completely dispersed. se 5% before infusion. An in-line filter lyte solutions. ^[3]	(≥1

Ward/Bed:

AMPHOTERICIN B LIPOSOME (AMBISOME®)
INFUSION GUIDELINES

AmBisome®

50mg Amphotericin B / Vial

Name: PRN:

Brand

Content

- Update of Infusion
 Guide to include Non
 Interchangeable
- Restricting Ward Stock to Oncology Wards Only
- Change of drug naming

Announcements by Drug Information Services
 Pharmacist & Medication Safety Officer

- Changes in medication appearances
- Inclusion/Deletion in Hospital Formulary
- HSA/ISMP alerts
- Safe Handling of Cytotoxics / Caution drugs

MEMORANDUM

Date : 25th March 2013

To : All Doctors/Nurses

Thru' : Irene Quay, Chief Pharmacist

cc : Phua Kong Boo, Chairman of P&T Committee

From : Jamie Stephanie, Drug Information Pharmacist

Change in Appearance of Fentanyl 500 mcg/10 mL Injection

Please be informed that there will be a change in appearance of Fentanyl 500 mcg/10 mL Injection.

Please click here to view the new appearance and the look-alike sound-alike with the smaller vial size, Fentanyl 100 mcg/2 mL Injection.

We regret for any inconveniences caused.

All Nurse Managers, kindly disseminate this information to your staff.

CHANGE IN APPEARANCE

Fentanyl 500 mcg/10 mL Injection





ISMP Model Strategic Plan for Medication Safety

Goal #3:

Evaluate where technology can help reduce the risk of medication errors

Closed Loop Medication Management

5 Medication administration



Bedside Verification



delivered

Application

Closed Medication Loop



Inpatient prescription order



Commissioning



-Validation

Verification of medication order



3 Unit dose medication packed by . Robotic system

IPAS System KKH Swisslog machine



Patient Therapy



PickRing



according to



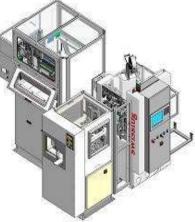


DrugNest









Results achieved:

- Reduction of serious errors (MERP Cat D and above) by 63%.
- 24-Hour Drug Verification by pharmacists—Reduction in the median pharmacist verification turnaround time from 51 to 7 minutes and improvement in drug interventions after office hours. Translate to total cost savings of \$\$74,475.93 annually.
- Ensure Prompt Supply of Medication to the Wards through machine prioritization.
- Reduced Stock Variance and Improved Billing
 - Improvement in ward stock inventory and 86% reduction in pharmacy manpower to perform manual billing.
 - Reduction in stock variance from 22% in 2009 to 2.2% due to more accurate billing and better inventory management,

Translate to at least S\$40,205 cost savings annually.

Coming Up...

Automated Dispensing machines with light-guided technology in Operating rooms — MOH Funding







Guided topping up



Tamper-proof metal, Locking bins for control drugs



Matrix Bins with Guiding Lights Technology for accurate withdrawal

MOH Funding for Emergency Pharmacy Automation System

Doctor orders prescription in CPOE system



Orders flow into Pharmacy system



Patient arrives at Pharmacy with hardcopy prescription



Pharmacy staff verifies prescription with interfaced orders and confirm the order

Conveyor Belt

Containers/ baskets "idling" in conveyor belt until all 3 containers are ready for dispensing



Drugs are manually picked and packed by Pharmacy Technician from LED guided cabinet matrix, and placed inside container

Drugs are picked and packed by OPAS, and dropped into container



Prescription placed inside container

Drug Labels are generated for manual packing



Orders are sent for OPAS packing

ISMP Model Strategic Plan for Medication Safety

Goal #4:

Reduce the risk of errors with high-alert medication prescribed and administered KEEP AWAY FROM CHILDREN

SUXAMETHONIUM 100MG/2ML EPIRY DATE: 30/11/2011 EMERGENCY KIT: WICU

REFRIGERATE-DO NOT FREEZE

KK WOMEN'S & CHILDREN'S HOSPITA 100, BUKIT TIMAH ROAD SUBGAPORE 229899 TEL: 620

MARTINE

CHANGE IN APPEARANCE

Sodium chloride 20% injection (10mL)



OLD

NEW

Pilot Ward 46 for IV Infusion Labeling



- Adult and Paediatric E-trolleys review:
 - Update and review infusion guides/charts
 - Standardise location of drugs and labeling
 - Review list of drugs kept in E-trolleys/E-kits

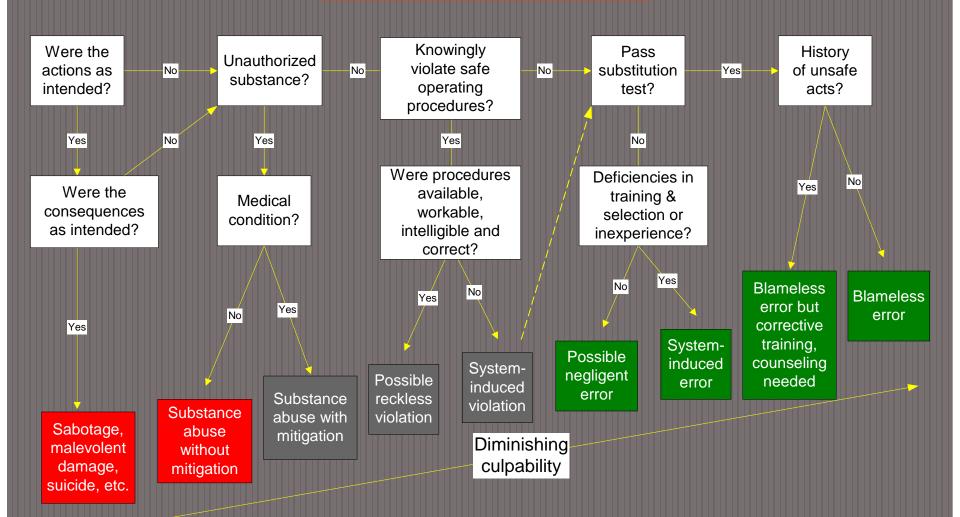


ISMP Model Strategic Plan for Medication Safety

Goal #5:

Establish a blamefree environment for responding to errors

Just Culture



Decision Tree for Determining Culpability of Unsafe Acts

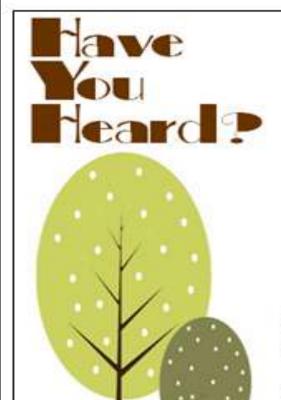
Reason, J., Managing the Risks of Organizational Accidents

ISMP Model Strategic Plan for Medication Safety

Goal #6:

Involve the community in medication safety initiatives and medication self management programs

Flipcharts for Critical Drugs



Flipcharts on drugs was introduced for patient education in the clinics.



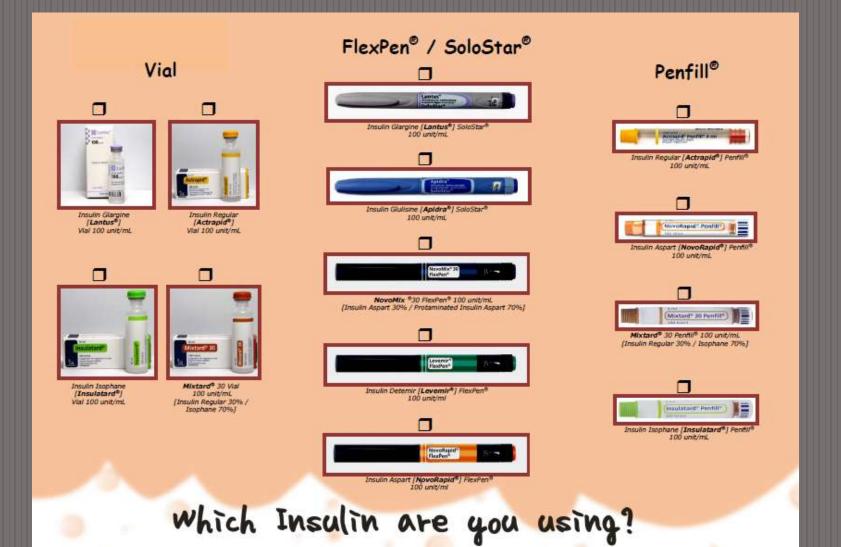


Pharmacy Medication Safety committee worked with Drs & nurses on the flipchart, which consists of photos and drug info of HIV and Anti-TB drugs.

This facilitates patient education as well as empower patients with more drug knowledge so that they can act as final checks from patient safety point of view.

A Joint Initiative by Corporate Planning & Service Quality

Brochure for Patient Education



ISMP Model Strategic Plan for Medication Safety

Goal #7:

Establish a controlled formulary in which the selected medications are based more on safety than cost

Safety Considerations for Drug Inclusion

Established Pharmacy & Therapeutics (P&T) guidelines for inclusion and deletion, with Medication Safety as an important component for consideration

- LASA
- Past medication errors
- Multiple strength/preparations
- Therapeutic duplications
- Availability of Barcode labels on products

To replace Miconazole 2% Cream

NEW IN PHARMACY

Ketoconazole 2% Cream (15g)



Pharmacy Drug Information Service

Bulletin: Deletion of Methylphenidate Sustained-Release...

New Item | ➡Edit Item | X Delete Item | Alert Me | Go Back to List

Title: Deletion of Methylphenidate Sustained-Release (Ritalin SR) 20 mg tablet from the hospital drug listing

Body: Please be informed that Methylphenidate Sustained-Release (Ritalin SR) 20 mg tablet is removed from the hospital drug I number of multiple preparation drugs in the hospital to help prevent confusion that could lead to medication errors.

Alternatives available in the hospital are the following:

- 1) Methylphenidate 10 mg tablet
- 2) Methylphenidate long-acting (Ritalin LA) 20 mg capsule
- 3) Methylphenidate extended-release (Concerta ER) 18 mg tablet
- 4) Methylphenidate extended-release (Concerta ER) 36 mg tablet

Expires:

Folder: Deletion from Hospital Drug Listing

Sub-folder:

Pharmacy Drug Information Service

Bulletin: Deletion of Paracetamol 250mg Suppositories...

🔚 New Item | 📝 Edit Item | 🗙 Delete Item | Alert Me | Go Back to List

Title: Deletion of Paracetamol 250mg Suppositories from the Hospital Drug Listing

Body: Please be informed that Paracetamol 250mg Suppositories will be deleted from the hospital drug listing once our currer a month's time. This is due to the relatively low usage and availability of other strengths of suppositories.

Strengths of suppositories that will still be available in the hospital:

- 1. Paracetamol 125mg Suppository
- 2. Paracetamol 325mg Suppository
- 3. Paracetamol 650mg Suppository

Expires:

Folder: Deletion from Hospital Drug Listing

Sub-folder:

Hospital Level-Patient Safety Leadership Commitment

- Patient Safety Rounds regular rounds conducted by CMB with Director of Nursing and Patient Safety Officer, together with other members of Patient Safety Council
- CEO Patient Safety and Patient/Staff Focus session KKH senior leadership is committed to safeguard individuals by fully understanding the process of delivery system and develop changes to continuously improve system design
- Appointment of Patient Safety Officer and Medication Safety
 Officer to take lead in patient safety activities, medication
 safety and process improvements

Patient Safety Council

- Formed in January 2010
- Headed by A/Prof Tan Kok Hian, Director of Clinical Quality with representation from key divisions and clinical supports of hospital, the role of PSC:
 - To obtain an overview of patient safety indicators for the hospital and oversee patient safety efforts through focus on :
 - Medication Safety
 - Procedure Safety
 - Infection Control
 - Falls Prevention

KKH Patient Safety Campaign Workgroup

Awareness, Reminders and Visibility

- Email, Web Information, Screen Saver
- Notice Board
- Cards
- Memento Souvenirs







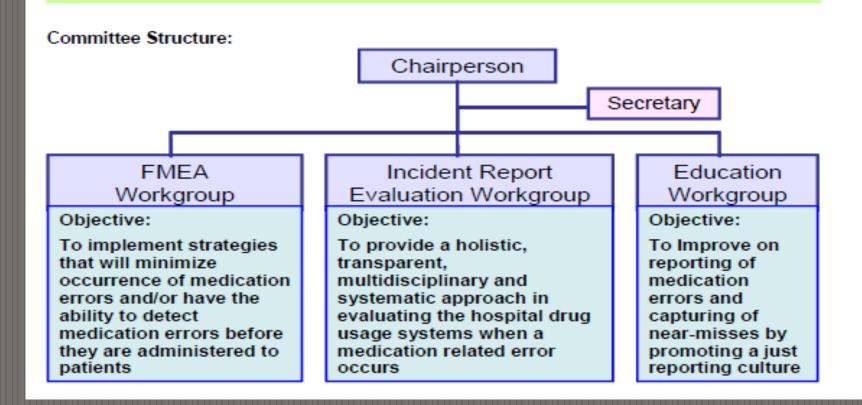
Patient Safety - Medication Safety Committee

Powers of the Committee:

- Monitor and review medication/near-miss errors and making recommendations to reduce future occurrence.
- · Identify and develop policies and procedures relating to drug safety.
- Review new drug-related processes and system.

Responsibility:

- · Promote and educate hospital staff on drug safety
- · Make recommendations on improvement of system and processes.



ISMP Visit in April 2010

Site Assessment by ISMP Team

To enhance medication safety and reduce the potential for patient harm





Institute for Safe Medication Practices

A Nonprofit Organization Educating the Healthcare Community and Consumers About Safe Medication Practices

The Institute for Safe Medication Practices (ISMP), based in suburban Philadelphia, is the nonprofit organization devoted entirely to medication error prevention and safe medication use. The organization is known and respected worldwide as the premier resource for impartial, timely, and accurate medication safety information. ISMP Team was invited to perform site assessment.

Consult Visit Itinerary: April 28-30, 2010

ISMP Recommendations

Assessment Report from the Institute for Safe Medication Practices (ISMP) was received in June 2010. Several rounds of meetings were conducted to appoint workgroups, system owners, medical and clinical support divisions, and committees to follow-up with action plan to resolve issues identified (refer to Annex I for Consult Visit Itinerary)

ISMP Medication Safety Self Assessment Survey

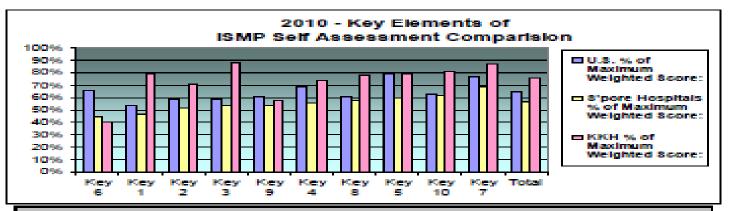
The Institute for Safe Medication Practices (ISMP) provides the KKH with the 2004 ISMP Medication Safety Self Assessment® for Hospitals tool for assessment. This project represents one of many initiatives created through a strategic partnership between ISMP which initiated by Ministry of Health. The key objective for this assessment is to evaluate the safety of medication practices to enable the facility to identify opportunities for improvement, and compare KKH experiences with the aggregate experiences of demographically similar hospitals in Singapore.

The survey was completed by multidisciplinary team consisting of:

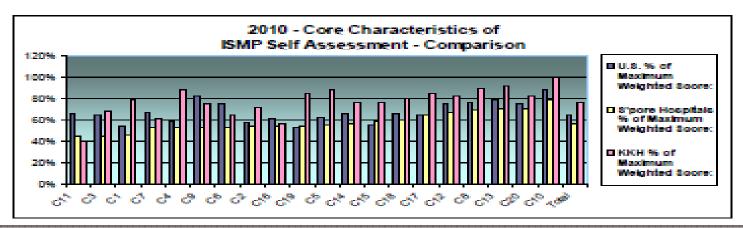
- Chairman of Medical Board
- Director of Clinical Quality
- Deputy Director of Nursing, Nurse Managers
- Chief Pharmacist and Clinical Pharmacists
- Senior Information officers
- Patient Safety Officer
- Senior Physicians

Participation in ISMP Survey

Results of the 2004 Institute for Safe Medication Practice (ISMP) Self Assessment for Hospitals - On-line submission on 22 December 2010



ISMP Medication Safety Self Assessment (2004) - Key Elements				
Key 1	Patient Information			
Key 2	Drug Information			
Key 3	Communication of Drug Orders and Other drug Information			
	Drug Labeling, Packaging, and Nomenclature			
	Drug Standardization, Storage, and Distribution			
Key 6	Medication Device Acquisition, Use and Monitoring			
	Environmental Factors, Workflow, and Staffing Patterns			
Key 8	Staff Competency and Education			
	Patient Education			
Key 10	Quality Process and Risk Management			



Thank you



ACKNOWLEDGEMENTS:

Ms Pang Nguk Lan Patient Safety Officer, KKH

Dr Manuel Joseph Gomez
Chairperson, KKH Medication Safety Committee

Pharmacy Medication Safety SubCommittee



PATIENTS. AT THE HE RT OF ALL WE DO.