

Lesson plan

Title of session: Introduction to Medicines Advice for Emergency duty pharmacists

Time: 10.30am to 5pm Thursday 1st and Friday 2nd March 2019

Venue: Medicines Advice centre, UHS

Number of learners: 4

Any special needs: None

Learning outcomes of the session:

- Ask the right questions when problem solving
- Know where to look for information, and how to search commonly used sources
- Describe some of the key considerations when faced with a clinical problem in certain topic areas (e.g. paediatrics, pregnancy, breastfeeding, renal and liver disease, enteral and parenteral drug administration)
- Make clinical decisions in the face of no information or conflicting information
- Describe how to deal with requests for IVIG out-of-hours and how to process the documentation required for supply
- Perform common calculations that may arise out-of-hours

DAY 1 Time	Content	Student activity	Teacher activity	Resources required
10.30-10.45	Introduction <ul style="list-style-type: none"> • Define the learners personal objectives • Review the learning outcomes and lesson timetable • Hand out on-call training pack, passwords, quick question guide • Introduce the Medicines Learning Portal and highlight on-call section 	Discussion	Discussion	Computer access x 4 Student timetable Password list Quick question guide



10.45-11.00	Introduction to MiDatabank	Practise using MiDatabank	Demonstration of MiDatabank	How to search MiDatabank handout, login and passwords for each pharmacist
11.00-11.30	Demonstration of general resources (including limitations): BNF eMC including advanced search Martindale Micromedex including Drugdex Up-to-date SPS website (UKMi Q&As and fridge enquiries) NHS Evidence	Observe and hands-on practise using the resources	Teacher demonstration - link to real clinical questions, question students throughout	
Break at a convenient point				
11.45-12.30	Introduction of specialist resources (throughout signpost to MLP topics for support, include limitations) Enteral administration Handbook of Drug Administration via Enteral Feeding Tubes, NEWT guidelines Paediatric BNFc, Evelina formulary, Paediatric dosage handbook (Lexicomp via Up-to-date), Medicines for children, Neonatal formulary, PIER Network Interactions Stockley's (full version and interactions checker) HIV and hepatitis C drug interaction checker Pregnancy and breastfeeding Toxbase, Schaefer, UKMi Specialist Pharmacy Service, LactMed Renal and liver disease Renal Drug Database Liver – discuss first principles around problem-solving – refer to https://www.medicineslearningportal.org/2019/07/use-of-medicines-in-liver-dysfunction.html	Observe and hands-on practise using the resources	Teacher demonstration - link to real clinical questions, question students throughout	



12.30-13.00	Medicines Learning Portal (Decision-making topic)	Self-directed e-learning		
13.00-14.00	Lunch			
14.00-14.15	Wash up of Medicines Learning Portal (Decision-making topic)	Student-led group discussion	Facilitate group discussion	
14.15- 15.00	<p>Administration-IV Micromedex IV compatibility, Injectable Medicines Guide (Medusa), UHS ITU guide, UKCPA minimum volume guide</p> <p>Palliative care The Syringe Driver - monographs for dosing etc, compatibility tables, Palliative Care Formulary</p> <p>Pharmacokinetics TDM table on Medicines Learning Portal, UHS TDM guide, In-house guidelines</p> <p>Psychiatry Maudsley, Bazire, Southern Health guidelines</p>	Observe and hands-on practise using these resources	Teacher demonstration - link to real clinical questions, question students throughout	
15.00 -15.15	Break			
15.15-close	<p>Addressing fears /peer support</p> <ul style="list-style-type: none"> • Sources of peer support (social media groups) • Source of expert support • Trouble shooting • Prioritising problems 	Student-led group discussion	Facilitate group discussion	

DAY 2 Time	Content	Student activity	Teacher activity	Resources required
10.30- 11.15	IVIG procedures out-of-hours	Observe and hands-on practise finding and using these resources. Group discussion.	Demonstration of where to find procedures, request forms etc. Interactive discussion about IVIG decision-making.	Computer access x4
11.15-11.45	Medicines Learning Portal (On-call and Calculations)	Self-directed e-learning		
11.45-noon	Break			
12.00-12.15	Wash up of Medicines Learning Portal (On-call and Calculations)	Student-led group discussion	Facilitate group discussion	
12.15-13.00	Questioning skills	Receiving calls from, and making phone calls to, another learner	Facilitation	2 separate rooms with telephones x2 Phone scenario scripts Phone evaluation forms
13.00-14.00	Lunch			
14.00-16.30	Questioning skills continued followed by Work through a scenario on MiDatabank Trainer received during questioning skills activity. Break at a convenient point	Practise researching a clinical question, evaluating information and constructing an answer.	Facilitation	Computer access x4
16.30-close	Loose ends: answer any questions. Learners to complete feedback form before leaving.			