PHARMACIST DELIVERY OF ANTIMICROBIAL STEWARDSHIP TO HOME IV PATIENTS: A QUALITATIVE STUDY

Background

- **Home IV:** effective & convenient treatment option for delivery of parenteral antimicrobials without hospitalization & is provided by community and regional hospitals within IH
- Antimicrobial Stewardship (AMS): coordinated interventions designed to optimize antimicrobial use
- AMS principles must be balanced with convenience, ease of administration & tolerability in Home IV
- Identification of enablers & barriers to hospital pharmacists providing AMS to Home IV patients will help inform quality improvement initiatives by IH Antimicrobial Stewardship

Objectives

- Determine pharmacists' perceived enablers & barriers in providing AMS to Home IV in regional & community hospitals
- Identify areas of improvement for applying AMS to Home IV
- Describe pharmacists' understanding of AMS & how it can be applied to Home IV

Methods

Study Design:

- Prospective, descriptive, qualitative design **Setting & Sampling:**
- EKH, KBH, KLH, PRH, VJH
- Purposive sampling

Data Collection:

• 30 minute, 1:1 semi-structured interviews

Data Analysis:

- Microsoft Teams video recordings transcribed verbatim
- Open, inductive coding and thematic analysis using Nvivo R1

Measures for Methodological Rigor:

Transcripts coded twice & independent coding of first 2 interviews for agreement

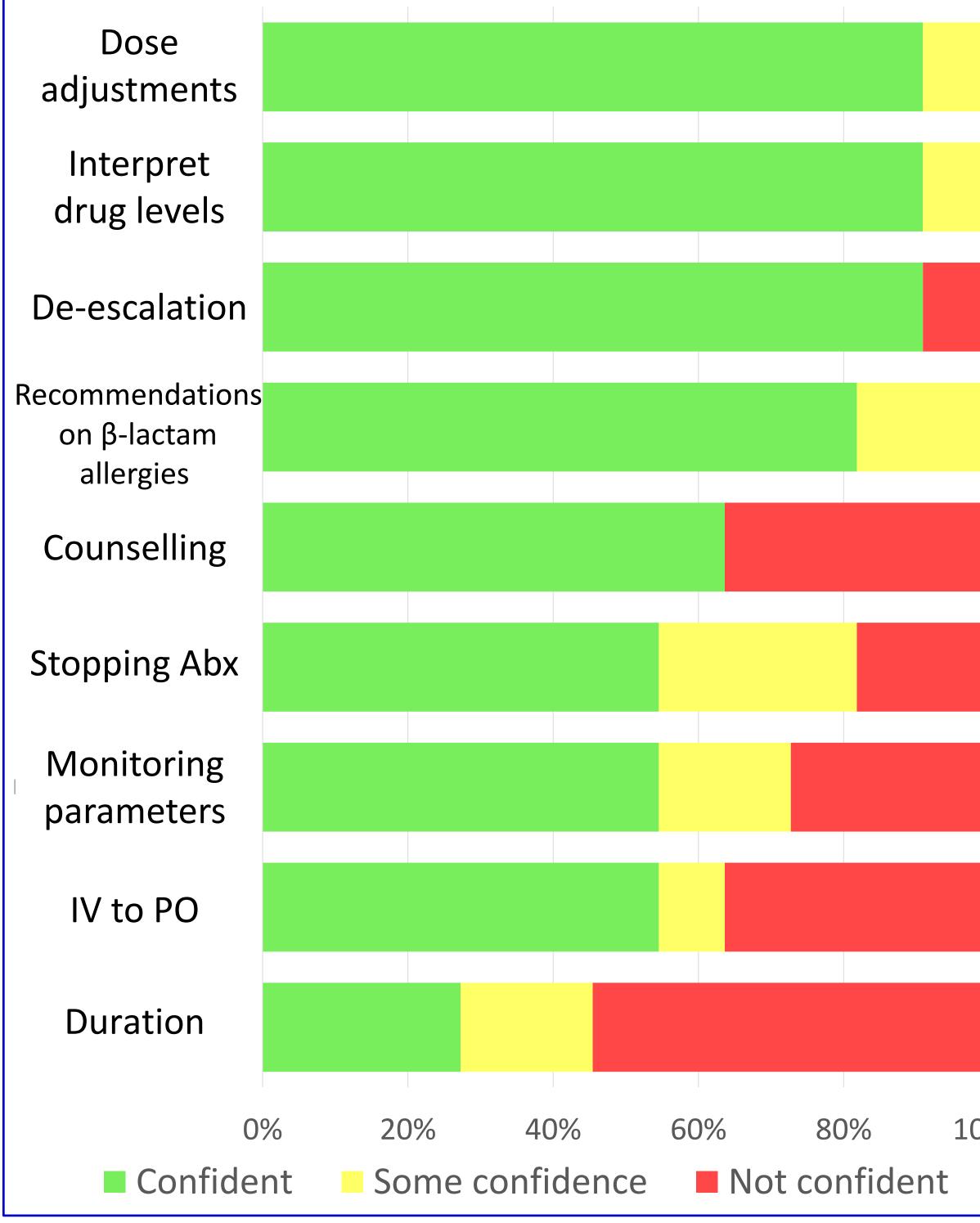




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Results – 5/8 eligible sites (62.5%) participated in interview

Table 1. Participant Demographics (n=11)			Table 2. Perceived Enablers				
Category	Characteristic	Result n (%)	Theme				
Sites	EKH KBH KLH PRH VJH	4 (36) 2 (18) 1 (9) 2 (18) 2 (18)	Understanding of AMS & impact Resources & sources of information	prevent resistance and I use guidelines and re effects. The thing that about the patient too. (AS is using appropriate antibiotics, at the event resistance and side effects and t use guidelines and references to help m fects. The thing that helps me provide a pout the patient too. (RPh 6) aving a local MRP as opposed to locum		
Hospital Experience (yrs)	1-10 11-20 21-30 >35	5 (45) 3 (27) 1 (9) 2 (18)	Access to prescribers Table 3. Percei	stewardship because i local that we can get a	if we ha	ave recomm	
Home IV Experience (yrs) Highest Education	1-5 6-10 11-15 16-20 >20 B.Sc. (Pharm) Entry PharmD ACPR	5 (45) 2 (18) 2 (18) 1 (9) 1 (9) 2 (18) 1 (9) 8 (73)	Theme Communication a information issue Lack of pharmacia inclusion & role classion Minimal monitoring follow up	es workup then we may seen at an outpatient of the clinical pharma o	ight jus ent clin not pa acist or owing u ey go h y. Ther improv	st get the Ho nic, there's n art of the dec n the unit an up on the lab nome. We sh re's no follow red. (RPh 4)	
Figure 1. Pharmacist Confidence in AMS Activities			Patient & infectio specific issues	situation then we h	When we're dealing with a challengir situation then we have to come up w number one choice of antimicrobial. (
Dose adjustmentsInterpret drug levelsDe-escalation			Environment	Sub-themeLack of Home IV structure & policiesTime, workload & prioritiesRural sites	s whose a lot make We're Hom The i at the	nk if our prog se roles are of wasted til es it harder t e not set up rural sites an e patient at a on the comp	
Recommendations on β-lactam			Table 4. Sugge	ested Interventio	ns	Discus	
allergies						Strengt	
Counselling			Multidisciplinary Home IV teams Access to information & communication			 Exceed Transe transe 	
Stopping Abx			of treatment plan • Phar				
Monitoring						variet Limitati	
parameters			• No			No pa	
IV to PO			Home IV order forms			No paData	
Duration			Medication pick up days & monitoring schedule			 Conclus Identi interv 	
			ANAS abaddligt for reviewing orders			initiat	
0% 20 Confident So		80% 100% ot confident	Cranbrook, BC (Regional), KBH Kootenay E Lake Hospital; Nelson, BC (Community), PF	antimicrobial stewardship, EKH East Kootenay Ho Boundary Hospital; Trail, BC (Regional), KLH Koo RH Penticton Regional Hospital; Penticton, BC (Re Regional), Abx antibiotics, PO oral, RPh Pharmac	otenay egional),	 Asses AMS 	



Lisa McAllister, B.Sc.(Pharm); John Groumoutis, B.Sc.(Pharm), ACPR; Edith Blondel-Hill, MD, FRCP(C);

Statement

the appropriate time, with the appropriate duration to to hopefully help the patient. (RPh 1) me assess drug therapy, interactions and adverse e antimicrobial stewardship is having information

ums or out of town specialists can help us provide mendations or need to talk to someone it's someone *knows the patient.* (RPh 11)

Statement

ease, so if we can't see a consult or more detailed Home IV prescription on our desk. If the patient was no access to that information. (RPh 11)

ecision making at the start of therapy. Unless we're and the patient is admitted for a while. (RPh 6)

abs that are ordered. We should be counseling the should be more involved with the follow up in terms of ow up to see if the patient fell through the cracks or if

ging patient with complex issues and a complex living with creative alternatives that might not be your (RPh 3)

ogram was more clearly outlined and structured, like e what. Like a policy and procedure because there's time figuring out what's going on and I find that r to provide good care. (RPh 2)

Ip to have a specific amount of time assigned to by. It kind of gets done off the side of our desk. (RPh 5) are the most challenging because can't go and look t all. You have nothing to go by other than what you *nputer screen.* (RPh 9)

ssion

ths:

eeded expected number of interviews nscripts coded twice and sample of 2 scripts independently coded

rmacist perspectives represented from ety of sites over a large geographic area tions:

parallel coding

participants from 3 eligible sites

saturation not met

usions:

ntified enablers, barriers and suggested **rventions** for future quality improvement atives to enhance AMS delivery to Home IV essed pharmacist confidence in specific S activities to focus interventional efforts