

A comparison of results: The Accreditation Canada Managing Medications Standards and the Hospital Pharmacy in Canada Report

Barthélémy I¹, Lebel D¹, Vaillancourt R², Niro C³, Mitchelle J, Bussières JF^{1,4} 1 - Pharmacy department and Pharmacy Practice Research Unit, CHU Sainte-Justine, Montreal, Quebec , 2 - Pharmacy Department, Children Hospital of Eastern Ontario, Ottawa, Ontario, 3 - Accreditation Canada, Ottawa, Ontario, 4- Faculty of Pharmacy, Université de Montréal, Montreal, Quebec

Introduction

- Numerous Canadian healthcare stakeholders recognize the importance of an optimal drug use process within hospitals to ensure safe medication use
- Our hypothesis was that there exists a discrepancy between the levels of conformity to the drug use processes that are documented by different sources.
- The authors proposed to Accreditation Canada to explore the discrepancy about the conformity of the drug use process between the accreditation process compliance rating and the Canadian pharmacy survey.



Objectives

 The main objective of this study was to compare aggregate national results from the Accreditation Canada Managing Medications Standards (MMS) and results from the Hospital Pharmacy in Canada Report (HPC).

Methods

- This is a retrospective cross-sectional study.
- Whenever possible, each MMS criterion was paired by a pharmacy resident with specific results from the 2009-2010 **HPC report**. Pairing was validated by a five-person panel.
- A discrepancy ratio was calculated between the results of the 2009-2010 HPC and the 2010 MMS by dividing both levels of conformity per criterion.
- **Discrepancy ratio was considered significant if value was** either below 80% or higher than 120%.

Conclusion

- A total of 60% of the MMS criteria have been paired with some 2009-2010 HPC results.
- The average calculated discrepancy ratio between both sources is 0.62 ± 0.28 .
- Further studies are required to explore the reasons for such discrepancy.

Results

Domains description and examples of paired criteria and discrepancy ratios

Domain description	Number of paired criteria	Criteria	Short description	HPC/AC	Discrepancy ratio	Average ratio	Min- rat
1. Working together to promote medication safety	5	1.2	Drug use management	49%/96%	0.51	0.61	
		1.4	Patient information on electronic tools	93%/98%	0.95		0.35
2. Carefully selecting and procuring medications	12	2.4	Inclusion or exclusion of drugs from the formulary	92%/92%	1.00	0.62	
		3.3	Packages and labels examination to avoid confusion	33%/95%	0.35		0.16-
3. Properly labelling and storing medications	7	7.4	Drug administered in service areas stored in unit dose package	85%/79%	1.08	0.76	
		7.6	Drugs and emergency supply meet standards stored and kept safely in patient service areas	64%/96%	0.67		0.40-
4. Appropriately ordering and transcribing medica- tions	18	9.1	Medication history	42%/99%	0.42	0.71	
		10.13	Policies and procedures verification before delivery	84%/80%	1.05		0.33
5. Accurately preparing and dispensing medica- tions	13	12.2	Policies and procedures warranting safe drug preparation	87%/97%	0.90	0.58	0.08
		15.1	Drug delivery in patient service areas	41%/97%	0.42		
 Safely administering medications to clients 	18	16.1	Education on safely administering medications to clients	5%/92%	0.05	0.49	0.05
		18.6	Administration hours	82%/97%	0.85		0.05
7. Monitoring quality and achieving positive results	7	21.4	Process to report an adverse drug event	50%/92%	0.54	0.64	
		21.6	Process related to examination of adverse drug events	81%/92%	0.88		0.05
Averages					0.62	0.63	
Averages					± 0.28	± 0.09	

Discrepanciy ratio: blue color means the ratio is significant (either below 80% or higher than 120%) HPC: Hospital Pharmacy in Canada Report; AC: Accreditation Canada Managing Medications Standards

Poster presented at CSHP'S 45th Professional Practice Conference 2014, Toronto Development at Accreditation Canada. JM is the Manager of Policy and Research at Accreditation Canada. JFB is a consultant for the HPC board.

