An Assessment of Safety Culture in Saskatchewan Community Pharmacy Practice





TABLE 3. Safety Culture Domain Mean Scores



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Objectives

- The Safety Attitudes Questionnaire (SAQ) is a validated instrument that explores the safety culture maturity within work environments, particularly in healthcare. 1,2,3 The questions are divided into 6 domains that influence safety culture: Teamwork, Safety Culture, Job Satisfaction, Stress Recognition, Perception of Management and Working Conditions. 1,2,3
- The objective of this study was to explore the current perceptions and attitudes on patient safety culture in community practice by Saskatchewan pharmacy professionals.

Methodology

- We administered a 40-item online questionnaire, which was adapted from the SAQ, for a 4-week period between November 5, 2018 and December 3, 2018, to a total of 1262 registered pharmacy professionals (1182 pharmacists and 80 pharmacy technicians) in Saskatchewan to assess their current attitudes and perceptions on safety culture, as well as the overall safety culture climate.
- Scores were obtained for each item utilizing a 5-point Likert Scale (1 = strongly disagree) to 5 = strongly agree).
- We conducted descriptive statistics and qualitative thematic analysis, accordingly, on the responses collected.

Results

- We collected 230 responses (18.2% response rate) from 210 pharmacists (17.8% response rate) and 20 pharmacy technicians (25% response rate) (Table 1).
- We stratified the six domains of safety culture in the SAQ by:
- Years of work experience of the respondent (Table 2); and
- Type of pharmacy operated in/by the respondent (Table 3).

TABLE 1. Demographic Information (N is the total number and % is the percentage)

Characteristics	Number of Respondents (
Position	N	%	* Cornerate pharmasics
Pharmacist (manager/owner) Pharmacist (staff) Pharmacy Technician	74 136 20	32.17% 59.13% 8.7%	* Corporate pharmacies are typically directed by a corporate office, with respect to its professional programs, marketing,
Total Number of Years Working	in Community Pharmacy		and ordering, etc. Banner pharmacies are indepen-
0-5 years 6-10 years 11-20 years 20+ years	68 42 59 61	29.57% 18.26% 25.65% 26.52%	dently owned pharmacies that are affiliated with a central office. They pay fees for the banner's benefit in centralized buying, marketing, and
Type of Pharmacy *			professional programs. Independent pharmacies
Corporate Banner Independently owned		45.65% 23.91% 30.43%	are not affiliated with any corporately run chains or banners. The owner of an independent pharmacy has complete control
Approximate Number of Prescri	ptions Dispensed Weekly		over the business in
700 or fewer (per week) 701 to 1500 (per week) 1501 to 3000 (per week) 3001 to 6000 (per week) 6001 to 12000 (per week) 12001 or more (per week)	48 96 63 18 5 0	20.87% 41.74% 27.39% 7.83% 2.17% 0.00%	ordering and marketing strategies, etc.

TABLE 2. Safety Culture Domain Mean Scores with Respect to Respondent's Total Number of Years of Work Experience in Community Pharmacy Practice

SAFETY CULTURE DOMAINS	0-5 Years	6-10 Years	11-20 Years	20+ Years	Weighted Average	Banner	Corporate	Independently Owned	Weighted Average
TEAMWORK	4.06	4.28	4.37	4.34	4.26	4.25	4.12	4.53	4.26
My input is well received in this pharmacy.	4.10	4.50	4.39	4.41	4.34	4.33	4.19	4.60	4.34
In this pharmacy, it is difficult to speak up if I perceive a problem with patient care.†	3.53	4.10	4.16	3.98	3.92	3.98	3.78	4.33	3.92
Disagreements in this pharmacy are resolved appropriately (i.e., not who is right but what is best for the patient).	4.14	4.27	4.38	4.40	4.29	4.26	4.15	4.55	4.29
I have the support I need from others in this pharmacy to care for patients.	4.12	4.36	4.45	4.35	4.31	4.41	4.09	4.60	4.31
It is easy for personnel here to ask questions when there is something that they do not understand.	4.33	4.31	4.50	4.44	4.40	4.44	4.26	4.59	4.40
The people in this pharmacy work together as a well-coordinated team.	4.11	4.26	4.34	4.44	4.28	4.09	4.24	4.52	4.28
SAFETY CULTURE	4.17	4.30	4.40	4.41	4.32	4.24	4.23	4.48	4.32
I would feel safe being treated here as a patient.	4.59	4.70	4.74	4.73	4.71	4.69	4.64	4.86	4.71
Medication errors are handled appropriately in this pharmacy.	4.50	4.55	4.63	4.77	4.61	4.60	4.56	4.71	4.61
I know the proper channels to direct questions regarding patient safety in this pharmacy.	4.53	4.55	4.61	4.71	4.60	4.48	4.59	4.73	4.60
receive appropriate feedback about my performance.	3.70	3.95	3.89	3.81	3.82	3.44	3.87	4.09	3.82
In this pharmacy, it is difficult to discuss errors.†	3.83	3.73	4.30	4.20	4.02	4.02	3.80	4.00	4.02
am encouraged by others in this pharmacy, to report any patient safety concerns I may have.	4.14	4.38	4.41	4.28	4.29	4.20	4.20	4.52	4.29
The culture in this pharmacy makes it easy to learn from the errors of others.	3.90	4.23	4.20	4.35	4.16	4.25	3.92	4.47	4.16
JOB SATISFACTION	3.97	3.92	4.08	3.95	3.98	3.94	3.68	4.50	3.98
like my job.	4.02	4.05	4.11	4.04	4.05	4.04	3.79	4.48	4.05
Vorking here is like being part of a large family.	3.87	3.78	3.95	3.78	3.85	3.82	3.58	4.30	3.85
his pharmacy is a good place to work.	4.11	4.05	4.18	4.13	4.12	4.14	3.76	4.69	4.12
am proud to work in this pharmacy.	4.13	4.15	4.38	4.16	4.21	4.22	3.87	4.74	4.21
Morale in this pharmacy is high.	3.70	3.58	3.79	3.65	3.67	3.47	3.40	4.26	3.67
STRESS RECOGNITION	4.18	4.12	4.23	4.24	4.20	4.23	4.35	3.84	4.20
	4.05	4.03	4.15	4.30	4.13	4.24	4.30	3.72	4.13
mpaired.	4.05 4.17	4.03 4.21	4.15 4.32	4.30 4.20	4.13 4.23	4.24 4.28	4.30 4.33		4.13 4.23
mpaired. am less effective at work when fatigued. am more likely to make errors in tense or hostile situations.								3.72	
npaired. am less effective at work when fatigued. am more likely to make errors in tense or hostile situations.	4.17	4.21	4.32	4.20	4.23	4.28	4.33	3.72 4.00	4.23
am less effective at work when fatigued. am more likely to make errors in tense or hostile situations. atigue impairs my performance in trying situations.	4.17 4.31	4.21 4.18	4.32 4.27	4.20 4.20	4.23 4.25	4.28 4.22	4.33 4.46	3.72 4.00 3.92	4.23 4.25
am less effective at work when fatigued. am more likely to make errors in tense or hostile situations. Fatigue impairs my performance in trying situations. PERCEPTION OF MANAGEMENT	4.17 4.31 4.19	4.21 4.18 4.05	4.32 4.27 4.19	4.20 4.20 4.24	4.23 4.25 4.18	4.28 4.22 4.16	4.33 4.46 4.38	3.72 4.00 3.92 3.81	4.23 4.25 4.18
am less effective at work when fatigued. am more likely to make errors in tense or hostile situations. Fatigue impairs my performance in trying situations. PERCEPTION OF MANAGEMENT Management in this pharmacy supports my daily efforts. Pharmacy management doesn't knowingly compromise	4.17 4.31 4.19 3.96	4.21 4.18 4.05 3.87	4.32 4.27 4.19 4.06	4.20 4.20 4.24 3.95	4.23 4.25 4.18 3.97	4.28 4.22 4.16 3.88	4.33 4.46 4.38 3.75	3.72 4.00 3.92 3.81 4.39	4.23 4.25 4.18 3.97
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When my workload becomes excessive, my performance is impaired. I am less effective at work when fatigued. I am more likely to make errors in tense or hostile situations. Fatigue impairs my performance in trying situations. PERCEPTION OF MANAGEMENT Management in this pharmacy supports my daily efforts. Pharmacy management doesn't knowingly compromise patient safety. I get adequate, timely information about events that might affect my work, from pharmacy management. The staffing levels in this pharmacy are sufficient to handle the number of patients. WORKING CONDITIONS This pharmacy does a good job of training new personnel. All the necessary information for therapeutic decisions is routinely available to me. Trainees in this pharmacy are adequately supervised.	4.17 4.31 4.19 3.96 3.89 4.58 3.68 3.68 3.45	4.21 4.18 4.05 3.87 4.03 4.21 3.87 3.35	4.32 4.27 4.19 4.06 4.15 4.54 3.96 3.59 3.61 3.30	4.20 4.24 3.95 4.07 4.22 3.79 3.73	4.23 4.25 4.18 3.97 4.03 4.40 3.82 3.61 3.75 3.42	4.28 4.22 4.16 3.88 4.06 4.55 3.60 3.37	4.33 4.46 4.38 3.75 3.73 4.29 3.62 3.34 3.51 3.14	3.72 4.00 3.92 3.81 4.39 4.48 4.49 4.35 4.25 4.11 3.89	4.23 4.25 4.18 3.97 4.03 4.40 3.82 3.61 3.75 3.42

with Respect to the Respondent's Pharmacy Workplace Type

Conclusion

- Pharmacy professionals generally have a positive view of the current safety culture. Domains such as Teamwork and Safety Culture were highly scored by pharmacy professionals and there is a general consensus that medication errors are handled appropriately when they occur by a well-coordinated pharmacy team.
- Pharmacy morale tends to differ amongst respondents from different types of pharmacies. Although respondents trust management and believe that patient safety is never knowingly or purposely compromised, there is a need for management to address staffing levels in the pharmacy team to match the number of patients in order to maintain patient safety, as well as continued efforts to train and supervise new pharmacy personnel.
- New or recent pharmacy graduates felt their input could be better received, especially in terms of patient care, and may perhaps benefit from a comprehensive pharmacy orientation/team-building program.
- As medication use continues to rise across Canada, creating and maintaining a robust safety culture will establish a strong precedent for current and future generations of pharmacy professionals to maintain and uphold patient safety.

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[†]All negatively worded items were reverse scored (1 represented strongly agree whereas 5 represented strongly disagree)