

**Implementation and utility of a short course on patient safety during health** professions training based on the WHO patient safety curriculum guide: a pilot study

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# **Introduction:**

- Curricular revision to include patient safety training in Indian health professions education courses is recommended in National Patient Safety Implementation Framework 2018-2025 (NPSIF).<sup>[1]</sup>
- "...punitive approach to adverse events and rigid workplace hierarchy" and inadequate training in patient safety is very common.<sup>[2]</sup>
- Lack of awareness and inadequate safety culture can be addressed by improved undergraduate training.
- Structured course on this subject is currently lacking in our institute.

 Table 2- Comparison of mean pre and post-test scores:

Group	Pre-test score	Post-test score	<i>p</i> value
	Mean ± SD	Mean ± SD	
Entire Cohort (n= 141)	$10.11 \pm 3.2$	$18.5\pm4.7$	<.01 *#
Medical Sciences (n= 69)	$11.6 \pm 3.3$	$20.1 \pm 4.2$	<.01 *#
Nursing Sciences (n= 32)	$8.2 \pm 2.4$	$14.2\pm4.4$	<.01 * #
Physiotherapy (n= 32)	9.3 ±2.4	$19.6 \pm 3.4$	<.01 * #
Dental Sciences (n= 8)	$7.6 \pm 1.7$	$17.08 \pm 3.9$	<.05 * ^



### Aim:

To study the utility of implementing a short course on *patient safety and* clinical risk management (PSCRM) at our institute.

# **Objectives:**

1. To create a foundational workshop on PSCRM for students of health professions courses.

2.To measure the learning gain among participants. 3. To obtain data on feasibility of such a workshop from participants.

# **Materials & Methods:**

- 1. Need for program was established through a Targeted Needs Analysis at institute level (August, 2023) using data obtained from 17 students and 22 Faculty/ Staff (survey shared via Google Forms).
- 2. 1-1/2 day workshop was designed based on WHO Patient Safety Curriculum Guides (multi-professional & medical school editions).<sup>3</sup>
- 3. IEC approval was obtained.
- 4. 5 workshops for multi-professional groups (medical, nursing, dental, physiotherapy- consenting undergraduate & post-graduate students) were conducted in December, 2023.

\* Significant at *p* < .05; <sup>#</sup> Paired *t* test; ^ Wilcoxon Signed-Rank Test

 Table 3- Retro-Pre-feedback analysis: (n= 135):

Variable	Before workshop	After workshop	<i>p</i> value
Knowledge and understanding of topic (1- Very poor to 5- Very good); Min- 26, Max- 130; 26 items		113	<.01 *
Perception of importance of topic (1- Not at all important to 5- Extremely important); Min- 26, Max- 130; 26 items	88.5	116	< .01 *

\* Significant at *p* < .05; Paired *t* test

 Table 4- Thematic Analysis of Free-response Feedback:

- 5. 30-marks pre-validated MCQs-based pre and post-testing was conducted; retro-pre feedback for perceived knowledge & importance of topics & free response feedback was also obtained.
- 6. Data analysis was done by calculating Hake's normalized learning gain (g); paired t test & Wilcoxon signed-rank test of significance of difference; and qualitative (thematic) analysis of free response feedback was performed.
- **Results:** Total workshop participants for whom pre-post data was available (n) = 141

Table 1- Hake's Normalized Learning Gain (g):

Group	Learning gain (g)	Interpretation of gain	
Entire Cohort (n=141)	0.42	42% (Proficient)	
Medical Sciences (n= 69)	0.45	45% (Proficient)	
Nursing Sciences (n= 32)	0.3	30% (Marginal)	
Physiotherapy (n= 32)	0.5	50% (Proficient)	
Dental Sciences (n= 8)	0.4	40% (Proficient)	

Emergent Themes	Frequency	Emergent Themes	Frequency
Novelty	60	<b>Relevance</b> /	48
		Importance	
<b>Good experience</b>	59	<b>Course structure</b>	16
Well-designed	59	<b>Difficult matter</b>	3
<b>Practical utility</b>	48	<b>Impractical</b> /	1
		Utopian content	

Inference & Conclusion: Workshop format of PSCRM course is an effective method of delivery to achieve learning goals.

Objective and subjective learning gains are significant. It is acceptable to the students.

Enabling factors: Teaching resources are freely available; execution of course is possible at low-cost; administrative support available Challenges: Student motivation; faculty interest; conflicting academic schedules; time commitment from facilitators

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A workshop in progress

#### **References:**

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