VIRTUAL SIMULATION IN NURSING EDUCATION: A NATIONAL SURVEY REPORT

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Virtual Simulation Workshop June 10 2021

Canadian Association of Schools of Nursing (CASN)

Association canadienne des écoles de sciences infirmières (ACESI)





- Technological advancements
- COVID-19 context
- Rapid pivot to accelerated use of virtual simulation
- Canadian National Virtual Simulation advisory committee created
- Developed survey for national snapshot

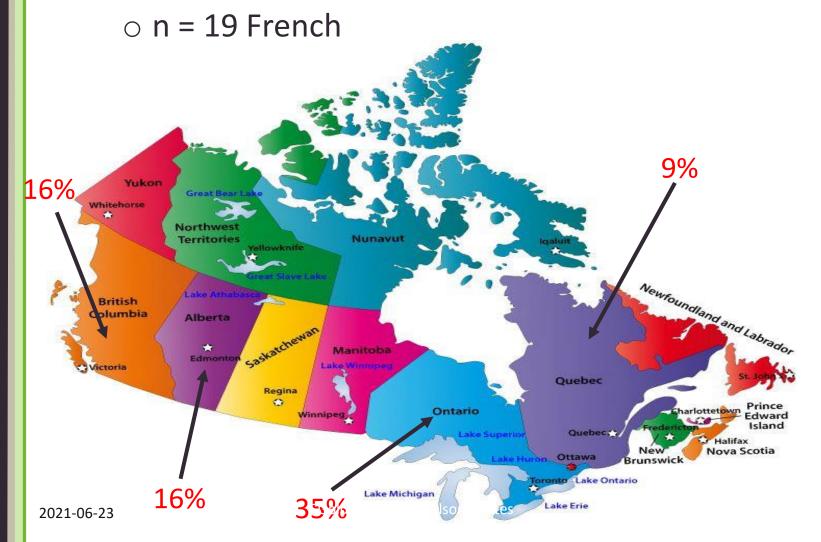
SURVEY HIGHLIGHTS



DEMOGRAPHICS



- 26 item online survey Sept 2020
- To 90 member schools, website & social media
- Response rate = 72% (n = 186)



Demographics (n = 186)

Professional Role	Count	%	
UG Faculty	123	55	
Graduate Faculty	28	12	
NP Faculty	12	5	
UG Clinical Instructor	23	10	
Other	39	17	
Employer	Count	%	
University	97	59	
College	57	35	
Other	10	6	
Experience	Count	%	
< 2 years	10	6	
2 - 5 years	16	10	
5 – 10 years	33	21	
10+ years	102	63	



USE OF VIRTUAL SIMULATION



What types of remotely delivered virtual simulation have you used or do you currently use in your teaching?

#	Answer	%	n
1	Screen-based Simulations	30	99
2	Serious Games	18	58
3	Virtual Patients	25	81
4	Virtual Environments	11	37
5	Virtual Reality Simulations	5	17
7	Other	4	12
8	No virtual simulation used to date	8	27



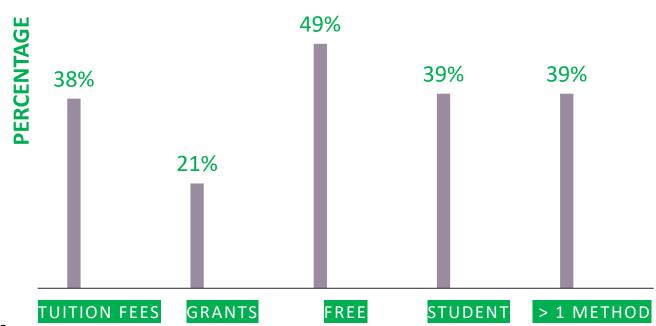
What clinical practice areas are targeted?

- 59% of respondents reported acute care
- Other areas included
 - Pediatrics 37%
 - Mental health 35%
 - Maternity 35%
 - Community Health 33%
 - Gerontology 27%
 - Critical Care/Primary Care 19%

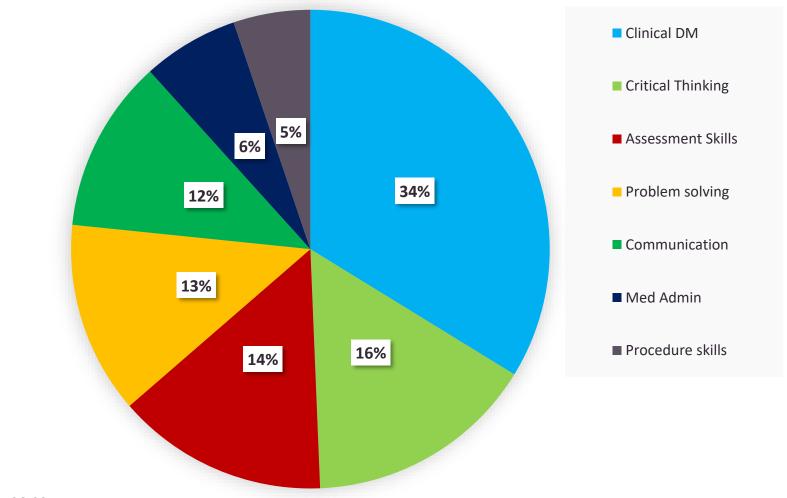


- 51% used in Clinical Courses vs 34% in Theory Courses
- Reasons:
 - 34% learning activity
 - 34% preparation for clinical practice
 - 24% remediation

WHO PAYS?



I have used virtual simulations to foster the development of:



How do you prepare for and assess students in virtual simulation?

- 80% of respondents report using at least one type of pre-briefing activity (e.g., required reading, orientation, learning outcomes)
- 24% of respondents report a debriefing session while < 20 % held a group discussion after virtual simulation

BENEFITS & CHALLENGES OF USING VIRTUAL SIMULATION



What are some benefits and challenges to using virtual simulation in your program?

Benefits

- Increase knowledge
- Judgement/critical thinking
- Safe space
- High risk/low occurrence
- Consistency
- Repetition/mastery
- Supplement clinical time

Challenges

- Cost
- Workload
- Lack of faculty development
- Resistance
- Internet access
- No real patient elements
- Task focused
- Lack of faculty development
- Difficult to select

COVID-19 EFFECTS



Use of Virtual Simulation d/t COVID-19

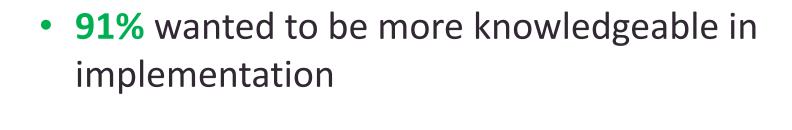
 73% of Nursing Schools report that the number of virtual simulations being used are increasing

 74% of respondent's report that virtual simulations are being introduced in areas where they were not previously used

 70% report using virtual simulation to replace clinical hours in Baccalaureate program(s)

 24% used virtual simulation to replace clinical hours in its Nurse Practitioner programs as a result of COVID-19.

 40% unsure if virtual simulation could be use to replace clinical



 88% more information on best practices (prebriefing & debriefing)

80% funds to support virtual simulation

78% wanted more technical support



THANK YOU!

Please contact us with any questions:

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