Appendix 1: Initial Delphi Survey (English)

Initial Delphi Survey

(First page)

Which scenarios in hyperbaric oxygen therapy are relevant to simulation-based education?

Despite the broad implementation of simulation-based education in the majority of healthcare areas, simulation has yet to be used in the context of hyperbaric medicine education.

We are looking for healthcare providers involved in the provision of hyperbaric oxygen therapy (hyperbaric physicians and allied health providers, e.g. Respiratory Therapists or Registered Nurses) to help by completing this online survey.

Learn more about how you can help us develop a simulation-based education curriculum for hyperbaric oxygen therapy to ultimately improve practice and patient safety, and get a chance to win a \$200 (CAD) Visa gift card.

(Second page)

Your participation in this Delphi survey will help us to determine which scenarios in hyperbaric oxygen therapy should be included in the development of a simulation-based education curriculum.

This questionnaire is the first round of the survey. The number of rounds will be determined based on response agreement, but will most likely involve a total of 2. If you participate in the first round of the survey, you will be asked to participate in all subsequent rounds.

It will take approximately 15 minutes to complete each round. Your participation in this study is completely voluntary. You can choose not to participate, or decide to participate now and then

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change your mind without loss of any benefit that you are otherwise entitled to. Participation and your individual responses will remain confidential.
If you complete all rounds, you can choose to be entered into a draw for a \$200 (CAD) Visa gift card.
By completing this survey, your consent to participate in this study is implied.
(Third page)
INSTRUCTIONS:
 Rank the scenarios provided according to how relevant you believe they are for inclusion in the simulation-based curriculum. Answer all questions with a ranking number. A space is also provided for you to include additional comments.
We will also ask you to provide some brief demographic information and to forward the survey link to your colleagues (optional).
Once we have received responses from all participants, we will collate and summarize the findings and develop the second questionnaire. You should receive this within 60 days.
(Fourth page)
1. Please select your profession:
□ Physician
□ Registered Nurse
☐ Respiratory Therapist
☐ Other (Specify):

2. Are	you a trainee?
	Yes
	No
3. Plea	ase indicate the country in which you are currently practicing: (***DROP DOWN
MENU	J***)
	Canada
	United States
	Afghanistan
	Albania
	Algeria
	<u>Andorra</u>
	Angola
	Antigua and Barbuda
	Argentina
	<u>Armenia</u>
	<u>Aruba</u>
	<u>Australia</u>
	Austria
	<u>Azerbaijan</u>
	Bahamas, The
	<u>Bahrain</u>
	Bangladesh
	Barbados
	<u>Belarus</u>
	<u>Belgium</u>
	Belize
	Benin

□ Bhutan

Bolivia
Bosnia and Herzegovina
Botswana
<u>Brazil</u>
<u>Brunei</u>
<u>Bulgaria</u>
Burkina Faso
<u>Burma</u>
<u>Burundi</u>
Cambodia
Cameroon
<u>Cabo Verde</u>
Central African Republic
Chad
Chile
China
Colombia
Comoros
Congo, Democratic Republic of the
Congo, Republic of the
Costa Rica
Cote d'Ivoire
Croatia
Cuba
Curacao
Cyprus
Czechia
<u>Denmark</u>
<u>Djibouti</u>

Dominican Republic		
East Timor (see <u>Timor-Leste</u>)		
<u>Ecuador</u>		
<u>Egypt</u>		
El Salvador		
Equatorial Guinea		
<u>Eritrea</u>		
<u>Estonia</u>		
<u>Ethiopia</u>		
<u>Fiji</u>		
<u>Finland</u>		
<u>France</u>		
<u>Gabon</u>		
Gambia, The		
<u>Georgia</u>		
Germany		
<u>Ghana</u>		
Greece		
Grenada		
Guatemala		
<u>Guinea</u>		
<u>Guinea-Bissau</u>		
Guyana		
<u>Haiti</u>		
<u>Holy See</u>		
<u>Honduras</u>		
Hong Kong		
<u>Hungary</u>		
<u>Iceland</u>		

□ <u>India</u>

<u>Indonesia</u>
<u>Iran</u>
<u>Iraq</u>
Ireland
<u>Israel</u>
<u>Italy</u>
<u>Jamaica</u>
<u>Japan</u>
<u>Jordan</u>
<u>Kazakhstan</u>
<u>Kenya</u>
<u>Kiribati</u>
Korea, North
Korea, South
Kosovo
<u>Kuwait</u>
<u>Kyrgyzstan</u>
Laos
<u>Latvia</u>
<u>Lebanon</u>
<u>Lesotho</u>
<u>Liberia</u>
<u>Libya</u>
<u>Liechtenstein</u>
<u>Lithuania</u>
<u>Luxembourg</u>
Macau
Macedonia
Madagascar
<u>Malawi</u>

Malaysia
Maldives
<u>Mali</u>
<u>Malta</u>
Marshall Islands
<u>Mauritania</u>
<u>Mauritius</u>
<u>Mexico</u>
Micronesia
<u>Moldova</u>
<u>Monaco</u>
<u>Mongolia</u>
Montenegro
Morocco
<u>Mozambique</u>
<u>Namibia</u>
<u>Nauru</u>
Nepal
Netherlands
New Zealand
<u>Nicaragua</u>
<u>Niger</u>
<u>Nigeria</u>
North Korea
Norway
<u>Oman</u>
<u>Pakistan</u>
<u>Palau</u>
Palestinian Territories

□ Panama

Papua New Guinea
<u>Paraguay</u>
<u>Peru</u>
<u>Philippines</u>
Poland
<u>Portugal</u>
Qatar
Romania
Russia
<u>Rwanda</u>
Saint Kitts and Nevis
Saint Lucia
Saint Vincent and the Grenadines
<u>Samoa</u>
San Marino
Sao Tome and Principe
Saudi Arabia
Senegal
<u>Serbia</u>
<u>Seychelles</u>
Sierra Leone
Singapore
Sint Maarten
Slovakia
Slovenia
Solomon Islands
Somalia
South Africa
South Korea
South Sudan

<u>Spain</u>
Sri Lanka
Sudan
<u>Suriname</u>
Swaziland
Sweden
Switzerland
<u>Syria</u>
<u>Taiwan</u>
<u>Tajikistan</u>
<u>Tanzania</u>
<u>Thailand</u>
Timor-Leste
<u>Togo</u>
<u>Tonga</u>
Trinidad and Tobago
<u>Tunisia</u>
<u>Turkey</u>
<u>Turkmenistan</u>
<u>Tuvalu</u>
<u>Uganda</u>
<u>Ukraine</u>
United Arab Emirates
United Kingdom
<u>Uruguay</u>
<u>Uzbekistan</u>
<u>Vanuatu</u>
<u>Venezuela</u>
<u>Vietnam</u>

□ <u>Yemen</u>

□ <u>Zambia</u>	
□ Zimbabwe	
. How many post-training years of experience do you have?	
Fifth page)	

5. Please rate each of the scenarios below in terms of how relevant they are for inclusion in a simulation-based education curriculum for hyperbaric oxygen therapy.

Please add AND rank any additional scenarios you feel are missing.

1 indicates least relevant/least likely to benefit from simulation practice and 5 indicates most relevant/most likely to benefit from simulation practice.

Scenarios should be rated according to the following criteria:

- The clinical scenario should be either high stakes (i.e. if an optimal course of actions is not implemented in a timely manner, the patient may suffer severe consequences) or lower stakes but with a high potential for becoming critical if the optimal actions are not followed (e.g. intubated and ventilated child who undergoes HBOT);
- Training on this clinical scenario is best done with the use of a full-body mannequin versus other potential educational modalities.

Clinical scenario	Rating	IF UNABLE TO JUDGE:
	(1=least relevant; 5=most relevant)	Please explain why you
		indicated "unable to
		judge"

Cardiac arrest in the	□ 1 □ 2 □ 3 □ 4 □ 5 □ Unable to judge	
hyperbaric chamber.		
Seizure in the chamber	□ 1 □ 2 □ 3 □ 4 □ 5 □ Unable to judge	
Fire in the chamber	□ 1 □ 2 □ 3 □ 4 □ 5 □ Unable to judge	
Pneumothorax in the	\square 1 \square 2 \square 3 \square 4 \square 5 \square Unable to judge	
chamber		
Intubated and	□ 1 □ 2 □ 3 □ 4 □ 5 □ Unable to judge	
ventilated patient in the		
chamber		
Newborn patient in the	\Box 1 \Box 2 \Box 3 \Box 4 \Box 5 \Box Unable to judge	
chamber.		
Panic attack due to	\Box 1 \Box 2 \Box 3 \Box 4 \Box 5 \Box Unable to judge	
claustrophobia in the		
chamber.		
Chest pain in the	□ 1 □ 2 □ 3 □ 4 □ 5 □ Unable to judge	
chamber		
Shortness of breath in	□ 1 □ 2 □ 3 □ 4 □ 5 □ Unable to judge	
the chamber		
	'	-
6. If you have any further comments, please list them below:		

PLEASE FORWARD THIS LINK TO YOUR COLLEAGUES: (survey link)