

Dear healthcare providers:

You are kindly invited to participate in a research study entitled (**Perception of Healthcare Providers in ICU of Delaying Extubation in Saudi Arabia**) that will be conducted by senior respiratory therapy students at Taibah University.

The purpose of this study is to explore the causes for delaying extubation after the patient has successfully passed SBT in the ICU from a multidisciplinary perspective.

The questionnaire will take 3-5 minutes to complete, and it is completely voluntary to participate in the study.

The data will be used confidentially and for research purposes only.

Target population: Healthcare professionals (staff physicians, resident physicians, nurses, pharmacists, and respiratory therapists) working in intensive care units (ICUs) in the cities of Madinah and Riyadh, Saudi Arabia.

By completing this survey, you agree to participate in this study.

If you have any questions about the research, you can contact the supervisor of the study:

Dr. Fahad Alahmadi

Taibah University

Email: fhrahmadi@taibahu.edu.sa

Thank you for participating in our research.

Survey

Section 1: Demographic data:

1. Gender:

- ☐ Male
- ☐ Female

2. Age:

- ☐ 20-29
- ☐ 30-39
- ☐ 40-49
- ☐ 50-59
- ☐ 60-69
- ☐ +70

3. Nationality:

- ☐ Saudi
- ☐ Non-Saudi, please specify.....

4. What is your occupation:

- ☐ ICU consultant
- ☐ Critical care fellow
- ☐ Critical care attending
- ☐ Medical resident
- ☐ Respiratory therapist
- ☐ Respiratory therapist (Internship year)
- ☐ Nurse
- ☐ Nurse (ICU-Internship year)
- ☐ Other, please specify.....

5. In which city is the Intensive Care Unit (ICU) where you currently work located?

- ☐ Madinah
- ☐ Riyadh

6. Which intensive care unit do you work in? (Select all that apply)

- ☐ Adult ICU
- ☐ Neonate ICU
- ☐ Pediatric ICU
- ☐ Cardiac ICU

- Surgical ICU
- Burn unit
- Medical ICU

7. Number of years of professional experience:

- 1-5 years
- 6-10 years
- 11-15 years
- 16-20 years
- +20 years

8. Numbers of years of ICU experience:

- 1-5 years
- 6-10 years
- 11-15 years
- 16-20 years
- +20 years

9. Do you know what a spontaneous breathing trial (SBT) is?

- Yes
- No

10. Indicate your SBT from the following:

- PEEP=0 and Pressure Support (PS)=5 cmH₂O
- PEEP=5 and Pressure Support (PS)=0 cmH₂O
- Automatic tube compensation (ATC)
- Other, please specify

Section 2:

1. In your estimation, how long (on average) does it take to extubate a patient after she/he has passed a spontaneous breathing trial (SBT) on your unit?

- 0-1 hour
- 1-3 hours
- 3-6 hours
- 6-12 hours
- 12-24 hours
- > 24 hours

2. In your opinion, how close to ideal is the timing between passing an SBT and extubation?

- Too long (we need to go faster)
- Just about right
- Too short (we need to go slower)

3. Based on your understanding of the extubation policy, who can place an order for extubation? (Select all that apply)

- ICU consultant
- Critical care fellow
- Critical care attending
- Medical resident
- Respiratory therapist
- Charged nurse
- Other, please specify.....

4. Based on your understanding of the extubation policy, who needs to be present at the patient's bedside for extubation to occur? (Select all that apply)

- ICU consultant
- Critical care fellow
- critical care attending
- Medical intern/ resident
- Respiratory therapist
- Charged nurse
- Other, please specify.....

5. How often do you feel comfortable evaluating a patient and placing an extubation order for a patient for which you are caring?

- Not applicable, in my role I do not order extubations
- 0-25%
- 26-50%
- 51-75%
- > 76%

6. Do you believe delays in extubation timing negatively affect patient outcomes?

1= Not at all

2= Not very much

3= Neutral

4= Somewhat

5= Very much

Section 3:

Please take a moment to consider how the following factors contribute to the time between a patient passing a spontaneous breathing trial and endotracheal extubation. Choose the number/statement that best reflects your belief.

Statement	Not at all	Not very much	Neutral	Somewhat	Very much
Failures in communication between doctors, nurses, and respiratory therapists.					
Physicians have too many patients.					
Nurses have too many patients.					
Respiratory therapists have too many patients.					
The bedside healthcare provider does not feel comfortable making an extubation decision.					
Extubation not being as high of a priority as other things.					
No order placed in computer.					
No clear extubation protocol.					
Distraction of healthcare team due to long hours and busy environment.					
Physician rounding on other patients.					
Waiting for attending or critical care physician.					

Nighttime covering team defers to daytime team.					
Other rounds/requirements of the provider.					

1. Please describe what you believe are the main causes in the delay between a patient passing a SBT and extubation.

2. Please describe what you believe should be done to decrease the delay between a patient passing a SBT and extubation.