

## Post-VR Training Survey

### Knowledge Section

List the three anatomical landmarks to mark the Furlow palatoplasty

1. Anterior nasal spine, posterior nasal spine, greater palatine foramen
2. Anterior nasal spine, lesser palatine foramen, base of uvula
3. Base of uvula, posterior nasal spine, hook of hamulus
4. Base of uvula, posterior nasal, greater palatine foramen

Which of these flaps contain the levator muscle?

1. Mucoperiosteal flap of the hard palate
2. Posterior rotating oral mucosa flap
3. Anterior rotating nasal mucosa flap
4. Anterior rotating oral mucosa flap

What structure should be transected for full transposition of the levator muscle?

1. Tensor veli palatini
2. Palatoglossus
3. Palatopharyngeus
4. Hook of the hamulus

Where are the incisions placed for the Children's hospital of Philadelphia's modification of the Furlow palatoplasty?

1. Across the soft palate to hard palate junction
2. Along the medial aspect of the cleft palate
3. Lateral to the soft palate
4. Across the greater palatine artery

What are the structural changes to the palate and pharynx that one should expect from the Furlow palatoplasty?

1. Shortening of the soft palate only
2. Lengthening of the soft palate only
3. Lengthening of the hard palate only
4. Lengthening of the soft palate and sphincteroplasty of the pharynx

How many flaps are there in the Furlow palatoplasty?

1. 2
2. 3
3. 4
4. 6

What is the lateral anatomical landmark to designate the direction of the lateral nasal mucosa incision?

1. Anterior nasal spine
2. Eustachian tube
3. Posterior nasal spine
4. Greater palatine foramen

What is the position of the levator veli palatini muscle in the unrepaired cleft palate?

1. Posteriorly rotated
2. Medially oriented
3. Laterally oriented
4. Anteriorly rotated

Answers: 3, 2, 1, 3, 2, 3, 2, 4

### **Confidence Section**

After the training, I am more confident using virtual reality as an education tool.

1. Strongly agree
2. Somewhat agree
3. Neither agree nor disagree
4. Somewhat disagree
5. Strongly disagree

After the training, I have a better understanding of the Furlow cleft palate repair technique

1. Strongly agree
2. Somewhat agree
3. Neither agree nor disagree
4. Somewhat disagree
5. Strongly disagree

After the training, I believe that virtual reality should be incorporated into resident surgical education

1. Strongly agree
2. Somewhat agree
3. Neither agree nor disagree
4. Somewhat disagree
5. Strongly disagree

### **Student Evaluation of Educational Quality Survey Section**

The virtual learning model was stimulating

1. Strongly agree
2. Somewhat agree
3. Neither agree nor disagree
4. Somewhat disagree
5. Strongly disagree

The virtual learning model increased my interest in pediatric cleft and craniofacial care

1. Strongly agree
2. Somewhat agree
3. Neither agree nor disagree
4. Somewhat disagree
5. Strongly disagree

The virtual learning model instructions were clear

1. Strongly agree
2. Somewhat agree
3. Neither agree nor disagree
4. Somewhat disagree
5. Strongly disagree

The virtual learning model was an effective way to teach cleft palate repair skills

1. Strongly agree
2. Somewhat agree
3. Neither agree nor disagree
4. Somewhat disagree
5. Strongly disagree

I would recommend this virtual learning model to others interested in learning cleft palate surgical repair

1. Strongly agree
2. Somewhat agree
3. Neither agree nor disagree
4. Somewhat disagree
5. Strongly disagree

After the simulation, my belief that virtual reality should be incorporated into my surgical training has

1. Increased
2. Stayed the same
3. Decreased

### **Additional VR Measures Section**

My experience in the virtual operation room seemed consistent with my experiences in the real world

1. Strongly agree
2. Somewhat agree
3. Neutral
4. Somewhat disagree
5. Strongly disagree

Learning to operate this type of virtual reality program is easy for me

1. Strongly agree
2. Somewhat agree
3. Neither agree nor disagree
4. Somewhat disagree
5. Strongly disagree

This type of virtual reality learning program helps me to have a better overview of the content learned

1. Strongly agree
2. Somewhat agree
3. Neither agree nor disagree
4. Somewhat disagree
5. Strongly disagree

This type of virtual reality learning program makes the comprehension easier

1. Strongly agree
2. Somewhat agree
3. Neither agree nor disagree
4. Somewhat disagree
5. Strongly disagree

Virtual reality simulations enable me to reflect on how I learn

1. Strongly agree
2. Somewhat agree
3. Neither agree nor disagree
4. Somewhat disagree
5. Strongly disagree

I enjoyed the experience

1. Strongly agree
2. Somewhat agree
3. Neither agree nor disagree
4. Somewhat disagree
5. Strongly disagree

After the guided training, I would feel comfortable doing the simulation alone

1. Extremely uncomfortable
2. Somewhat uncomfortable
3. Neither agree nor disagree
4. Somewhat comfortable
5. Extremely comfortable

Did you feel any discomfort with the simulation?

1. No
2. Yes

What type (select all that apply)?

1. Nausea
2. Diaphoresis
3. Dizziness/light-headedness
4. Headache
5. Other (please specify) \_\_\_\_\_





Do you have any recommendations to improve the simulation?

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### **Educational Resource Rating Section**

On a scale of 1 - 10, with 10 being the greatest, how would you evaluate each of the resources below for your education and cleft surgical training?

0 1 2 3 4 5 6 7 8 9 10

Virtual reality	
Textbooks	
In-person lectures	
Discussion-based seminars	
Internet search	