

Appendix 1

Trainee Questionnaire Regarding the Quality of the 3D Printed Temporal Bone Model used in a Temporal Bone Dissection Course.

Level of Training Prior to the Temporal Bone Dissection Course (tick one only):

Novice:	Intermediate	Competent:
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Response options

1. Not at All	2. Some	3. Most	4. All
The landmarks were not identified and the manoeuvres were not able to be performed when compared to the cadaveric dissection	Some landmarks were identified and some of the manoeuvres achievable when compared to the cadaveric dissection	Most landmarks were identified and most of the manoeuvres achievable when compared to the cadaveric dissection	All of the landmarks were identified and all manoeuvres were achievable at a level comparable to cadaveric dissection

Questionnaire A

Please answer by ticking <u>one option</u> only per row	1	2	3	4	N/A
1. I was able to perform a cortical mastoidectomy, identify the sigmoid sinus and the sinodural angle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. I was able to expose the mastoid portion of the facial nerve using anatomical landmarks, including the short process of the incus and the lateral semicircular canal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. I was able to perform a posterior tympanotomy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. I was able to identify the components of the ossicular chain and dissect the individual components	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. I was able to visualise the basal turn of the cochlea and the round window niche	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. I was able to identify the petrous internal carotid artery and the Eustachian tube opening	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. I was able to perform a labyrinthectomy and identify the posterior, superior and lateral semi-circular canals and the vestibule	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. I was able to skeletonise the internal auditory canal (IAC) and open the canal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. Once the IAC was opened, I could identify the facial nerve within	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. Once the IAC was opened, I could identify the cochlear nerve within	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. Once the IAC was opened, I could identify the superior vestibular nerve within	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12. Once the IAC was opened, I could identify the inferior vestibular nerve within	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Questionnaire B

Please answer by ticking <u>one option</u> only per row	Strongly disagree	Disagree	Neutral	Agree	Strongly Agree
13. The setup of the dissection is realistic for training purposes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14. I noted a distracting odour during dissection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15. Based on my level of training, this model is useful for my skill development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
16. The dissection allowed me to practise new skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
17. The dissection on the model could be applied to my surgical practice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
18. I would find this model useful to practise dissection and improve my procedural skills in my own time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19. This 3D-printed temporal bone model would be helpful for training advanced Otolaryngology/Head and Neck Surgery trainees	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20. I would like to pursue a career in otology, neurotology or skull base surgery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>