



Implant Denistry @ HKU

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香港大學

THE UNIVERSITY OF HONG KONG

Studies of the impact of different methods of preclinical simulations of Impacted Mandibular Third Molar (IMTM) Extraction on the knowledge and clinical competences of dentists

Pilot test -Survey AM3D Model (**General Practitioner**):

No. _____

1. Year of graduation

2. Number IMTM cases performed before (tick the below box):

| 0-5 | 6-10 | 11-15 | More than 15 |
|-----|------|-------|--------------|
| | | | |

3. Please assess the **realism** of the **visual appearance** of the anatomic structures:

e.g. the anatomic shape and color of teeth and adjacent structures (e.g. soft tissues).

- How close to physiological human structures does the model **look** in your experience?

| | 1=not realistic | 2 | 3 | 4 | 5=very realistic |
|---------------------|-----------------|---|---|---|------------------|
| Teeth | | | | | |
| Crown | | | | | |
| Roots | | | | | |
| Soft Tissues | | | | | |
| Contour | | | | | |
| Color | | | | | |
| Bone | | | | | |
| Contour | | | | | |
| Color | | | | | |
| Nerve | | | | | |

4. Please assess the **realism** of the feel/manipulation, consistency and texture of teeth, soft tissues, nerve/vessel bundles and bone when using instruments

e.g. the resistance to drilling, surgical manipulation, elasticity or consistency soft tissues

- How close to physiological human structures do the procedures in the model **feel** like in your experience?

| | 1=not realistic | 2 | 3 | 4 | 5=very realistic |
|---------------------|-----------------|---|---|---|------------------|
| Teeth | | | | | |
| Crown | | | | | |
| Roots | | | | | |
| Soft tissues | | | | | |
| Bone | | | | | |
| Nerve | | | | | |

5. Please assess the **effectiveness** of AM3D printed model in your learning.

- How much could this exercise help you learn the actual competences required to perform this procedure?

| Parameters | 1=not effective | 2 | 3 | 4 | 5=very effective |
|---|-----------------|---|---|---|------------------|
| Practicing surgical skills | | | | | |
| Assessment of surgical difficulty of the case | | | | | |

6. Please assess the **efficiency** of AM3D printed model in helping you learn specific skills as below:

| Parameters | 1=not efficient | 2 | 3 | 4 | 5=very efficient |
|---------------------------------|-----------------|---|---|---|------------------|
| 3D understanding of the anatomy | | | | | |
| Flap design | | | | | |
| Flap elevation | | | | | |
| Bone removal | | | | | |
| Applying the elevator | | | | | |
| Tooth section | | | | | |
| Tooth removing | | | | | |
| Suturing | | | | | |

7. Can you please name any other benefits you see in this simulation exercise?

8. Can you please name any areas of improvement or deficiencies of this simulation exercise?

“End of the Survey”