**Endoscopic Ear Surgery Preliminary Questionnaire**

Note: all answers are confidential for internal use to ultimately develop a formal questionnaire to be sent out globally.

1. How many years of experience do you have with Endoscopic Ear Surgery (EES)?
   1. <1
   2. 1-3
   3. 4-7
   4. >8
2. Approximately what percentage of totally EES do you currently do (ie. Percentage of cases without a microscope)?
   1. 0%
   2. Up to 25%
   3. Up to 50%
   4. Up to 75%
   5. Up to 100 %
3. What surgeries do you use EES for?
4. Cholesteatoma removal
5. Tympanoplasty
6. Ossicular repair
7. Other
8. None of the above
9. Do you currently use any of these dedicated EES instruments?
   1. Spiggle and Theis Panetti Instrument Set
   2. Storz Endoscopic Middle Ear Surgery Instrument Set
   3. Grace Medical IWGEES Set
10. What are the factors that hinder your use of EES? (Please circle all that apply)
    1. One handed surgery
    2. Bleeding control
    3. Effect of endoscope on depth perception of the surgical field
    4. Other, please specify below:
11. What are things that you find difficult during EES? (Please circle all that apply)
12. Gripping and/or moving an ear drum graft
13. Cutting the ear drum graft into the appropriate shape
14. Gripping and/or moving cholesteatoma
15. Keeping tissues in place or in tension while cutting or dissecting
16. Keeping the operative field clean
17. Accessing areas within hidden recesses in the ear (e.g. antrum)
18. Accessing areas that are visible via endoscope (but cannot be reached by conventional instruments)
19. Keeping the endoscope lens clean
20. What functionality of instruments do you think will improve your experience with EES? (Please circle all that apply)
    1. Suction integrated with another functionality (e.g. suction + curette or suction + forceps)
    2. Suction actuated by a pedal (rather than with finger plug hole)
    3. Increasing accessibility of instrument tips to reach all areas within the viewing angle of the endoscope
    4. None
21. If there is a tool that can reach within the recesses in the middle ear, what would you like the tip function to be?
22. Gripping something (e.g. forceps)
23. Suctioning
24. Cutting
25. Dissecting
26. A combination of the above (please specify)
27. Other
28. It is unnecessary to reach within these recesses in EES

1. Rank the functions of a tool in order of importance:
2. Facilitate graft movement and positioning
3. Suction
4. Cutting
5. Gripping (e.g. cholesteatoma, bone or ear drum graft)
6. Reaching hidden areas within the ear
7. Is there a specific instrument that you have used before or seen that you would like to be adapted for use in EES?