Disclosure:

Yes, within the last 12 months, I have/had a financial arrangement or affiliation with commercial interests related to the content of this continuing education activity that requires disclosure.

**SPIGGLE & THEIS**

Partner in the field of ENT surgery and a specialist in the development, production and sale of medical ENT products
BASIC INSTRUMENTS

- 3chip HD Camera
- HD Monitor
- Hard Disk

- Rigid endoscopes:
  - Length: 15 cm; 5cm
  - Diameter: 3mm; 2,7mm; 1mm
  - Angulation: 0°; 30°; 45°; 70°
<table>
<thead>
<tr>
<th>DISADVANTAGES</th>
<th>ADVANTAGES</th>
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<tbody>
<tr>
<td>Loss of depth and binocular vision</td>
<td>Wide angle of view</td>
</tr>
<tr>
<td><strong>One-handed surgical technique</strong></td>
<td>Visualization of hidden structures such as the sinus tympani, facial recess, attic and hypotympanum</td>
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<tr>
<td>Physician training</td>
<td>Ability to visualize past the shaft of larger surgical instruments such as drills and curettes</td>
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<tr>
<td>Cost of equipment</td>
<td>Fogging and smearing of the tip of the endoscope</td>
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</tbody>
</table>
Pitfalls in Endoscopic Ear Surgery:
• Bleeding Control
• One-Hand Procedures
ADVANCED INSTRUMENTS

MOLECULAR RESONANCE SCALPEL

BONE SURGERY DEVICES

SUCTION INSTRUMENTS
THE DEVELOPMENT AND THE USE OF INSTRUMENTS IN E.E.S.
Dedicated Surgical instruments

The same characteristics of shape and length of the traditional one.

It is equipped with a suction duct.
THE DEVELOPMENT AND UTILIZATION OF SUCTION INSTRUMENTS
- Suction channel with “control hole”

- Contemporary aspiration of liquids and dissection

(washing/cleaning/dissecting)
NEW MIDDLE EAR SURGERY

World Congress on
Endoscopic Ear Surgery 3.0

June 13-15, 2019
BOSTON RENAISSANCE WATERFRONT HOTEL
SUCTION DISSECTOR VERY FINE FOR EAR DRUM
SUCTION DISSECTOR VERY FINE FOR EAR DRUM
SICKLE KNIFE - STRAIGHT CURETTE
- Dry targeted specific areas of the operative field

- Mobilization / dissection any residual cholesteatoma in difficult access areas

- "Magnifying glass" effect
HYDRO ASSISTED ENDOSCOPIC DISSECTION
NEW SUCTION ADAPTER PROTOTYPE FOR HYDRO DISSECTION
NEW PROTOTYPES FOR ENDOSCOPIC IAC SURGERY
MAIN INSTRUMENTS
Prototype

Definitive tool

THANK YOU