

# SOPHONO™

## Sophono Systems in 11 SSD Cases in Texas

*Comparison of Two Different Sound Processors with a Transcutaneous Bone Conduction Hearing System in Single-Sided Deafness Patients*  
 Presented at the Politzer Society Meeting, November 16, 2013 in Antalya, Turkey

*Summary of a Clinical Study*  
 Andrew de Jong, MD,  
 principal investigator

<b>Author</b>	<ul style="list-style-type: none"> <li>■ <b>Andrew de Jong, MD</b> Texas ENT and Allergy, Texas A&amp;M University, Bryan-College Station, TX, USA</li> </ul>																		
<b>Patients</b>	<ul style="list-style-type: none"> <li>■ 11 patients (8 female and 3 male) received Sophono hearing systems</li> <li>■ Patient ages ranged from 9 years to 78 years; median age 52 was years</li> <li>■ All patients had SSD unilateral hearing loss (4 right ears and 7 left ears)</li> </ul>																		
<b>Evaluations</b>	<table border="1"> <thead> <tr> <th>Pure-Tone Averages</th> <th>Alpha 1 (Good Ear Masked)</th> <th>Alpha 2 (Good Ear Masked)</th> </tr> </thead> <tbody> <tr> <td>BKB SIN</td> <td>Unaided</td> <td>Alpha 1 (Good Ear Masked) Alpha 2 (Good Ear Masked)</td> </tr> </tbody> </table>	Pure-Tone Averages	Alpha 1 (Good Ear Masked)	Alpha 2 (Good Ear Masked)	BKB SIN	Unaided	Alpha 1 (Good Ear Masked) Alpha 2 (Good Ear Masked)												
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<b>Timeline</b>	<ul style="list-style-type: none"> <li>■ All 11 patients were enrolled and followed between 2011 and 2012</li> </ul>																		
<b>Clinical Results</b>	<table border="1"> <thead> <tr> <th>Pure-Tone Average</th> <th>Pre-Op</th> <th>Post-Op</th> <th>Improvement</th> </tr> </thead> <tbody> <tr> <td>PTA for Alpha 1</td> <td>87.1 dB</td> <td>31.8 dB</td> <td>56.3 dB</td> </tr> <tr> <td>PTA for Alpha 2</td> <td>87.1 dB</td> <td>27.0 dB</td> <td>60.0 dB</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Bamford-Kowal-Bench Speech-In-Noise</th> <th>Signal-to-Noise Ratio</th> </tr> </thead> <tbody> <tr> <td>BKB SIN with Alpha 1</td> <td>Same as for good ear</td> </tr> <tr> <td>BKB SIN with Alpha 2</td> <td>1.9 dB</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>■ 1 of 11 patients experienced a minor skin irritation that quickly resolved.</li> </ul>	Pure-Tone Average	Pre-Op	Post-Op	Improvement	PTA for Alpha 1	87.1 dB	31.8 dB	56.3 dB	PTA for Alpha 2	87.1 dB	27.0 dB	60.0 dB	Bamford-Kowal-Bench Speech-In-Noise	Signal-to-Noise Ratio	BKB SIN with Alpha 1	Same as for good ear	BKB SIN with Alpha 2	1.9 dB
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<b>Conclusion</b>	<ul style="list-style-type: none"> <li>■ This is a straightforward surgical procedure requiring no special surgical tools.</li> <li>■ Outcomes were consistent with percutaneous options, but using a system that has low complication rates and is MRI compatible.</li> <li>■ Because the Sophono has no external abutment, it provides cosmetic skin care advantages for patients.</li> </ul>																		

Rx only. Refer to product instruction manual/package insert for instructions, warnings, precautions and contraindications.

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