Supplemental Material S1. Average differences within each frequency band: additional details.

MILD HEARING LOSS: Phonak Sky M50-PR

No Cap VS Hanna Anderson (Solid) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	-1	0	0	0	0	0	0	0	0	+1
Difference in dB SPL (55 dB SPL Input)	0	+1	0	0	0	0	0	+1	-1	0

No Cap VS Hanna Anderson (Print) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	-1	0	0	0	0	0	0	+1	0	0
Difference in dB SPL (55 dB SPL Input)	0	+1	+1	0	0	0	0	+1	0	0

No Cap VS Jelly Tree (no mesh) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	-1	0	0	0	0	0	0	+1	0	+1
Difference in dB SPL (55 dB SPL Input)	0	+1	+1	0	0	0	+1	+1	0	+1

No Cap VS Jelly Tree (mesh) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	-2	-1	0	-1	0	0	0	0	0	+1
Difference in dB SPL (55 dB SPL Input)	0	0	0	0	0	0	0	0	-1	+1

Moderately-Severe Loss: Phonak Sky M50-PR

No Cap VS Hanna Anderson (Solid) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	0	0	0	+1	0	-2	-3	-1	0	0
Difference in dB SPL (55 dB SPL Input)	0	+1	0	0	0	+1	-1	0	-1	0

No Cap VS Hanna Anderson (Print) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	0	0	0	+1	0	-2	-3	-1	-1	-1
Difference in dB SPL (55 dB SPL Input)	0	+1	0	0	0	+1	-1	0	-2	-2

No Cap VS Jelly Tree (no mesh) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	0	0	0	+1	0	-2	-3	-1	0	-1
Difference in dB SPL (55 dB SPL Input)	0	+1	0	0	0	+1	0	0	0	-1

No Cap VS Jelly Tree (mesh) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	0	0	0	0	0	-2	-3	-1	0	0
Difference in dB SPL (55 dB SPL Input)	0	0	0	0	0	+1	0	0	-1	-1

Gradual Sloping Hearing Loss: Phonak Sky M50-PR

No Cap VS Hanna Anderson (Solid) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	-1	0	0	0	0	0	-1	-1	0	-1
Difference in dB SPL (55 dB SPL Input)	0	+1	0	0	0	-1	-1	+1	-1	0

No Cap VS Hanna Anderson (Print) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	-1	0	0	0	0	+1	-1	-1	+1	+2
Difference in dB SPL (55 dB SPL Input)	0	+1	0	0	0	0	-1	0	0	+3

No Cap VS Jelly Tree (no mesh) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	-1	0	0	0	0	+1	0	-1	0	-6
Difference in dB SPL (55 dB SPL Input)	0	+1	0	0	0	0	-1	0	-1	-5

No Cap VS Jelly Tree (mesh) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	0	0	0	-1	0	+1	0	-1	+1	-3
Difference in dB SPL (55 dB SPL Input)	0	0	0	0	0	0	0	0	-1	-1

Profound Hearing Loss: Phonak Sky M50-SP

No Cap VS Hanna Anderson (Solid) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	0	0	0	0	+1	0	0	0	+1	0
Difference in dB SPL (55 dB SPL Input)	-1	+1	+1	+2	+1	0	0	+1	+2	0

No Cap VS Hanna Anderson (Print) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	0	0	0	0	+1	0	0	-1	+1	+1
Difference in dB SPL (55 dB SPL Input)	-1	+1	+1	+2	+1	0	0	-2	+1	+1

No Cap VS Jelly Tree (no mesh) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	0	0	+1	0	+1	0	0	+1	0	-2
Difference in dB SPL (55 dB SPL Input)	0	+1	+2	+2	+1	0	-1	+1	-1	+2

No Cap VS Jelly Tree (mesh) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	0	0	+1	0	+1	0	-2	+1	-1	-1
Difference in dB SPL (55 dB SPL Input)	0	+1	+2	+3	+1	0	-3	0	0	+1

Profound Hearing Loss: Oticon Xceed Play 1 UP

No Cap VS Hanna Anderson (Solid) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	0	0	+2	+2	+1	0	+1	+1	0	+1
Difference in dB SPL (55 dB SPL Input)	-1	0	-1	0	+1	+1	+1	+1	0	0

No Cap VS Hanna Anderson (Print) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	0	0	+1	+2	+1	0	+2	+2	0	-1
Difference in dB SPL (55 dB SPL Input)	-1	0	+1	+1	+1	+1	+2	+3	+1	+1

No Cap VS Jelly Tree (no mesh) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	0	0	+1	+1	+1	0	+1	+1	0	-1
Difference in dB SPL (55 dB SPL Input)	-1	0	+1	+1	+1	+1	+1	+1	0	0

No Cap VS Jelly Tree (mesh) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	+1	0	+1	+2	+1	0	0	+1	-1	-1
Difference in dB SPL (55 dB SPL Input)	-1	0	0	-1	+1	0	0	+1	-1	0

Mild Hearing Loss: Oticon OPN Play 2 PP

No Cap VS Hanna Anderson (Solid) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	0	0	+1	-1	0	+1	-1	0	-1	-2
Difference in dB SPL (55 dB SPL Input)	0	0	0	0	0	0	0	0	-1	-2

No Cap VS Hanna Anderson (Print) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	0	0	+1	-1	0	0	-1	0	0	-4
Difference in dB SPL (55 dB SPL Input)	0	0	0	0	0	0	0	0	+1	-3

No Cap VS Jelly Tree (no mesh) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	-1	0	+1	0	0	+1	-1	+1	0	0
Difference in dB SPL (55 dB SPL Input)	-1	0	0	+1	0	0	0	+1	0	0

No Cap VS Jelly Tree (mesh) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	0	0	0	-1	0	0	-1	0	-1	-1
Difference in dB SPL (55 dB SPL Input)	0	0	0	0	0	0	0	0	0	-1

Moderately-Severe Hearing Loss: Oticon OPN Play 2 PP

No Cap VS Hanna Anderson (Solid) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	-1	0	0	-1	0	-1	-1	0	0	-1
Difference in dB SPL (55 dB SPL Input)	+1	0	0	0	0	0	0	0	+1	-1

No Cap VS Hanna Anderson (Print) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	-1	0	0	-1	+1	-1	-1	-1	0	-1
Difference in dB SPL (55 dB SPL Input)	+1	+1	+1	+1	+1	0	+1	0	+1	0

No Cap VS Jelly Tree (no mesh) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	-1	0	-1	-1	0	-1	-1	-1	-1	-1
Difference in dB SPL (55 dB SPL Input)	+1	0	0	0	0	0	0	0	-1	-1

No Cap VS Jelly Tree (mesh) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	-1	0	-1	-1	0	-1	-1	0	-1	-1
Difference in dB SPL (55 dB SPL Input)	+1	0	0	0	0	0	0	0	-1	-1

Gradual Sloping Hearing Loss: Oticon OPN Play 2 PP

No Cap VS Hanna Anderson (Solid) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	+1	0	0	-1	0	-1	-1	-1	0	0
Difference in dB SPL (55 dB SPL Input)	0	+1	+1	0	+1	0	-1	-1	+1	-2

No Cap VS Hanna Anderson (Print) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	0	0	+1	-1	+1	0	-1	-1	-1	-1
Difference in dB SPL (55 dB SPL Input)	-1	0	+1	0	+1	0	-1	-1	-1	-2

No Cap VS Jelly Tree (no mesh) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	0	0	0	0	+1	0	0	-1	0	-1
Difference in dB SPL (55 dB SPL Input)	0	+1	+1	0	+1	0	0	0	-1	-2

No Cap VS Jelly Tree (mesh) Cap	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz
Difference in dB SPL (65 dB SPL Input)	0	0	+1	0	+1	0	+1	0	0	+1
Difference in dB SPL (55 dB SPL Input)	0	+1	+1	+1	+1	0	0	+1	0	0