



Phonak Sky™ Marvel

Love at first sound

A Sonova brand

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Learning Outcomes

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1. Participants will be able to summarize the new Phonak Sky Marvel product offering.
2. Participants will be able to compare and contrast how Sky Marvel meets both the acoustic and physical needs of pediatric patients.
3. Participants will be able to summarize the benefits of Sky M and RogerDirect.

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Laying the foundations for successful outcomes

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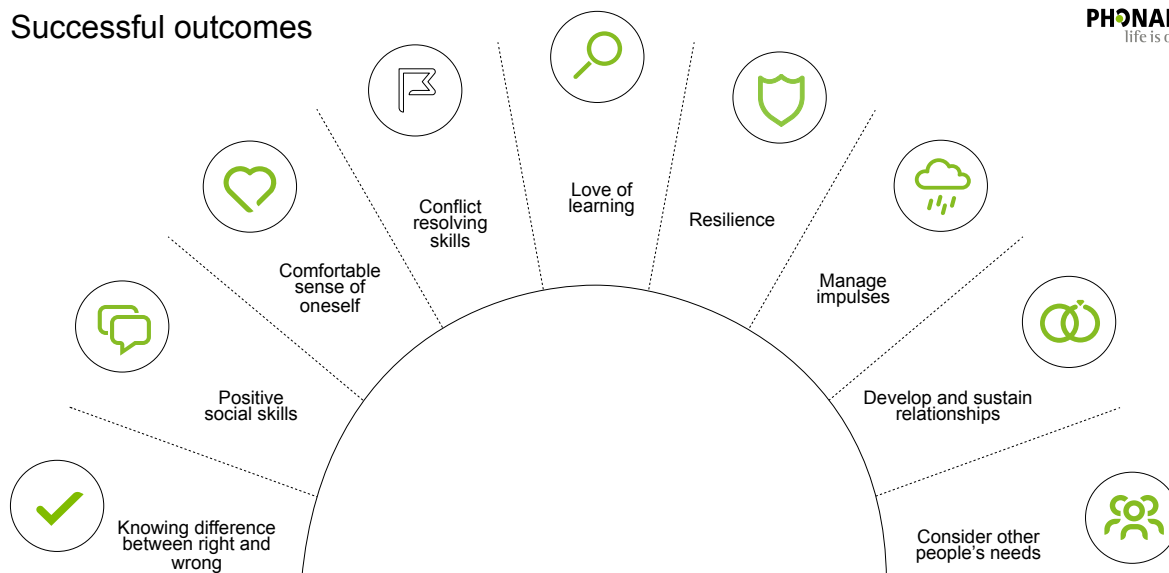
The quality and stability of relationships with those around them during their early years as being fundamental in laying the foundation for a successful outcome in many areas.



National Scientific Council on the Developing Child. (2004). Young children develop in an environment of relationships. Retrieved from <https://46y5eh11fhw3ve3ytpwxt9r-wpengine.netdna-ssl.com/wp-content/uploads/2004/04/Young-Children-Develop-in-an-Environment-of-Relationships.pdf>

Successful outcomes

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National Scientific Council on the Developing Child. (2004). Young children develop in an environment of relationships. Retrieved from <https://46y5eh11fhw3ve3ytpwxt9r-wpengine.netdna-ssl.com/wp-content/uploads/2004/04/Young-Children-Develop-in-an-Environment-of-Relationships.pdf>

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Serve and returns

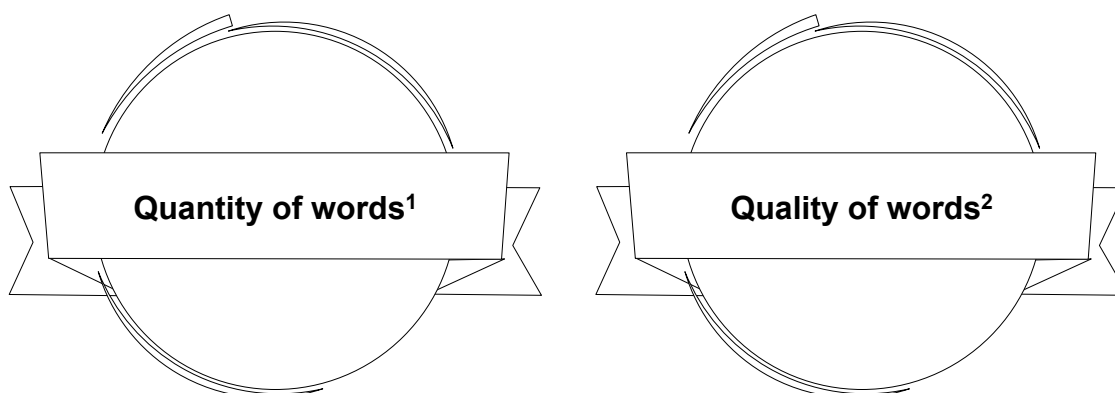
-
-
- communication strategies
- Stimulate the formation of neural connections
- Strengthen the brain architecture
- Support the development of social and communication skills

National Scientific Council on the Developing Child. (2004). Brain architecture. Retrieved from <https://developingchild.harvard.edu/science/key-concepts/brain-architecture/>, accessed August 19th, 2019.



Quantity and Quality

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1. Romeo, R. R., Leonard, J. A., Robinson, S. T., West, M. R., Mackey, A. P., Rowe, M. L., & Gabrieli, J. D. E. (2018). Beyond the 30-million-word gap: Children's conversational exposure is associated with language-related brain function. *Psychological Science*, 29(5), 700-710.
2. Trafton, A. (2018). Back-and-forth exchanges boost children's brain response to language. MIT News. Retrieved May 23rd, 2018, from: <http://news.mit.edu/2018/conversation-boost-childrens-brain-response-language-0214>, accessed August 19th, 2019.

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What children with hearing loss need?

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Clarity and richness of sound

Access to more words and conversations

Hearing aids that they can and want to wear
the full day, every day



Introducing Sky Marvel

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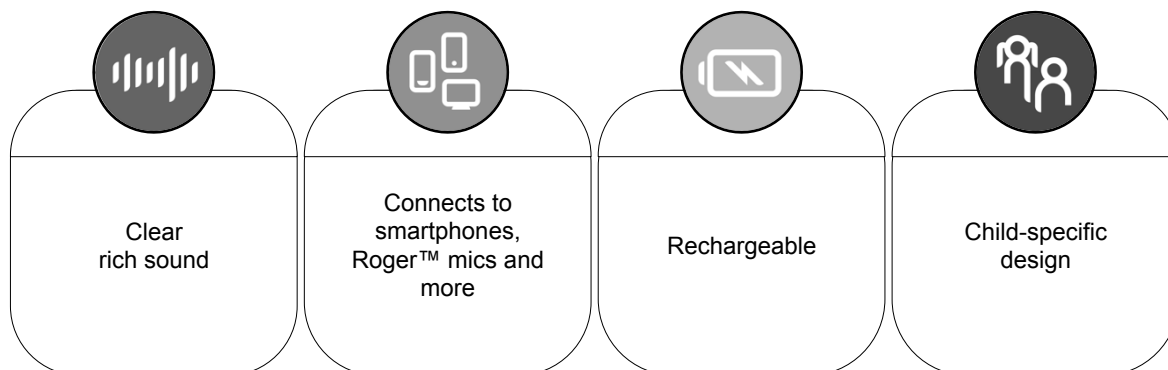


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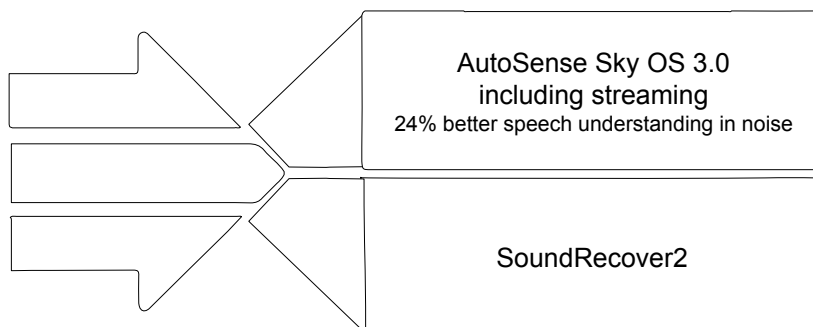
Sky Marvel offers

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Clear, rich sound

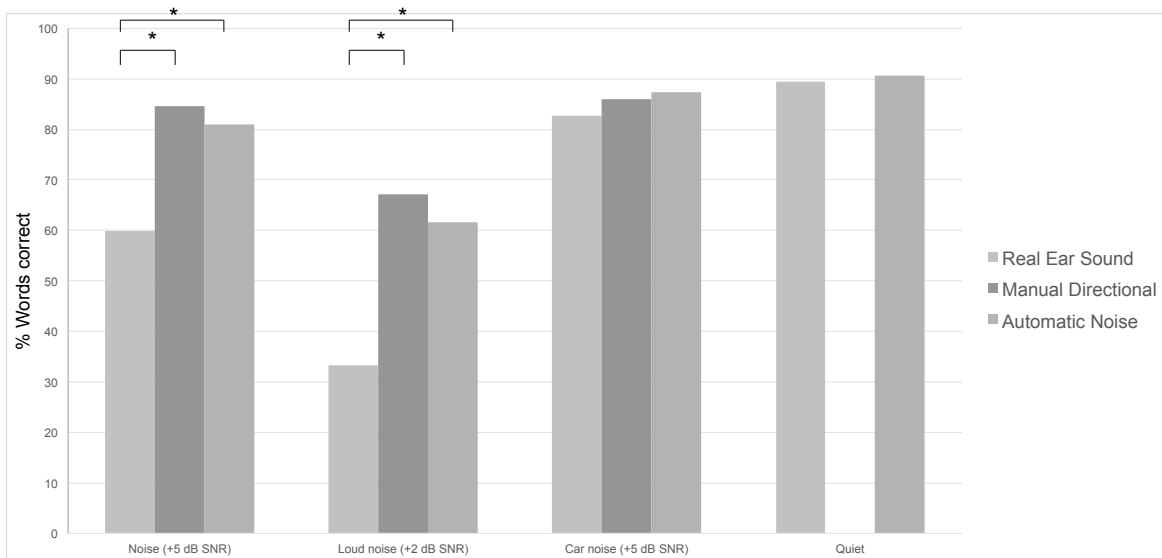
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Evidence on automatic for kids

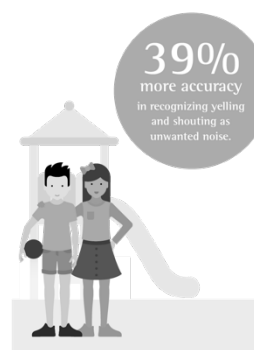
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Wolfe, J., Duke, M., Schafer, E., Jones, C., & Rakita, L. (2017). Evaluation of Adaptive Noise Management Technologies for School-Age Children with Hearing Loss. *Journal of the American Academy of Audiology*, 28(5), 415-435.

Classification of a child's day

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AutoSense OS
 vs
 AutoSense Sky OS



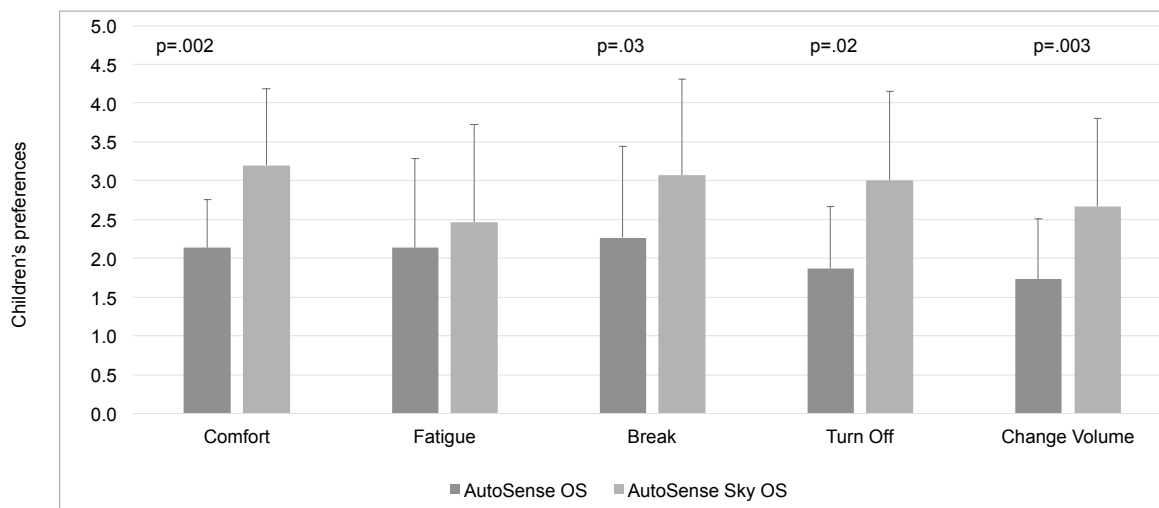
Fellner, M., Rich, S., & Jones, C. (2016). Automatic and directional for kids - Scientific background and implementation of pediatric optimized automatic functions. *Phonak Insight*, retrieved from www.phonakpro.com/evidence, accessed August 19th, 2019.

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Children consistently preferred AutoSense Sky OS

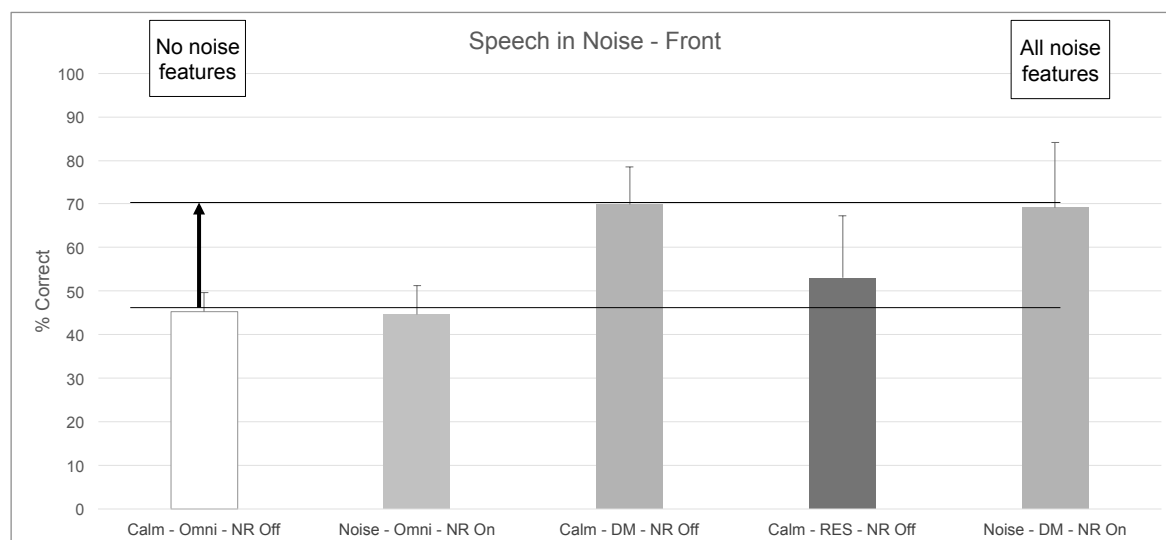
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Felner, M., Rich, S., & Jones, C. (2016). Automatic and directional for kids - Scientific background and implementation of pediatric optimized automatic functions. *Phonak Insight*, retrieved from www.phonakpro.com/evidence, accessed August 19th, 2019.

24% better speech understanding

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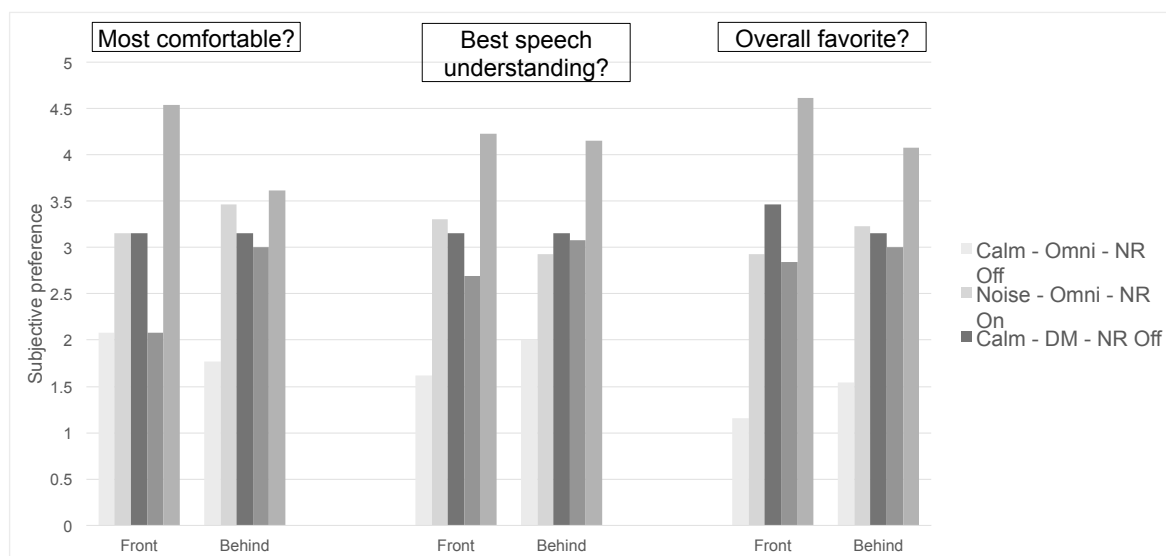
Wolfe, J., Jones, C. & Rakita, L. (2018). Noise technologies: What do kids need and what do they want?, *Phonak Field Study News*, retrieved from www.phonakpro.com/evidence, accessed August 19th, 2019.

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Kids prefer AutoSense Sky OS

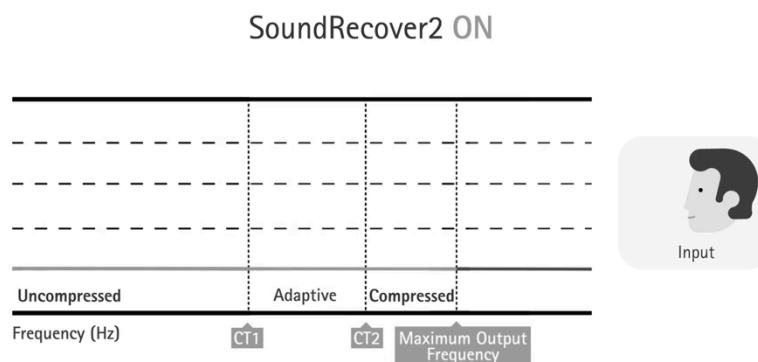
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Wolfe, J., Duke, M., Schafer, E., Jones, C., & Rakita, L. (2017). Evaluation of Adaptive Noise Management Technologies for School-Age Children with Hearing Loss. *Journal of the American Academy of Audiology*, 28(5), 415-435.

Maximizing access to speech sounds with SoundRecover2

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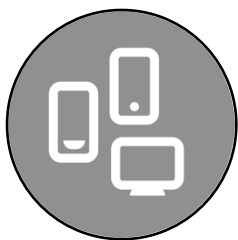


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Connects to smartphones, Roger™ mics and more

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The **world's first** pediatric hearing aids that directly stream from **both iOS and Android** devices



The **world's first** pediatric hearing aids with direct streaming of Roger



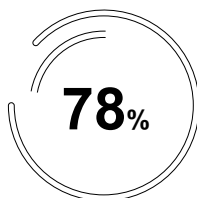
Enjoy direct streaming from multimedia sources through the TV Connector

Smart devices – clever kids

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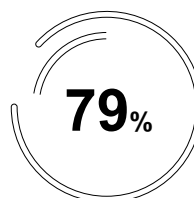


Tablet and smartphone use is widespread



of elementary school students report that they regularly use a tablet or smartphone

Schools have adopted them in education



of surveyed schools reported use of tablets in school

Ofcom. (2019). Children and parents: Media use and attitudes report 2018. Retrieved from <https://www.ofcom.org.uk/research-and-data/media-literacy-research/childrens/children-and-parents-media-use-and-attitudes-report-2018>, accessed August 19th, 2019.

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Roger at home and in school



54% better speech understanding compared to other remote mic technologies¹

5300
more words
per day!²

12%
more child-
directed speech³

Better
receptive discourse
skills⁴

Significantly better access to both **quantity**
and **quality** of language

1. Thibodeau, L. (2014). Comparison of speech recognition with adaptive digital and FM remote microphone hearing assistance technology by listeners who use hearing aids. *American Journal of Audiology*, 23(2), 201-210.
2. Benitez-Barrera, C.R., Angley G., & Tharpe, A.M. (2018). Remote microphone system use at home: Impact on caregiver talk. *Journal of Speech, Language and Hearing Research*, Vol. 61, 399-409.
3. Bacic, L. & Tharpe, A.M. (2019). Impact of remote microphone system use on access to child-directed speech when used in homes of children with hearing loss. *Field Study News*, in preparation.
4. Curran, M., Walker, E., Roush, P., & Spratford, M. (2019). Using Propensity Score Matching to Address Clinical Questions: The Impact of Remote Microphone Systems on Language Outcomes in Children Who Are Hard of Hearing. *Journal of Speech, Language, and Hearing Research*. 62 (3): 564-576.

Roger use at home

- Research conducted at Vanderbilt University published in Feb. 2018
- 10 families were observed over two consecutive weekends
- LENA (Language Environmental Analysis) technology
- Analysed the caregiver's speech from close to the child and at a distance
- Various analyses taken from this data

Benitez-Barrera, C.R., Angley G., & Tharpe, A.M. (2018). Remote microphone system use at home: Impact on caregiver talk. *Journal of Speech, Language and Hearing Research*, Vol. 61, 399-409.

Benitez-Barrera, C.R., Thompson, E., Angley, G., Woyanowski, T. & Tharpe, A.M. (2019). Remote Microphone System Use at Home: Impact on Child-Directed Speech. *Journal of Speech, Language, and Hearing Research*. 62(6): 2002-2008.

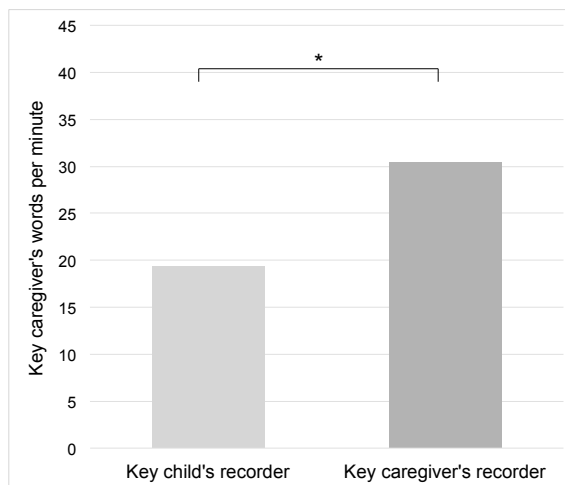
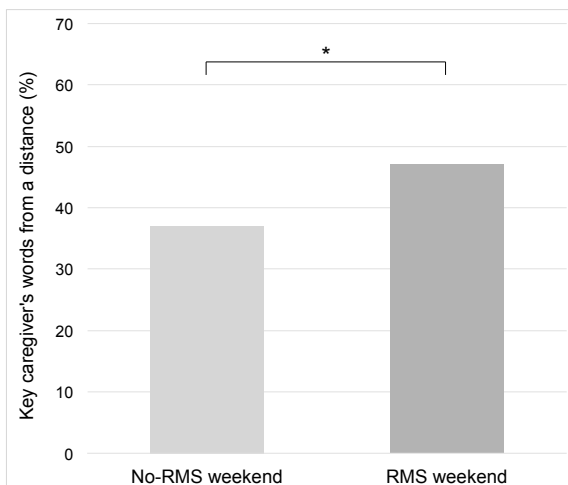


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Maximizing serve and returns

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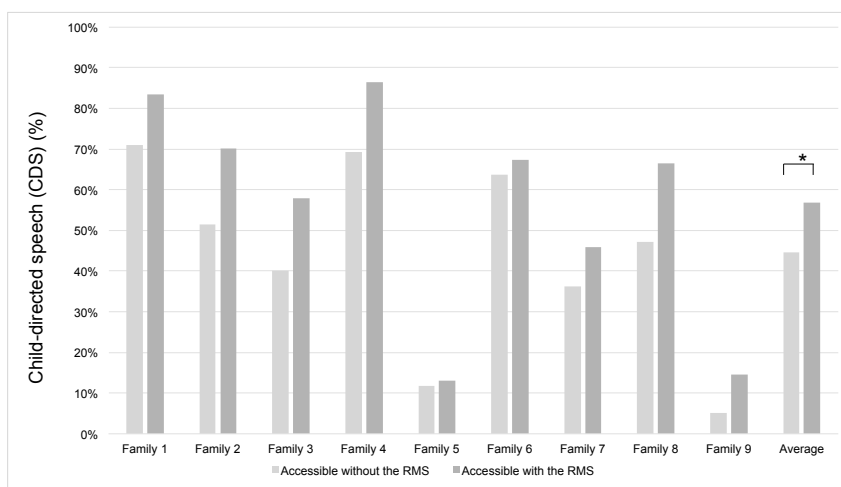
Benitez-Barrera, C.R., Angley G., & Tharpe, A.M. (2018). Remote microphone system use at home: Impact on caregiver talk. *Journal of Speech, Language and Hearing Research*, Vol. 61, 399-409.

Maximizing serve and returns

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57%
Caregiver's talk produced
was Child Directed Speech
(CDS)

12%
of CDS was away from the
child



Benitez-Barrera, C.R., Thompson, E., Angley, G., Woynarowski, T. & Tharpe, A.M. (2019). Remote Microphone System Use at Home: Impact on Child-Directed Speech. *Journal of Speech, Language, and Hearing Research*, 62(6): 2002-2008.

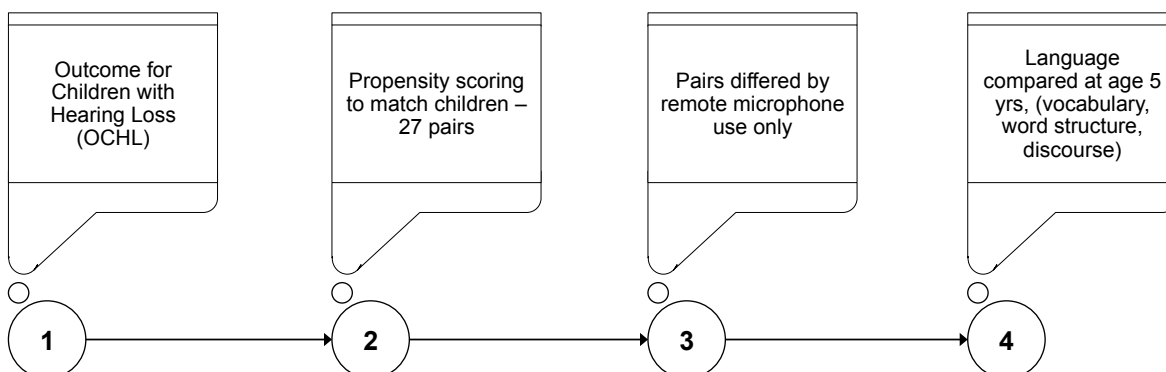
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Remote microphone (RM) system use at home

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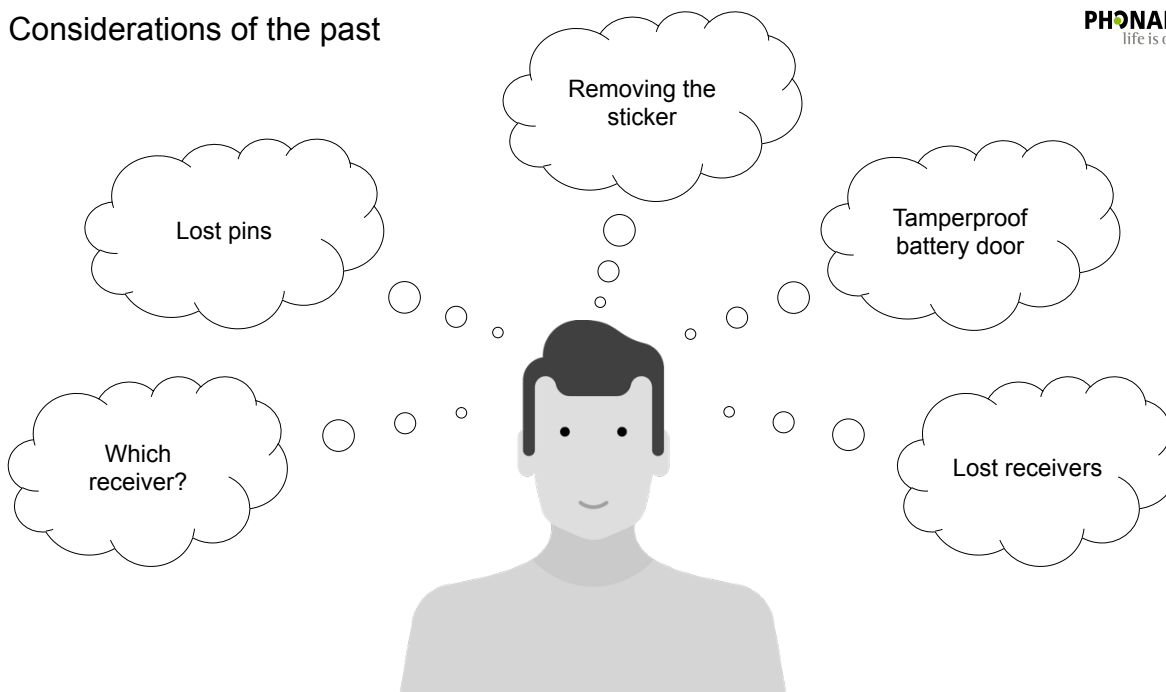
Children who received a personal RM system had significantly higher scores on Receptive Discourse ability



Curran, M., Walker, E., Roush, P., & Spratford, M. (2019). Using Propensity Score Matching to Address Clinical Questions: The Impact of Remote Microphone Systems on Language Outcomes in Children Who Are Hard of Hearing. *Journal of Speech, Language, and Hearing Research*, 62 (3), 564-576.

Considerations of the past

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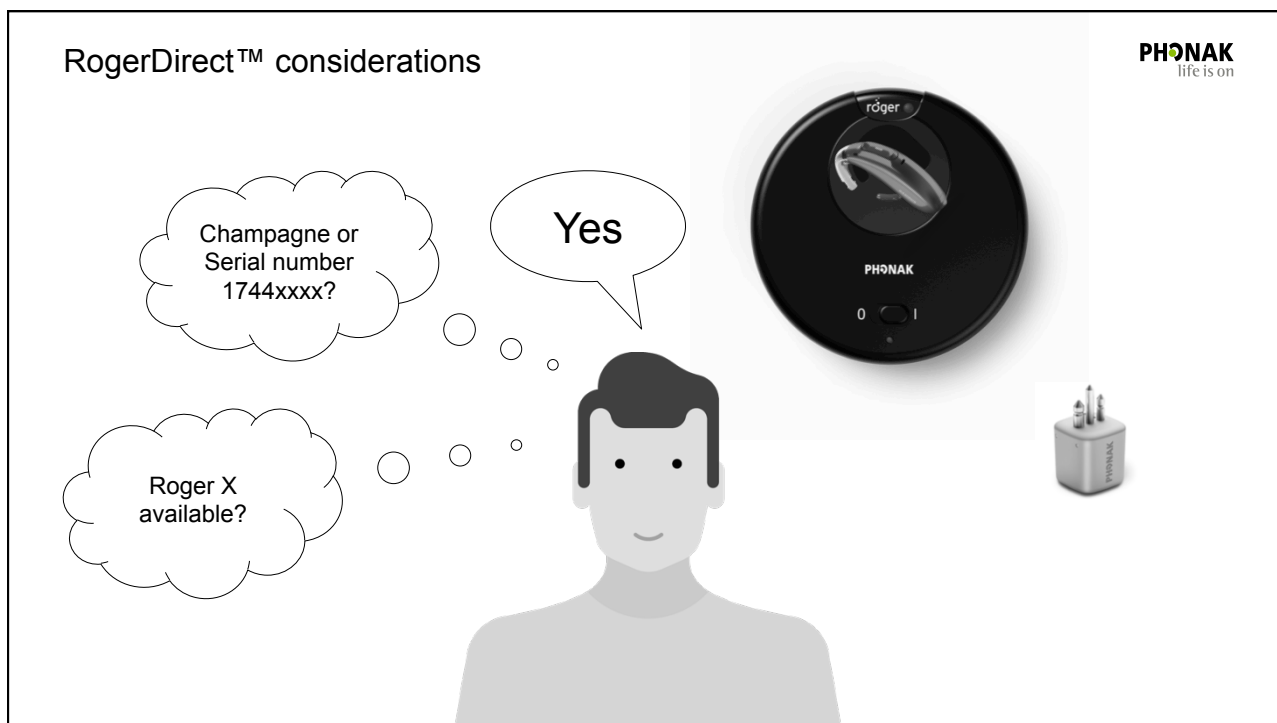
RogerDirect™ considerations

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Champagne or
Serial number
1744xxxx?

Yes

Roger X
available?



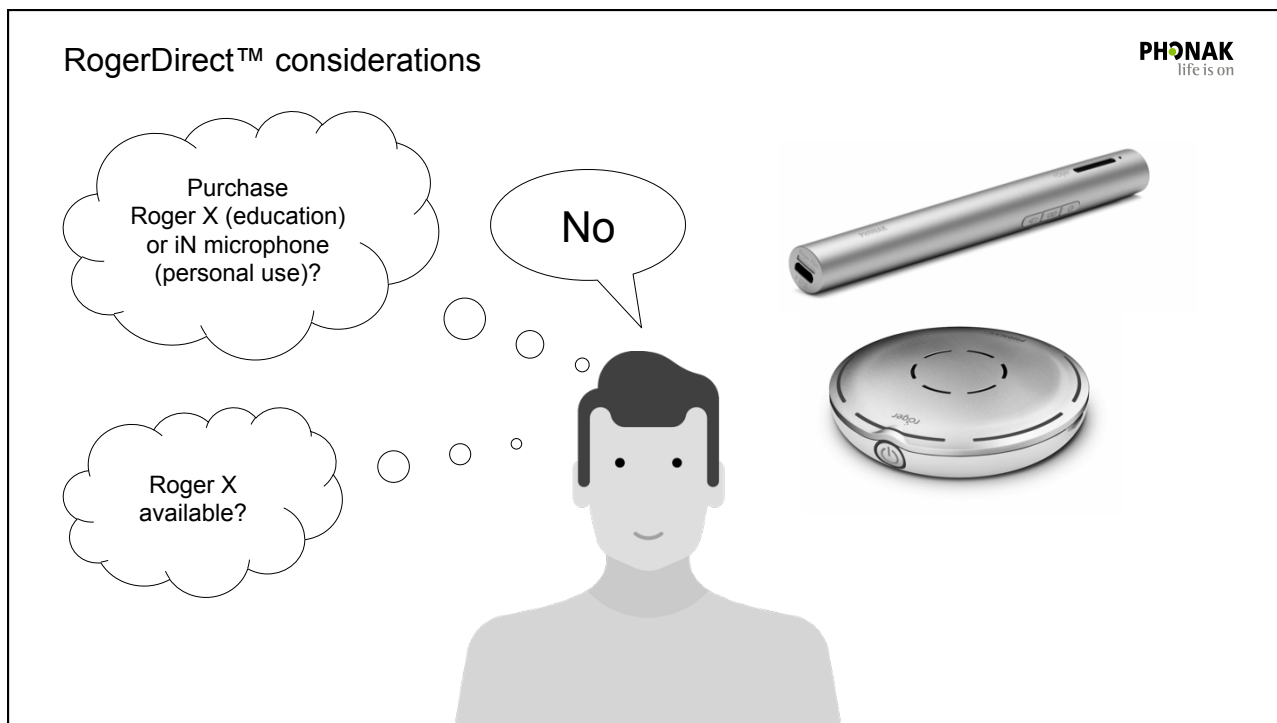
RogerDirect™ considerations

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Purchase
Roger X (education)
or iN microphone
(personal use)?

No

Roger X
available?



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RogerDirect™

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Roger just got even better!

Sky Marvel and Roger

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Up to **42%** Smaller*

Up to **32%** Lighter*

100% Roger performance

*Sky M-M vs Sky B-P + Roger 18 (Design Integrated Receiver)



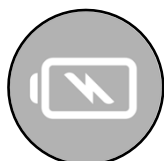
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And more ... direct streaming using TV Connector

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Direct streaming from multimedia sources through the TV Connector



Full day of hearing



Super quick charging



Ease of use


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NEW Phonak Charger BTE RIC

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 **Child-specific design**



Smaller and lighter with RogerDirect



Industry leading robustness


Safe thanks to new tamperproof features


New indicator light


New 00 size SlimTube for small ears





Sky Marvel portfolio



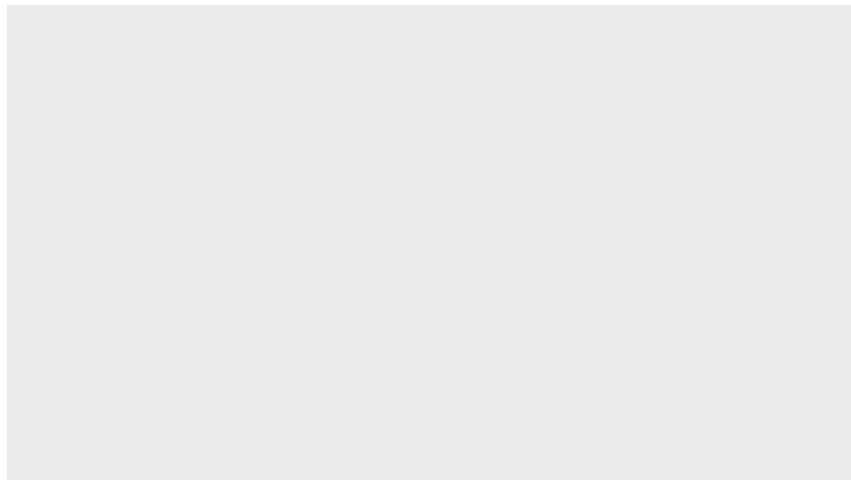
3 form factors in 3 performance levels – 90, 70, & 50		
Sky M-M	Sky M-PR	Sky M-SP
		
August 2019	Fall 2019	Early 2020

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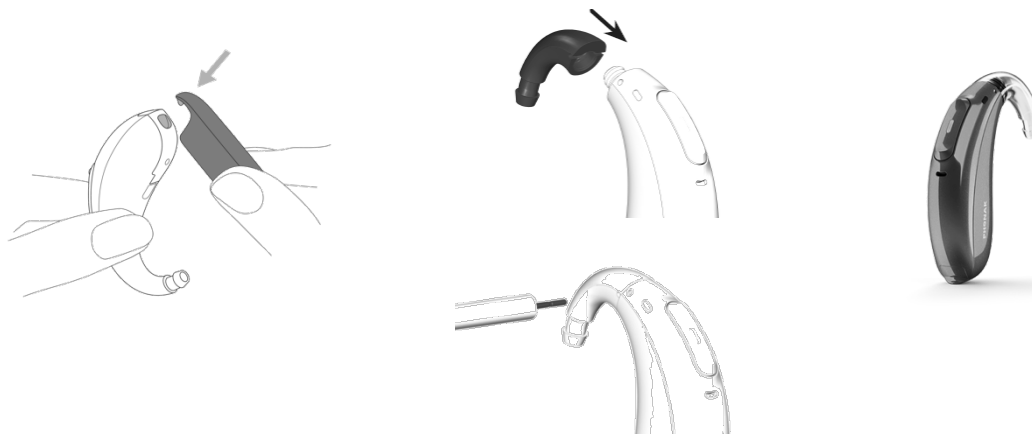
What color can I have?

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Safety for our little ones

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New SlimTube size



The size 0, can be fit to kids aged 6+. The 00 option aged 3yrs and over



Not
tamperproof
and therefore
they are not
recommended
for 0 – 36
months

SlimTube 4.0 00R

SlimTube 4.0 0R

SlimTube 4.0 1R

SlimTube 4.0 2R

SlimTube 4.0 3R

Updates in Target 6.1



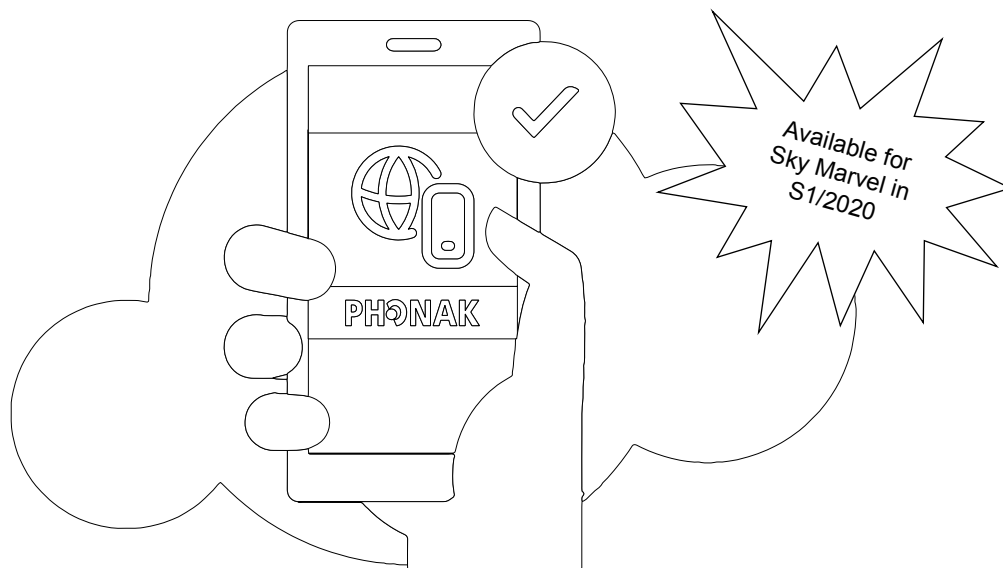
- Changes to DSL and NAL Junior mode defaults
- Update to RECD process in accordance with ANSI standards
- Changes to indicator light blinking patterns

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myPhonak app

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Successful outcomes

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Together, we change lives

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