

Grand Rounds by ReSound: Coupling Matters – Basics of Domes, Earmolds and Encased Receivers Options

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Key Takeaways

Key Takeaway	Clinical Implication
AllFit domes expand on legacy SureFit 3 sizing across five styles: Open, Tulip, Sleeve, Vented, and Power.	Clinicians have more sizing options to match ear anatomy precisely, supporting comfort and acoustic seal.
The new Sleeve dome offers a custom-like fit optimized for M&RIE receivers.	Sleeve domes can provide up to +20dB maximum stable gain compared to legacy domes for patients who need more gain while maintaining comfort.
M&RIE receivers reduce listening effort through externally validated benefits in sound quality, localization, wind noise, and phone calls.	These benefits are useful discussion points when helping patients choose a receiver option.
ReSound offers eight distinct earmold styles, from Encased to Full Shell.	Selecting the right earmold style balances retention, cosmetics, hearing loss severity, and receiver compatibility for each patient.

Learner Outcomes

- After this course, participants will be able to compare/contrast AllFit Domes from previous generations of domes.
- After this course, participants will be able to discuss benefit of Sleeve Dome.
- After this course, participants will be able to identify ReSound earmold options.

Introducing AllFit Domes

AllFit domes are designed for best comfort and acoustic performance, offering more sizes and precise acoustic fits across five styles: Open, Tulip, Sleeve, Vented, and Power. Compared to legacy domes, they provide 97% coverage based on 16,000 real ear impressions, improved bass response, easier dome replacement, additional wax protection through a new loop tip built into the design, and increased silicone thickness for improved durability.

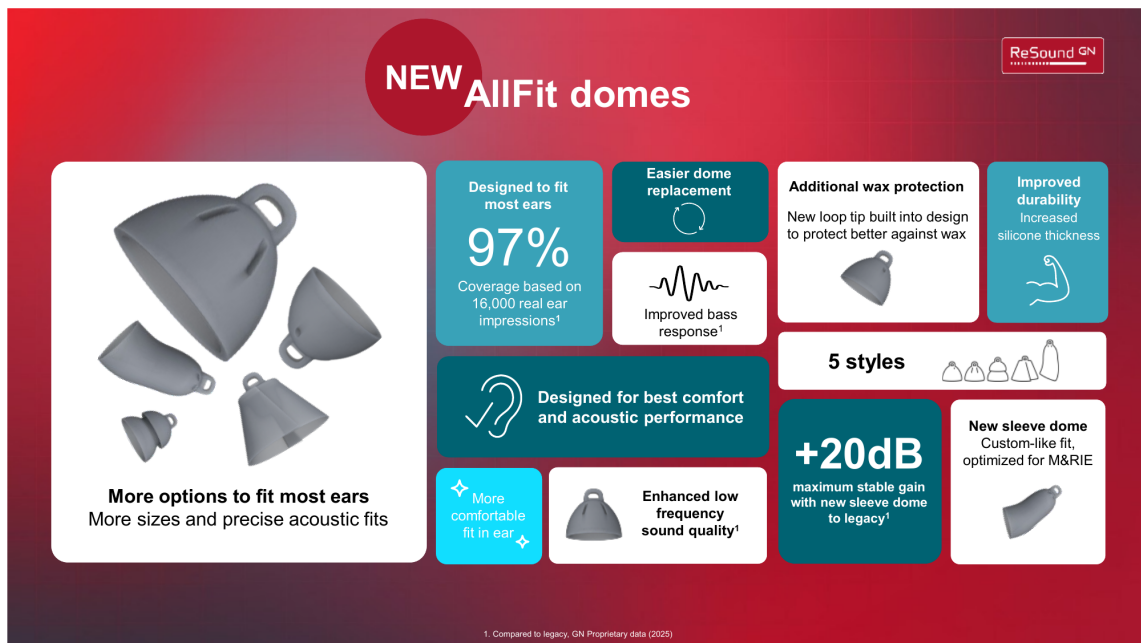


Figure 1. AllFit dome benefits compared to legacy domes.

Each AllFit dome style is available in more sizes than its SureFit 3 predecessor:

- Open – 5 sizes (XS, S, M, L, XL), with a new additional size and improved bass response.
- Tulip – 2 sizes (S, M), with a new additional size.
- Sleeve – 3 sizes (S, M, L), the brand new dome option designed for physical and listening comfort.
- Vented – 5 sizes (XS, S, M, L, XL), with new additional sizes.
- Power – 4 sizes (S, M, L, XL), with new additional sizes.



Figure 2. The five AllFit dome styles and their available sizes.

Q2

Quiz Hint: Among the five AllFit dome styles, the Sleeve dome is called out as the new dome, designed for physical and listening comfort and optimized for M&RIE receivers.

Q3

Quiz Hint: The AllFit Tulip dome is offered in 2 sizes, Small and Medium, one more size than the legacy Tulip dome.

Design Features

The AllFit dome design includes improved acoustic properties and durability from thicker silicone for better stability and reduced risk of feedback, a loop tip designed for additional wax protection, and enhanced low frequency sound quality.

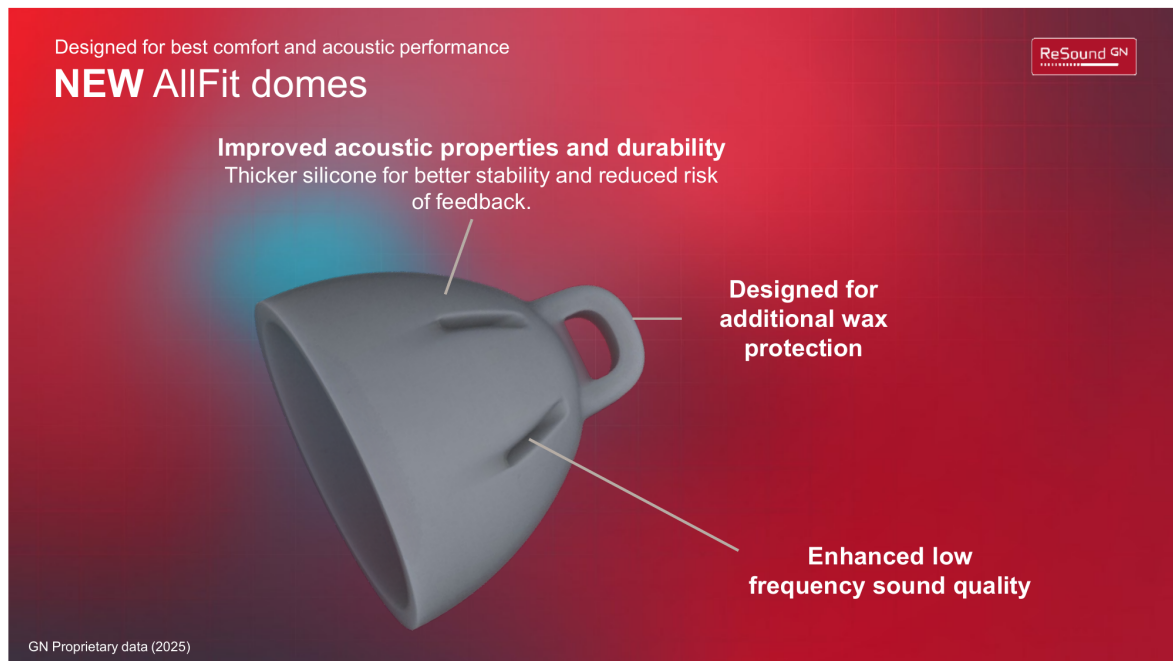


Figure 3. AllFit dome design features for comfort and durability.

The Sleeve Dome

The Sleeve dome is designed for wearer comfort, intended to be used as an instant custom-tip style dome. It is optimized for M&RIE and listening comfort, offering +20dB maximum stable gain compared to legacy domes.

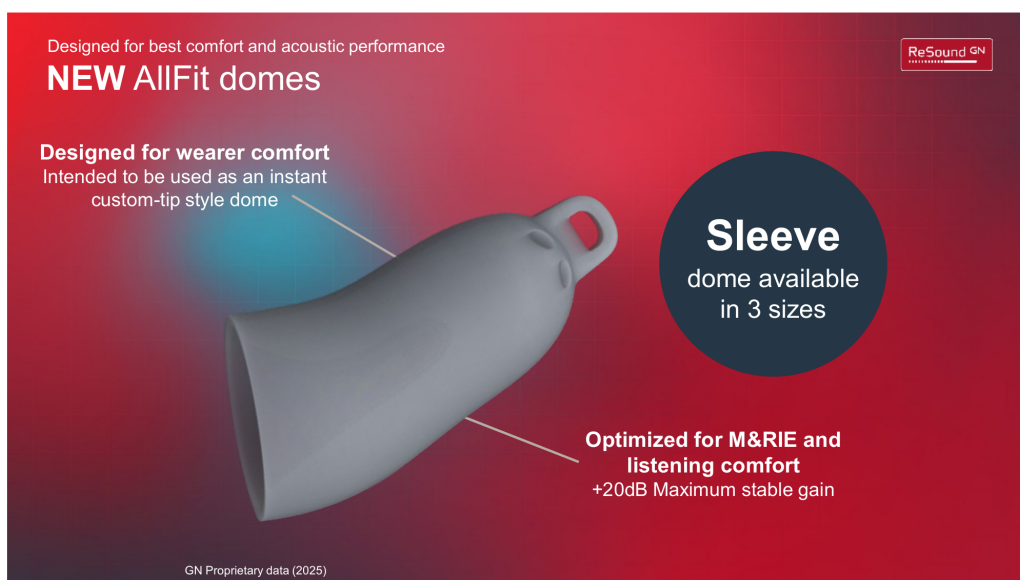


Figure 4. The new Sleeve dome, available in three sizes.

M&RIE Receiver Benefits

The M&RIE receiver provides an extra reduction of listening effort, with benefits that have been externally validated across four areas: natural sound quality, better sound localization, low wind noise, and easier phone calls.

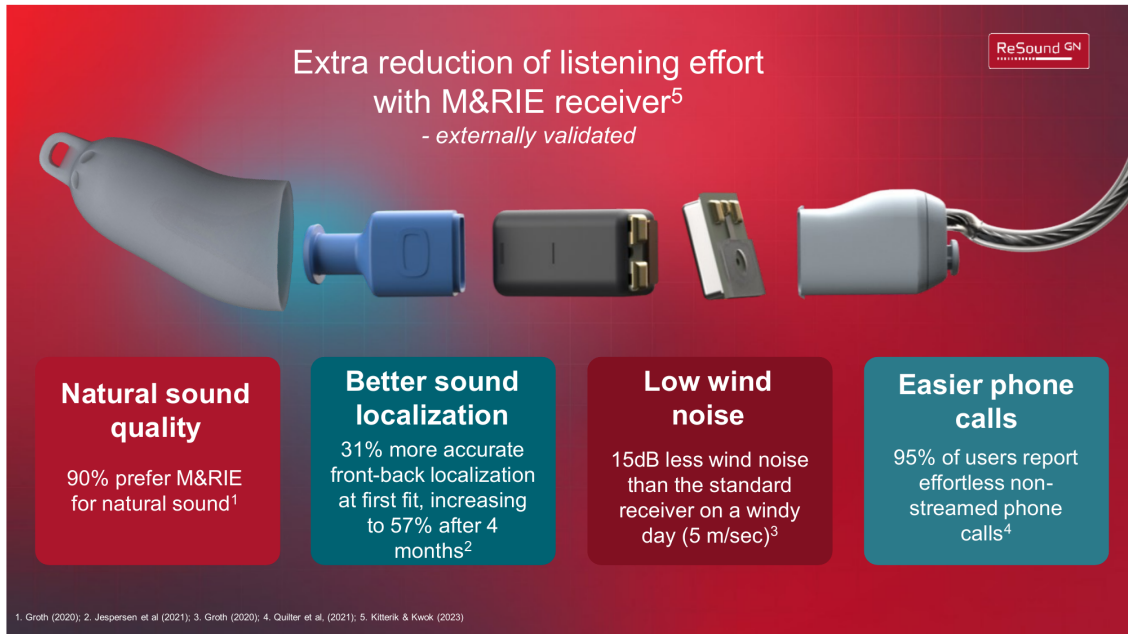


Figure 5. Externally validated benefits of the M&RIE receiver.

- Natural sound quality – 90% of users prefer M&RIE for natural sound.
- Better sound localization – 31% more accurate front-back localization at first fit, increasing to 57% after 4 months.
- Low wind noise – 15dB less wind noise than the standard receiver on a windy day (5 m/sec).
- Easier phone calls – 95% of users report effortless non-streamed phone calls.

Frequency Response and Vent Effect

Frequency response graphs illustrate the fitting range for each AllFit dome style, plotting dB HL against frequency from 250 Hz to 8 kHz.

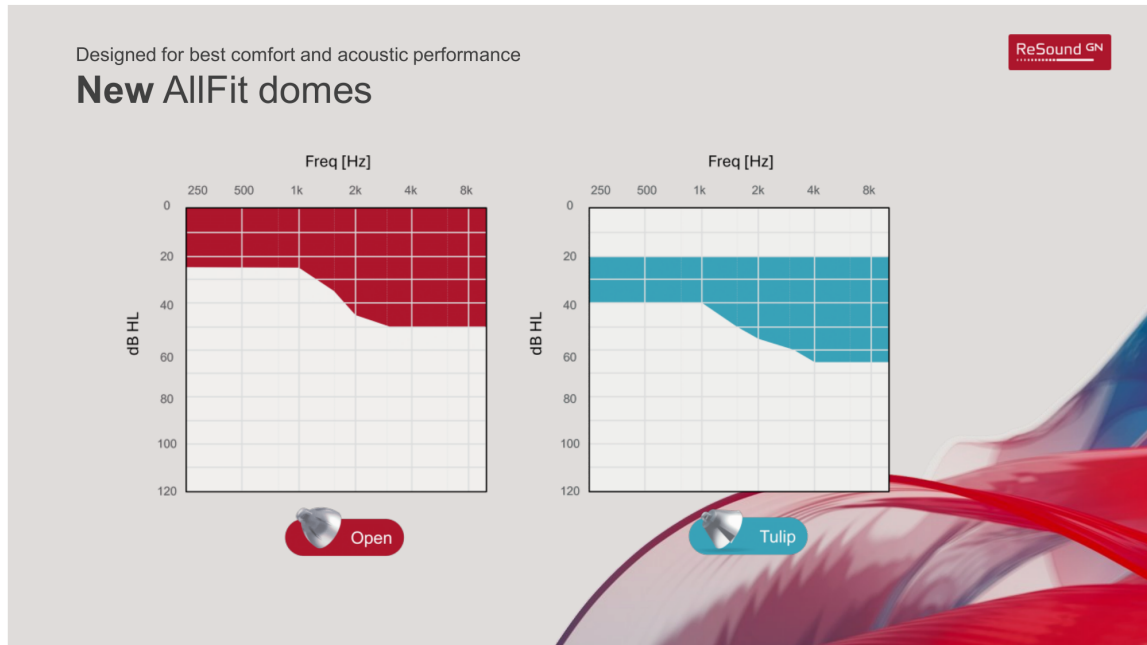


Figure 6. Frequency response graphs for the Open and Tulip domes.

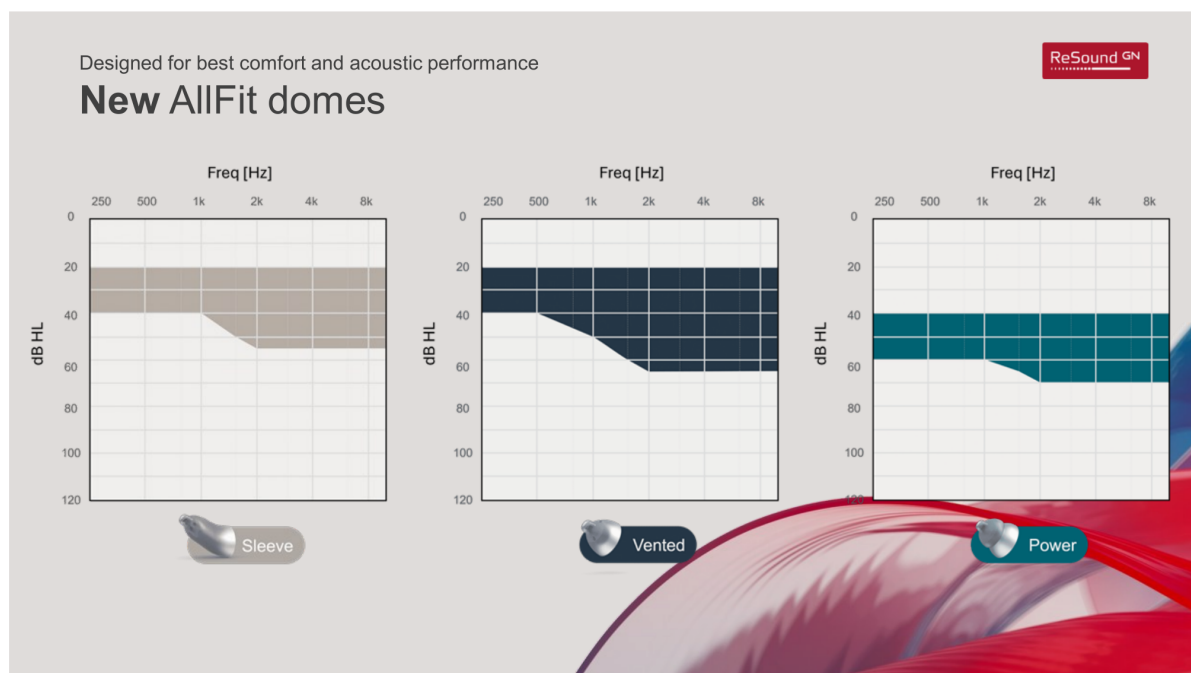


Figure 7. Frequency response graphs for the Sleeve, Vented, and Power domes.

The vent effect graph compares how much low-frequency amplification is vented out across the five AllFit dome styles – Power, Vented, Tulip, Sleeve, and Open.

Designed for best comfort and acoustic performance



New AllFit domes

Vent effect graph

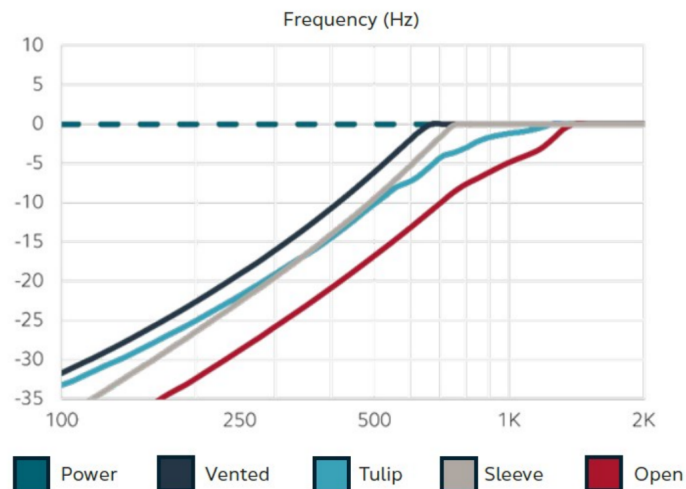


Figure 8. Vent effect graph across five AllFit dome styles.

Q5

Quiz Hint: The AllFit product line lists Vented as one of its five dome styles, in place of the Closed dome category used with SureFit 3.

Fitting Considerations: Patient Scenarios

The course reviewed several patient scenarios to illustrate the More Occlusion / Less Occlusion tradeoff when selecting a dome style:

Patient Scenario	Occlusion Consideration
Patient is doing well and using multiple programs but still wants to hear better in noise.	More occlusion ↔ Less occlusion tradeoff discussed.
Patient has been wearing vented domes from another manufacturer to control for feedback but would like to try something more open feeling.	More occlusion ↔ Less occlusion tradeoff discussed.
Patient has been wearing SureFit 3	More occlusion ↔ Less occlusion tradeoff discussed.

Patient Scenario	Occlusion Consideration
open domes and reports that streamed music sounds thin.	

ReSound Smart Fit Software and Best Practices

The ReSound Smart Fit 2.3 software includes a Physical Properties screen where clinicians can review real ear response and select the earpiece type and dome style, including Open AllFit, Tulip AllFit, Vented AllFit, Sleeve AllFit, and Power AllFit.



Figure 9. ReSound Smart Fit 2.3 Physical Properties screen.

Best Practices When Transitioning Patients to AllFit Domes

- Recalibrate DFS to optimize acoustic performance and maintain accurate gain settings.
- Provide patient counseling to set expectations around sound quality and any changes they may notice.
- Plan for potential fine-tuning, as minor adjustments may be needed to achieve the ideal listening experience.
- Verification of fitting is recommended.

Style and Size Comparisons

The Style and Size Comparisons table lists dome sizes and diameters, in millimeters, for SureFit 3 (Small, Medium, Large) versus AllFit (XSmall, Small, Medium, Large, XLarge) across five categories: Open, Closed/Vented, Power, Tulip, and Sleeve.

Style and size comparisons

(ø = diameter. Dimensions in mm.)



SureFit 3				AllFit				
Small	Medium	Large		XSmall	Small	Medium	Large	XLarge
			Open					
ø 5.0	ø 7.0	ø 10.0		ø 5.0	ø 6.5	ø 7.9	ø 9.5	ø 12.0
			Closed/Vented					
ø 5.0	ø 7.0	ø 10.0		ø 5.0	ø 6.5	ø 7.9	ø 9.5	ø 12.0
			Power					
ø 7.0	ø 10.0	ø 12.0		ø 5.1/7.6	ø 7.6/9.2	ø 9.2/11.0	ø 11.0/13.0	
			Tulip					
11.6 x 12.5				8.9 x 10.0	11.6 x 12.5			
			Sleeve					
				6.1 x 8.3	7.8 x 9.6	8.4 x 11.5		

Figure 10. Style and size comparison: SureFit 3 versus AllFit domes.

Q1

Quiz Hint: The Style and Size Comparisons table lists SureFit 3 dome sizes across four style categories – Open, Closed/Vented, Power, and Tulip – each offered in Small, Medium, and Large (Tulip in a single size).

Earmolds

ReSound offers eight distinct earmold styles, each suited to different hearing loss ranges, retention needs, and cosmetic preferences.

Encased

A canal mold with the receiver fully enclosed. Recommended for open fit and mild to severely profound hearing losses. Best for cosmetics and durability. Hard material only, not available in Rose nor EarLusion Light. Available with LP, MP, HP, and UP receivers, not available for M&RIE receivers. Receivers are not field replaceable. Optional to add any lock type.



	Encased
	Canal mold with receiver fully enclosed
	Recommended for open fit and mild to severely profound hearing losses
	Best for cosmetics and durability
	Hard material only, not available in Rose nor EarLusion Light
	Available with LP, MP, HP, and UP receivers, not available for M&RIE receivers. Receivers are not field replaceable. Optional to add any lock type.

Figure 11. Encased earmold.

Q4

Quiz Hint: The Encased earmold is a canal mold with the receiver fully enclosed, recommended for open fit and mild to severely profound hearing losses.

Micromold

A mold designed to be completely in the canal. Recommended for open fit and mild to moderately severe hearing losses. Excellent for cosmetics. Hard or soft material. Available with LP, MP, HP, and M&RIE field replaceable receivers.

	Micromold
	A mold designed to be completely in the canal
	Recommended for open fit and mild to moderately severe hearing losses
	Excellent for cosmetics
	Hard or soft material
	Available with LP, MP, HP, and M&RIE field replaceable receivers

Figure 12. Micromold earmold.

Hollow Cavity

A completely hollowed out Micromold. Recommended for open fit and mild to moderate hearing losses. Excellent for cosmetics and non-occluding fit. Hard or soft material. Available for SureFit 3, M&RIE, and SureFit 2C field replaceable receivers. Optional to add Canal Lock or Skeleton Lock only.



	Hollow Cavity
	A completely hollowed out Micromold
	Recommended for open fit and mild to moderate hearing losses
	Excellent for cosmetics and non-occluding fit
	Hard or soft material
	Available for SureFit 3, M&RIE, and SureFit 2C field replaceable receivers. Optional to add Canal Lock or Skeleton Lock only.

Figure 13. Hollow Cavity earmold.

Micromold with Canal Lock

A Micromold with a lock that rests on the anti-tragus. Recommended for open fit and mild to moderately severe hearing losses. Good for cosmetics and retention. Hard or soft material. Available with LP, MP, HP, and M&RIE field replaceable receivers.

	Micromold with Canal Lock
	A Micromold with a lock that rests on the anti-tragus
	Recommended for open fit and mild to moderately severe hearing losses
	Good for cosmetics and retention
	Hard or soft material
	Available with LP, MP, HP, and M&RIE field replaceable receivers

Figure 14. Micromold with Canal Lock earmold.

Semi-Skeleton

Canal mold with a canal lock and a helix lock. Recommended for open fit and mild to moderately severe hearing losses. Excellent for retention. Hard or soft material. Available with LP, MP, HP, and M&RIE field replaceable receivers.



	Semi-Skeleton
	Canal mold with a canal lock and a helix lock
	Recommended for open fit and mild to moderately severe hearing losses
	Excellent for retention
	Hard or soft material
	Available with LP, MP, HP, and M&RIE field replaceable receivers

Figure 15. Semi-Skeleton earmold.

Half Shell

A mold filling the bottom half of the concha bowl. Recommended for moderate to severe hearing losses. Good for retention and dexterity. Hard or soft material. Available with LP, MP, HP, and M&RIE field replaceable receivers.

	Half Shell
	A mold filling the bottom half of the concha bowl
	Recommended for moderate to severe hearing losses
	Good for retention and dexterity
	Hard or soft material
	Available with LP, MP, HP, and M&RIE field replaceable receivers

Figure 16. Half Shell earmold.

Skeleton

Rim of material including the anti-tragus, concha bowl, and helix areas. Recommended for moderate to severe hearing losses. Excellent for retention and dexterity. Hard or soft material. Available with LP, MP, HP, and M&RIE field replaceable receivers.



	Skeleton
	Rim of material including the anti-tragus, concha bowl, and helix areas
	Recommended for moderate to severe hearing losses
	Excellent for retention and dexterity
	Hard or soft material
	Available with LP, MP, HP, and M&RIE field replaceable receivers

Figure 17. Skeleton earmold.

Full Shell

Complete filling of the anti-tragus, concha bowl, and helix areas. Recommended for flat moderate to profound hearing losses. Best for retention and dexterity. Hard or soft material. Available with LP, MP, HP, and M&RIE field replaceable receivers.

	Full Shell
	Complete filling of the anti-tragus, concha bowl, and helix areas
	Recommended for flat moderate to profound hearing losses
	Best for retention and dexterity
	Hard or soft material
	Available with LP, MP, HP, and M&RIE field replaceable receivers

Figure 18. Full Shell earmold.

Case Study

Case Detail	Description
Patient Profile	Audiogram shows a sloping hearing loss from mild in the low frequencies to profound in the high frequencies.
Patient Goals	Wants to maximize hearing in noise and enjoys listening to music.
Discussion Question	Which dome would you select for this patient?

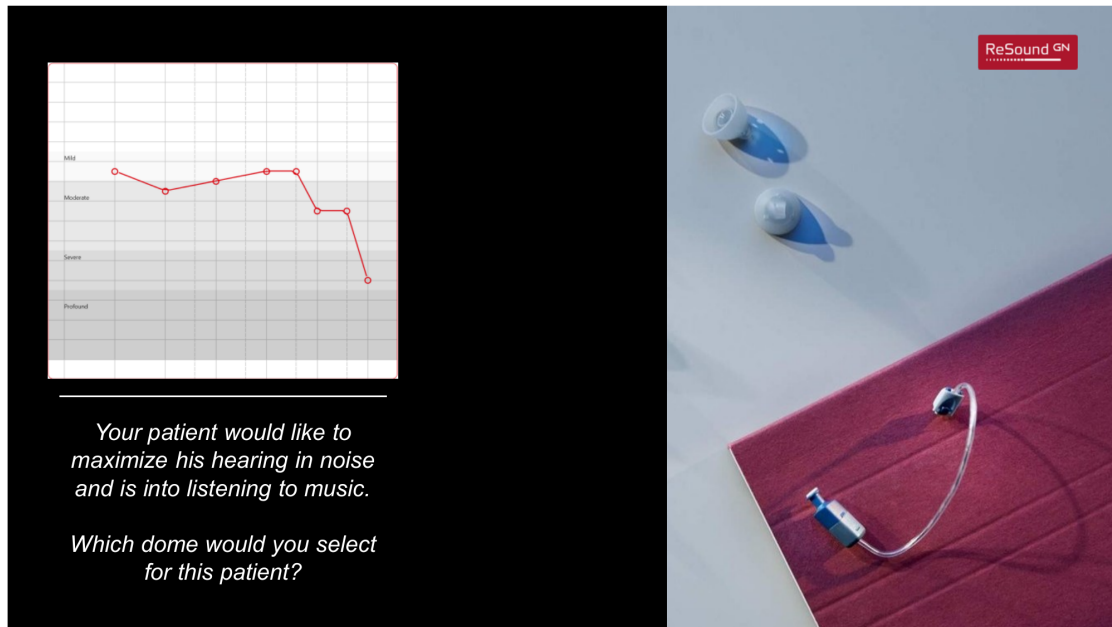


Figure 19. Case study audiogram and patient scenario.

Conclusion

- AllFit domes expand on legacy SureFit 3 sizing across Open, Tulip, Sleeve, Vented, and Power styles, including the new Sleeve dome optimized for M&RIE receivers.
- M&RIE receivers offer externally validated benefits in natural sound quality, sound localization, wind noise reduction, and phone call clarity.
- ReSound offers eight earmold styles – Encased, Micromold, Hollow Cavity, Micromold with Canal Lock, Semi-Skeleton, Half Shell, Skeleton, and Full Shell – to match retention, cosmetic, and hearing loss needs.

Quiz Summary

The following quiz hints appeared throughout the course content. Use this section as a quick study reference.

Q1

Quiz Hint: The Style and Size Comparisons table lists SureFit 3 dome sizes across four style categories – Open, Closed/Vented, Power, and Tulip – each offered in Small, Medium, and Large (Tulip in a single size).

Q2

Quiz Hint: Among the five AllFit dome styles, the Sleeve dome is called out as the new dome, designed for physical and listening comfort and optimized for M&RIE receivers.

Q3

Quiz Hint: The AllFit Tulip dome is offered in 2 sizes, Small and Medium, one more size than the legacy Tulip dome.

Q4

Quiz Hint: The Encased earmold is a canal mold with the receiver fully enclosed, recommended for open fit and mild to severely profound hearing losses.

Q5

Quiz Hint: The AllFit product line lists Vented as one of its five dome styles, in place of the Closed dome category used with SureFit 3.

Additional Information

Presenter Bio

Laina Burdick, Au.D., has been practicing Audiology since 2014. Living and working in her home state of Nebraska, Dr. Burdick has had the opportunity to work at an ENT practice, vestibular clinic, and, most recently, as a Field Training Audiologist with GN ReSound. She received a B.S. in Speech, Language, Hearing Science and Disorders from the University of Kansas, and her Au.D. from Wichita State University.

Presenter Disclosure

Financial: Laina Burdick is employed by ReSound.

Non-financial: Laina Burdick has no relevant non-financial relationships to disclose.

Additional Information (continued)

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