

## Results

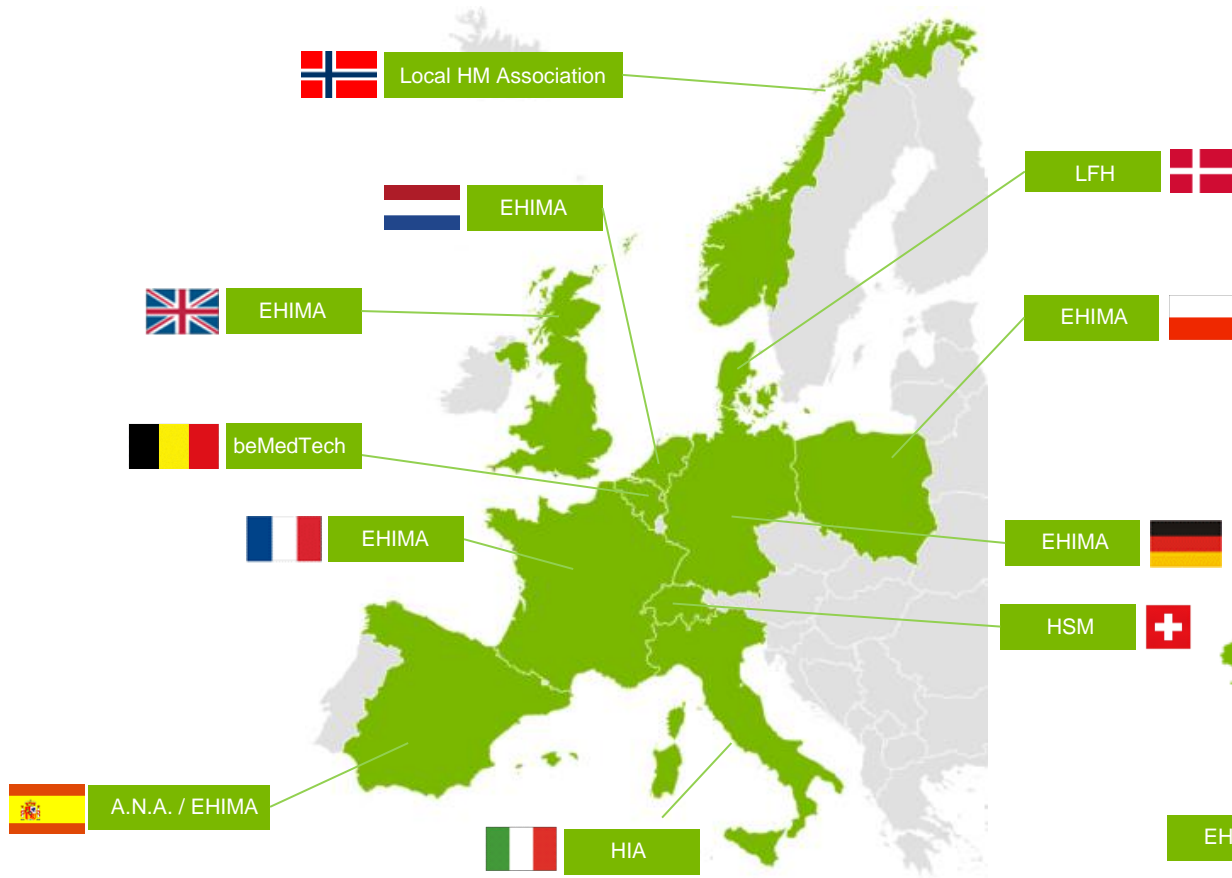
# EuroTrak UK 2022

1. Introduction
2. Market overview
3. Analysis of hearing aid owners
4. Analysis of hearing impaired non-owners
5. Appendix

# Summary

## 1. Introduction

EuroTrak UK 2022 is part of the EuroTrak / APACTrak studies:



EuroTrak UK 2022 was designed and executed by Anovum (Zurich) on behalf EHIMA.

Sample sizes:

Representative sample (sample 1): n=15'479 people

Hearing impaired (sample 2): n=1'320 people

HA owners: n= 703 people

Hearing impaired non-owners: n= 617 people



# Summary

## 2. Market overview

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- Stated hearing loss prevalence
  - Total: 8.8%, 18+: 10.4% (2018: 9.7%, 18+: 11.6%).
  - Hearing Tests: 29% (2018: 34%) had a hearing test in the last 5 years, most tests done by ENTs.
- Hearing aid adoption rate (HA penetration)
  - 52.8% of those with self declared HL (2018: 47.6%).
  - 4.7% of total population (2018: 4.6%).
  - 62% of HA owners have binaural treatment (2018: 61%).
- The route to the hearing aid
  - 70% of the hearing impaired discussed hearing loss with an ENT doctor or family doctor.
  - 58% got hearing aids recommended from the ENT or family doctor (drop out rate=30% / 2018: 28%).
  - 51% of the GP consultations referred to an ENT, 43% to an Audiologist, 20% to get hearing aids. 9% recommended no action.
  - 42% of ENT consultations referred to an Audiologist, 52% recommended to get a hearing aid, 18% recommended no action.
- Potential social cost-savings due to the use of hearing aids
  - Hearing aids are believed to have a positive impact on the job.
  - Hearing aid owners have a lower risk of being depressed.
  - Quality of sleep seems to improve if hearing impaired use hearing aids.
  - Hearing aid owners are less exhausted in the evening.

# Summary

## 3. Analysis of hearing aid owners

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- Hearing aid ownership, usage and accessories
  - 71% received NHS hearing devices.
  - 61% of the currently owned HAs were bought in 2019 or later.
  - The average age of the currently owned HAs is 2.9 years.
  - The median age of hearing aids before replacement is 4 years.
  - On average, HAs are worn 8.1 hours a day.
  - RIC is the most often purchased type of HA.
  - Cochlear Implants: <2% of HA owners have a CI. 30% of the HA owners with severe/profound HL have been informed about CIs by a medical professional.
  - 22% of the HA owners use a hearing aids app, 65% of those are satisfied with it.
  - 15% of the HAs are (to the knowledge of the owners) equipped with Telecoil. Main usage of Telecoil with phone, conference rooms, theaters and in office buildings.
- Importance of listening situations and satisfaction with HAs
  - 85% of the hearing aid owners say their hearing aid works better than or as expected
  - 75% of the HA owners are satisfied with their HAs (2018: 74%).
  - The more hours worn per day, the higher the satisfaction with the HA.
  - Satisfaction with newer hearing aids is higher than with older hearing aids.
  - Talking at home and on the phone, when watching TV and in noisy situations are the most important listening situations.
- Positive impact of HAs
  - Significant positive impact of HAs on different aspects: Especially Communication effectiveness, social life, ability to participate in group activities and self confidence improve with hearing aids.
  - 95% of hearing aid owners declare that their hearing aids improve their quality of life at least sometimes.
  - 67% of the hearing aid owners feel more confident moving in a city since wearing hearing aids.

# Summary

## 4. Analysis of hearing impaired non-owners

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- Reasons not to own/use HAs
  - Only 29% of the hearing impaired without hearing aids think that a third party would pay any part of hearing aids.
  - The main reasons for not using hearing aids are that they are thought to be uncomfortable, the hearing loss is not severe enough and people think to hear enough.
  - 8% who own hearing aids don't use them at all (0 hours); 18% use them less than one hour/day (0-1 hour).
- Social rejection and triggers to buy
  - 64% of hearing aid owners feel that people never make fun of or reject them because of their hearing aids. It is more likely somebody makes fun or rejects a hearing impaired without hearing aid. (only 25% say they are never made fun of because of their hearing loss).
  - The most important influencing factors for getting hearing aids are worsening hearing loss, ENT, audiologists, spouse and GPs (+price for the non owners).

# Detailed Results: Roadmap

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## 1. Introduction

- Organisation of EuroTrak UK 2022
- Recruitment process: In search of hearing impaired people

## 2. Market overview

- Prevalence of hearing loss and hearing aid adoption rate
- Hearing tests and where hearing is tested
- The route to the hearing aid: Sources of information and drop-out rates
- Potential social cost-savings due to the use of hearing aids: Work competitiveness, depressive symptoms, sleep quality, co-morbidities

## 3. Analysis of hearing aid owners

- Hearing aid ownership, awareness of hearing loss, lifetime of hearing aids and usage
- Reasons for getting hearing aids sooner
- Channels for getting hearing aids, recommendation of channel (NPS)
- Awareness and usage of hearing aid apps, Telecoil
- Satisfaction with hearing aids and drivers
- Importance of listening situations
- Positive impact of hearing aids, safety due to hearing aids, quality of life

## 4. Analysis of hearing impaired non-owners

- Reasons for not having hearing aids
- Social rejection because of hearing loss compared to the acceptance of hearing aids
- Most important triggers to buy

## 5. Appendix

- Demographics: Hearing instrument adoption rates and populations

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# 1. Introduction

# Organisation of EuroTrak UK 2022

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## Organisation

- Principal of the project EuroTrak UK 2022 is EHIMA.
- Anovum Zurich developed the concept of EuroTrak UK, designed the questionnaire and conducted the fieldwork in cooperation with a panel company. Furthermore Anovum analyzed the data and prepared the presentation.
- The European Hearing Instrument Manufacturers Association [EHIMA] approved the questionnaire

## Use of the data

- EHIMA may use the anonymous delivered tables, charts, reports and conclusions of the survey for further research projects, for archiving and publication in any form whatsoever.
- The raw dataset remains at Anovum. If the principal uses the anonymous data (delivered tables, charts, reports) and conclusions of the survey for publications the source of the data needs to be mentioned in the following way:  
**"Source: Anovum – EuroTrak UK/2022/n=[*relevant sample size*]"**
- Member companies of the principal can ask Anovum to further analyse the raw data in specific ways at their own expense.



# Recruitment process: In search of hearing impaired people

## Step 1: Screening interviews

Objective: Prevalence of hearing loss and hearing aid ownership

Process:

1. Representative sample with strict quotas that represent the overall population (Age/Gender interlocked; soft quota on region)
2. Contacts from large panellist pools
3. Screening questionnaire: Stated hearing loss and hearing aid usage + demographics
4. Result: Representative sample of **n=15'479** people based on census data.

## Step 2: Target population interviews

Objective: Details about satisfaction with hearing aids and reasons for non-adoption

Process:

1. Main questionnaires: Owners and hearing impaired non-owners
2. Balancing through weighting according to representative screening interviews
3. Resulting sample: **n=703** hearing aid owners and **n=617** hearing impaired non-owners

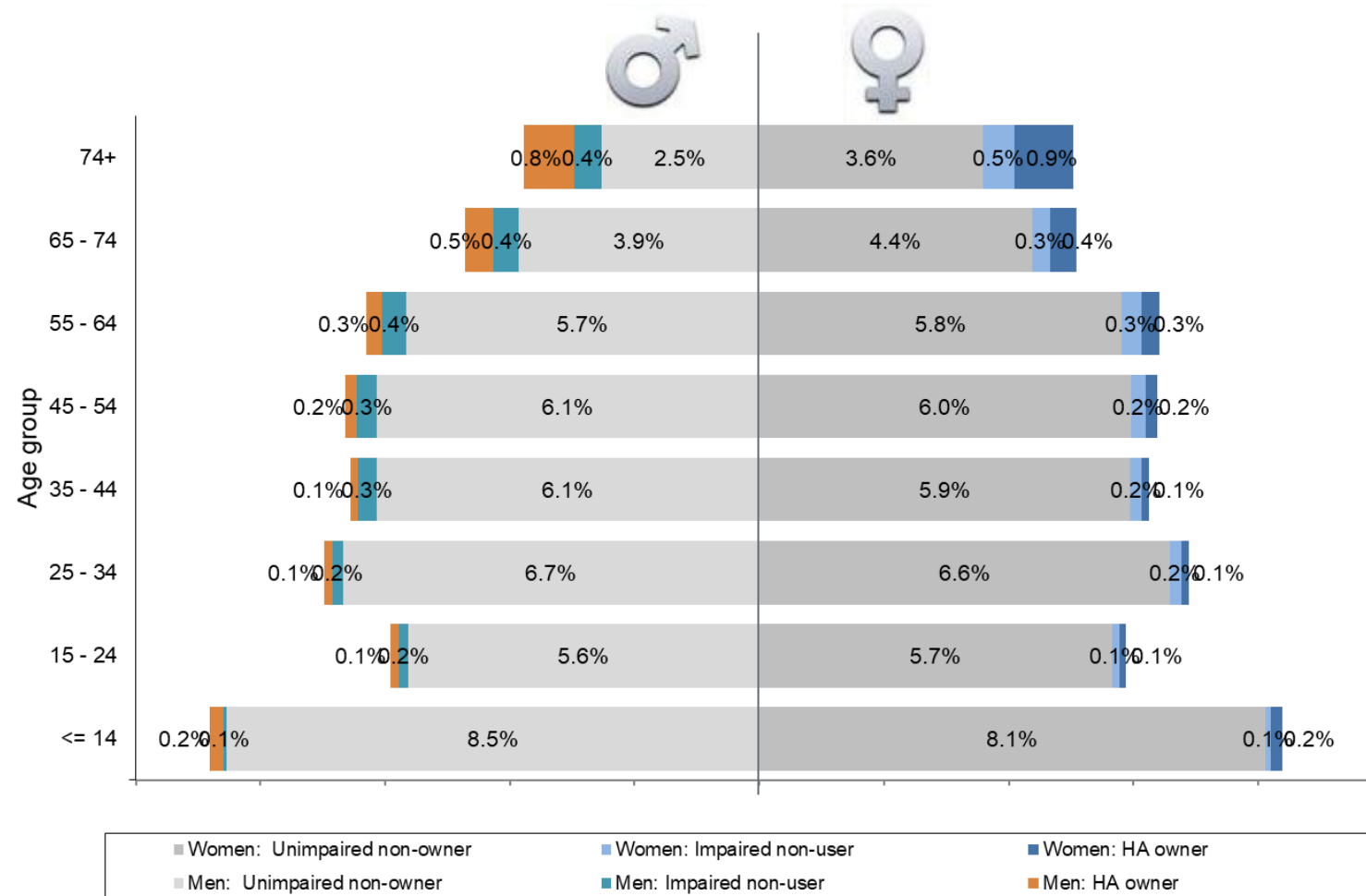
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## 2. Market overview

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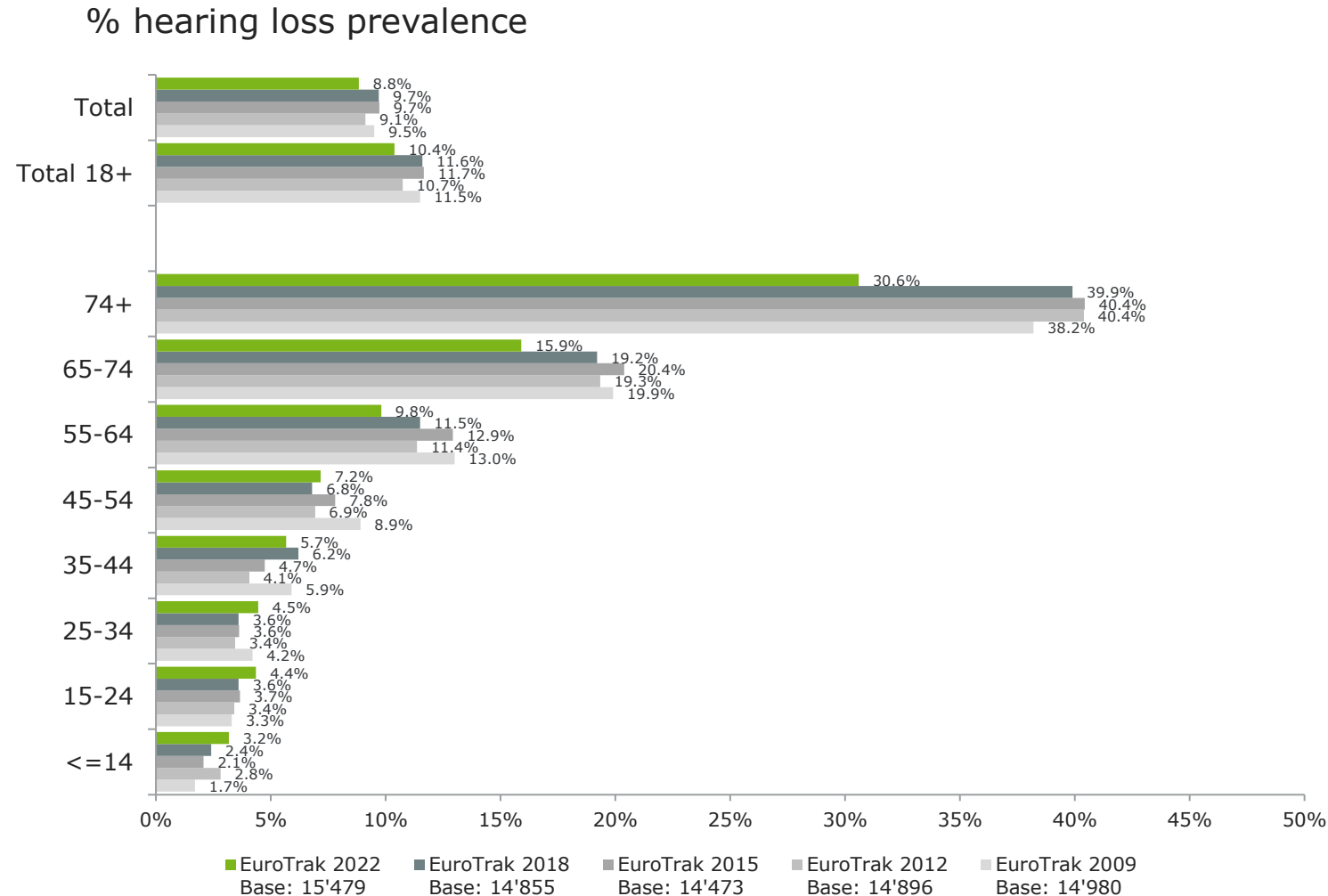
## Prevalence of hearing loss and adoption rate

# Hearing loss and hearing instrument ownership by gender/age

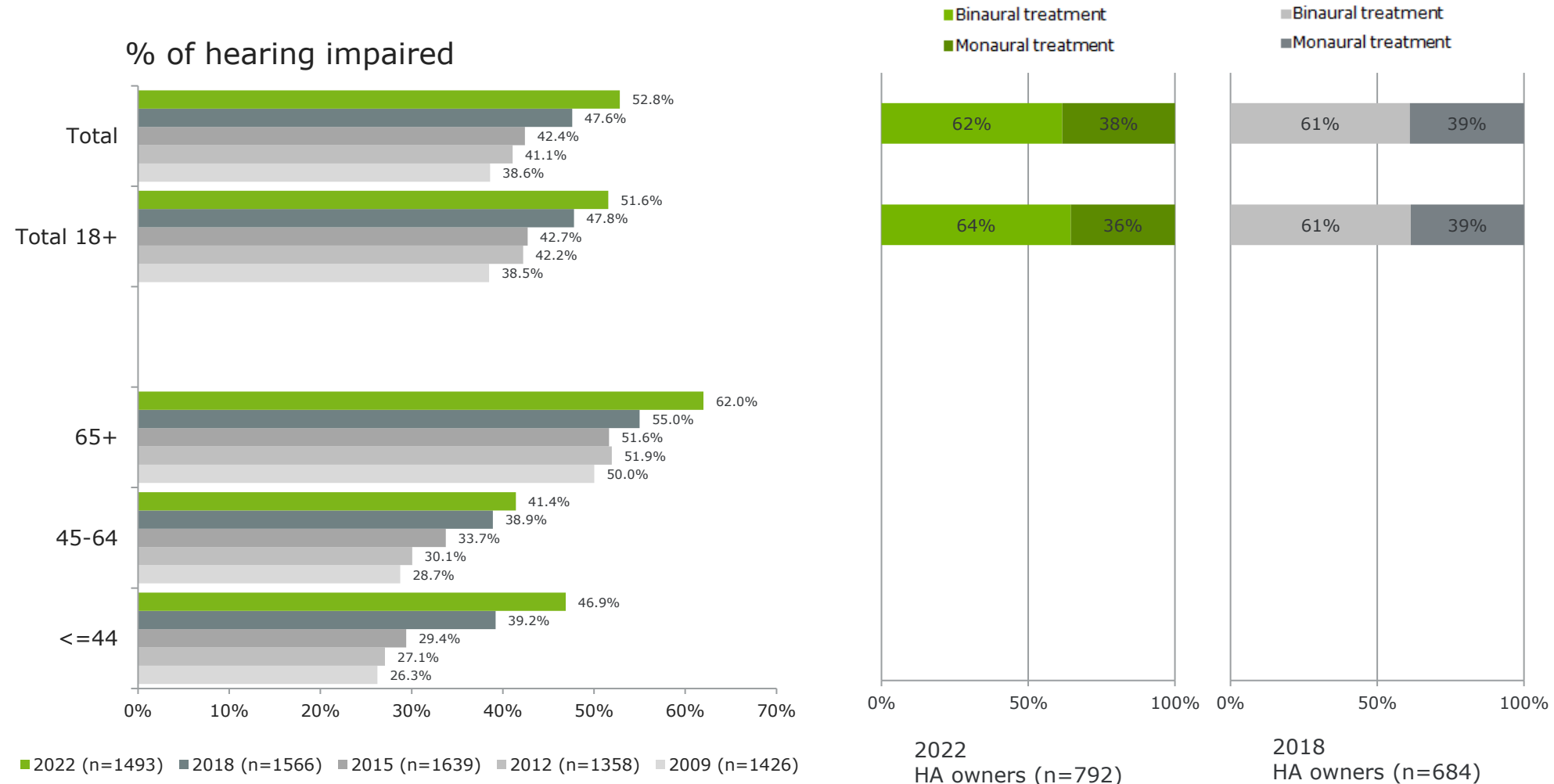


# Hearing loss prevalence UK

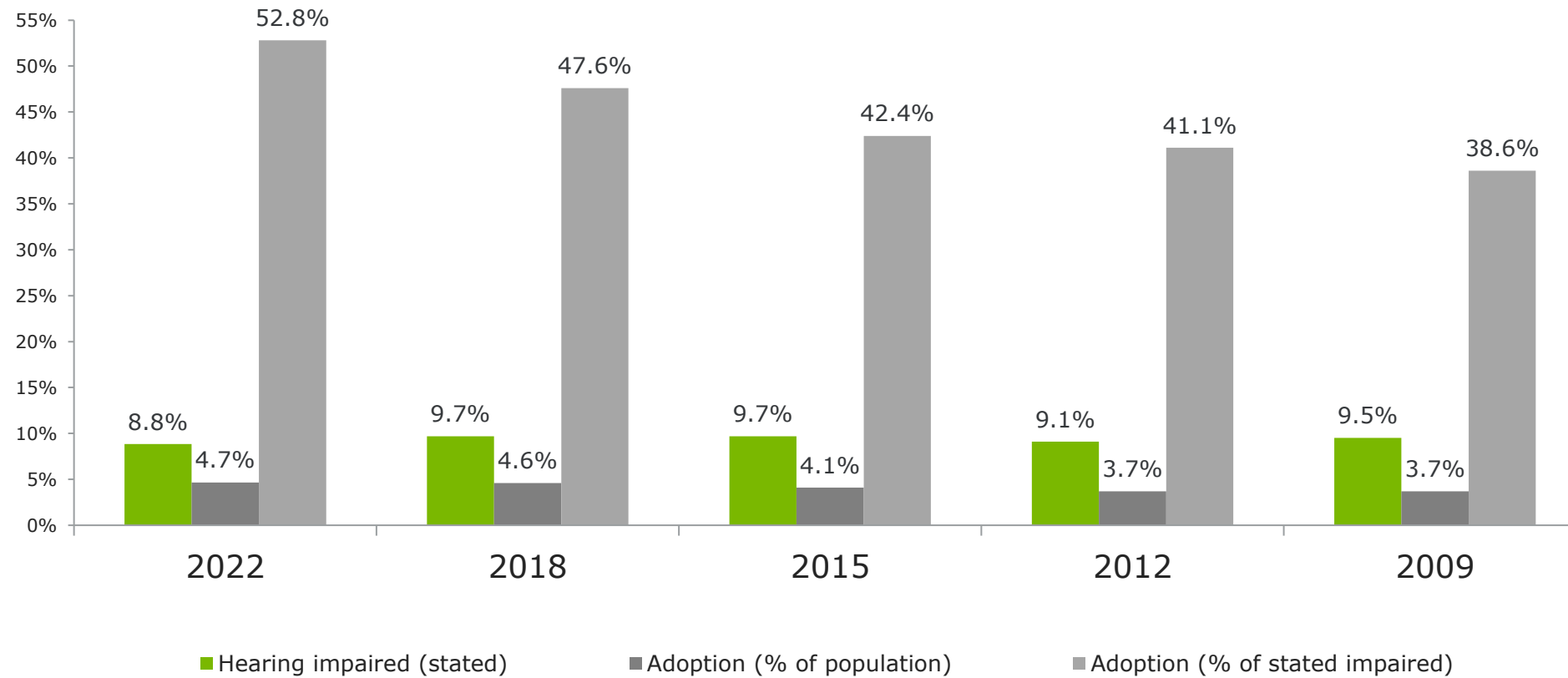
## Self declared hearing loss



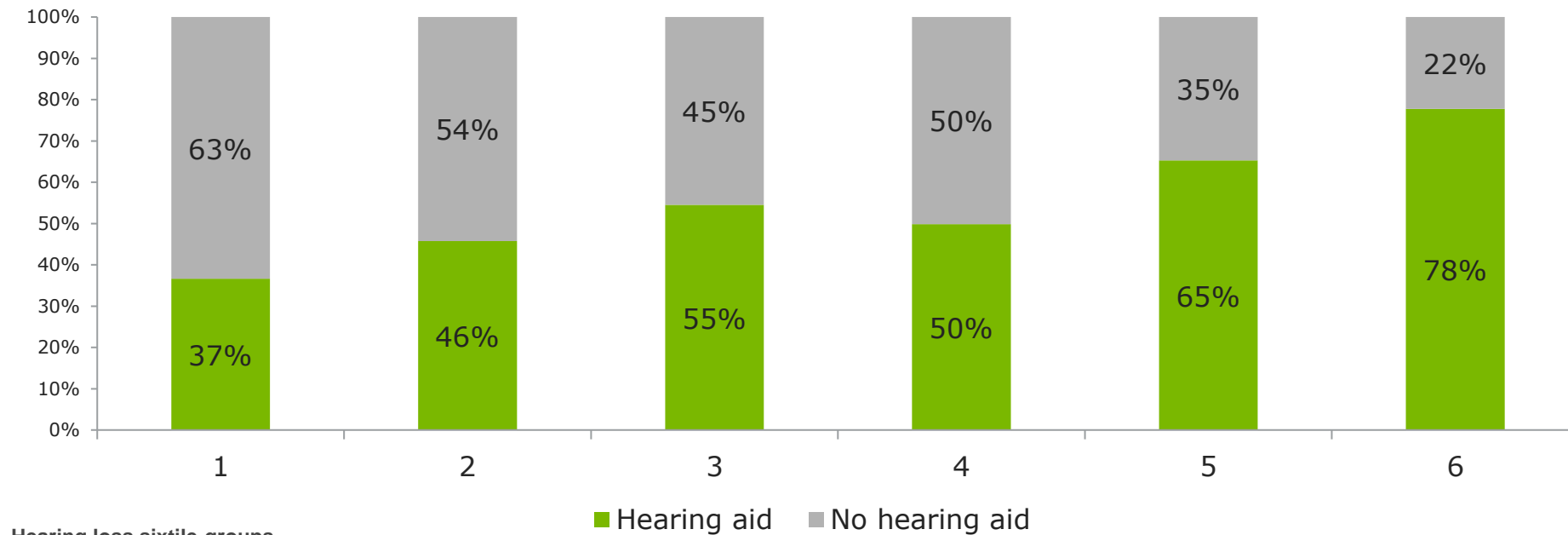
# Hearing aid adoption rate: 53% of hearing impaired have hearing aid(s), 62% of them have binaural treatment



# Overview hearing loss prevalence and hearing aid adoption



# The more severe the hearing loss, the higher the adoption rate



HA-non-owner, n=617  
HA-owner, n=703

\* Construction of 6-groups: A factor analysis was performed to identify one factor "degree of hearing loss". The following questions were included in the factor:

- Number of ears impaired (one or two)
- Stated hearing loss (Mild to Profound)
- Scores on 6 APHAB-EC – like questions (Scaled 1-5)
- When NOT using a hearing aid, how difficult is it for you to follow conversations in the presence of noise

→ People were segmented into 6 groups of same size (16.67% of all hearing impaired in the sample).



# Hearing loss

Hearing loss characteristics: Owners compared to non-owners

	HA-Non-owner n=617	HA Owner n=703	Hearing Aid Adoption (%)
<b>Ears impaired (stated)</b>			
Unilateral loss	43%	25%	41%
Bilateral loss	57%	75%	62%
<b>Perceived loss</b>			
Mild	42%	17%	32%
Moderate	47%	57%	58%
Severe	9%	21%	71%*
Profound	2%	4%	

\* combined "severe" and "profound" because n is too small

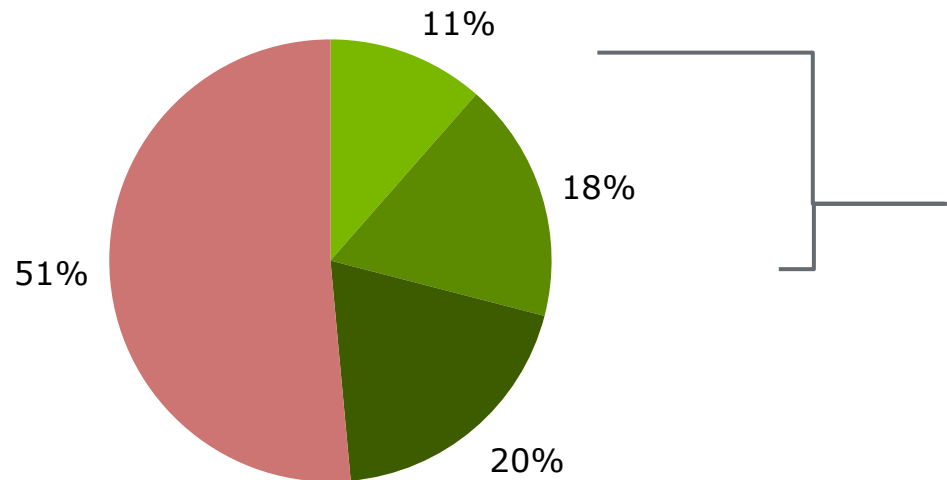
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## Hearing tests and where hearing is tested

# Hearing Tests: 29% had a hearing test in the last 5 years (2018: 34%), most tests done by ENTs

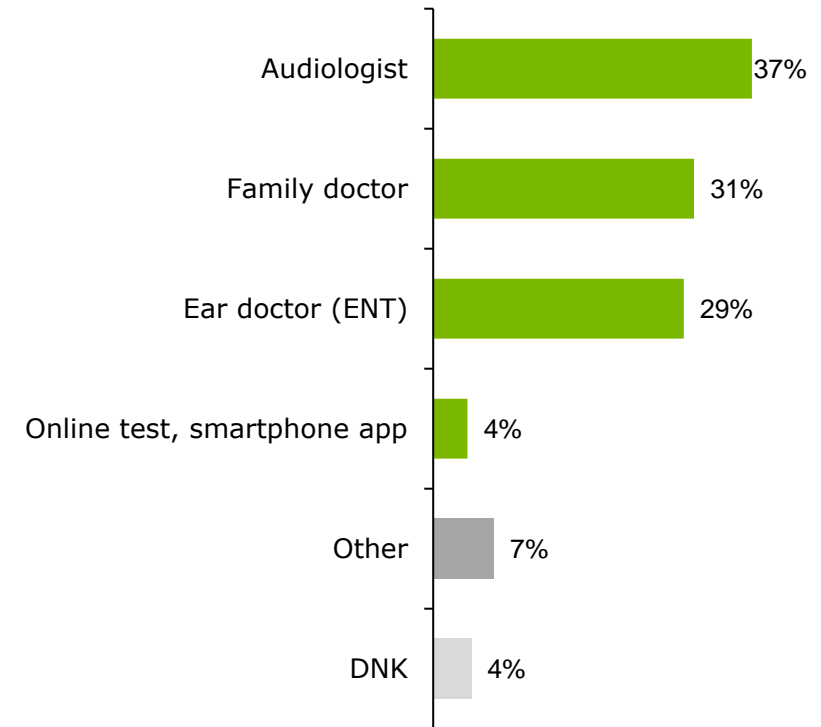
Have you ever taken a hearing test?

- Yes, in the last 12 months
- Yes, in the last 1-5 years
- Yes, more than 5 years ago
- No, never



Base=12'161

Where/how was your hearing tested?



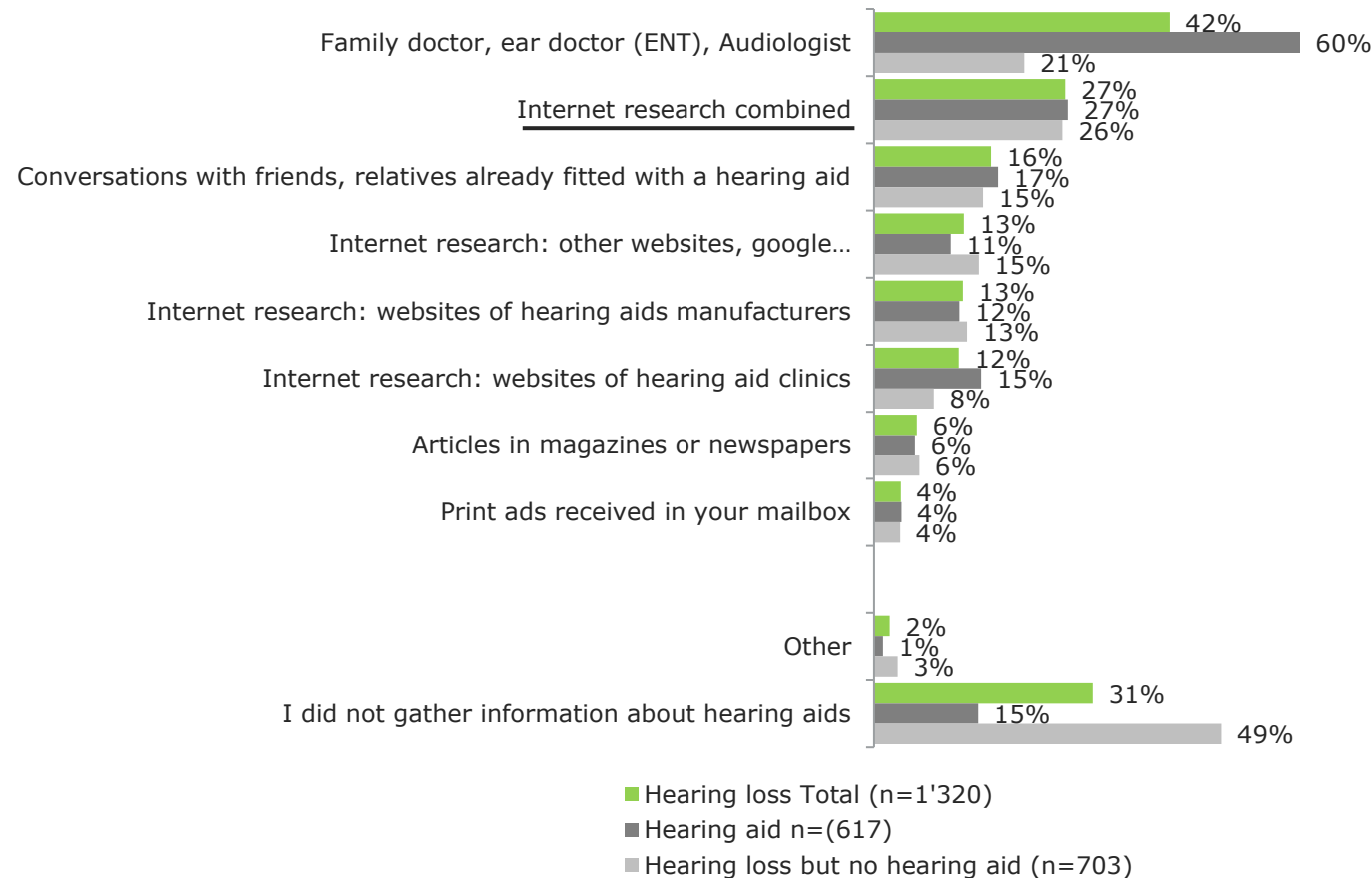
Base= 3'601

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## The route to the hearing aid: Sources of information and drop-out rates

# Doctors/HCPs are the most important sources of information and therefore the major gatekeepers.

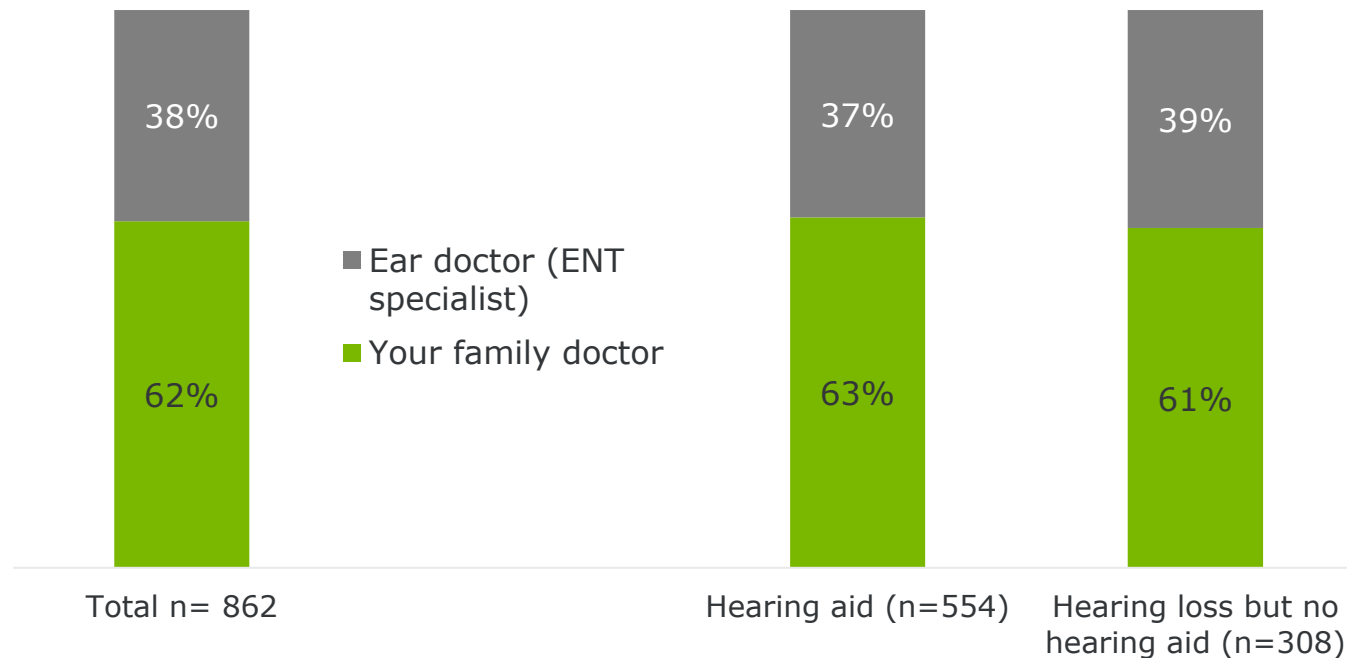
Where did you gather information about hearing aids?



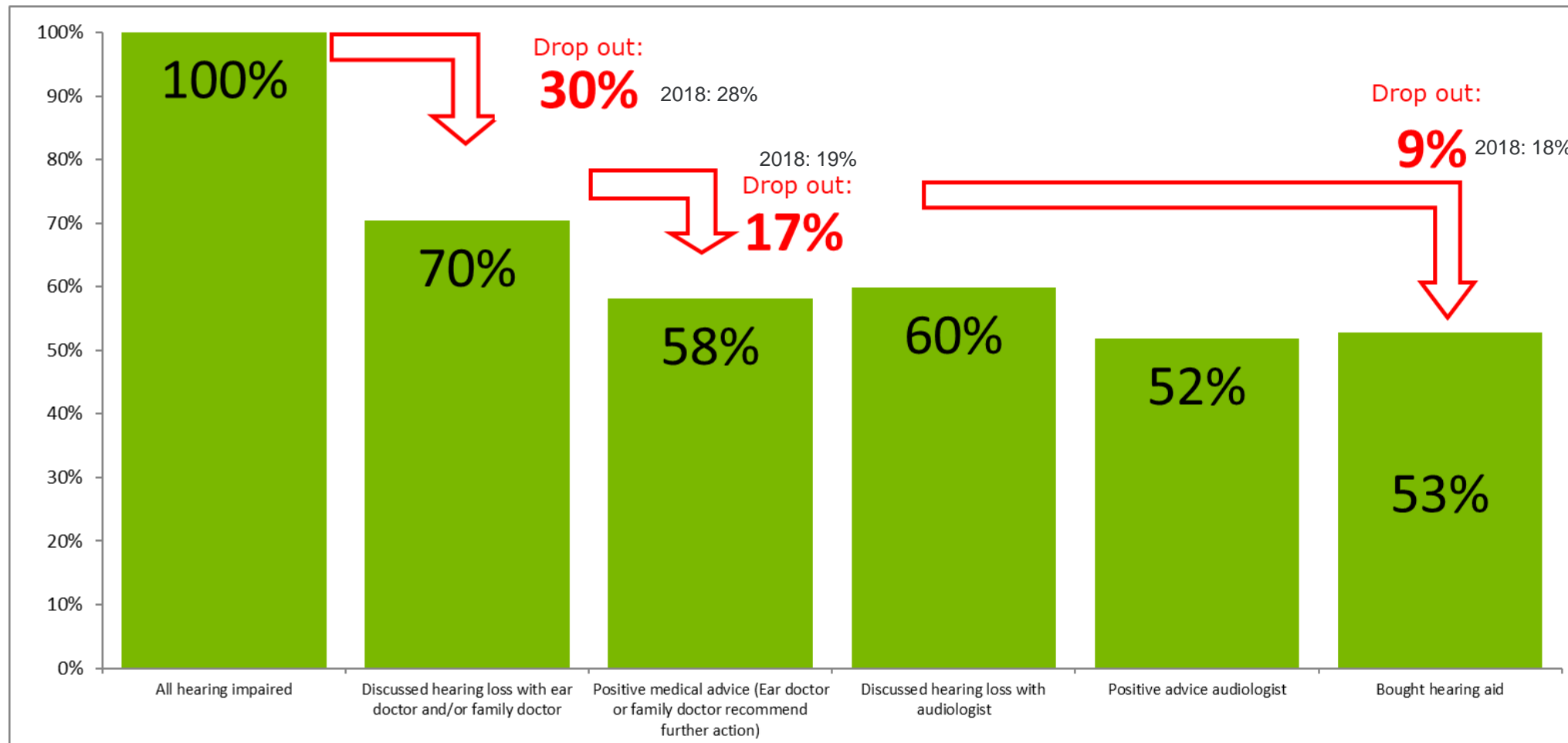
Of those who discussed the hearing loss with a doctor, 62% talked to a family doctor (GP) first and 38% talked to an ENT first

Those who discussed hearing loss with family doctor and/or ENT:

Who was the doctor you discussed your hearing loss with for the **first time** – your family doctor or the Ear, Nose and Throat specialist (ENT)?



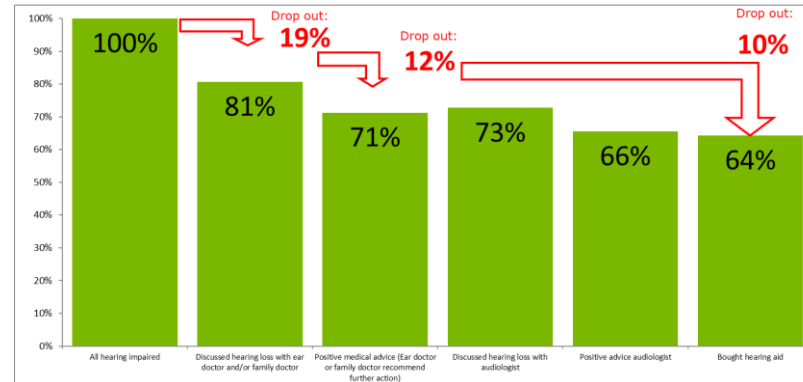
# The route to the hearing aid



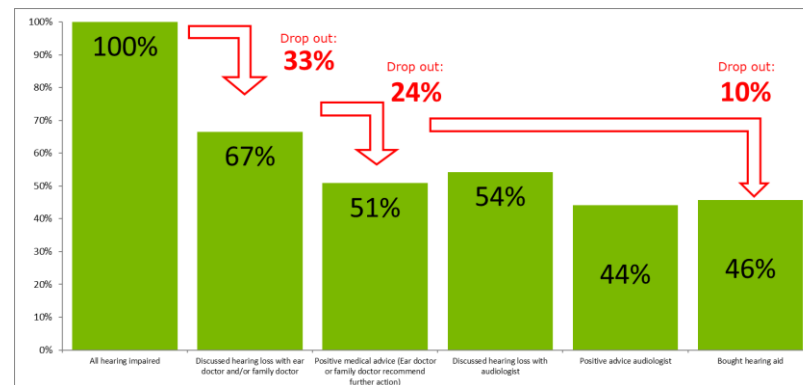
n=1'320

# Much higher drop-out-rates for the lower hearing loss segments

Top 50% hearing loss\*



Low 50% hearing loss\*



n=1'320

\* Construction of 6-groups: A factor analysis was performed to identify one factor "degree of hearing loss". The following questions were included in the factor:

- Number of ears impaired (one or two)
- Stated hearing loss (Mild to Profound)
- Scores on 6 APHAB-EC – like questions (Scaled 1-5)
- When NOT using a hearing aid, how difficult is it for you to follow conversations in the presence of noise

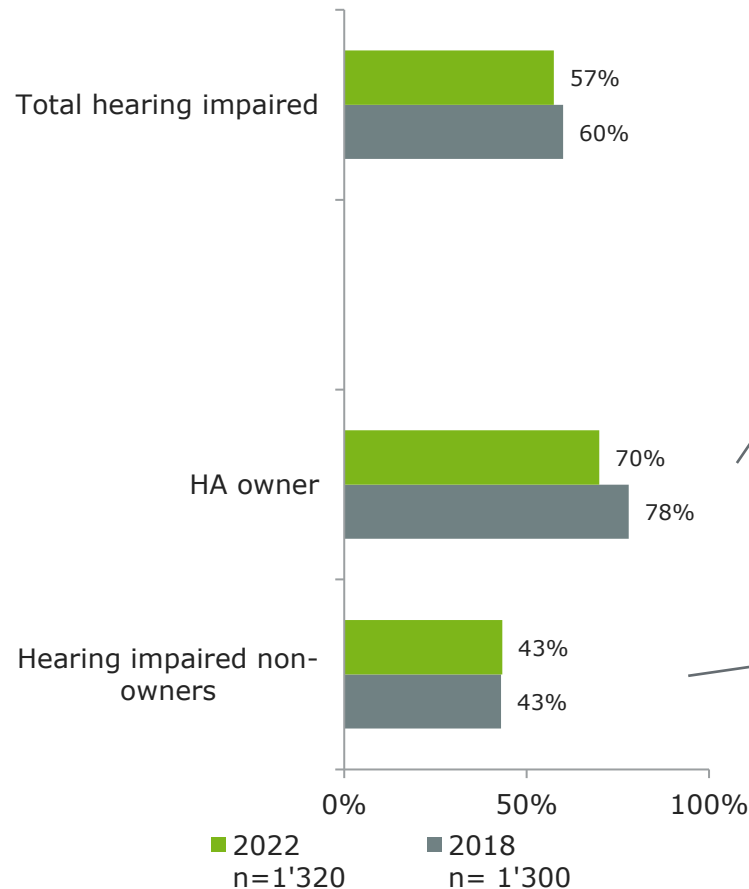
→ People were segmented into 6 groups of same size (16.67% of all hearing impaired in the sample).



# The route to the hearing aid: GP/Family doctor

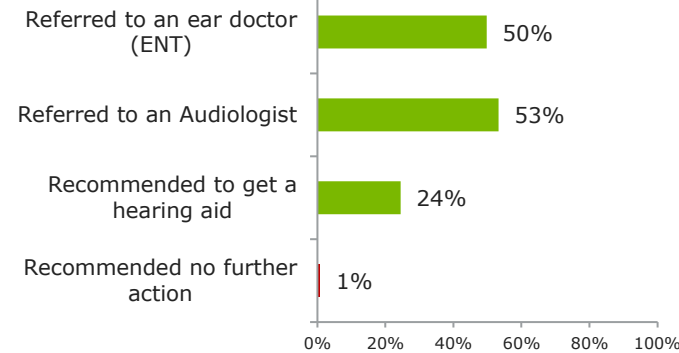
## Have you discussed your hearing problem with your family doctor?

% Discussed with GP

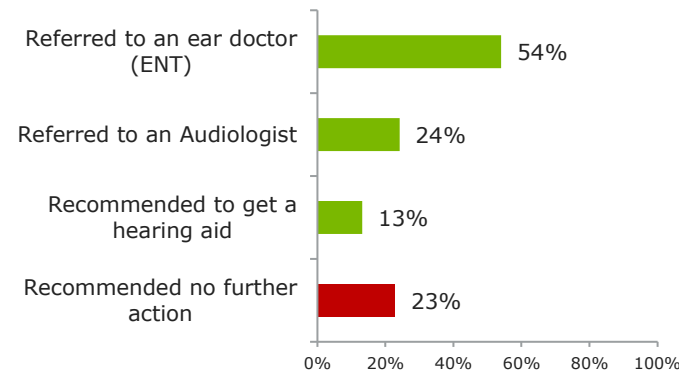


What did he/she recommend ?

HA owner (n=483)



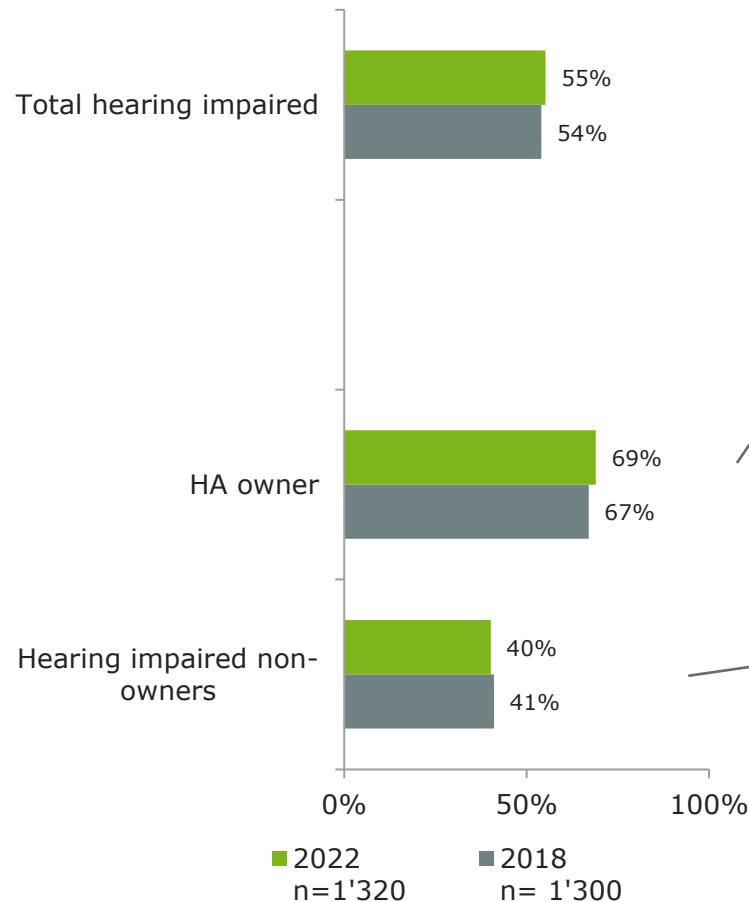
Impaired non-owner (n=249)



# The route to the hearing aid: ENT

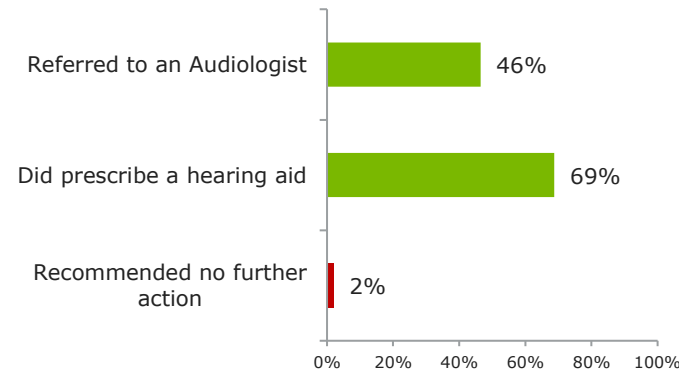
## Have you ever discussed your hearing problem with an Ear, Nose and Throat specialist (ENT)?

% Discussed with ENT

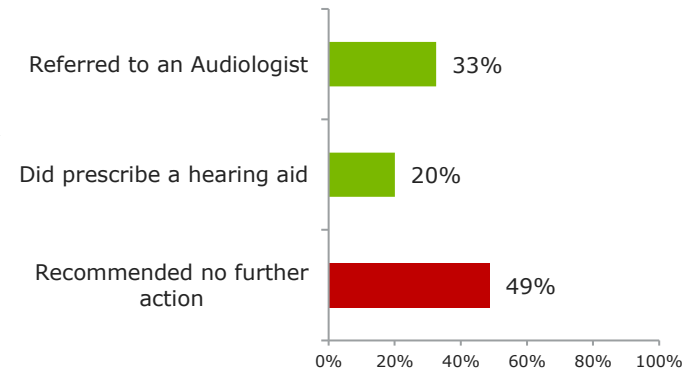


What did he/she recommend ?

HA owner (n=453)



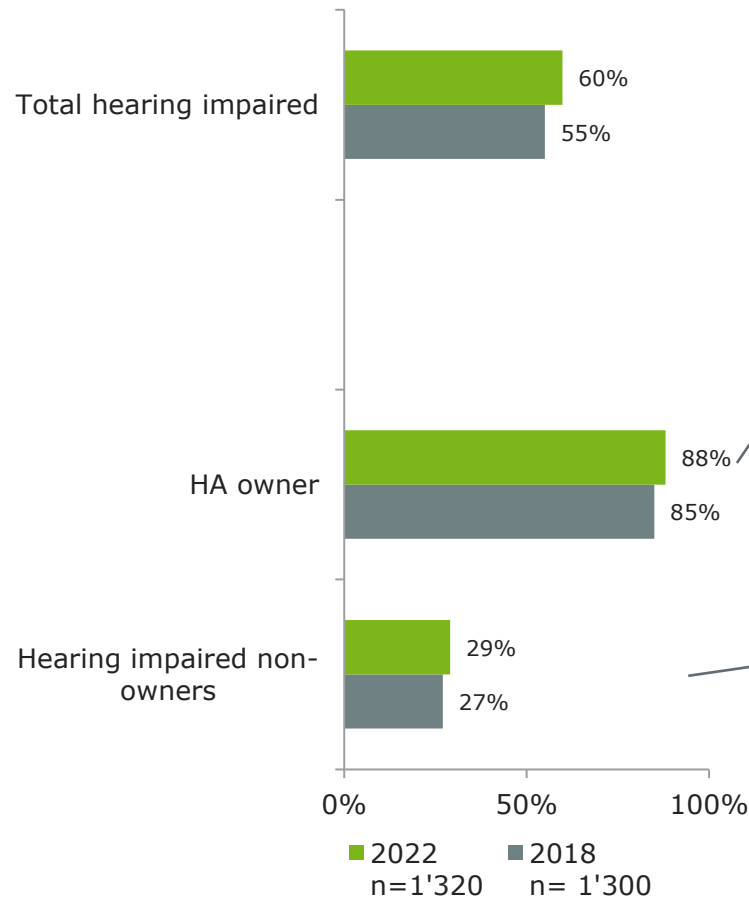
Impaired non-owner (n=239)



# The route to the hearing aid: Audiologist

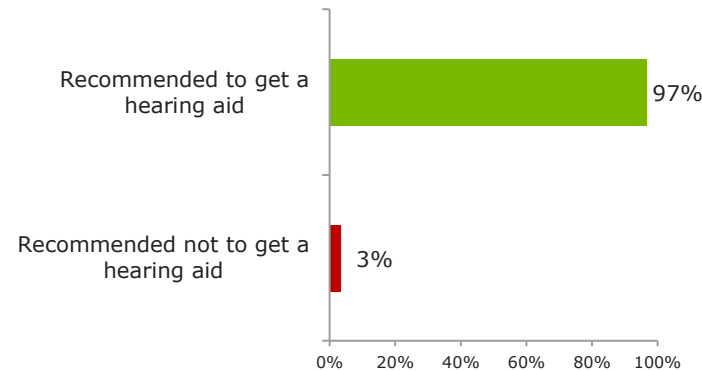
## Have you ever discussed your hearing problem with a HA dispenser / Audiologist?

% Discussed with Audiologist

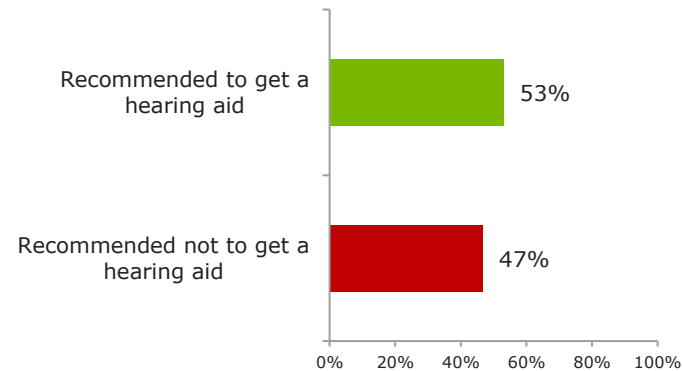


What did he/she recommend ?

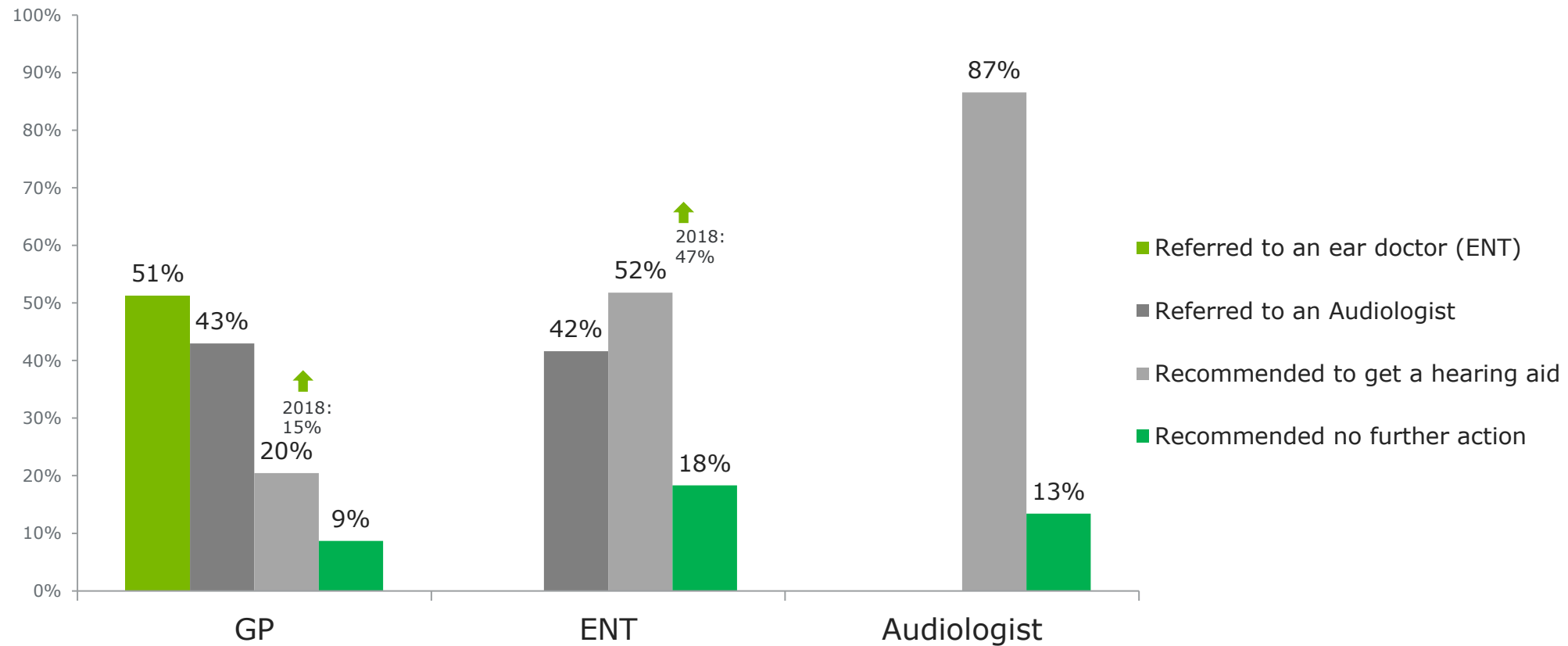
HA owner (n=600)



Impaired non-owner (n=173)



# Recommendations by profession

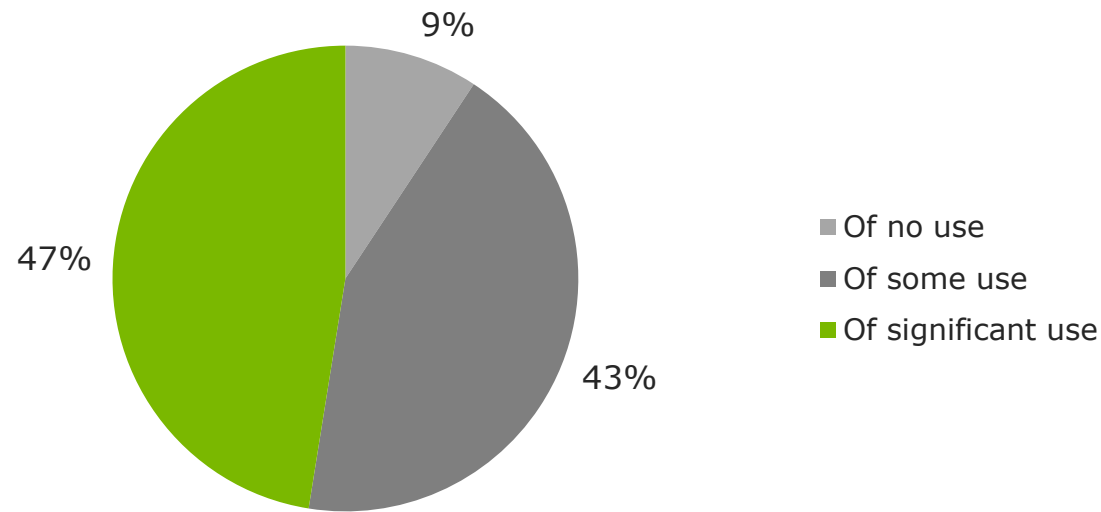


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Potential social cost-savings due to the use of hearing aids: Work competitiveness, depressive symptoms, sleep quality, co-morbidities

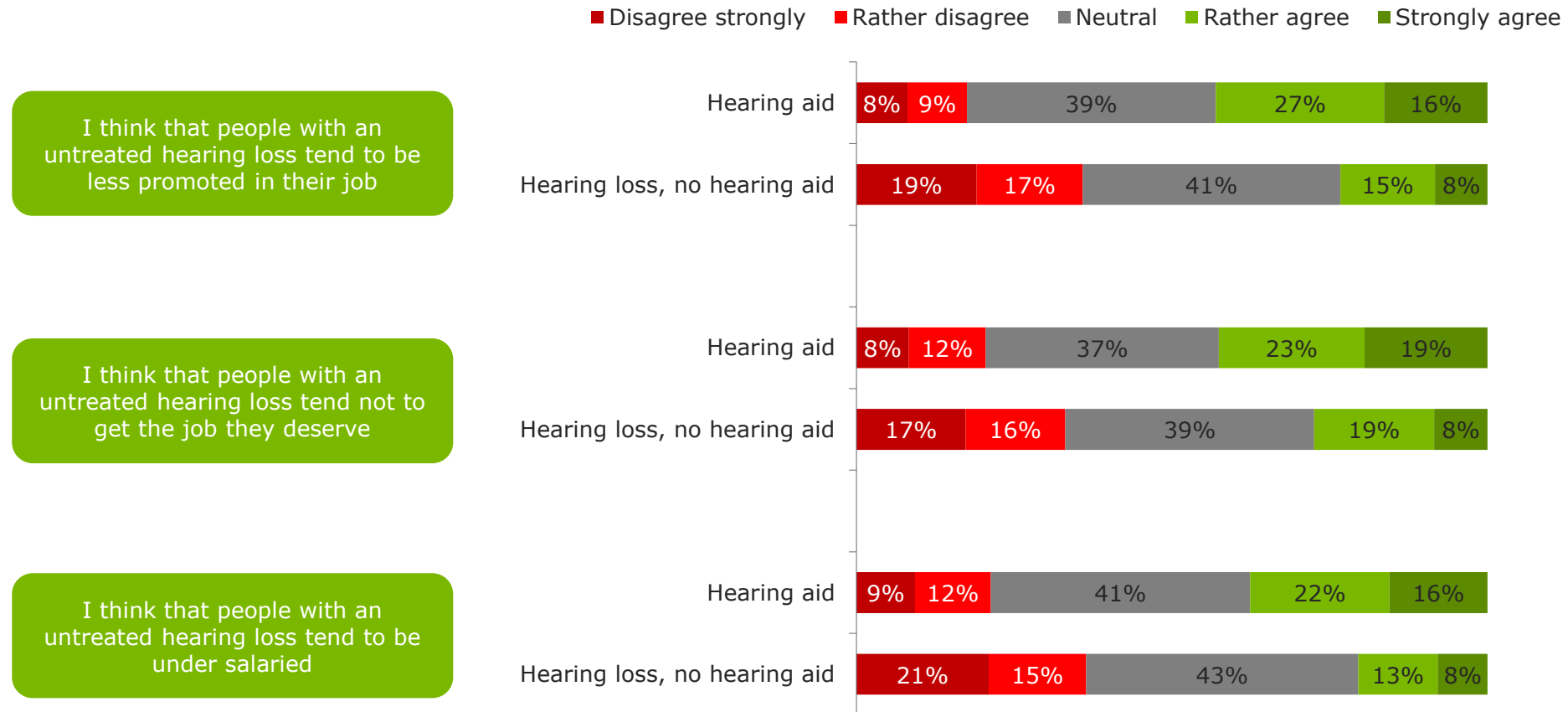
# Work competitiveness: 90% of the working hearing aid owners state their hearing aid(s) are useful on their job.

How useful are your hearing aids on your job?



n=134

# Work competitiveness: People with hearing aids recognize that hearing aids increase the chance of hearing impaired to get promoted, to get the right job and to get more salary.



Base: Hearing loss, no hearing aid n=443/ hearing aid n=433

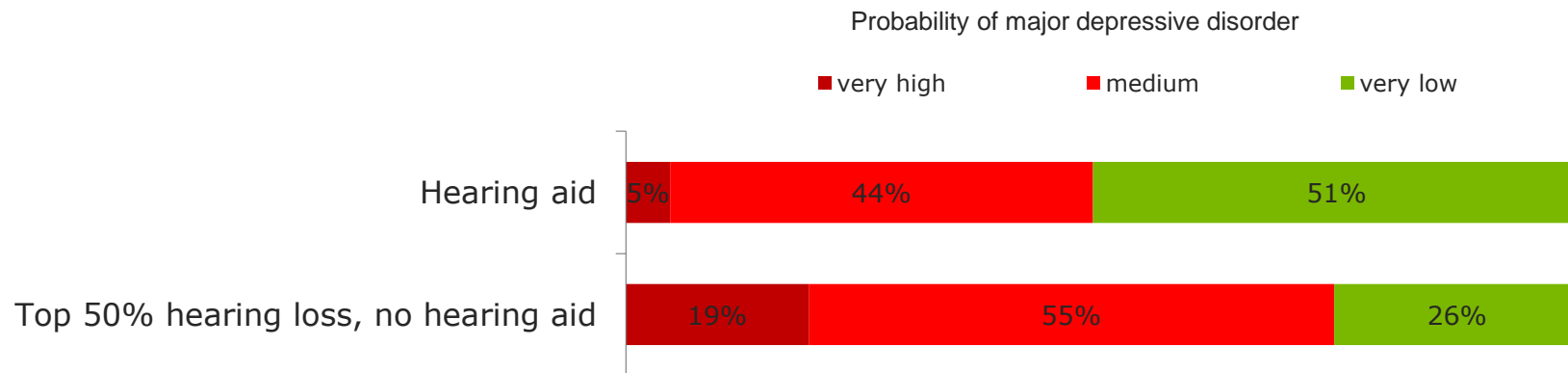
# General health problems: Hearing aid owners have a lower risk of being depressed (PHQ-2 Screening) compared to impaired non-owners with comparable hearing loss (Top50% hearing loss group\*).

Depression symptoms:

PHQ-2 Screening:

In the last 2 weeks:

- Little interest or pleasure
- Feeling down, depressed, hopeless



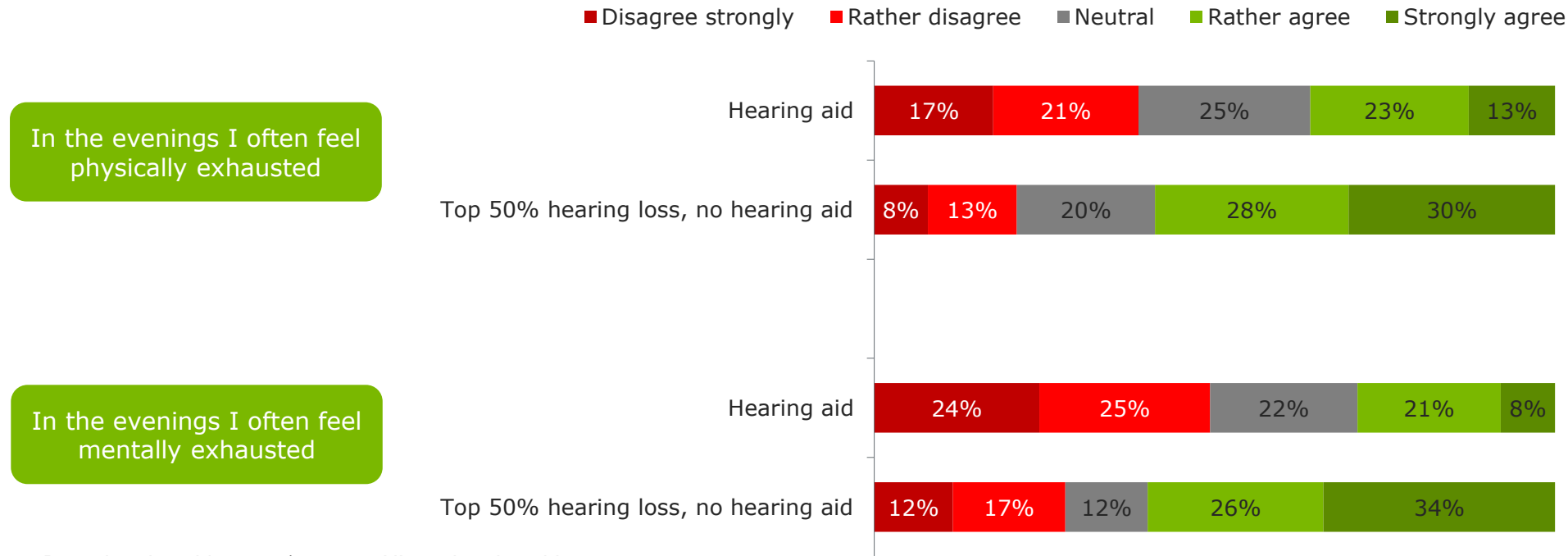
Base: hearing aid n=489 / top 50% HL, no hearing aid =137

\*Construction of 6-groups: A factor analysis was performed to identify one factor "degree of hearing loss". The following questions were included in the factor:

- Number of ears impaired (one or two)
  - Stated hearing loss (Mild to Profound)
  - Scores on 6 APHAB-EC - like questions (Scaled 1-5)
  - When NOT using a hearing aid, how difficult is it for you to follow conversations in the presence of noise
- People were segmented into 6 groups of same size (16.67% of all hearing impaired in the sample).



# General health problems: Compared to impaired hearing aid non-owners with significant hearing loss (Top50% hearing loss group\*), hearing aid owners feel less exhausted in the evenings



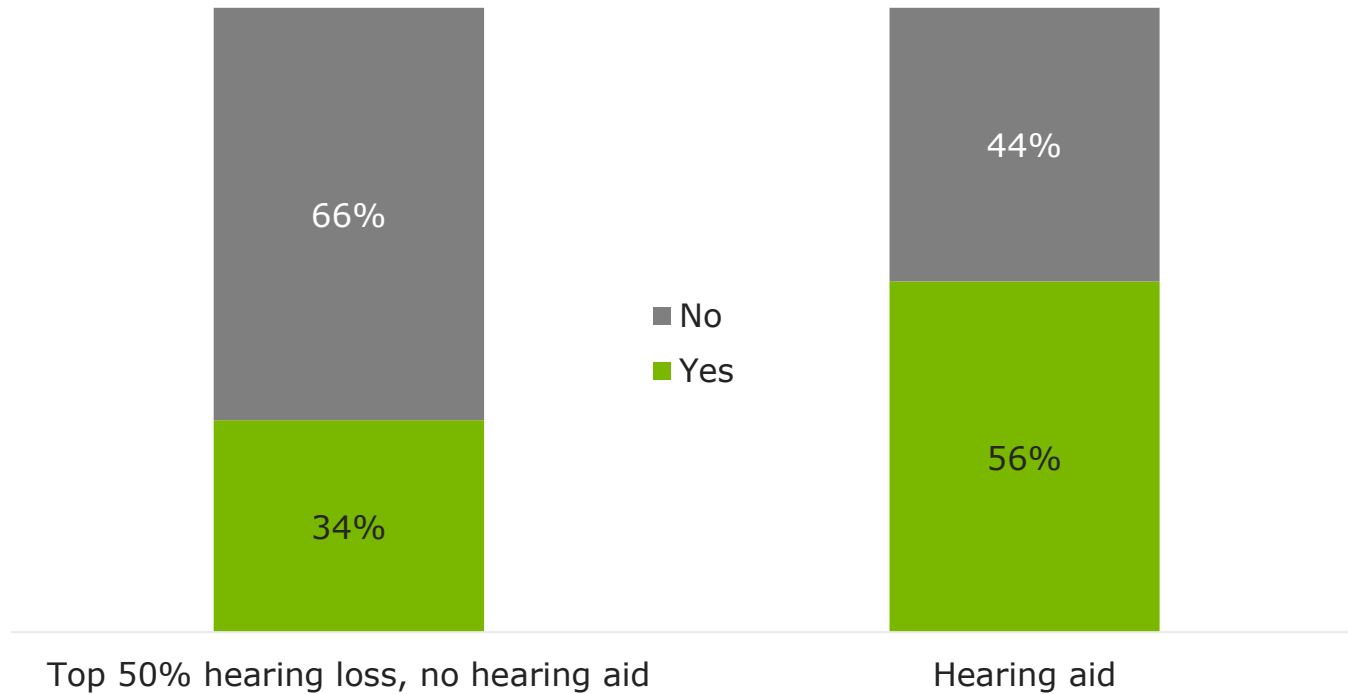
Base: hearing aid n=484 / top 50% HL, no hearing aid =132

\*Construction of 6-groups: A factor analysis was performed to identify one factor "degree of hearing loss". The following questions were included in the factor:

- Number of ears impaired (one or two)
  - Stated hearing loss (Mild to Profound)
  - Scores on 6 APHAB-EC – like questions (Scaled 1-5)
  - When NOT using a hearing aid, how difficult is it for you to follow conversations in the presence of noise
- People were segmented into 6 groups of same size (16.67% of all hearing impaired in the sample).

# General health problems: Quality of sleep seems to improve if hearing impaired use hearing aids

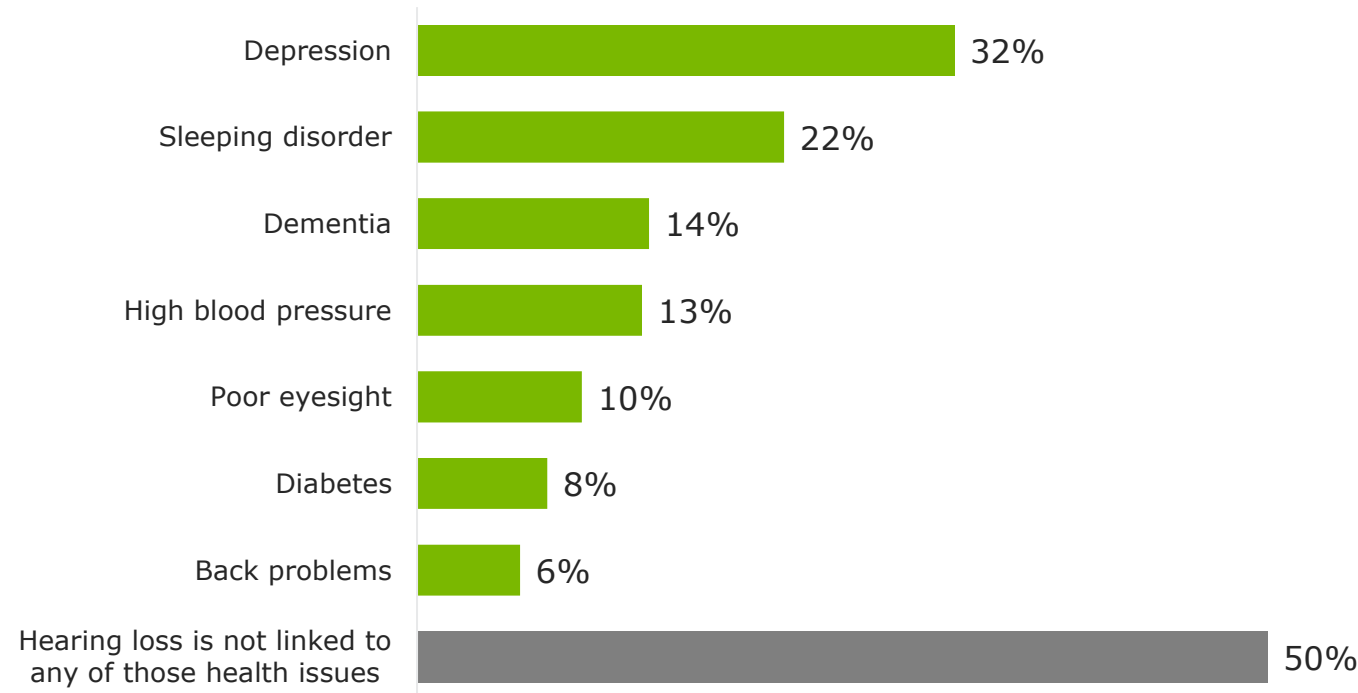
Are you generally satisfied with the quality of your sleep?



Base: hearing aid n=489 / top 50% HL, no hearing aid =137

# 32% of all hearing impaired think that hearing loss could be linked to depression and/or sleeping disorder

Please tick all of the health issues below which you think could be linked to one's hearing loss.



Hearing impaired, n=1'320

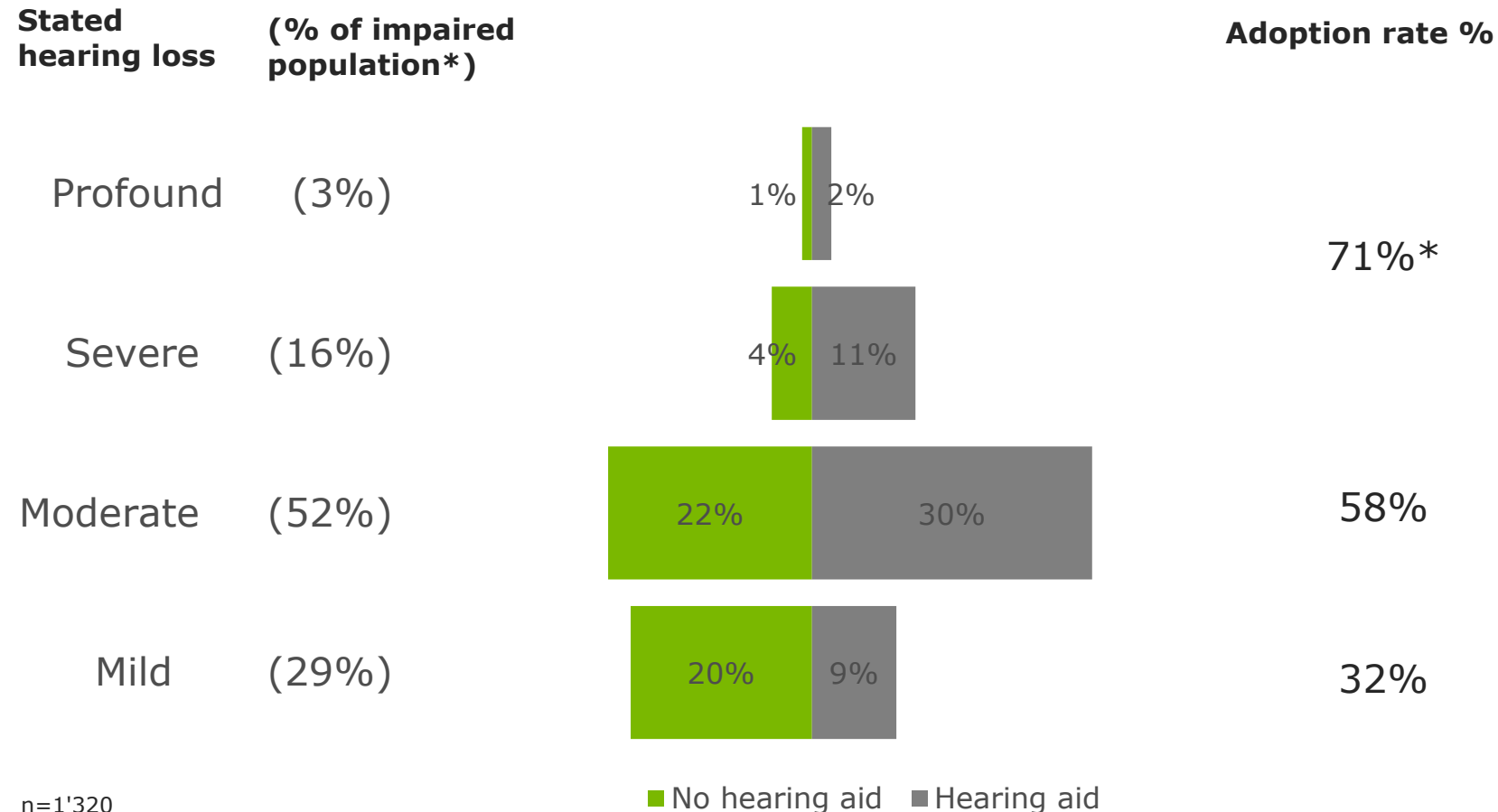
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## 3. Analysis of hearing aid owners

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Hearing aid ownership, awareness of hearing loss  
before getting hearing aids, lifetime of hearing aids  
and usage

# Low adoption rates within mild hearing loss



71%\*

58%

32%

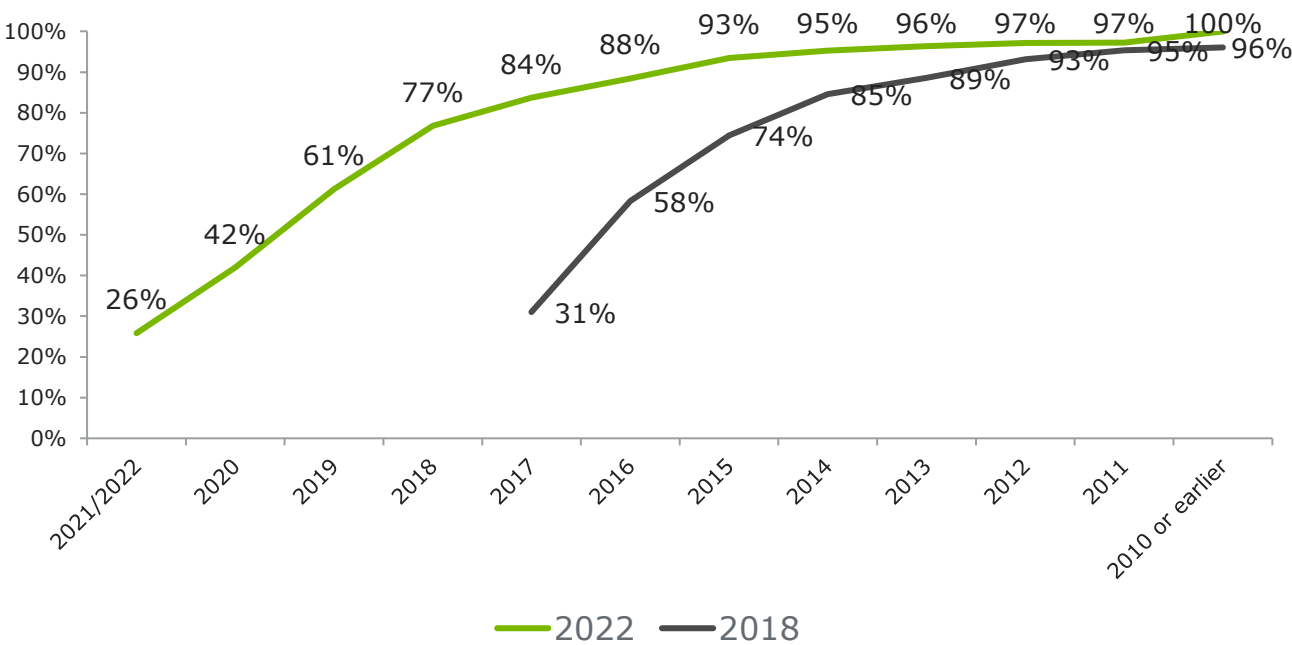
n=1'320

Sums can differ from 100% due to rounding

\* combined "severe" and "profound" because n is too small

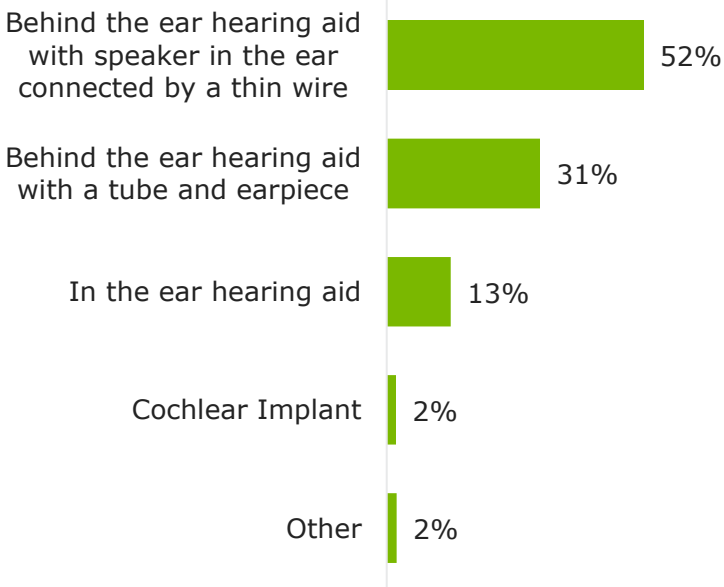
61% of the currently owned HAs were acquired in 2019 or later  
 RIC is the most often purchased type of HA.

Year of purchase



**Age of currently owned HAs (Mean):**  
 2022: 2.9 years  
 2018: 2.3 years

Type of HA

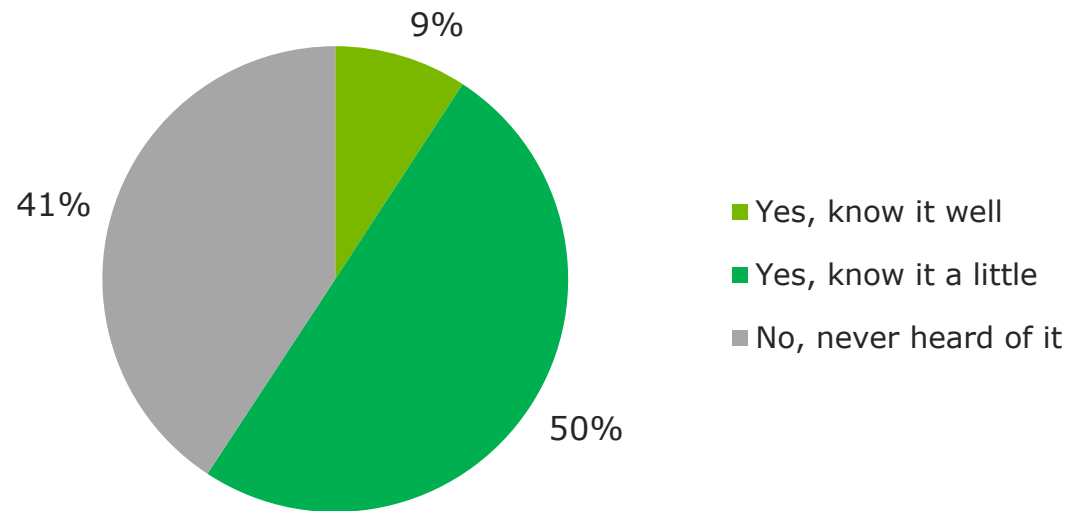


HA-owner, n=703



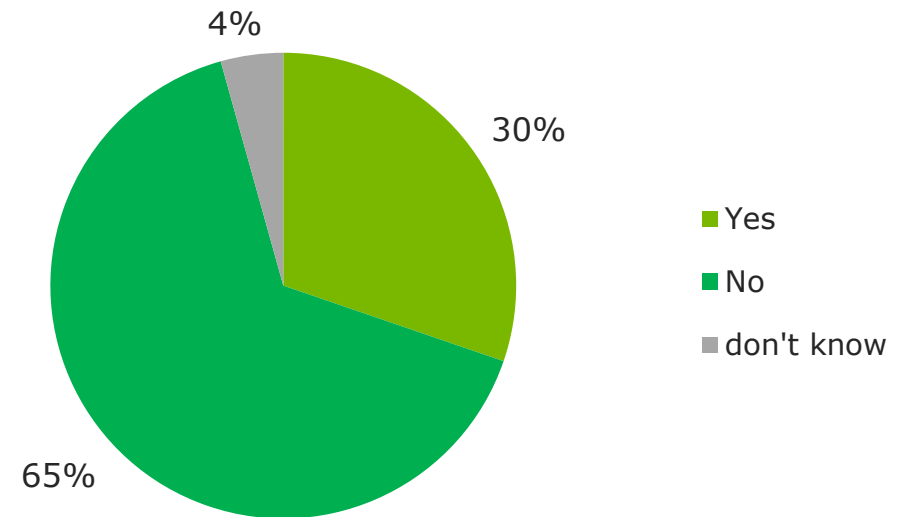
41% of the population in UK have never heard of Cochlear Implants.  
30% of the HA owners with severe/profound HL have been informed about CIs by a medical professional.

Do you know what a cochlear implant (CI) is?



n=4'144

Have you been informed about cochlear implants by a medical professional?

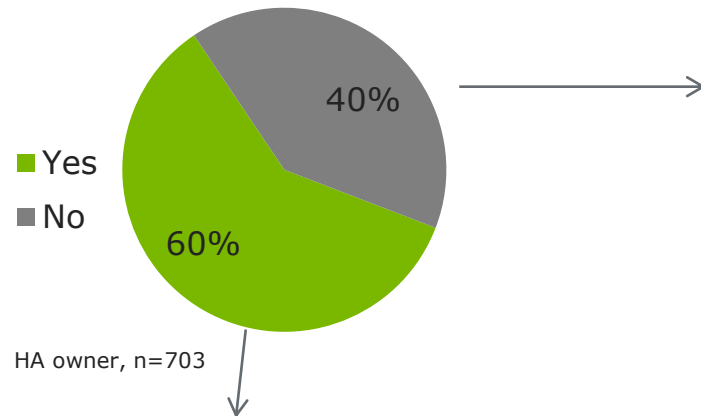


n=167 (HA owners with severe/profound HL)

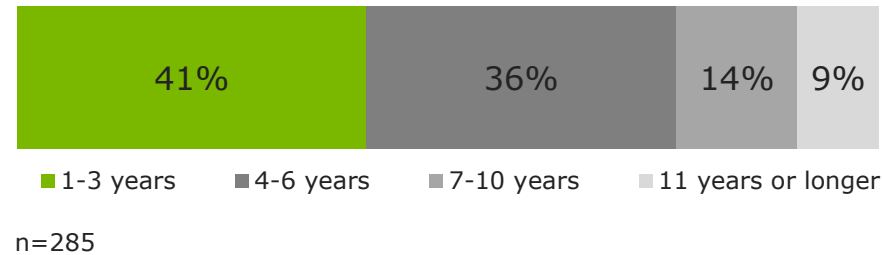


Hearing aids are used for 4 years before they are being replaced. On average 3 years pass between becoming aware of the hearing loss and the purchase of hearing aids.

Current HAs = first HAs?



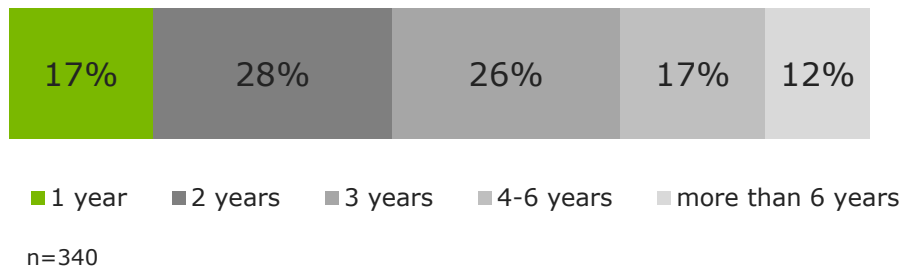
How many years did you own your previous HAs?



Age of HA before it has been replaced:  
2022: 4 years (median)  
2018: 4 years (median)

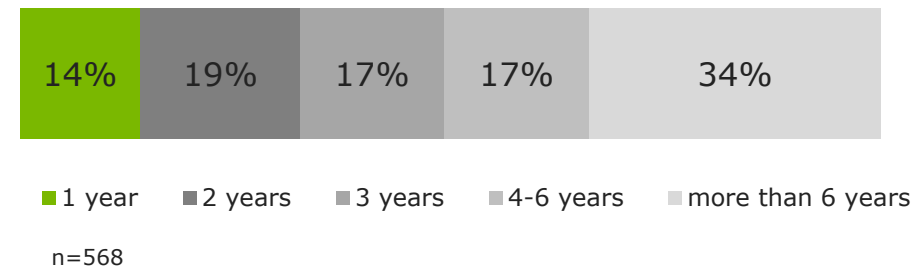
#### HA non owners (1<sup>st</sup> HA):

Thinking back before you acquired your first hearing aid: How many years have passed since you became aware of your hearing loss until you acquired a hearing aid?



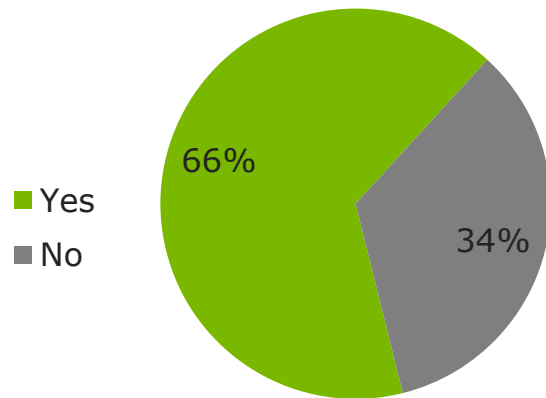
#### HA non owners:

How many years had passed since you became aware of your hearing loss?



# 66% of all HA owners think they should have gotten their HAs sooner! Main reason is missing out on social life.

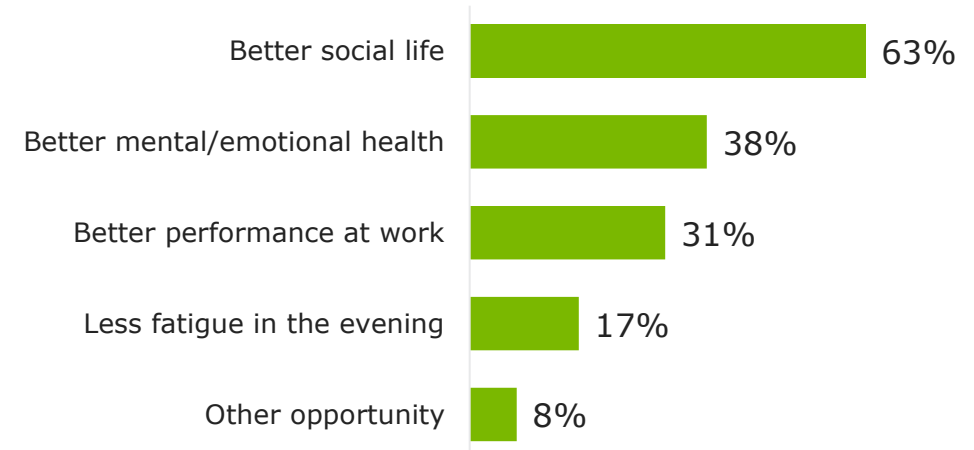
Thinking back before you obtained your first hearing aid(s): do you think, you should have gotten them sooner?



HA-owner, n=703

*IF YES:*

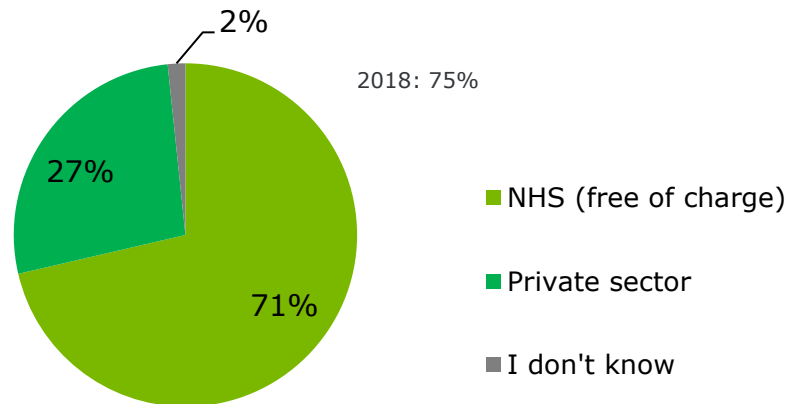
What are the reasons why you think you should have gotten your hearing aid(s) sooner? What are the opportunities you think you have missed because of this? Please tick all that apply



n=462

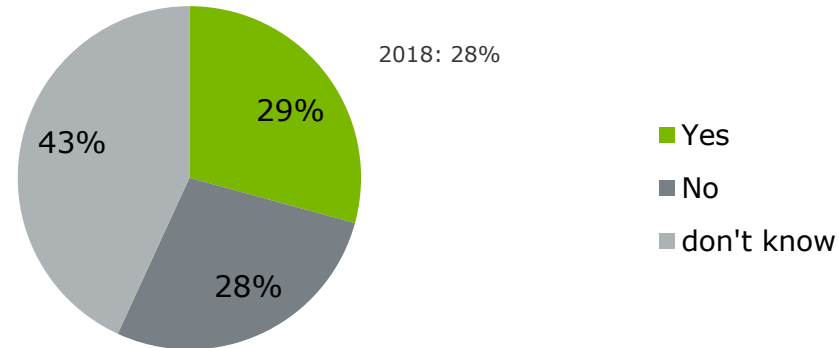
71% of the hearing aid owners received a free-of-charge NHS instrument. A majority of hearing impaired without hearing aids don't know whether a third party would pay any part of hearing aids.

**Owners:** Did you purchase your most current hearing aid in the private sector or did you receive a free-of-charge NHS instrument?



HA-owner, n=703

**Non-owners:** Based on your current knowledge, would any part or all of your hearing aid(s) be paid for by a third party? (Insurance, NHS, ...)

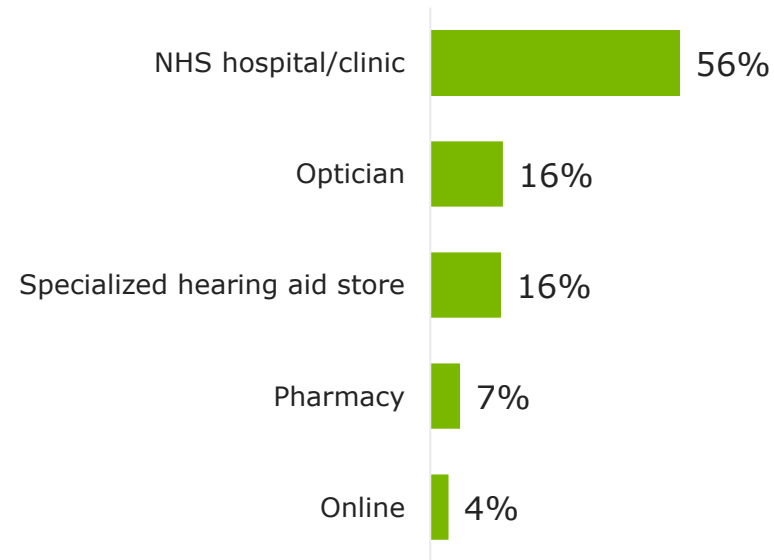


HA-non-owners, n=617

# NHS is the preferred place for obtaining hearing aids (both for owners and non owners).

## OWNERS:

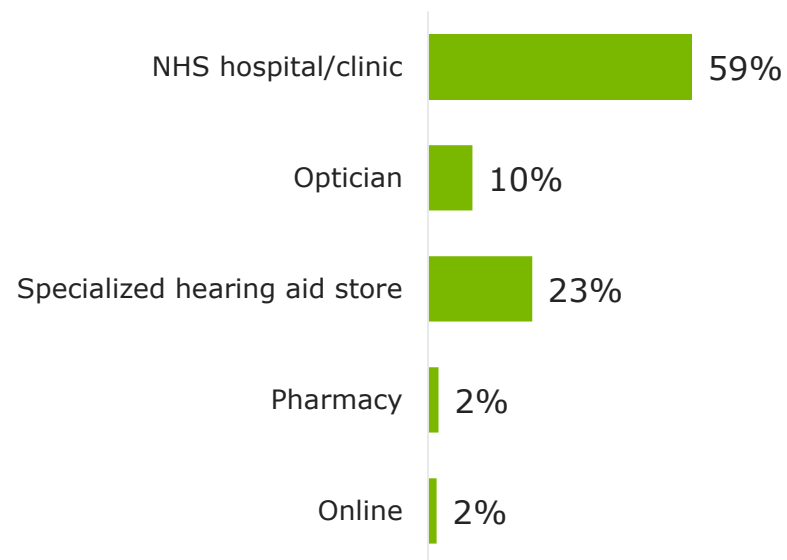
Where was your most current hearing aid obtained?



HA-owner, n=703

## NON OWNERS:

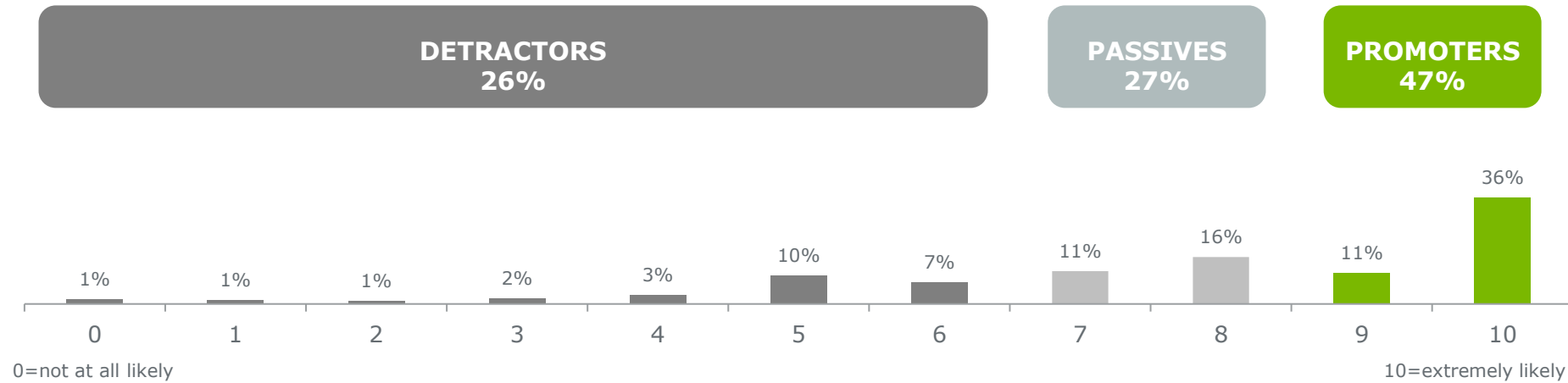
If you were to get hearing aids, where would you go?



HA-non-owner, n=617

# Recommendation intention of the place where the hearing aid(s) have been obtained: Positive NPS score of 22.

*Considering your complete experience, how likely would you be to recommend the place where you obtained your hearing aids to a friend or colleague?*

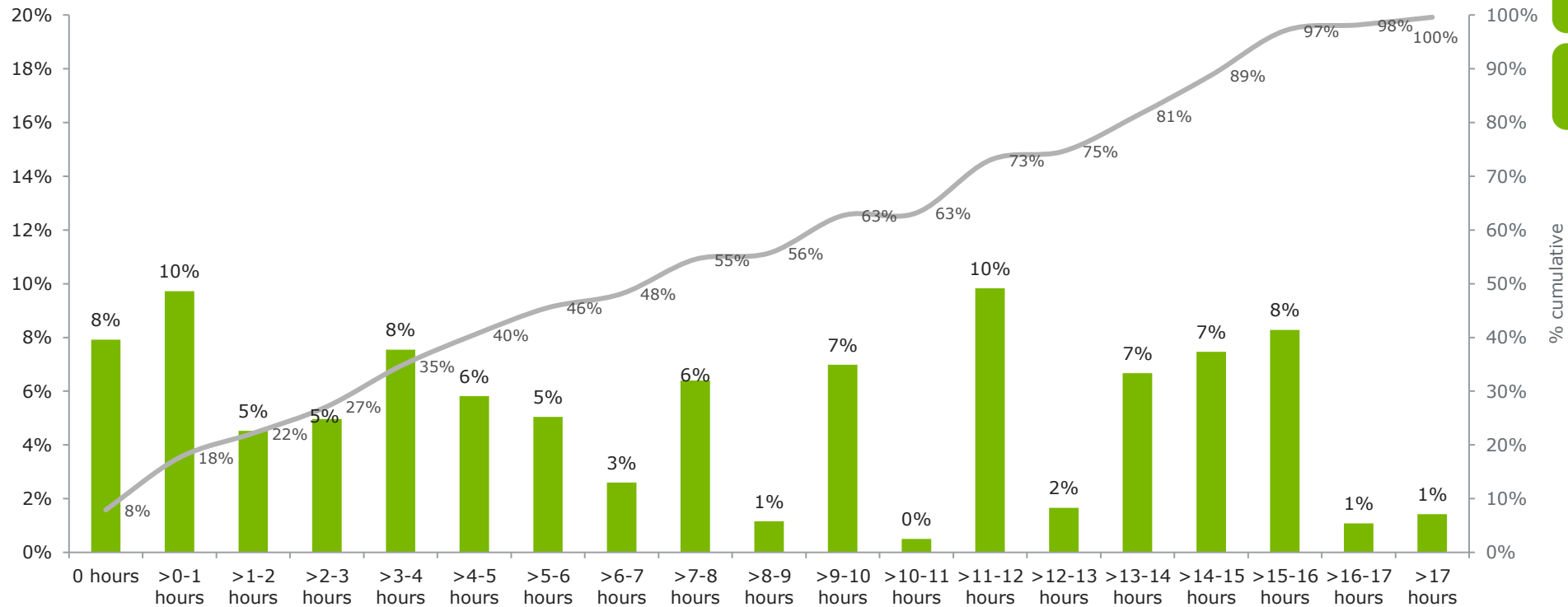


**NPS = PROMOTERS – DETRACTORS = 22**

HA-owner, n=703

# On average, HAs are worn 8.1 hours a day

How many hours a day are HA worn?



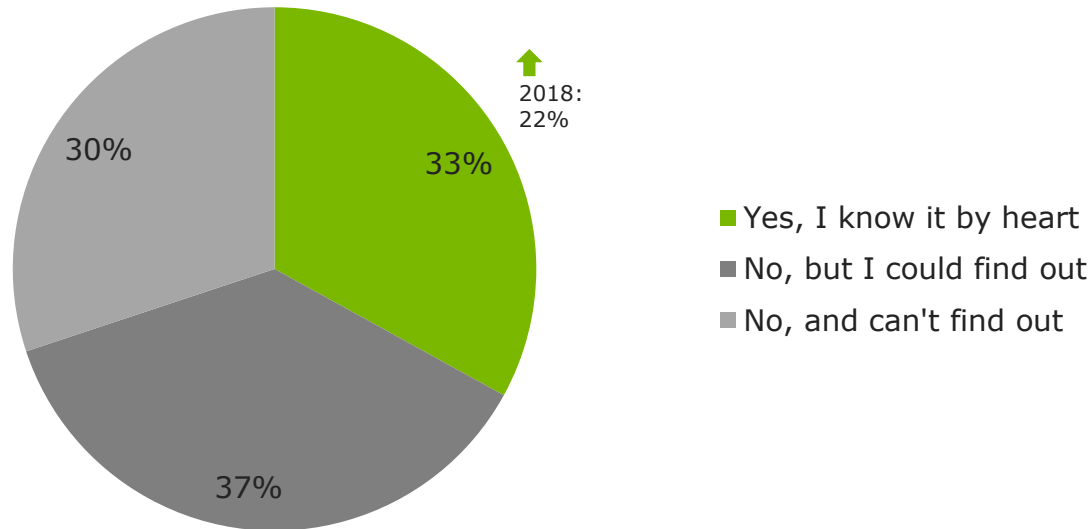
**HA worn:**  
**2022 Mean: 8.1 hours/day**  
**2018 Mean: 7.8 hours/day**

**In the drawer (0 hours):**  
**2022: 8%**  
**2018: 8%**

HA-owner, n=703

# 33% of today's hearing aid owners are aware of their hearing aid brand (brand awareness has increased since 2018).

Are you aware of the brand of your hearing aid(s)?



HA-owner, n=703

22% of the HA owners use a hearing aid app, 65% of those are satisfied with it.

Have you been informed by your hearing care professional about hearing aid apps?  
(HA owners, n=703)



Do you personally use apps for your hearing aids?  
(HA owners, n= 703)



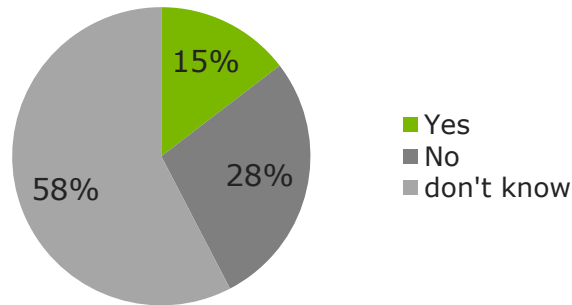
IF APPS USED (n=137):  
Overall, how satisfied with the performance of your accessorie(s)?





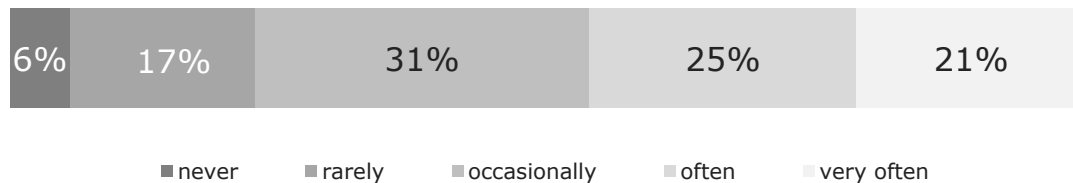
15% of the HAs are (to the knowledge of the owners) equipped with Telecoil. Main usage of Telecoil with phone, in office buildings and conference rooms and in theaters.

Are your hearing aids equipped with Telecoil?



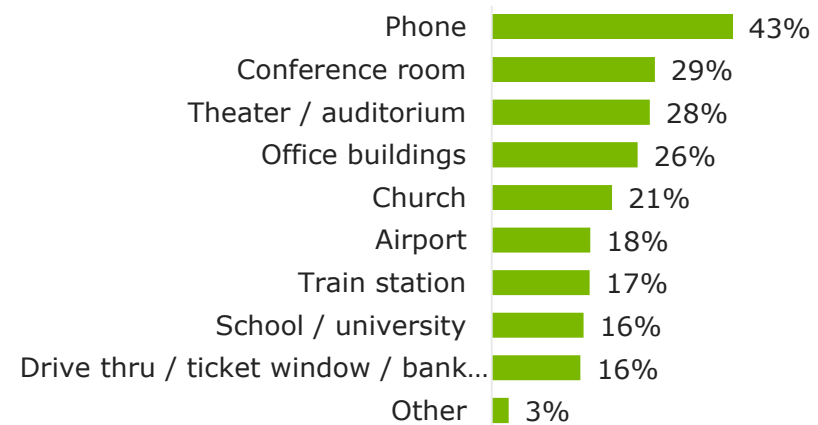
HA-owner, n=703

How often do you use the telecoil to improve your hearing?



HA-owner (equipped with Telecoil), n=85

Where do you use your telecoil to improve your hearing?



HA-owner (use Telecoil), n=79

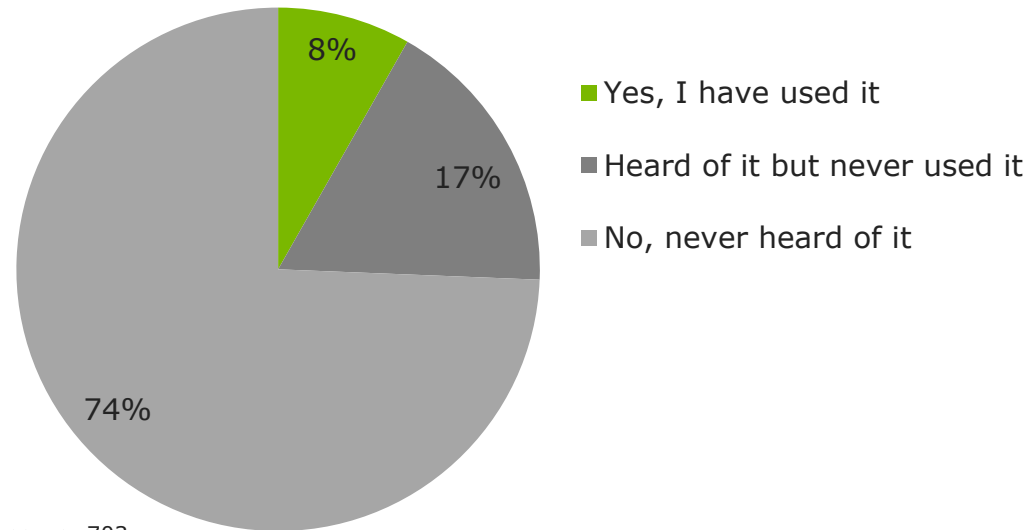
How satisfied are you with the telecoil option?



HA-owner (use Telecoil), n=79

8% of the HA owners have already used remote fitting, 17% have at least heard of it, 74% have never heard of it.

Have you ever heard of Remote fitting for your hearing aids?  
(Remote fitting: enables your hearing care professional to fit and fine-tune hearing aids from a distance (in real-time via video chat via an app), so that you don't need to leave your house to get your hearing aids adjusted)



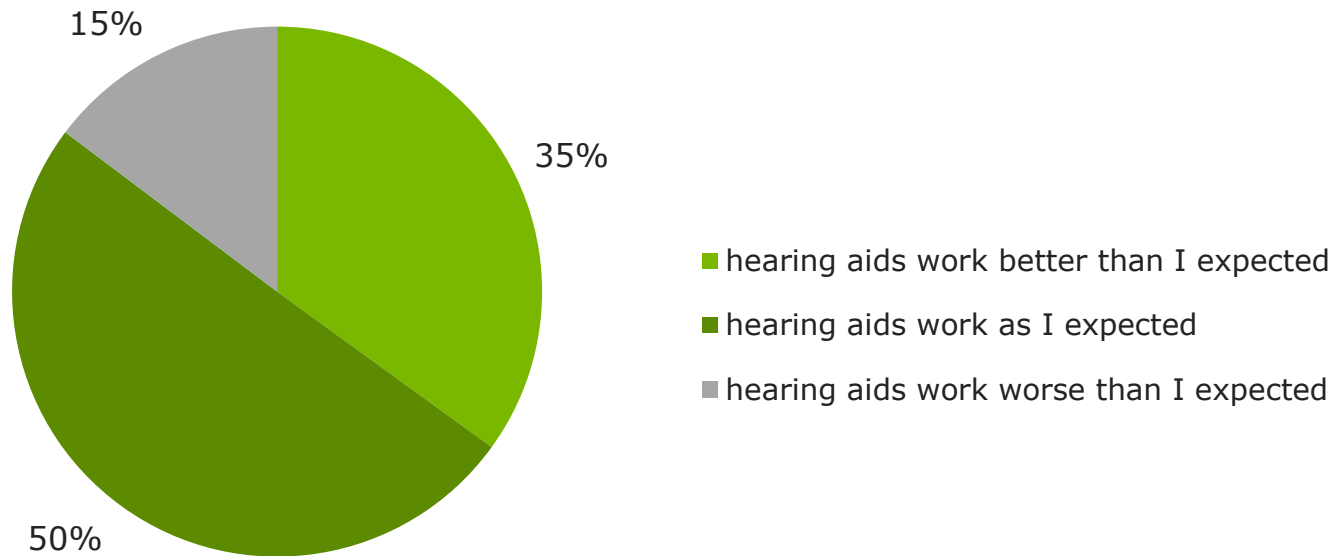
HA-owner, n=703

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## Satisfaction with hearing aids and drivers

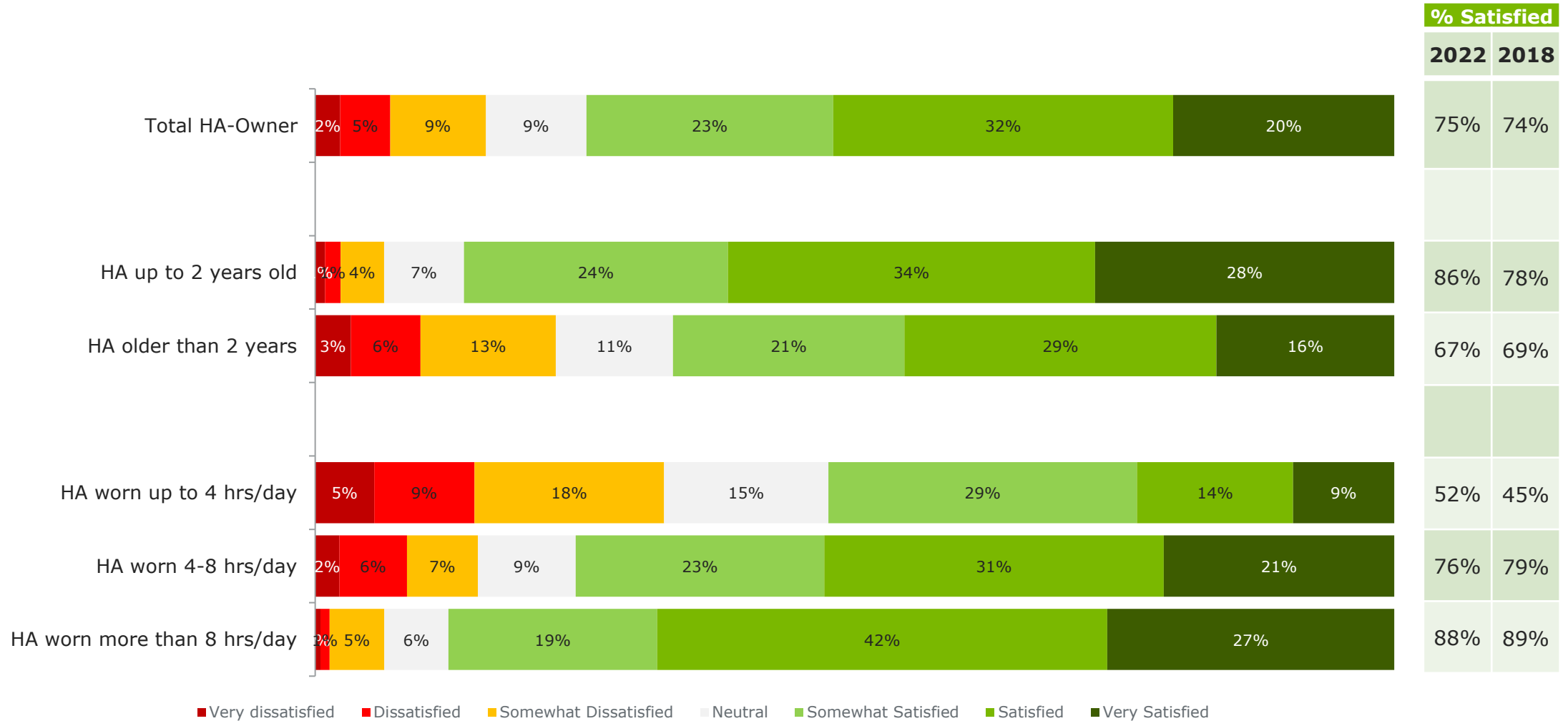
# 85% of the hearing aid owners say their hearing aid works better than or as expected

How have the expectations you had towards hearing aids before trying them on for the first time been met?

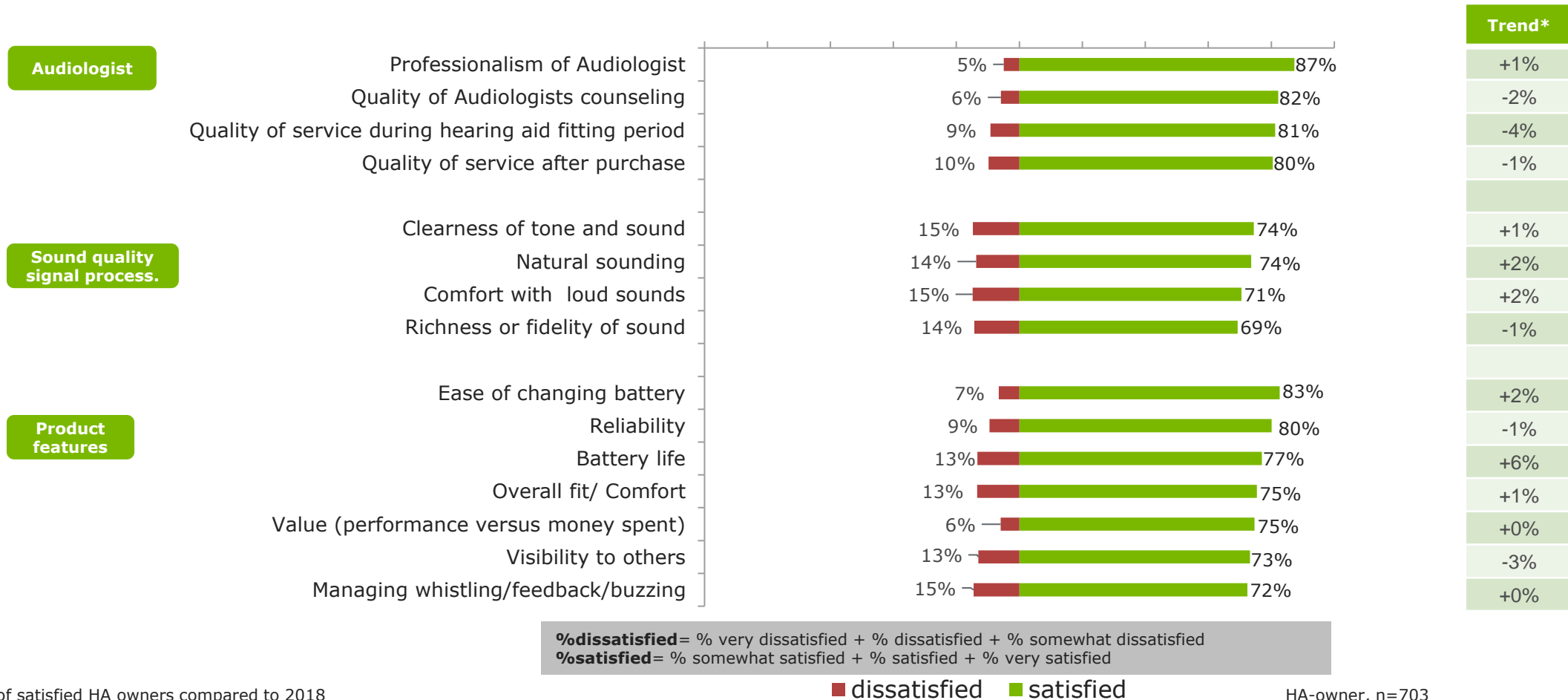


n=703

# Overall satisfaction with HA: 75% of hearing aid owners are satisfied with their hearing aid(s)



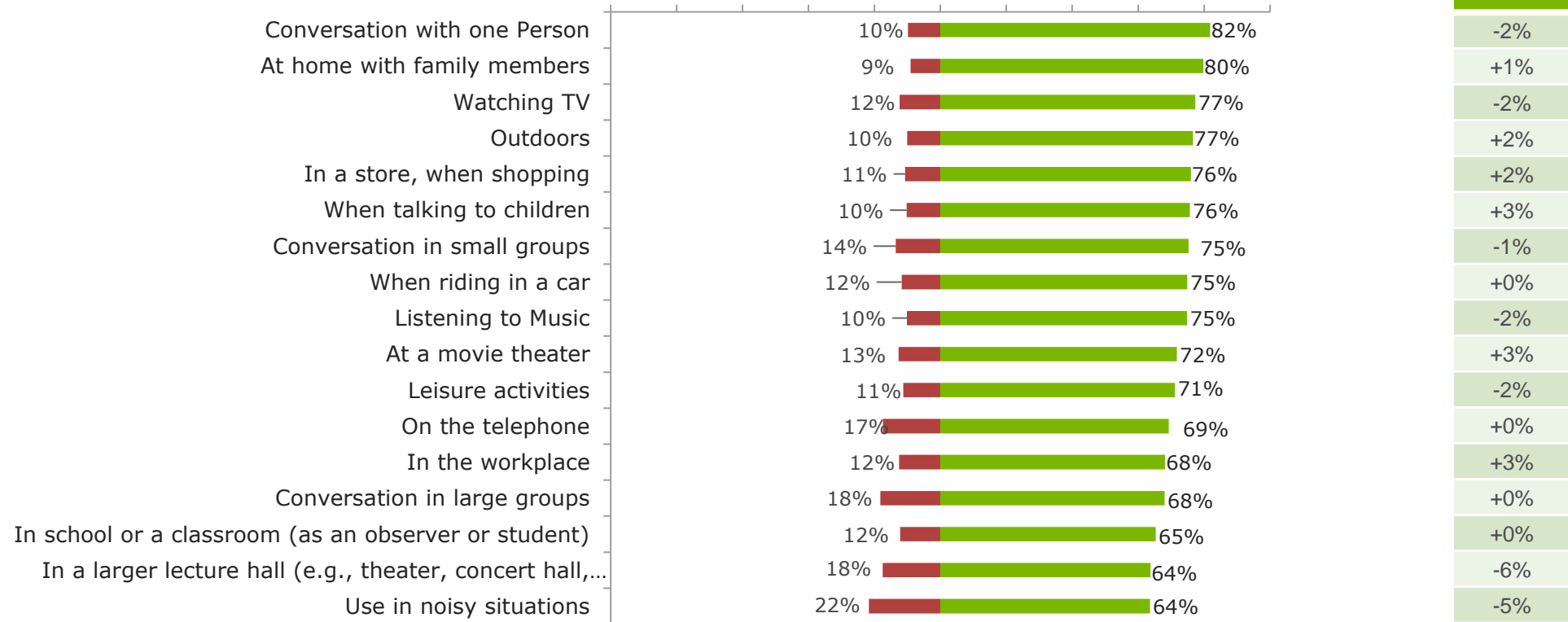
# Satisfaction with current hearing aids



\*% of satisfied HA owners compared to 2018

# Satisfaction with current hearing aids

**Listening situations**



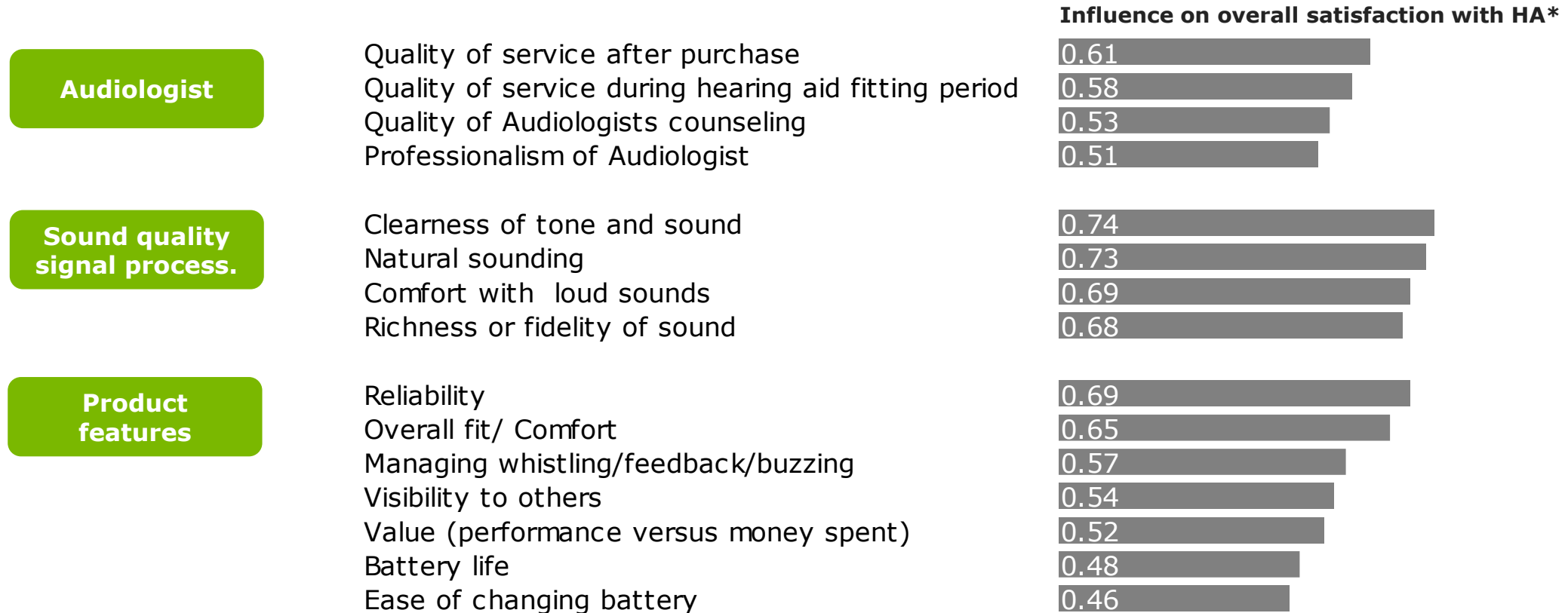
**%dissatisfied**= % very dissatisfied + % dissatisfied + % somewhat dissatisfied  
**%satisfied**= % somewhat satisfied + % satisfied + % very satisfied

■ dissatisfied ■ satisfied

\*% of satisfied HA owners compared to 2018

HA-owner, n=703

# Factors influencing satisfaction with current HA: Sound quality/signal processing is most important for overall satisfaction with HA

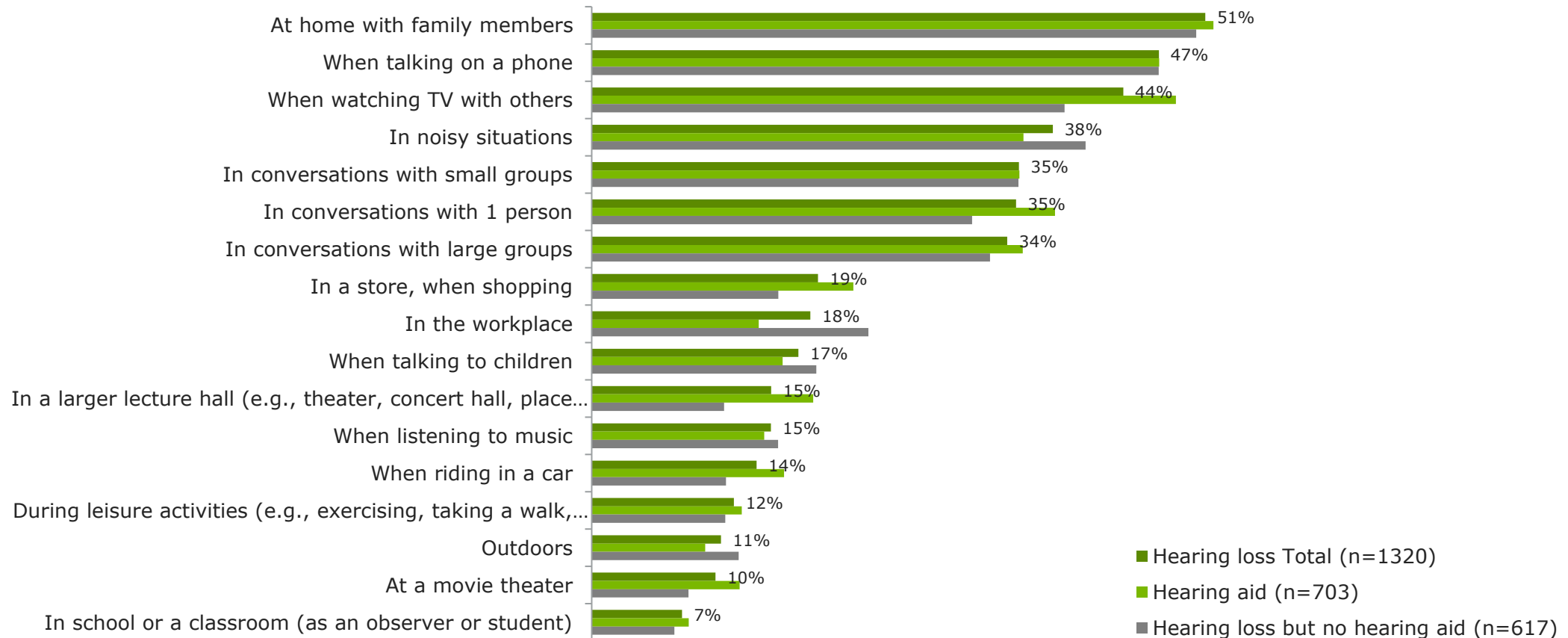


\*The Influence has been calculated with a correlation: 0 means no relation between a criterion and overall satisfaction, 1 means a maximal relationship. **Read:** Clearness of tone and sound is the most important criteria for satisfaction.



# Important listening situations

In which of these situations is it most important for you to hear well?  
(choose up to 5)

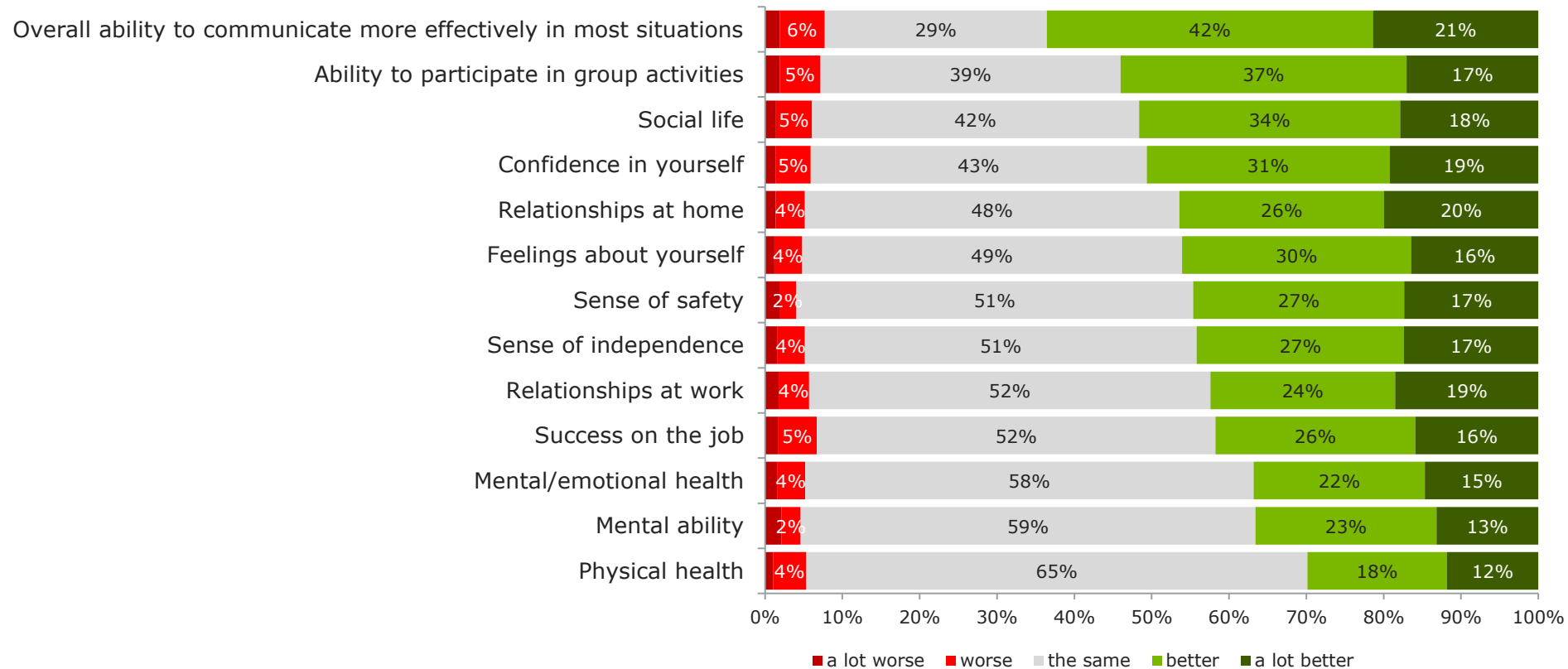


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## Positive impact of hearing aids, quality of life

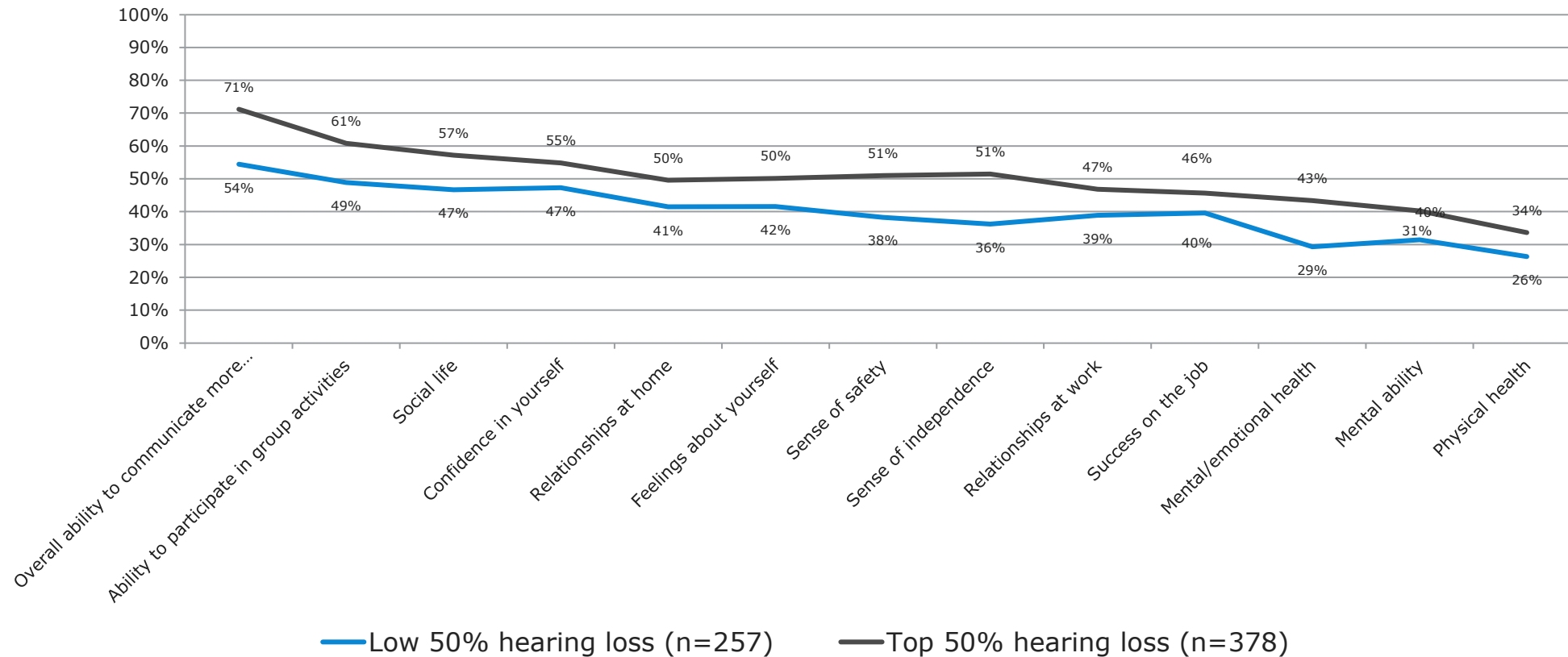
# Significant positive impact of HAs on different aspects: Especially Communication effectiveness, social life, ability to participate in group activities self confidence and relationship at home improve with hearing aids.

Since you started using your hearing aid(s), please rate the changes you have experienced in each of the following areas, that you believe are due to your hearing aid(s).



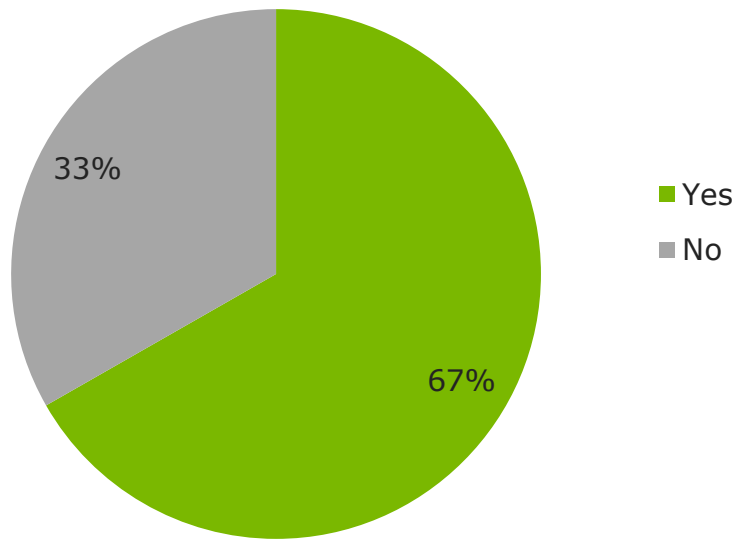
# Impact of HAs is perceived more positive by patients with a Top 50% hearing loss in all aspects

% of HA owners feeling better/a lot better



# 67% of the hearing aid owners feel more confident moving in a city since wearing hearing aids.

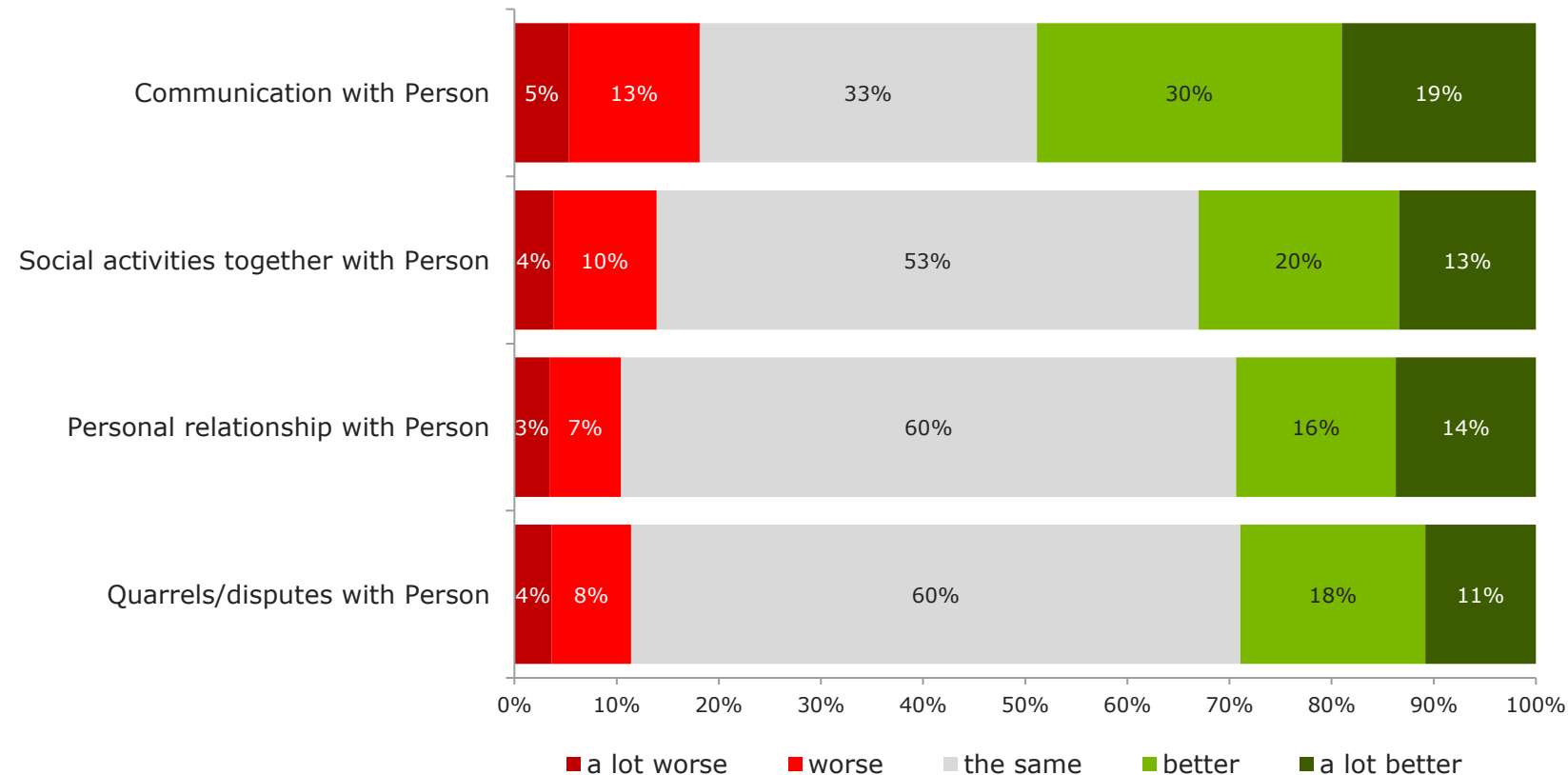
Since wearing a hearing aid, do you feel more confident moving in a city, e.g. because you hear traffic signals/vehicles approaching?



n=703

# Also for other people in the household/relatives, the situation improves when the person with hearing loss starts wearing hearing aids

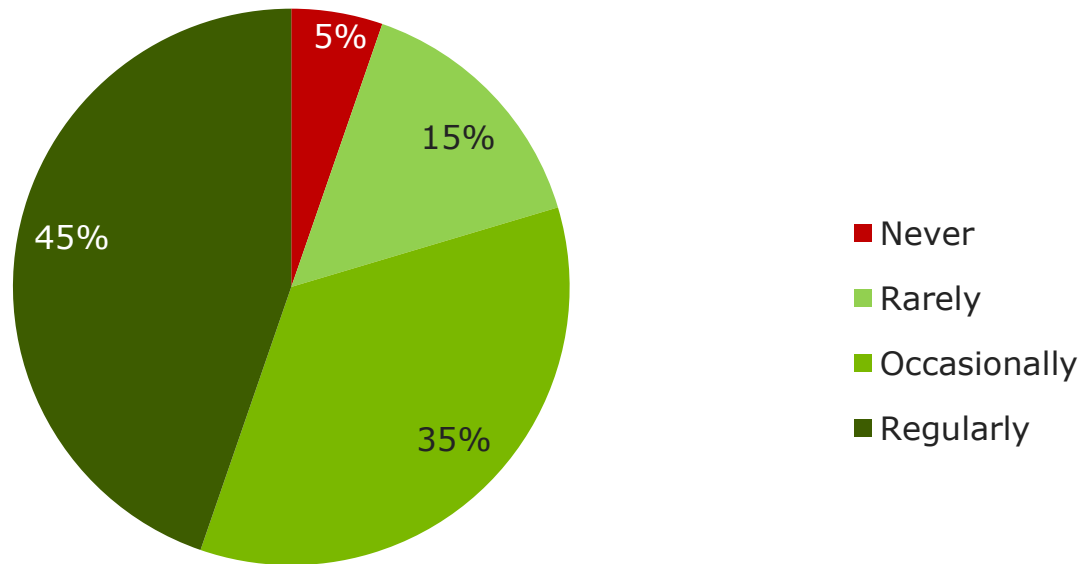
How did the following aspects change since person X is wearing hearing aids?



Someone in HH / parent has HA, n=625

# 95% of hearing aid owners declare that their hearing aids improve their quality of life at least sometimes

How often do your hearing aids improve your quality of life?



n=703

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## 4. Analysis of hearing impaired non-owners

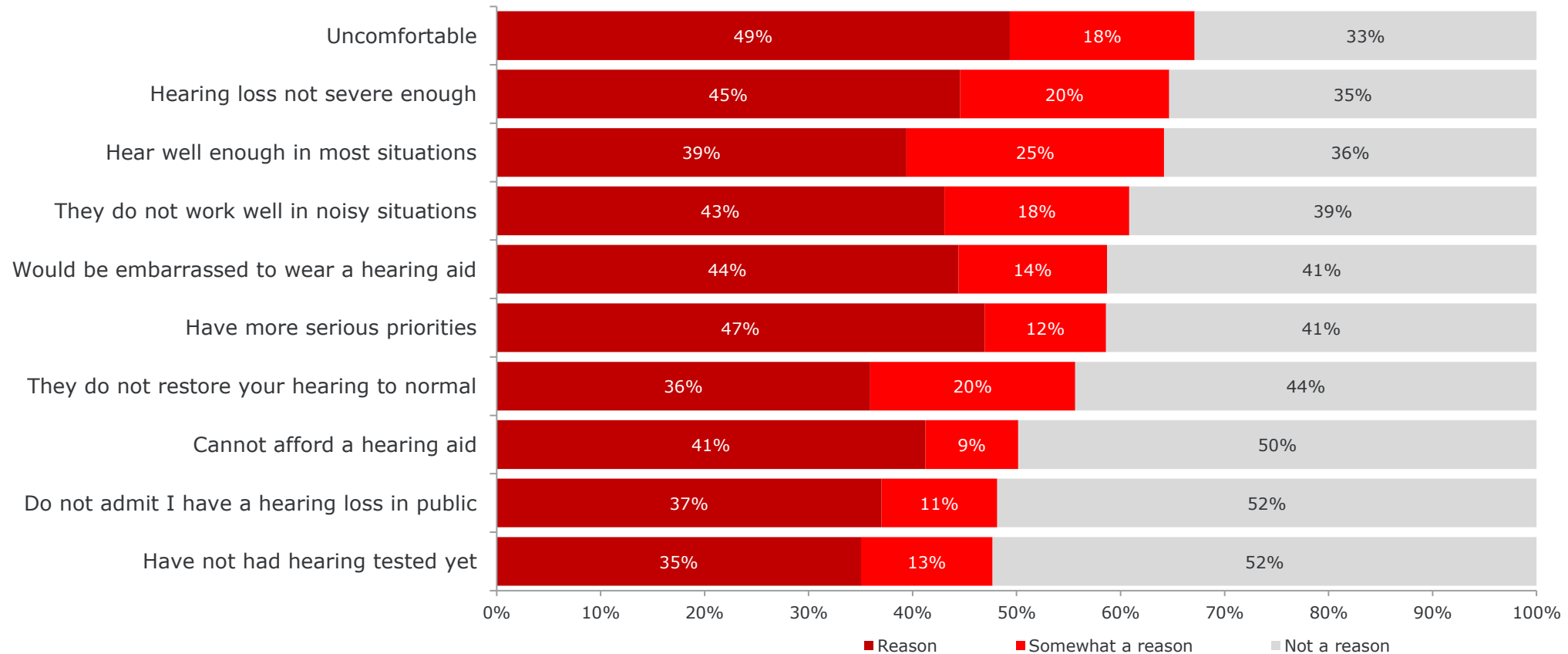


To analyse reasons of non-adoption we look at the Top 50% HL group, as the structure of hearing loss is more similar to that of HA owners

Hearing loss characteristics: Owners compared to non-owners

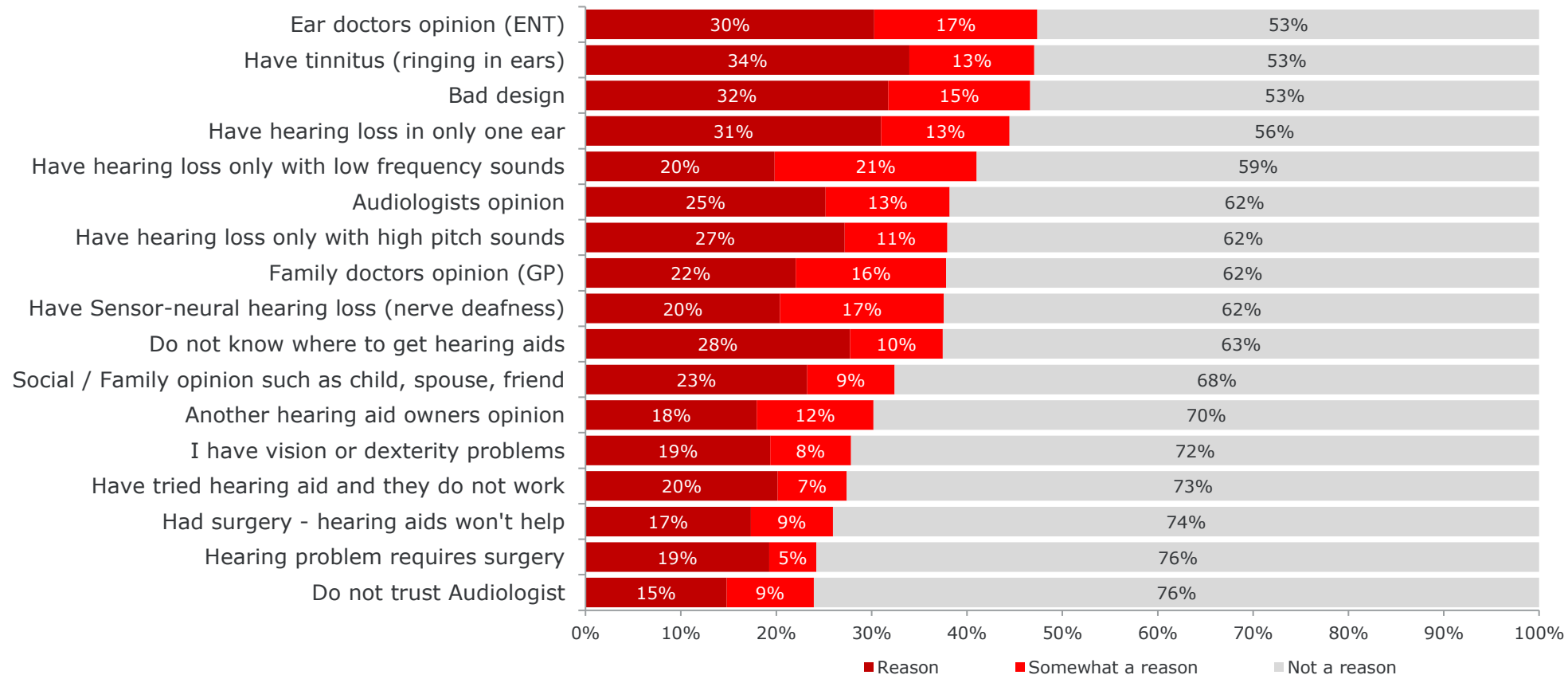
	HA Owner n=703	HA-Non-owner Low 50% HL n=302	Non-owner Top 50% HL n=204
<b>Ears impaired (stated)</b>			
Unilateral loss	25%	46%	39%
Bilateral loss	75%	54%	61%
		More similar hearing loss- structure	
<b>Perceived loss</b>			
Mild	17%	54%	17%
Moderate	57%	40%	63%
Severe	21%	5%	16%
Profound	4%	1%	4%

# Top 10 reasons for not having a hearing aid (I/II)



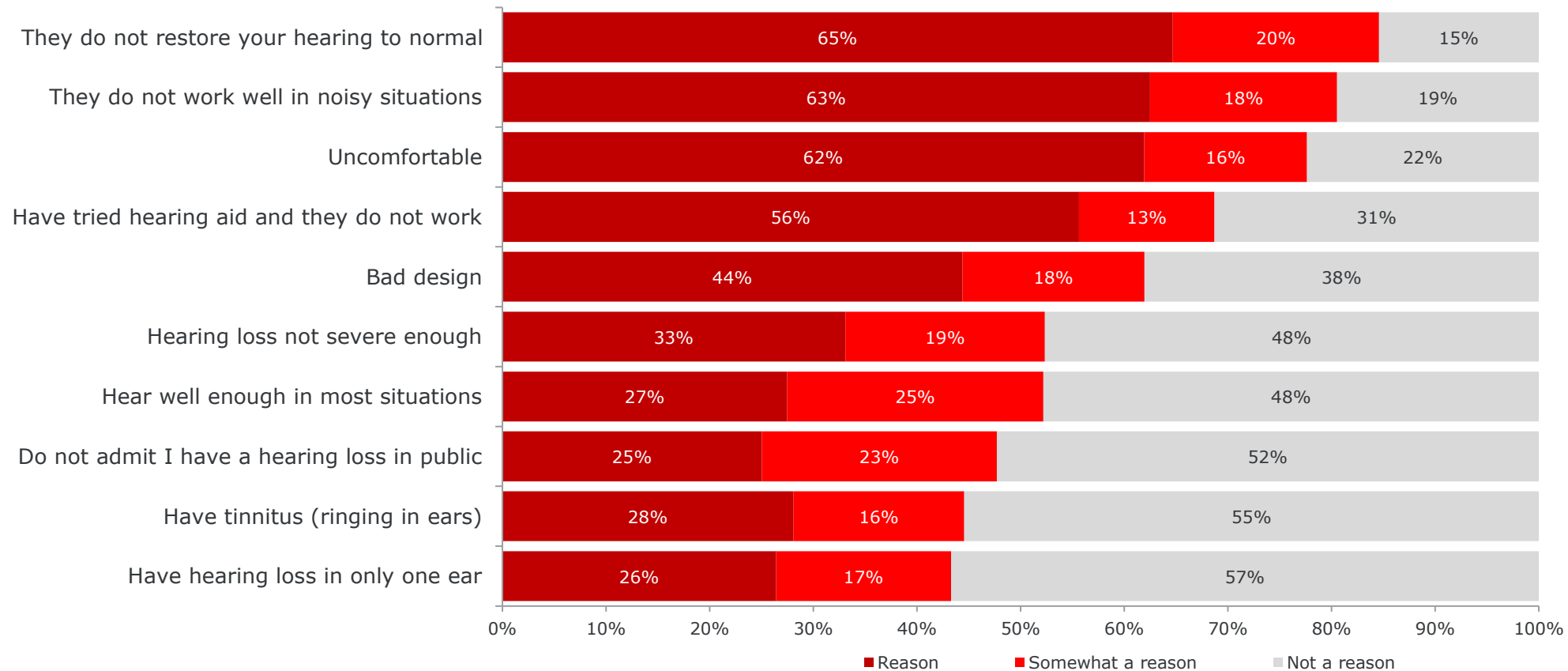
Base: non owners Top 50% HL: n=204

# Less important reasons for not having a hearing aid (II/II)



Base: non owners Top 50% HL: n=204

# Top 10 reasons for HA owners NOT using them



Owners who don't use, n=55 (low sample!)

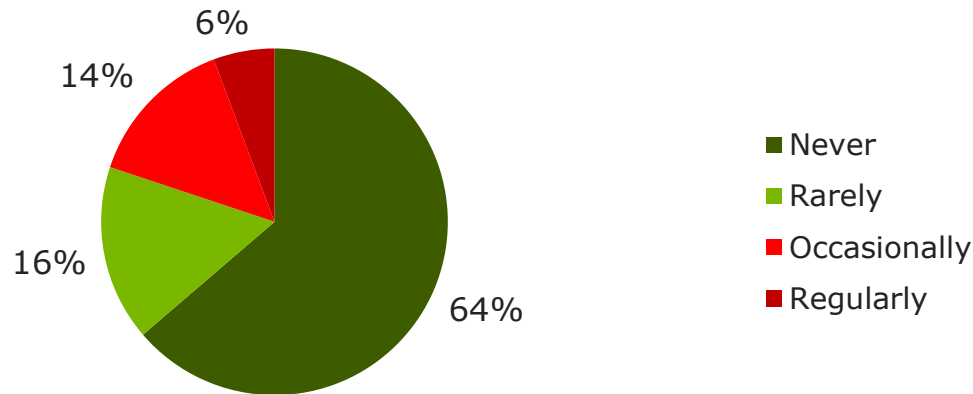
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Social rejection because of hearing loss compared to the acceptance of hearing aids

64% of hearing aid owners feel that people never make fun of or reject them because of their hearing aids. It is more likely somebody makes fun or rejects a hearing impaired without hearing aid.

### Hearing aid owners:

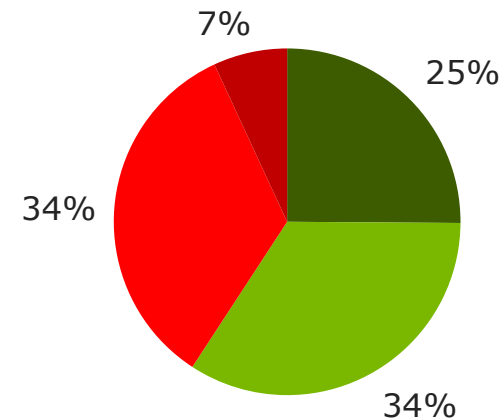
How often do you feel you are made fun of or rejected because you are wearing a hearing aid?



n=703

### Hearing impaired non-owners:

How often do you feel you are made fun of or rejected because your hearing loss?



Base: Top 50% hearing loss, no hearing aid n=204

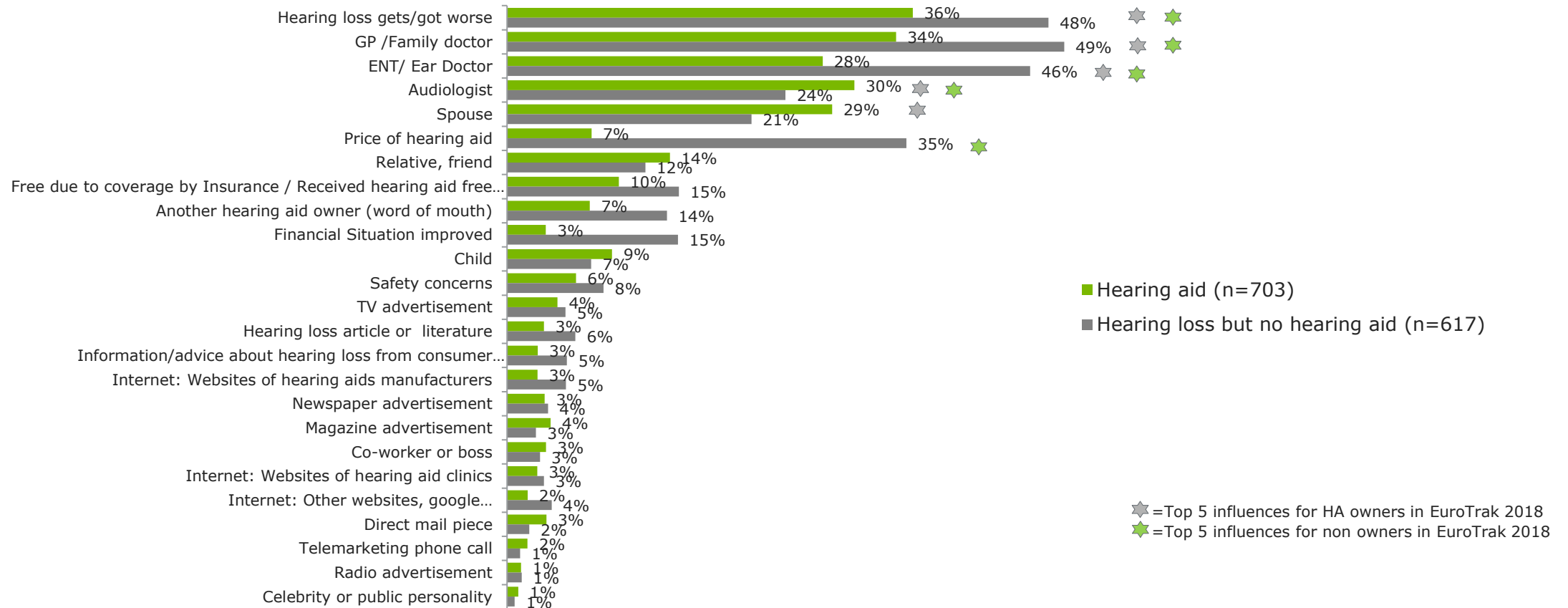
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## Most important triggers to buy

# The most important influencing factors for getting hearing aids are worsening hearing loss, GP, ENT, audiologists and spouse (+price for the non owners).

**Owner:** Thinking back to when you obtained your first hearing aid(s), what influenced you to obtain /purchase the hearing aid(s)?

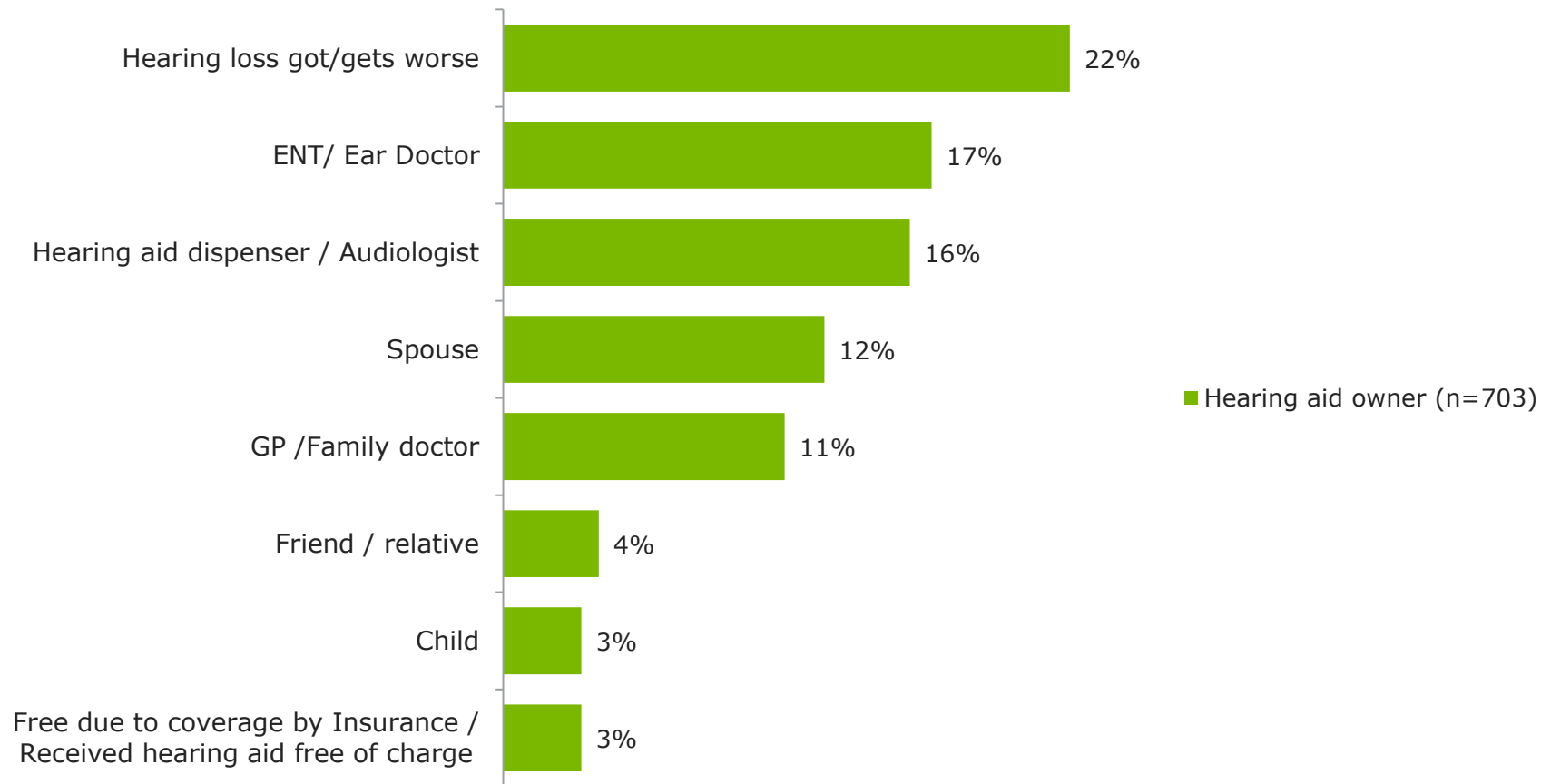
**Non-owner:** What do you think would influence you to obtain / purchase a hearing aid ?





# The most important trigger to buy a hearing aid is worsening hearing loss, followed by ENT, Audiologist and spouse.

What made you finally decide to get your actual hearing aid(s)?





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# Demographics (1) Hearing instrument adoption rates and populations

		Count	Hearing difficulty	Hearing aid adoption rate % (Base=Hearing impaired)	No hearing loss	Hearing loss but no hearing aids	Hearing aids
<b>Gender</b>					Profiles: Categories sum to 100%*		
	<b>Male</b>	7'694	9.2%	50.8%	49.5%	53.8%	49.7%
	<b>Female</b>	7'785	8.5%	54.9%	50.5%	46.2%	50.3%
<b>Age</b>							
	<b>1 - 14</b>	2'663	3.2%	73.3%	18.3%	3.5%	8.6%
	<b>15 - 24</b>	1'825	4.4%	45.7%	12.4%	6.7%	5.0%
	<b>25 - 34</b>	2'147	4.5%	41.8%	14.5%	8.6%	5.5%
	<b>35 - 44</b>	1'982	5.7%	32.2%	13.3%	11.8%	5.0%
	<b>45 - 54</b>	2'015	7.2%	38.8%	13.3%	13.7%	7.8%
	<b>55 - 64</b>	1'968	9.8%	43.4%	12.6%	16.9%	11.6%
	<b>65 - 74</b>	1'515	15.9%	56.1%	9.0%	16.4%	18.7%
	<b>74+</b>	1'364	30.6%	65.4%	6.7%	22.4%	37.8%
<b>Type of household</b>							
	<b>single household</b>	1'796	16.6%	56.4%	10.6%	20.1%	23.2%
	<b>Couple, no kids</b>	3'511	12.9%	58.5%	21.7%	29.1%	36.6%
	<b>Couple with kid(s)</b>	7'227	5.4%	44.4%	48.4%	33.7%	24.0%
	<b>Single mom/dad with kid(s)</b>	1'368	5.1%	37.4%	9.2%	6.7%	3.6%
	<b>Retirement home, hospital etc.</b>	192	33.3%	66.8%	0.9%	3.3%	5.9%
	<b>Other</b>	1'384	6.8%	51.0%	9.1%	7.1%	6.6%

# Demographics (2) Hearing instrument adoption rates and populations

	Count	Hearing difficulty	Hearing aid adoption rate % (Base=Hearing impaired)	No hearing loss	Hearingloss but no hearing aids	Hearing aids
<b>Status</b>	Profiles: Categories sum to 100%*					
The head of the household (alone or together with someone)	7'925	12.3%	52.5%	49.3%	71.6%	70.7%
The spouse of the head of the household	2'636	8.9%	59.0%	17.0%	15.0%	19.2%
Daughter/son of head of household	3'899	2.5%	41.1%	26.9%	8.8%	5.5%
Other person	1'019	6.2%	52.6%	6.8%	4.6%	4.6%
<b>Employment</b>						
Full time employed	5'517	6.2%	37.6%	45.5%	34.5%	19.6%
Part time employed	1'522	6.9%	43.6%	12.5%	9.6%	7.0%
Unemployed / not working	1'439	8.0%	36.9%	11.6%	11.8%	6.5%
Retired under a disability pension scheme (fully or partly)	474	20.5%	64.6%	3.3%	5.5%	9.5%
Early retired under an early retirement benefit scheme	583	13.1%	66.7%	4.5%	4.1%	7.7%
Retired (at the official retirement age)	2'272	23.0%	61.4%	15.4%	32.4%	48.6%
Student / pupil / in training	839	2.5%	33.8%	7.2%	2.2%	1.1%
<b>Education</b>						
Secondary/Grammar School	2'518	14.1%	53.4%	19.0%	26.6%	28.7%
^O^ Levels	1'720	12.4%	53.8%	13.3%	15.9%	17.5%
^A^ Levels	2'198	6.7%	42.3%	18.0%	13.7%	9.5%
Ordinary National Certificate	573	10.0%	54.5%	4.5%	4.2%	4.7%
Higher National Certificate	874	10.3%	48.2%	6.9%	7.5%	6.6%
Technical High School	657	13.2%	49.8%	5.0%	7.0%	6.6%
University	3'351	6.9%	53.0%	27.4%	17.5%	18.6%
Other	756	13.1%	52.2%	5.8%	7.6%	7.9%

# Sample size and random sample error: Rules of thumb

READ: At a sample size of  $n=500$  and a value of 15% we would expect the real value in an interval  $\pm 3.1$  around 15% - which means between 11.9% and 18.1% (Conservative assumption: 95% confidence level)

Sample size	Random sample error	
	Real value is within interval:	
	Level of proportion: 50%/50%	Level of proportion: 15%/85%
50	$\pm 13.9$	$\pm 9.9$
100	$\pm 9.8$	$\pm 7.0$
250	$\pm 6.2$	$\pm 4.4$
500	$\pm 4.4$	<b><math>\pm 3.1</math></b>
1'000	$\pm 3.1$	$\pm 2.2$
5'000	$\pm 1.4$	$\pm 1.0$
10'000	$\pm 1.0$	$\pm 0.7$