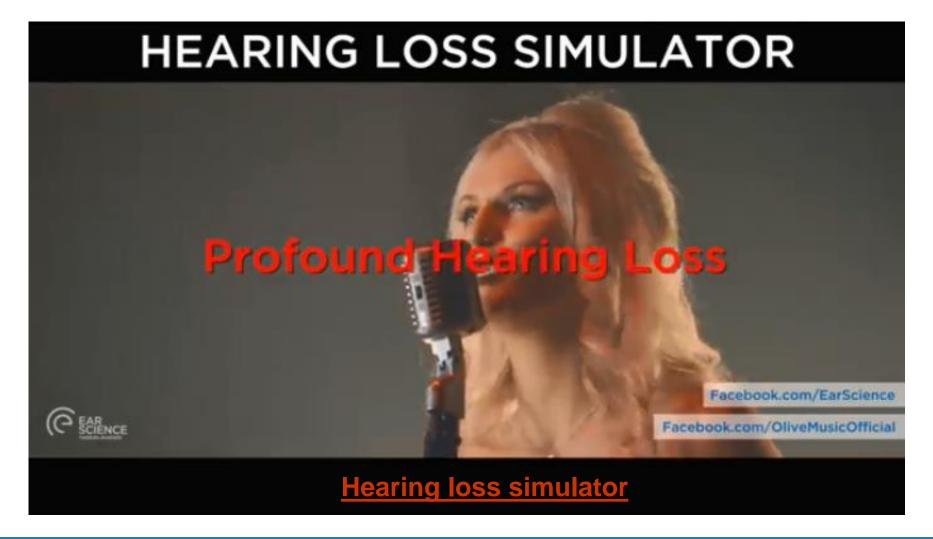
Hearing loss and role of ICTs WHO's initiative to Make Listening Safe through use of ICTs

> Dr Shelly Chadha Ms Elena Altieri



Hear the future



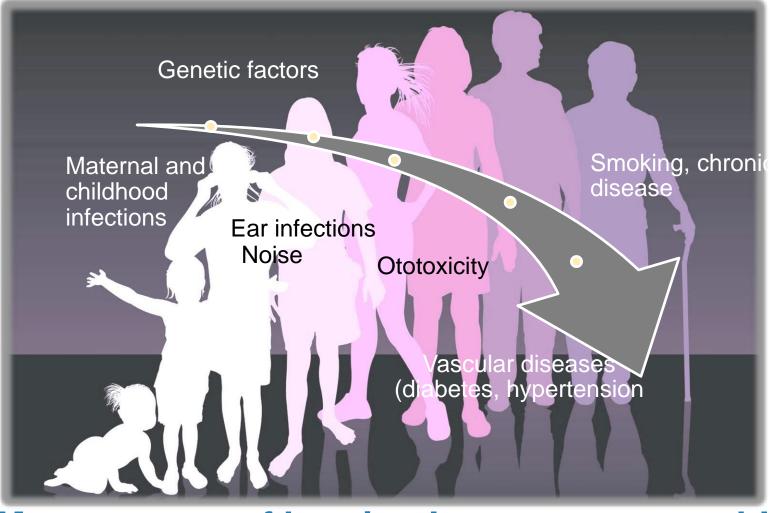








Causes of hearing loss across the lifespan



Many causes of hearing loss are preventable



Many risk factors are preventable

Ear infections

- Affects nearly 330 million people globally
- This can be avoided by early diagnosis and treatment

Ototoxic hearing loss

- Common ototoxic medications include:
 - Aminoglycosides
 - Chemotherapeutic agents
- They are powerful tools of medical care, but must be used wisely to prevent hearing damage.



Noise-induced hearing loss (NIHL)

Occupational

- The second most common risk factor in the workplace
- Some countries have implemented policy to prevent occupational NIHL
- Use of protective devices and regular audiological monitoring can reduce this risk



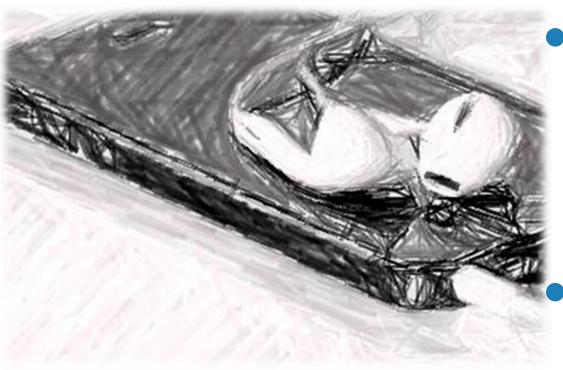


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Noise-induced hearing loss (NIHL)



Recreational

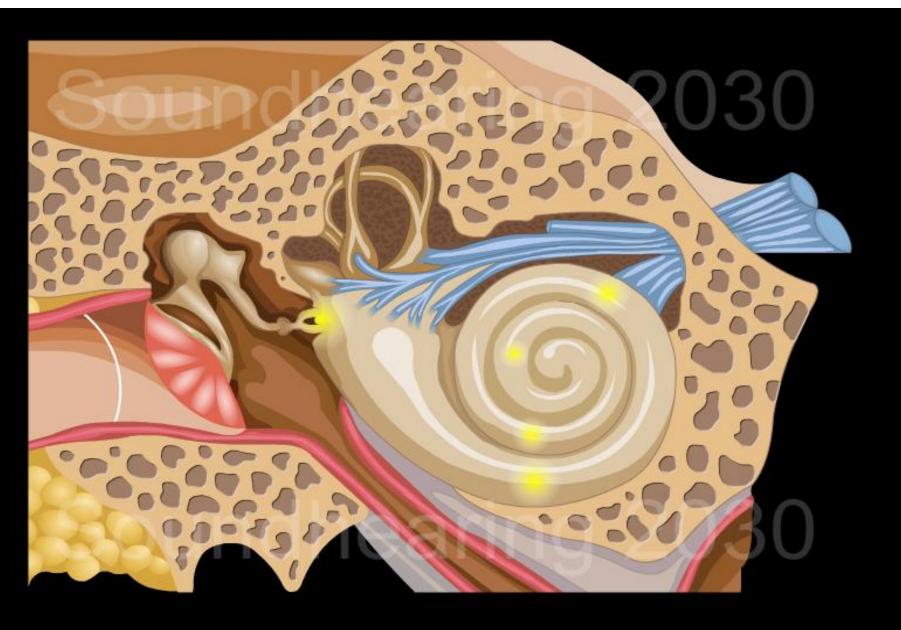
- Over a billion young people are at risk of hearing loss due to the way they listen to music:
 - on personal music players
 - In entertainment venues (concerts, sporting events, bars)

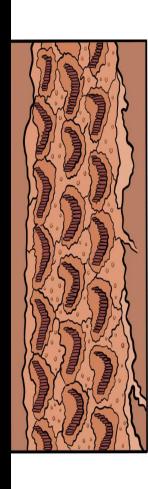
Increasing awareness and appropriate legislation can reduce this risk

Read more http://www.who.int/deafness/make-listening-safe/FAQs/en/



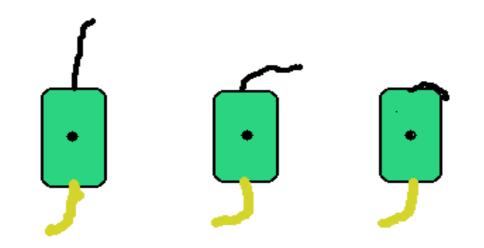
How do we hear sounds?

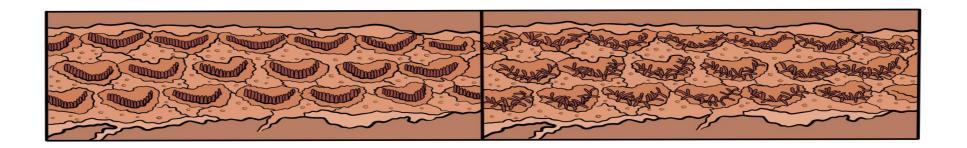




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Effect of loud sounds on our ears









Hearing loss due to loud sounds

Irreversible.....

.....but preventable through safe listening practices





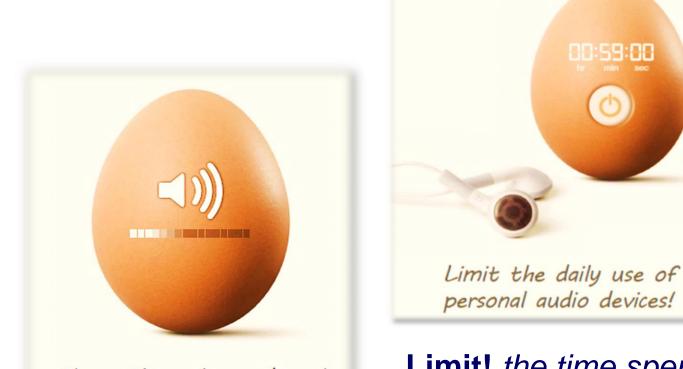


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Safe listening...?

00:59:00



Keep the volume down!

Reduce! the volume

Limit! the time spent listening



Use earplugs in noisy surroundings!

Protect! from noise



How much and for how long?

What makes that sound?	dB
Jet engine at take-off	130
Vuvuzela	
Rock concert	120
Chain saw	115
Bulldozer	110
Blow dryer	105
	100
Motorcycle	95
Lawn Mower	90
Traffic while inside a car	85
Alarm clock	80
Vaccum cleaner	75
Washing machine	70
Normal conversation	60
Moderate rainfall	50
Refrigerator	40
Whisper,	30
Watch ticking	20

	How long is it safe?
less t	han 1 second
	9 seconds
	28 seconds
	1.5 minute
	4 minutes
	15 minutes
	47 minutes
2 hou	rs 30 minutes
	8 hours
	unlimited

Volumes of 85dB heard for more than recommended 8-hour duration is harmful.



How much?



Keep the volume down!

- Keep below 60%
- Determine the comfortable listening level on your device in a quiet environment such that you can hear conversation around you while using the device.
- Use apps to assess your sound dose
- Use noise-cancelling earphones, in noisy surroundings.



How long?



- Monitor the sound levels with use of apps.
- Remain below the recommended time level.
- Or, limit listening time to 60-90 minutes



In noisy environment



Use earplugs in noisy surroundings!

- Limit the time and frequency
- Use earplugs
- Take small listening breaks.
- Move away from sound sources.



WHO's response



Make Listening Safe



World Health Organization

16 WSIS: Make Listening Safe 19 March 2018

Make Listening Safe: rationale



listen to unsafe levels of sound through personal audio devices (MP3 players, smartphones, and others)



are exposed to potentially damaging levels of sound at nightclubs, bars and sporting events

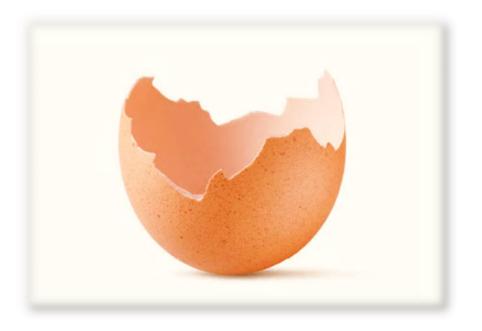


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Make Listening Safe: rationale

Irreversible..... but preventable through safe listening practices



- Technology (& ICTs) that are posing the challenge can become part of the solution by:
 - Reducing risk
 - **Raising awareness**



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Approach



Provide suitable products, regulations and apps to facilitate safe listening



3 strategic targets

Safe listening *personal audio systems*

Safe listening **behaviour**

Safe listening entertainment venues



Strategy 1: Safe listening personal audio systems

- Development and implementation of standards for safe listening.
- Development in collaboration with International Telecommunication Union and all stakeholders.



Standards pertain to personal audio systems including smartphones, MP3 players etc



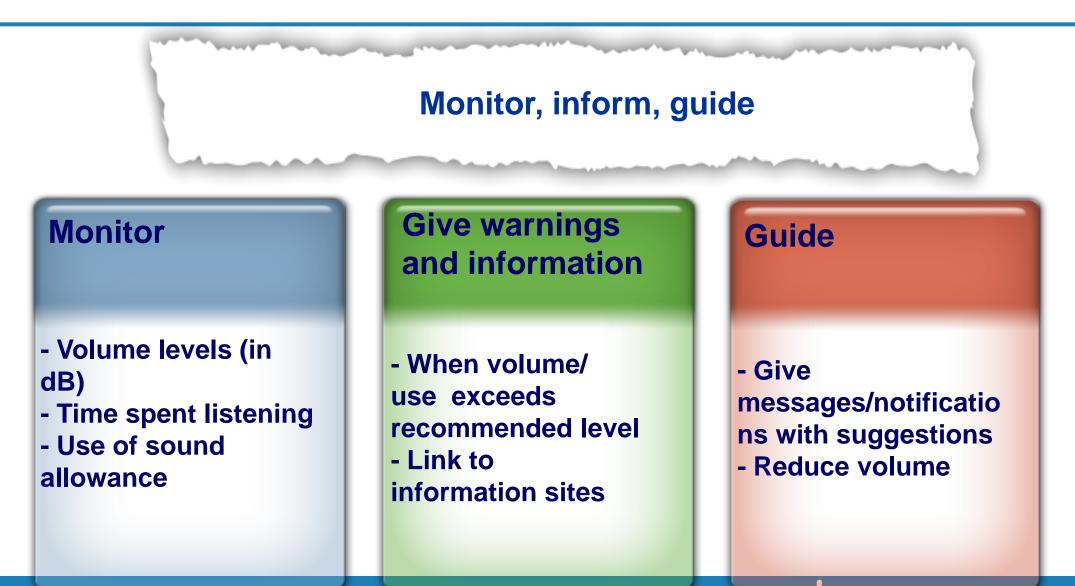
Global standards for safe listening devices

- Devices such as smartphones, MP3 players
- Make them a part of the solution
- Devices with
 - smart options,
 - monitoring of daily sound allowance,
 - information,
 - messages





Standards for safe listening devices





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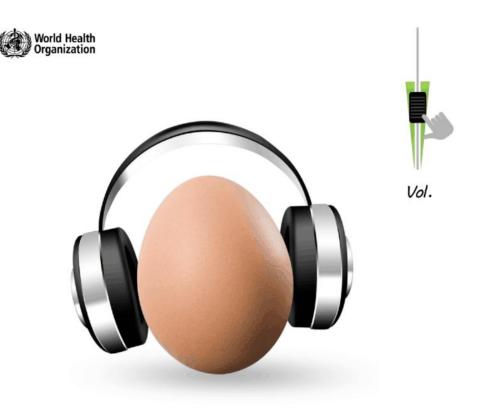
Strategy 2: Raise awareness

- Undertake a campaign for listening behaviour change.
- Working in collaboration with health communication experts.



Objective: To change listening behaviour, especially in the 'at-risk' population (12-35 years old)

Development of materials and social media campaigns #safelistening





Development of materials and social media campaigns #safelistening

How much sound can your ears safely take in a day?



MaLiSa





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Strategies: 3

- Regulatory framework for control of recreational sound exposure eg
 - Maximum limit
 - Earplug provision
 - Information
 - Quiet zones

Objective: Regulate exposure to loud sounds in the broader (recreational) environment.





WHO works in partnership



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Let us make noise to reduce noise!

Hear the future

....and Make Listening Safe!



chadhas@who.int