



Ear and hearing care

The global situation and WHO actions to address it







BILLION PEOPLE

LIVE WITH HEARING LOSS

THAT'S NEARLY 20% OF THE GLOBAL POPULATION!

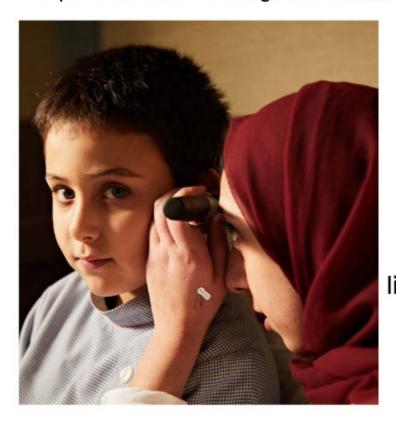


>430 MILLION PEOPLE

WITH DISABLING HEARING LOSS*

UNEQUAL DISTRIBUTION

The prevalence of hearing loss is unevenly distributed across the world...

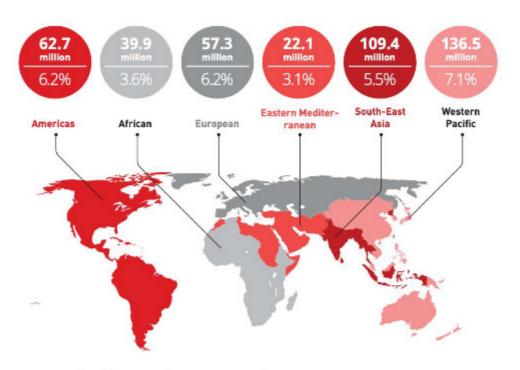


80%

OF PEOPLE WITH DISABLING HEARING LOSS

live in low- and middle-income countries where human resources and services to address this are commonly lacking.

The prevalence of hearing loss varies greatly across World Bank income groups worldwide, from 3.3% in low-income countries, to 7.5% in high-income countries.



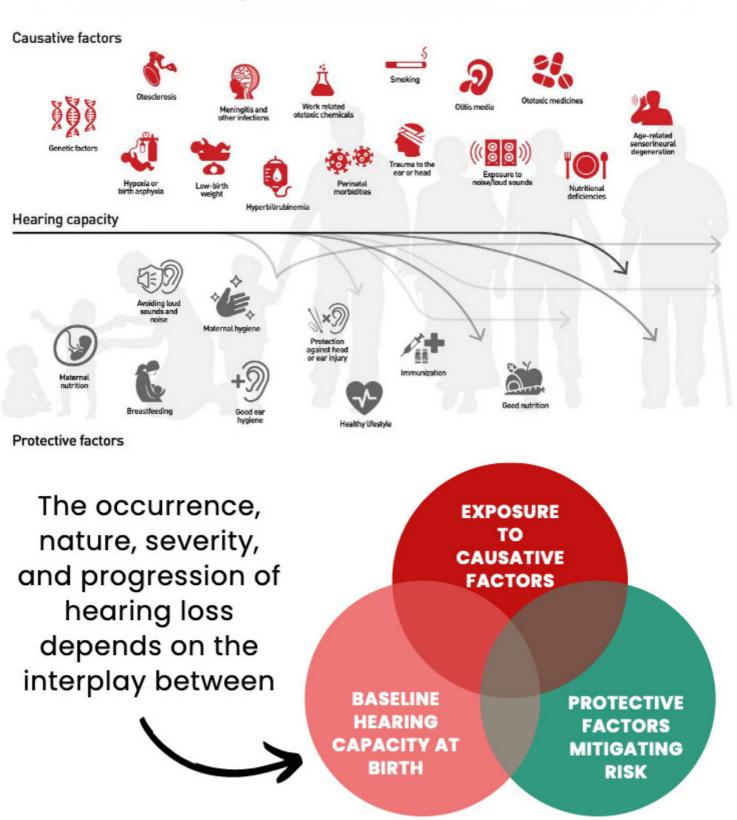
Prevalence of disabling hearing loss across WHO regions





WHAT CAUSES HEARING LOSS?

Different factors, many of which are preventable, affect hearing capacity across the life course



LET'S EXPLORE SOME KEY CAUSES...

CHILDHOOD HEARING LOSS

34 million children

have disabling hearing loss



These preventable causes include:



Ear infections: commonly presenting with recurrent or persistent ear discharge.



Intrauterine Infections: such as rubella or cytomegalovirus infection during pregnancy.



Ototoxic Medicines e.g. certain antibiotics like gentamicin, anti-malarial drugs like Quinine, certain anti-cancer medicines.



Injuries to the head/ear:

can cause a hearing loss depending on location and severity of injury.



Wax or a foreign body

Excessive amount of wax can accumulate and may cause hearing loss.



Birth asphyxia or hypoxia:

Lack of adequate oxygenation at birth.



Low birth weight of below 1,500 g due to premature birth or maternal undernutrition.



Loud sounds e.g. listening to loud music through headphones/earphones or in places such as discos; exposure to loud explosions or fireworks.

EAR INFECTIONS: OTITIS MEDIA

- One of the most common causes of hearing loss.
- Suppurative and nonsuppurative Otitis Media (OM) conditions cause inflammation of the middle ear.

OM is a **major concern** due to its high **incidence**, especially in children under 5 years.

DID YOU KNOW?

Annually, acute OM affects over 700 million people, mostly children under 5 years old.

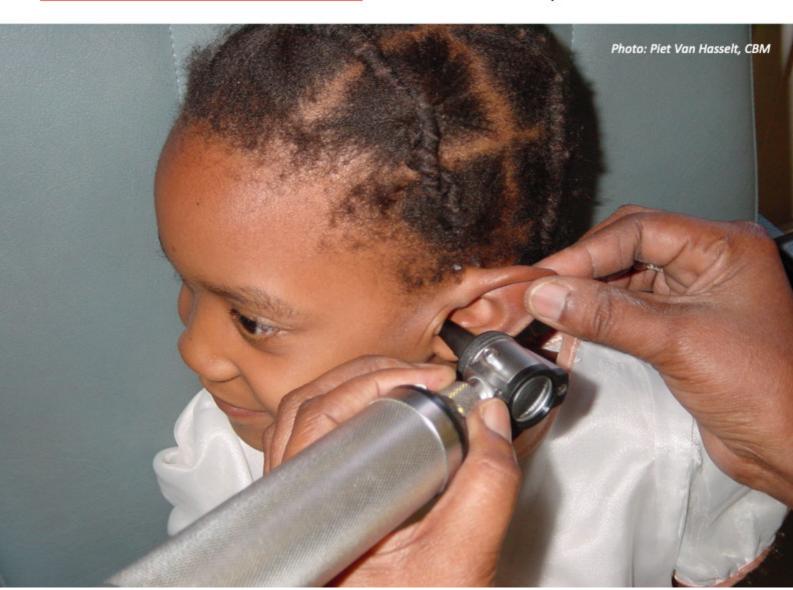
Untreated suppurative otitis media can, in some cases, cause life-threatening complications.

Each year, 21,000 people die due to OM complications:

- Meningitis
- Brain
- Mastoiditis

abscess

Good ear care can prevent
otitis media. Early
identification and treatment
(medical or surgical) are
crucial to avoid or reverse
hearing loss and avoid
complications.



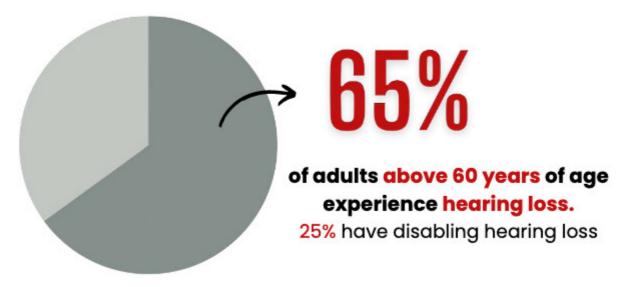




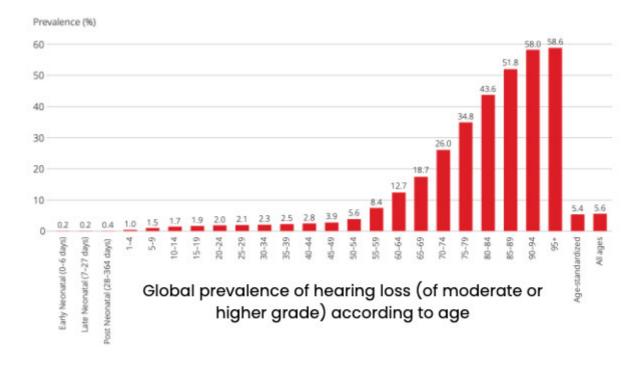
AGE - RELATED HEARING LOSS

also known as presbycusis

This involves age-related degenerative changes to the inner ear structure, causing progressive bilateral hearing loss.



Across all WHO regions, the **prevalence of hearing loss** increases exponentially with age.



Difficulties in communication due to hearing loss, especially in older adults, can significantly impact quality of life, and lead to social isolation, loneliness, and early onset of dementia.



HEARING LOSS

Over 1 Billion young people

are at risk of permanent hearing loss due to exposure to unsafe levels of sound in leisure

activities



Make Listening Safe









Noise - induced hearing loss is completely

PREVENTABLE



Occupational Settings

This is a concern in all countries.

In the United States of America. more than 30 million workers are exposed to hazardous noise

Environmental Factors

Includes noise from:

traffic

Maximum sound allowance

- · home appliances
- industrial activity/construction

Loud sounds cause irreversible damage

Prolonged or regular exposure to loud sounds puts children and adults at risk not only of hearing loss, but other noise-induced health problems, such as insomnia and cardiovascular illnesses.



sound intensity

duration

WHY SHOULD YOU CARE?

The prevalence of hearing loss is rising. Unaddressed hearing loss has adverse impacts on all areas of life, including:



SPEECH AND LANGUAGE

Delayed speech and language development. This hinders learning and communication.



COGNITION

Delayed cognitive development in children. Hearing loss is also the largest potentially modifiable risk factor for age-related dementia.



SOCIAL ISOLATION & MENTAL HEALTH

Social withdrawal or feelings like **embarrassment**. This leads to **social isolation**. Hearing loss is associated with higher rates of depression.



EDUCATION

Reduced school performance, greater risk of dropping out of school and lower likelihood of applying for higher education. Each year, nearly \$1 trillion are lost due to unaddressed hearing loss

World

HEALTH
313.6

All costs
979.6

INTANGIBLE
0 456.5

PUBLIC HEALTH IMPACT



ECONOMY

Hearing loss affects the social and economic development of countries. Financial costs arise from exclusion from communication, education, and employment.

PRODUCTIVITY 182.4

EDUCATION

26.8

Illiustration of the combined direct, indirect and intangible costs of unaddressed moderate or higher degrees of hearing loss (in billion dollars)



CASE STUDY

Patrick is a young man from a remote area of Uganda. Born deaf and with no schools for deaf children in his area, he spent most of his childhood without knowledge of sign language and thus without any communication. Most of Patrick's day was spent alone in his hut, isolated from the world. What impact do you think this could have on his mental health, integration into society, and education?

Sign language has had an important positive impact on the life of Patrick. When he was 15 years old, it was organised for Patrick to undertake his first sign language class. These classes transformed Patrick's life. Imagine what would have happened if this was not organized?

[Source: BBC Channel 4, Unreported World]

HOW CAN WE TACKLE HEARING LOSS?

PREVENTION

Many causes of hearing loss are preventable through public health measures, including:

- · Immunization;
- Effective antenatal and prenatal care:
- Avoiding the use of ototoxic medicines, unless prescribed by a qualified physician and properly monitored;
- · Healthy ear and hearing care habits;
- Effective treatment for both acute and chronic ear conditions;
- Reducing exposure (both occupational and recreational) to loud sounds and noise.

EARLY IDENTIFICATION

Early identification of hearing loss when followed by timely and appropriate interventions can limit the adverse impacts. Implementing systematic universal hearing screening for newborn babies, children, older adults and others at high risk can facilitate early identification.



Once hearing loss has occurred, a range of interventions are available to maximize functioning and inclusion:

- Hearing devices, such as hearing aids, cochlear implants, and other assistive technologies;
- Development of lip-reading skills, sign language, and use of captioning.



CASE STUDY

One night while Paolo (name changed) was sleeping in his mother's arms, his father picked up a brass bell and shook it continuously. Paolo did not budge. That's when his parents' knew something was not right. The next week a specialist at the children's hospital diagnosed Paolo's severe-to-profound bilateral hearing loss.

Paolo was enrolled in a programme where he is learning to listen and speak. He received his first pair of hearing aids; and started walking: all by the time he was 10 months old. The curious little boy loved to listen and spent hours with his big sister, colouring and talking. Paolo was integrated into mainstream school and graduated as an honour student. He is now in his third year of a mechanical engineering programme. Paolo is an inspiration to all who have met him and he is proud to say that he continues to overcome any challenge set before him.

[Source: Anita Bernstein, M.Sc., LSLS, Canada]

INEQUALITIES PERSIST: AN UNMET NEED



KEY CHALLENGES MUST BE ADDRESSED

olicies for ear and hearing care are lacking in most countries

eople i.e. human resources including specialists and trained non-specialists are unavailable and unequally distributed

erceptions related to ear and hearing problem are often inaccurate and result from a stigmatizing mindset

roducts and services for ear and hearing care remain inaccessible and are not integrated within the health care systems



"To work with Member States and collaborators to make ear and hearing care accessible for all, as part of universal health coverage and through integration into primary health care"

- Maintain a global database to identify and share the size and impact of the problem.
- Guide, assist, and support Member States to develop suitable programmes for ear and hearing care, integrated into the primary health care system of the country.
- Provide evidence-based technical resources/tools and guidance for integrating ear and hearing care, and training health workforce
- Develop and disseminate guidelines to address the major preventable causes of hearing loss.
- 5. Raise awareness about hearing loss and its causes, including prevention, identification, and management.



TECHNICAL RESOURCES

for the planning, integration and monitoring, of ear and hearing care



hearWHO app

check your hearing!



Download the app



the hearWHO app is a free WHO application, based on validated digits-in-noise technology.

Available in
Chinese
Dutch
English
Russian
Spanish
on iOS and Android
platforms

Also available as **hearWHOpro** for use by health workers to check the hearing of people in the community.

WORLD HEARING DAY

3 MARCH

Each year, WHO develops a theme and evidence-based **advocacy materials** to share with collaborators across the world.

AIM: To raise awareness on hearing loss and promote ear and hearing care across the world.











Advocacy and awareness materials are translated into multiple languages and used to raise awareness on the subject by organizing activities and events. Scan to learn more.





MAKE LISTENING SAFE



Make Listening Safe

The "Make listening safe" initiative aims to prevent noise - induced hearing loss.

Its goal is to realize a world where people of all ages can enjoy recreational listening without risk to their hearing through:

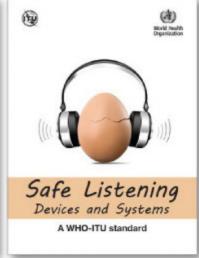
- Creating evidence-based standards.
- · Raising awareness.
- Investing in research.

SAFE LISTENING STANDARDS & AWARENESS RESOURCES









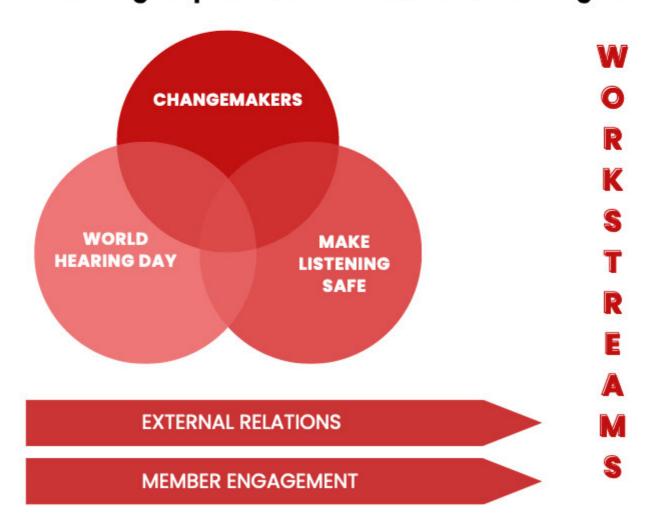
Access awareness resources: infographis, flyers, videos, social media materials & details of global standards.

Visit: https://www.who.int/activities/making-listening-safe



WORLD HEARING DAY

A WHO-hosted global network of stakeholders advocating for prioritization of ear and hearing care



WHO CAN JOIN?

Governmental and nongovernmental organizations; including disabled people's organizations/user groups, charitable/service organizations, professional societies, parent groups, regional fora, private sector entities including international business

associations, philanthropic foundations and academic institutions can apply for membership of the Forum.

Find out more:

https://www.who.int/activities/promoting-world-hearing-forum

SCAN HERE



The Forum envisions
a world in which no person experiences
hearing loss due to preventable causes
and those with hearing loss can achieve
their full potential through early
identification and appropriate
management of their condition.

