



- International programme for individuals with an intellectual disability:
 - · organizes athletic competitions
 - · improve health and fitness



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Special Olympics

Healthy Athletes

Objectives:

To improve, through better health and fitness,

- each athlete's ability to train and compete in SO
 To improve access and health care for people with
- To improve access and health care for people with ID
- To train and educate health care professionals and students about the special needs of, the care for, and how to communicate with people with ID

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Special Olympics **Healthy Hearing** Objectives Screeners = volunteers: professionals students in health care

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- audiologists, ENT-specialists, SLP, ...
- \rightarrow trained to use a strict screening protocol

PREVALENCE DATA

- Special Olympics Europe Eurasia (SOEE):
 - > 15.363 athletes with ID
 - > 8 89 years
- Literature (ID)
- General population (project AUAS):
 - > 1.000 non-professional athletes
 - > matched in age and sex to SO-athletes
 - > 50 screening protocol

Ethics Committee University of Ghent: EC 115-2017/mf; EC 2016/0461; EC 2016/0988; EC 2016/0989

OTOSCOPY



den Houdijker-Schakel et al., 2009; Crandell & Roeser, 1993

40.3%

28-42% 11.0%

Foreign objects in ear canal Balbridge & Andrasik, 2010

OTOACOUSTIC EMISSIONS

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TYMPANOMETRY

Middle ear problems

	Prevalence middle ear problems
Special Olympics	30.1%
Literature ID	40%
General population	7.2%

Browning & Gatehouse, 1992; Daly, 1991; Hannula et al., 2012; WHO, 2004

PURE TONE AUDIOMETRY



Prevalence hearing loss 27% 36% 11.7%

Davis 1989; De Bal 1998; D'Hooghe & De Leenheer 2009; Meuwese-Jongejeugd et al. 2006; Quaranta et al. 1996; Wilson et al. 1999

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Hearing loss

- Hearing loss (un)known:
 - > 1 out of 5 athletes can NOT estimate their hearing correctly
- Permanent hearing loss and hearing aids:
 - 2% of athletes have hearing aids
 - = 12% of athletes that are eligible for hearing
 - → only 37% wears their hearing aids (frequent: blocked ear moulds, flat batteries, technical malfunction, ...)



CHECK-OUT

- Quality check
- Follow-up recommendations
- General advice



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	EFAS Vopean Federation ng Group Audiolog		
AUDIOLOGICAL CARE	PERSON WITH ID IN GENERAL	PERSON WITH DOWN SYNDROME	PERSON WITH ELIGIBLE FO HEARING DEV
EARWAX REMOVAL	Annual	2x/ year	2x/ year
HEARING SCREENING	Neonatal Hearing Screening	Neonatal Hearing screening	
	Annual screening < age 6		
	Every 3 years from age 6 to 18	Every 2 years from age 6 to 18	
	Every 5 years from age 18 to 50	Every 3 years from age 18 and 35	
	Every 3 years > age 50		
	Annually if 8h/ day noise exposure (>75dBA)		

General referral Special Olympics General population

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CONCLUSIONS

Ear and hearing problems in people with ID:

- more common than in general population
- most unknown / underestimated
- influence on QoL: sports and daily life
- influence direct environement



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CONCLUSIONS

Prevalence general referral

58.7% 22.8%

People with ID can be tested IF:

- see the abilities (not disabilities)
- communication
- adapted test methods
- take time they need/deserve
- train health care students and professionals

• hearing (and vestibular) screening well accepted by people with ID



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- SO HH programme = first step, but only for SO athletes + only screening
- Community based regular universal hearing
- Structured follow-up (adapted assessment, treatment and guidance)
- Prevention







WORLD SUMMER GAMES 2023 **BERLIN**



