



# EARLY DETECTION OF HEARING LOSS (0-18 YEARS) UPDATE OF A GUIDELINE FOR DUTCH YOUTH HEALTH CARE

Jacqueline Deurloo<sup>1</sup>  
Caren Lanting<sup>1</sup>  
Karin Wiefferink<sup>2</sup>  
Noëlle Uilenburg<sup>2</sup>

1: TNO Child Health

2: Dutch Foundation for the Deaf and Hard of Hearing Child

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## GUIDELINES IN YOUTH HEALTH CARE

- › Currently: 29 guidelines for YHC
  - › Open webbased publication
  - › For example:
    - › Visual problems
    - › Obesity
    - › Child abuse
  - › Development financed by the government
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- › TNO is one of the developers of YHC guidelines in the Netherlands
  - › Cooperation with Dutch Foundation for the Deaf and Hard of Hearing Child for expertise



# PROCEDURE GUIDELINE DEVELOPMENT

1. Analysis of questions and problems experienced by professionals
2. Call and selection developer
  - a) Working group of relevant professionals
  - b) Developing contents based on
    - › Available knowledge
    - › Literature search (specific questions)
    - › Consensus and experience
  - c) Draft is tested in pilot study
  - d) Final version of guideline
3. Authorisation by professional organisations
4. Implementation

# WEBBASED GUIDELINE

Google Drive  
<https://drive.google.com/drive/#my-drive>

HOME INLOGGEN  ZOEKEN

**Centrum**  
**JGZ**  
 Jeugdgezondheid

VERNIEUWEN, VERBINDEN, VERSTERKEN

OVER NJG THEMADOSSIERS PRODUCTEN & DIENSTEN ACTUEEL CONTACT

## RICHTLIJNEN

ALLE RICHTLIJNEN

IMPLEMENTATIE RICHTLIJNEN IN DE JGZ

VOORTGANG EN PLANNING  
 RICHTLIJNEN IN ONTWIKKELING

RAC

» Home » Richtlijnen » Alle richtlijnen

## Alle richtlijnen

- » Aanmelden Praktijktest Heupdysplasie (DDH)
- » ADHD (2015)
- » Angst (2016)
- » Astma bij kinderen (2011)
- » Autismespectrumstoornissen (2015)
- » Begeleiding gezin bij overlijden kind (2009)
- » Borstvoeding (2015, multidisciplinair)
- » Depressie (2016)
- » Excessief huilen (2013, multidisciplinair)
- » Gezonde slaap en slaapproblemen bij kinderen (2017)
- » Hartafwijkingen (2017)
- » Huidafwijkingen (2013)

*Als professional kun je ook te maken krijgen met richtlijnen buiten de JGZ. Neem daarvoor een kijkje in de databanken van andere partijen in de sociale en medische jeugdsector:*

- » Richtlijndatabank bij het Nederlands Jeugdinstituut (NJI)
- » Nederlandse Vereniging voor Kindergeneeskunde (NVK)
- » Nederlands Huisartsen Genootschap (NHG)

Contactpersoon

## EXISTING GUIDELINE (1998)

- › Universal newborn hearing screening nationwide since 2006
- › Moderate use and knowledge of guideline in YHC professionals
- › New needs YHC professionals
  
- › Methods for updating guideline
  - › Full review ←
  - › Selective update based on new evidence
  - › Living guideline, updated every year

# NEW GUIDELINE

- › Hearing and hearing loss
- › Early detection of hearing loss
  - › 0-4 years
  - › 4-19 years
- › Prevention of noise induced hearing loss

## WHAT?



# EARLY DETECTION, 0-4 YEARS

- › Risk factors, for instance:
  - › Positive family history
  - › Congenital infection
  - › Craniofacial dysmorphism
  - › Use of ototoxic medication
- › Developmental aspects and behavior, for instance:
  - › Impaired development of speech
  - › Developmental delay
  - › Behavioural problems

## EARLY DETECTION, 4-19 YEARS

- › Audiogram (descending method; 500, 1000, 2000, 4000 Hz)
  - › All children 4-6 years old
  - › If indicated (if there are complaints or concerns)





# CRITERIA FOR FOLLOW UP

		Rechts																					
		25 dB verlies				30 dB verlies				35 dB verlies				40 dB verlies				>40 dB verlies					
		1x	2x	3x	4x	1x	2x	3x	4x	1x	2x	3x	4x	1x	2x	3x	4x	1x	2x	3x	4x		
Links	25 dB verlies	1x	v	v	v	v	v	v	v	v	t	t	o	o	t	o	o	o	o	o	o	o	
		2x	v	v	v	v	v	v	v	v	t	t	o	o	t	o	o	o	o	o	o	o	o
		3x	v	v	v	v	v	v	v	v	t	t	o	o	t	o	o	o	o	o	o	o	o
		4x	v	v	v	v	v	v	v	v	t	t	o	o	t	o	o	o	o	o	o	o	o
	30 dB verlies	1x	v	v	v	v	v	v	v	v	t	t	o	o	t	o	o	o	o	o	o	o	o
		2x	v	v	v	v	v	v	v	v	t	t	o	o	t	o	o	o	o	o	o	o	o
		3x	v	v	v	v	v	v	v	v	t	t	o	o	t	o	o	o	o	o	o	o	o
		4x	v	v	v	v	v	v	v	v	t	t	o	o	t	o	o	o	o	o	o	o	o
	35 dB verlies	1x	t	t	t	t	t	t	t	t	t	t	o	o	t	o	o	o	o	o	o	o	o
		2x	t	t	t	t	t	t	t	t	t	t	o	o	t	o	o	o	o	o	o	o	o
		3x	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
		4x	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
	40 dB verlies	1x	t	t	t	t	t	t	t	t	t	t	o	o	t	o	o	o	o	o	o	o	o
		2x	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
		3x	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
		4x	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
	> 40 dB verlies	1x	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
		2x	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
		3x	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
		4x	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o

# PREVENTION OF NOISE INDUCED HEARING LOSS

- › Universal preventive interventions: limited evidence of moderate quality
  - › Not recommended
- › Evaluation of exposure to noise (questionnaire)
- › Identify risk groups for targeted interventions
- › Description of available interventions



## NEW GUIDELINE (2016)

- › Published online: [www.jgzrichtlijnen.nl](http://www.jgzrichtlijnen.nl)
- › National implementation by Dutch Centre for Youth Health Care



# THANK YOU FOR YOUR ATTENTION



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Jacqueline.deurloo@tno.nl