



Universiteit
Leiden
The Netherlands

Clinical challenges of vestibular schwannoma

Kleijwegt, M.C.

Citation

Kleijwegt, M. C. (2023, December 14). *Clinical challenges of vestibular schwannoma*. Retrieved from <https://hdl.handle.net/1887/3673475>

Version: Publisher's Version

[Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

License: <https://hdl.handle.net/1887/3673475>

Note: To cite this publication please use the final published version (if applicable).

Clinical challenges of vestibular schwannoma

Maarten Kleijwegt

Clinical challenges of vestibular schwannoma

Proefschrift

ter verkrijging van
de graad van doctor aan de Universiteit Leiden,
op gezag van rector magnificus prof.dr.ir. H. Bijl,
volgens besluit van het college voor promoties
te verdedigen op donderdag 14 december 2023
klokke 16.15 uur

door

Maarten Cornelis Kleijwegt

© M.C. Kleijwegt

Cover design: MLP Kleijwegt-van der Hoorn

Lay-out: Ilse Modder | www.ilsemmodder.nl

Printed by: Gildeprint Enschede | www.gildeprint.nl

ISBN: 978-94-6419-991-8

Financial support for printing this thesis was received from: KNOKL.bv

All rights reserved. No part of this publication may be reproduced in any form without permission of the author. The copyright of the published articles has been transferred to the respective journals of the publishers.

geboren te Velsen
in 1982

Promotores: Prof. dr. M.J.A. Malessy

Co-promotor: Dr. A.G.L. van der Mey

Promotiecommissie:
Dr. R.H. Free (UMCG)
Dr. E.H. Hensen
Prof. dr. J.C. Jansen
Prof. dr. H.P.M. Kunst (Radboudumc)
Prof. P.P.G. van Benthem
Dr. R.W. Koot

TABLE OF CONTENTS

Chapter 1	Introduction and outline of the thesis	11
Chapter 2	Incidence and treatment trends of vestibular schwannoma in the Netherlands	25
Chapter 3	Perfusion magnetic resonance imaging provides additional information as compared to anatomical imaging for decision-making in vestibular schwannoma	43
Chapter 4	Clinical predictors leading to change of initial conservative treatment of 836 vestibular schwannomas	61
Chapter 5	The Combined TL-RS Approach: Advantages and Disadvantages of Working 360 Degrees around the Sigmoid Sinus	77
Chapter 6	Reestablishment of facial nerve function using hypoglossal-facial anastomosis: clinical outcomes and evaluation of segmented facial performance	95
Chapter 7	General discussion and conclusion	109
Chapter 8	Nederlandse samenvatting	121
Appendices	List of publications	130
	Curriculum vitae	133
	Dankwoord	135