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Precurved Versus Straight Arrays for Hearing Preservation in Cochlear Implantation: A Systematic Review and Meta-Analyses

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ADMINISTRATIVE INFORMATION

Support - n/a.

Review Stage at time of this submission - Completed but not published.

Conflicts of interest - None declared.

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Amendments - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 17 April 2025 and was last updated on 17 April 2025.

INTRODUCTION

Review question / Objective Determine which electrode type has better hearing preservation.

Condition being studied Sensorineural hearing loss (SNHL).

METHODS

Participant or population Patients with SNH.

Intervention n/a.

Comparator cochlear implant.

Study designs to be included Case Series, Cohort, Randomized Controlled Trials, Cross-sectional.

Eligibility criteria Reporting HP rate by electrode type.

Information sources Pubmed, Scopus, EMBASE, Web of Science.

Main outcome(s) HP rate based on PTA / LFPTA values.

Quality assessment / Risk of bias analysis JBI.

Strategy of data synthesis HP Rate by electrode array type.

Subgroup analysis Length of Follow Up, Manufacturer.

Sensitivity analysis Not reported.

Country(ies) involved USA.

Keywords electrode array; hearing preservation; cochlear implant.

Contributions of each author

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