





ثبكة المعلومات الجامعية





جامعة عين شمس

التوثيق الالكتروني والميكروفيلم



نقسم بللله العظيم أن المادة التي تم توثيقها وتسجيلها علي هذه الأفلام قد اعدت دون آية تغيرات



يجب أن

تحفظ هذه الأفلام بعيداً عن الغبار

في درجة حرارة من 15-20 مئوية ورطوبة نسبية من 20-40 %

To be kept away from dust in dry cool place of 15-25c and relative humidity 20-40 %



ثبكة المعلومات الجامعية







AUDIOLOGICAL FACTORS IN THE IMPLEMENTATION AND USE OF SIGNAL PROCESSING HEARING AIDS

Thesis
Submitted for partial fulfillment for
Master Degree In Audiology

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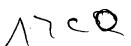
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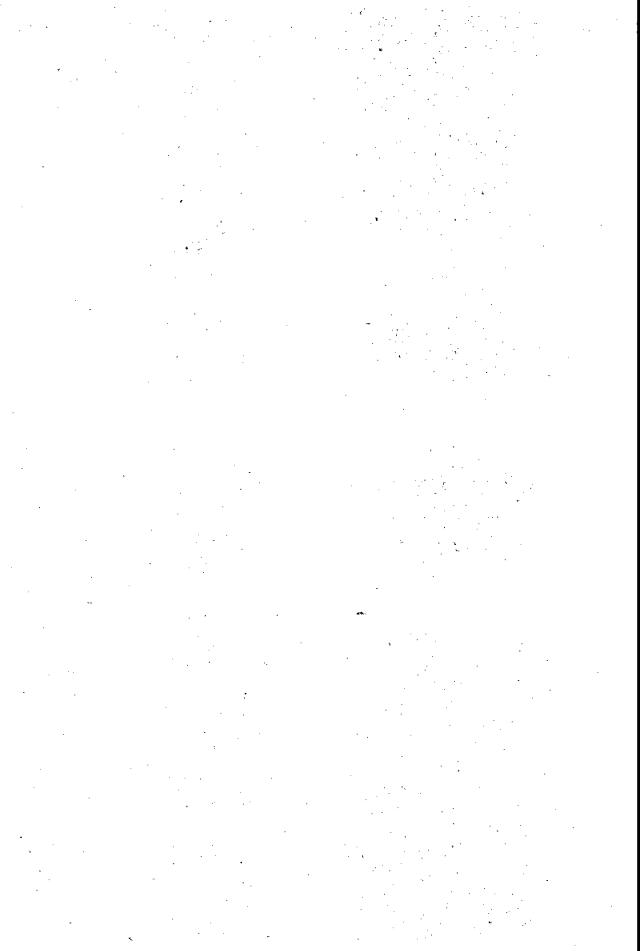


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Abstract

This study was done on 41 patients with bilateral sensorineural hearing loss. The New group, 20 patients who are candidate for hearing aid use for the first time, while the Expert group is another 20 patients had their hearing aids for at least one year. Both groups were matched in age, gender, unaided and aided free field pure tone thresholds with either analog or digital hearing aid. There was no significant difference between the two groups in free field speech test with each hearing aid. As regards the speech discrimination scores in noise, the digital hearing aid performance was higher than the analog one and the rule was applicable for both groups. The subjective feeling of sound quality and clearness was not significant between the two groups but was significant between the two hearing aids in each group. A single case of auditory neuropathy though did not show significant increase in discrimination score with digital hearing aid, yet she insisted on better hearing quality.

Key words: Hearing aid - Digital - Conventional - Analog



Dedication

To.....

My parents,

My Family

And my wife

ACKNOWLEDGMENT

First and foremost, all thanks to God, the most merciful and who is behind all success.

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