Hearing Profile in Patients with chronic hemolytic anemias

(thalassemia and sickle cell anemia)

Thesis

submitted in partial Fulfilment for
The Master Degree in Audiology

Presented by

Hussein Mohammed El Henidy

supervised by

Dr. Somia Tawfik
Assistant Professor of Audiology
E.N.T department
Ain Shams University Hospitals

Dr. Nagwa Hazzaa
lecturer of Audiology
E.N.T Department
Ain Shams University Hospitals

Dr. Manal Hamdy El Sayed
Lecturer of Pediatrics
Ain Shams University Hospitals

1996

بسم الله الرحمن الرحيم

Central Library - Ain Shams University

بسم الله الرحمن الرحيم

« جامعة عين شمس »
الكليـة : كلية الطب
رسـالة ماجسـتير
أسم الطالـب : حسـين محمـد الهنيـدى
عنـوان الرسـالة : صورة السمع فى الأنيميا المزمنه المحلله للدم (أنيميا البحر الأبيض المتوسط وأنيميا الخلايا المنجليه)

أسم الدرجـة : ماجستير
لجنـة الاشـراف

١ - الاسم : سميه توفيق ٢ - الوظيفة : أستاذ مساعد سمعيات
١ - الاسم : نجوى هزاع ٢ - الوظيفة : مدرس سمعيات
١ - الاسم : منال حمدى السيد ٢ - الوظيفة : مدرس أطفال

تاريخ البحث : / / ١٩
الدراسـات العلـيا
ختم الاجـازة أجيزت الرسـالة بتـاريخ / / ١٩
موافقة مجلس الكلية موافقة مجلس الجامعة
/ / ١٩ / / ١٩

Acknowledgement

I would like to express many deepest gratitude to professor *Dr. Salah Soliman,* the father of audiology all over the middle east , for giving me the opportunity to be one of his students.

I wish to thank *Dr. Nadia Kamal*, professor of Audiology and Head of Audiology Unit, E.N.T Departement, Ain Shams University for her encourgement.

I wish to express my sincere thanks to *Dr. Somia Tawfik*, Assistant professor of Audiology, Ain Shams University for her helpful guidance and constant help.

Also, I want to express may thanks to *Dr . Nagwa Hazzaa*, Lecturer of Audiology, Ain Shams University for her guidance and cooperation .

I am also thankful to *Dr. Manal Hamdy El Sayed* , lecturer of Pediatrics, Ain Shams University .

Thanks to all the members in the Audiology Unit and Pediatric Department Ain Shams University for their greet help .

Finally, May acknowledgement goes to my wife *Dr. Mai Abd El Salam Al Kholi* for encouregement and help .

ABSTRACT

Hussein Mohammed El Henidy. Hearing Profile in Patients with chronic hemolytic anemias. (thalassemia and sickle cell anemia) Thesis submitted in partial Fulfilment for The Master Degree in Audiology Ain Shams University .1996.

56Egyptian Patients with chronic hemolytic anemia (45 β- thalassemia major and 11 sickle cell anemia) were examined and compard with 20 age and sex matched controls . The patients were on transfusion therapy and oral iron chelation in the form of SHAM Capsules . The subjects were examined by basic audiological evaluation (puretone audiometry , Speech audiometry and Immittancemetry) , Extended high frequency and Auditory Brainstem Audiometry . The group of β - thalassemia major patients revealed conductive hearing loss in 10 ears out of 90 ears (11.1%) and SNHL in 7 ears out of 90 ears (7.8 %) . None of the β- thalassemia major subjects with normal hearing in conventional audiometry showed an abnormal response in extended high frequency testing . All β- thalassemia major patients had normal auditory Brainstem Pathway . ALL sickle cell anemia Patients revealed no abnormality in conventional audiometry ,Extended high frequency response and auditory Brainstem Pathway.

CONTENT

List of Tables and

Page