

شبكة المعلومات الجامعية







شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

## جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

## قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها على هذه الأفلام قد أعدت دون أية تغيرات



يجب أن

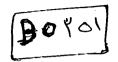
تحفظ هذه الأفلام بعيدا عن الغبار في درجة حرارة من ١٥-٥٠ مئوية ورطوبة نسبية من ٢٠-٠٠% To be Kept away from Dust in Dry Cool place of 15-25- c and relative humidity 20-40%



# بعض الوثائـــق الإصليــة تالفــة



# بالرسالة صفحات لم ترد بالإصل



## A STUDY OF THE VERTICAL TRANSMISSION OF HEPATITIS C INFECTION IN AN URBAN AREA OF EGYPT

Thesis Submitted for Fulfillment of Ph.D in Childhood Studies

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## مِسم الله الرحمن الرحيم

## قَالُواْ سَبِطَانِكَ لَا عِلَى لَنَا ۚ إِلَّا مَا غَلَمُنَنَا ۗ إِنَّا عَلَمُنَنَا ۗ إِنَّا عَلَمُ نَنَا ۗ إِنَّا أنذ أأعلى الدكين

حدق الله العظيم سورة البقرة الآية ٣٢

## **pedication**



To My Family Especially My Father, Mother and My Sisters.

To My Dear Husband.

To My Beloved Son Amr.

To Whoever Helped Getting This Work Done.

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# A Study of the Vertical Transmission of Hepatitis C Virus in an Urban Area of Egypt By: Amal Ibrahim Mohamed El-Shafie

#### **Abstract**

HCV is highly prevalent in Egypt. This study aims at addressing the question of mother to infant transmission of HCV. This study was a prospective case – control study done on 425 healthy pregnant ladies in labour whose age range from (17-46 years) who were attending the gynecology and obestric hospital Ain Shams University and Nasr City Health Insurance Hospital.

Sera from 425 health mothers were collected at delivery and tested for HCV-antibodies by 2<sup>nd</sup>-generation ELISA and positive reactions were confirmed by RIBA.2, HCV-RNA for 40 HCV-Ab +ve and 66 HCV-Ab –ve mothers.

Qualitative by RT-PCR, quantitative by Taq-Man-PCR, Genotype by sequence analysis. Also, sera were obtained from 25 babies of HCV-RNA +ve mothers and (12 babies) of HCV – RNA –ve mothers at birth and for 21 of these babies at 6 months and 12 month they are all tested for HCV-Ab and HCV-RNA at birth, 6m. and 12m. Out of 425 mothers 44 ladies were HCV-Ab +ve (10.4%), 38/40 (95%) of HCV – Ab +ve ladies had detectable HCV – RNA, 31/35 (88.57%) had genotype 4a.

HCV-Ab was positive in at birth 42/44 (95.4%) at 6 month 10/21 (47.6%), at 12m 12/21 (57.1%).

HCV-RNA was detected in at birth 4/25 (16%), at 6m. 5/21 (23.8%), at 12m. 6/21 (28.6%).

HCV-Ab and HCV-RNA were -ve at birth, 6m. 12m. for all babies of HCV-RNA -ve mothers.

Maternal age, parity, mode of delivery, history of blood transfusion and viral load as well as infant's sex, birth weight, circumcision and type of feeding when taken singly had no significant effect on transmission. Thus there is high rate of mothers to infant transmission of HCV in Egypt.

#### Key words:

Hepatitis C virus RIBA 2 PCR HCV RNA Quantification Genotype.