



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



شبكة المعلومات الجامعية
@ ASUNET



شبكة المعلومات الجامعية التوثيق الالكتروني والميكرو فيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

قسم

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



يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار

في درجة حرارة من ١٥-٢٥ مئوية ورطوبة نسبية من ٢٠-٤٠%

To be Kept away from Dust in Dry Cool place of
15-25- c and relative humidity 20-40%

بعض الوثائق الأصلية تالفة

بالرسالة صفحات لم ترد بالاصل

2001

**PILOT STUDY TO SET UP A PROPOSAL
PROTOCOL FOR UMBILICAL CORD
BLOOD BANK**

Thesis

*Submitted for Partial Fulfillment of
Master Degree in Pediatrics.*

By

Mona Farouk Mohamed Tolba

M.B.B.CH.

Under Supervision of

Prof. Dr. MOHSEN SALEH EL ALFY

*Professor of Pediatrics
Faculty of Medicine , Ain Shams Univ. *

Dr .HANAA MOHAMED AFIFI

*Assistant Prof. Of Clinical pathology
Faculty of Medicine , Ain Shams Univ.*

Dr. EMAN MONIR SHERIF

*Lecturer of Pediatrics
Faculty of Medicine , Ain Shams Univ.*

(2000)

Acknowledgement

Before and above all, thanks to *ALLAH* to whom I always pray to bless my work.

I offer my deepest gratitude to *Prof. Dr. Mohsen Saleh El Alfy*, Professor of Pediatrics, Faculty of Medicine, Ain Shams University, for suggesting this interesting point of research, useful encouragement, consistent supervision, and valuable criticism.

I would like to pay a special gratitude to *Prof. Dr. Hanaa Afifi*, Assistant Professor of Clinical Pathology, Faculty of Medicine, Ain- Shams University, for her precious advice, effort afforded by her, and trustful help.

I am greatly indebted to *Dr. Eman Sherif*, Lecturer of Pediatrics, Faculty of Medicine, Ain Shams University, for her marvelous support, objective criticism, and valuable directions.



LIST OF TABLES

	Page
Table (1): Indications for stem cell transplantation	23
Table (2): PBSC mobilization data with chemotherapy regimens	25
Table (3): Comparison unrelated cultural immunity (T or mononuclear cells) isolated from cord blood versus adult peripheral blood	44
Table (4): Comparison between cord blood samples collected from newborns weighing 3 kg or less and those weighing more than 3 kg as regard total nucleated cells.....	61
Table (5): Comparison between cord blood samples collected from newborns weighing 3 kg or less and those weighing more than 3 kg as regard CD34 +ve absolute.	61
Table (6): Comparison between samples with blood volumes of 70 ml or less and those with volumes more than 70 ml as regard total nuclear cells.	62
Table (7): Comparison between samples with blood volumes of 70 ml or less and those with volumes more than 70 ml as regard CD34 +ve absolute.....	62
Table (8): Comparison between samples with positive versus negative blood culture for bacterial infection as regard total nuclear cells.	63

LIST OF TABLES (Cont.)

	Page
Table (9): Comparison between samples with positive versus negative blood culture for bacterial infection as regard CD 34 +ve absolute.....	63
Table (10): Comparison between cord blood with positive versus negative hepatitis B virus as regard TNC.....	64
Table (11): Comparison between cord blood with positive versus negative hepatitis B virus as regard MNC's absolute.....	64
Table (12): Comparison between cord blood with positive versus negative hepatitis B virus as regard CD34 +ve absolute.....	65
Table (13): Comparison between cord blood with positive versus negative hepatitis B virus as regard cord blood volume.	65

LIST OF FIGURES

	Page
Fig. (1): Mean percentage CD34+ cells in CB, NPB, CPB (P<0.001).....	66
Fig. (2): Comparison of the means of different cell components between newborns with positive versus negative blood culture for bacterial growth.....	67
Fig. (3): Comparison of the means of different cell components in cord blood samples between newborns weighing 3 kg or less versus those who weigh more than 3 kg.	68
Fig. (4): Comparison of the means of different cell components between cord blood samples with blood volume of 70 ml or less versus those with volumes of more than 70 ml.....	69
Fig. (5): Comparison of the means of different cell components in cord blood samples with positive versus negative for HBsAg.	70
Fig. (6): Correlation between TLC and CD34+% in 23 CB samples.....	71
Fig. (7): Correlation between birth weight and CD34 in 23 CB samples.	72

