

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

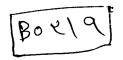
تحفظ هذه الأفلام بعيدا عن الغبار في درجة حرارة من ١٥-٥٠ مئوية ورطوبة نسبية من ٢٠-٠٠% To be Kept away from Dust in Dry Cool place of 15-25- c and relative humidity 20-40%



## بعض الوثائـــق الإصليــة تالفــة



# بالرسالة صفحات لم ترد بالإصل



## Design of an integrated occupational and environmental health services for Ain Shams University hospitals

Thesis submitted for the partial fulfillment of the master degree in public health

*By* Hanan Said Hefny Ezz Elarab

M.B.,B.Ch.

supervised by

#### Prof.Dr.Abdel Aziz Kamal

Professor of occupational medicine
and Head of Department of Community, Environmental and Occupational
Medicine
Faculty of medicine - Ain Shams University

#### Prof Dr Mahi El Tehewi

Professor of Community, Environmental and Occupational Medicine Faculty of medicine -Ain Shams University

#### Prof Dr Samia Galal

Professor of public health High institute of Public Health - Alexandria University

> Faculty of Medicine Ain Shams University 2001

#### Acknowledgement

First and for most, I thank God Almighty, the Beneficent and the Most Merciful.

I would like to express my utmost and sincere gratitude and cordial appreciation to *Prof. Dr. Abdel Aziz kamal* head of department of community, environmental and occupational medicine, Ain Shams University, he has been of utmost supreme guidance and supervision with the most kind encouragement through out this work.

My deep thanks are due to *Prof. Dr. Mahi El-Tehewy* Professor of community, environmental and occupational medicine Ain Shams University for her generous help and guidance.

All thanks to *Dr. Amany Mokhtar* Lecturer in the department of community, environmental and occupational medicine Ain Shams University for revising the thesis and her kind comments.

Also my greatest thanks to *Prof. Dr. Samia Galal* Professor of Pubic health, High institute of public health, Alexandria University for her kind and helpful guidance

All thanks to hospital directors and supervisors in Ain Shams University hospital who helped me and without their support this work cannot be completed

No wards can describe the support and encouragement offered to me by my family


#### **Dedication**

TO THE SPIRIT OF MY MOTHER

	•
	•

#### **Contents**

		Page
o o	Abstract List of tables List of figures List of abbreviation	iii vi
		VII
0	Introduction	1
ū	Aim of the work	5
	Review of Literature	6
	-Historic aspect of environmental health and safety	6
	-Hospital health hazards	9
	-Hospital environment	32
	-Safety of the work place	41
	-Personal protective measures	47
	-Occupational health services	51
	-Design of occupational health services	54
0	Methodology	65
<b>a</b>	Results	69
0	Proposed program	100

	Discussion	124
<b></b>	Summary	132
	Recommendations	135
a	References	136
ū	Appendix	
	Appendix proposed program Questionnaire and check list	la
۵	Arabic Summary	

#### i

#### **Abstract**

Hospital occupational health services have been appendages to the administrative rather than the clinical structure of the hospital and have never enjoyed the level of commitment extended to other hospital units.

The aim of this study was to evaluate the adequacy of available health services for Ain Shams University hospital workers and to evaluate the quality of environmental health in the different department of the hospital so as to propose a program for occupational and environmental health and safety

An interview questionnaire and check list were used to assess the current situation of occupational and environmental health services In Ain Shams University Hospitals

The study revealed that preventive health service in Ain Shams University Hospitals is not well carried for hospital workers, pre-employment examination is not done routinely especially for junior nurses, periodic medical examination is carried out for a limited number of workers in tow units only radiation unit and workers in the kitchen. The study also showed that there is deficiency of health education for workers about occupational and environmental hazards and training on ergonomics. The study revealed lack of vaccination schedule for hospital workers and absence of definite strategy for vaccination

As regards curative services the study revealed absence of occupational health clinic and absence of occupational medicine specialist in the hospital

Also the results showed a big defect in the health record system for hospital workers and ill-defined role of file for recording work related accidents. And as a results no medical and occupational statistics could be done.

By inspection and supervision of hospital departments it is clear that the activities of the committee for environment and infection control and the occupational safety and health committee are limited to certain areas and personnel and not covering the hospital departments as a whole.

A proposed program is designed and contain the details needed to build up successful occupational health service.

Key wards: occupational, environmental, health services, hospital workers, program, hospital health hazards