



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 تغييرات



## 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%

**ROLE OF ORAL ANTIOXIDANTS VIT E AND  
VIT C IN REDUCTION OF CHROMOSOMAL  
ABERRATIONS IN WORKERS IN  
RADIOLOGY DEPARTMENT**

**Thesis**

*Submitted in Partial Fulfillment for the Master Degree of Industrial  
Medicine and Occupational Diseases*

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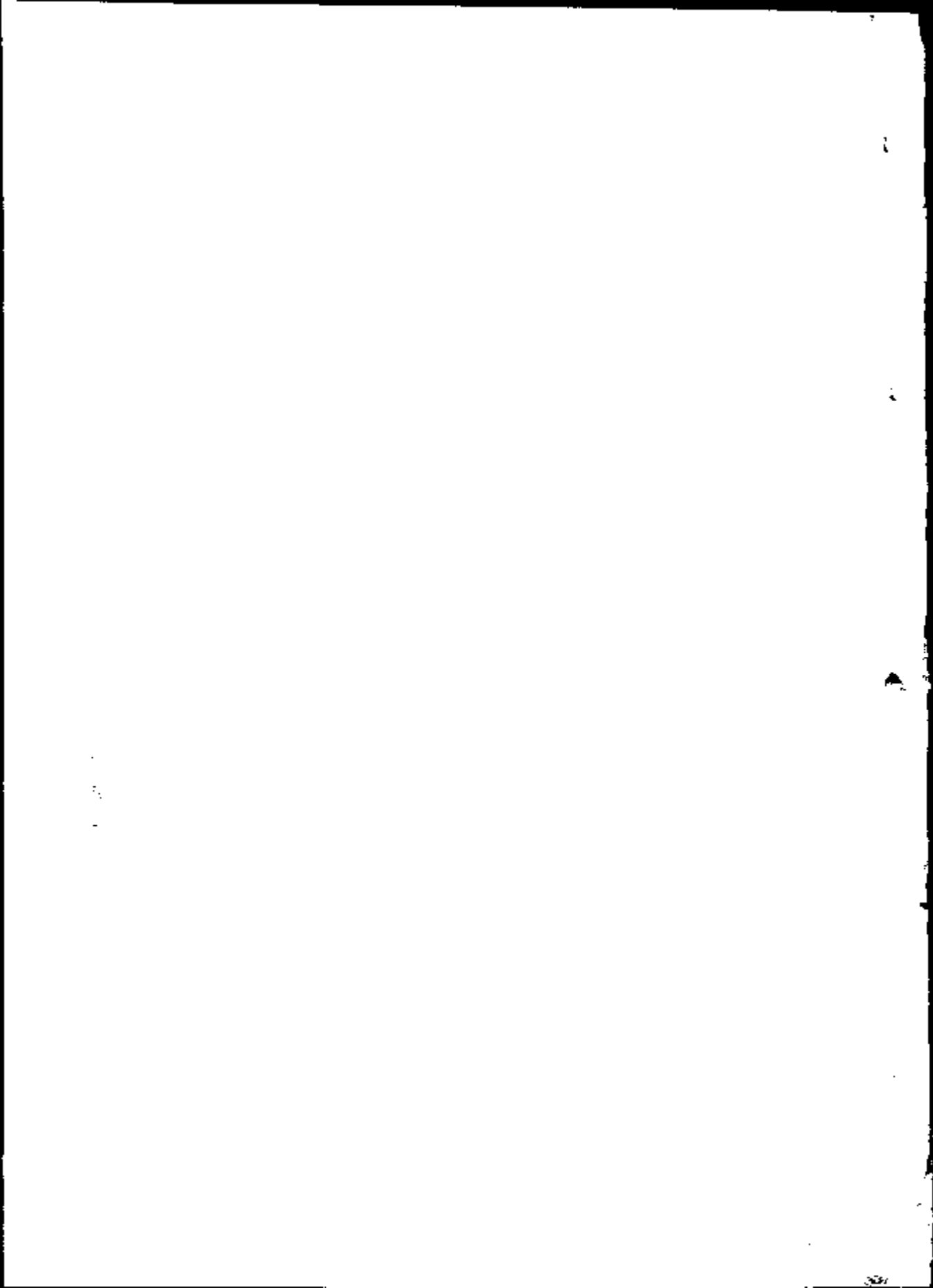
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*Assistant Professor of Industrial Medicine and Occupational Diseases  
Faculty of Medicine - Cairo University*

70  
50

**Faculty of Medicine  
Cairo University**

**2001**



مختصر

اجتماع لجنة الحكم على الرسالة القديمة من  
الطبيب / حاله التي التي بأنه قضى  
توطئة للحصول على درجة الماجستير / التي بأنه  
في طريق التي بأنه قضى

Role of Oral antioxidant Vitamin C in the  
protection and reduction of skin cancer  
the radiology department

واللغة العربية : حاله التي بأنه قضى  
في طريق التي بأنه قضى

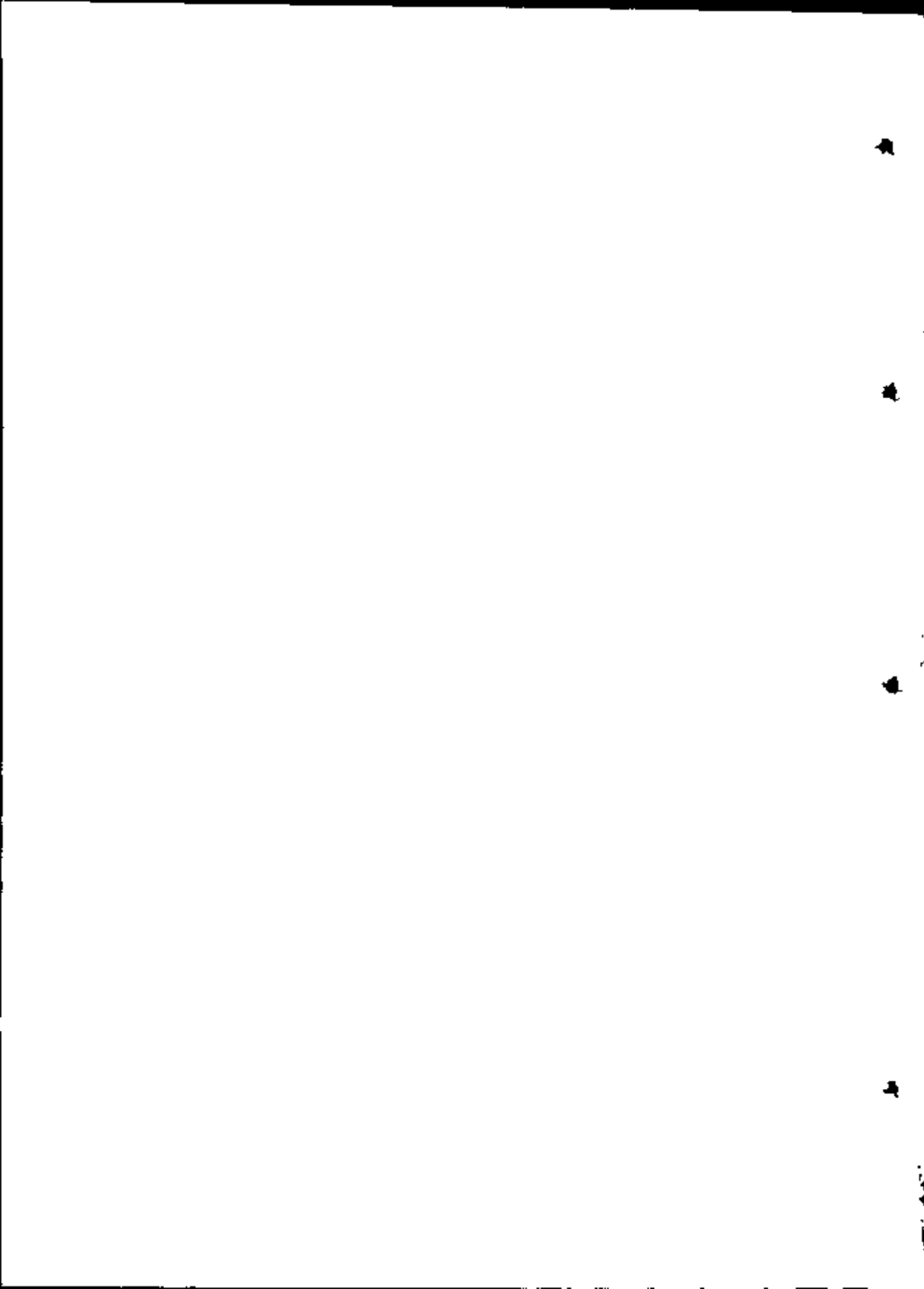
بناءً على موافقة الجامعة بتاريخ ١٠ / ١٠ / ١٩٩١  
تتم تشكيل لجنة الفحص والمناقشة للرسالة

- ١) أحمد التي بأنه قضى
- ٢) أحمد التي بأنه قضى
- ٣) أحمد التي بأنه قضى

بمعرفة من الرسالة الطبية كل من أحمد التي بأنه قضى  
بم أحمد التي بأنه قضى  
بكلية الطب - جامعة القاهرة وذلك لعقد المناقشة الطلابية من جلسة ملقمة في موضوع الرسالة والنتائج التي توصل  
إليها وكذلك الأمر العملية التي قام عليها البحث .

قرار اللجنة :  
أحمد التي بأنه قضى  
أحمد التي بأنه قضى  
أحمد التي بأنه قضى  
أحمد التي بأنه قضى

المتمن الخارجي  
P. أحمد التي بأنه قضى  
المتمن الداخلي  
P. أحمد التي بأنه قضى  
المدرسة المتمن  
P. أحمد التي بأنه قضى



## ABSTRACT

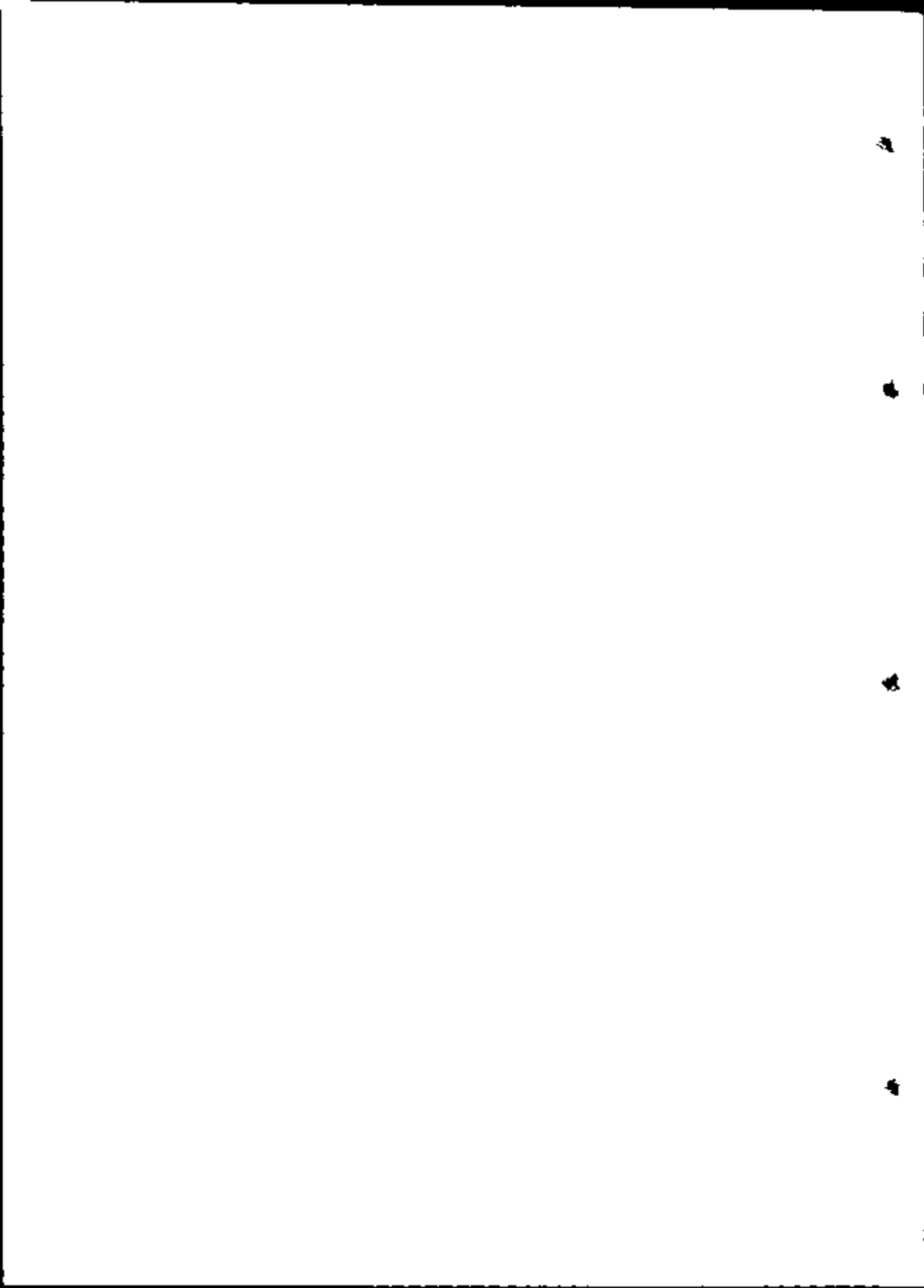
This study was conducted on the technicians in the radiology department at Kasr El-Aini hospital. They are occupationally exposed to low level of ionizing radiation, 36 workers from different departments of Kasr El-Aini hospital were chosen as control group.

The environmental measurements in the radiology department were below the permissible limits of Egypt 50 Sv/year.

The most significant result was high frequency of chromosomal aberrations in the exposed group. There was significant reduction in chromosomal aberrations after intake of vitamin E 1g/day/ 50/days or vitamin C 2g/day/50days. There was no significant reduction in chromosomal aberrations after intake of both (Vit E 1g/day and Vit. C 2g/day) for 50 days.

### **Key Words:**

Ionizing radiation-Chromosomal aberrations-Antioxidant vitamins.



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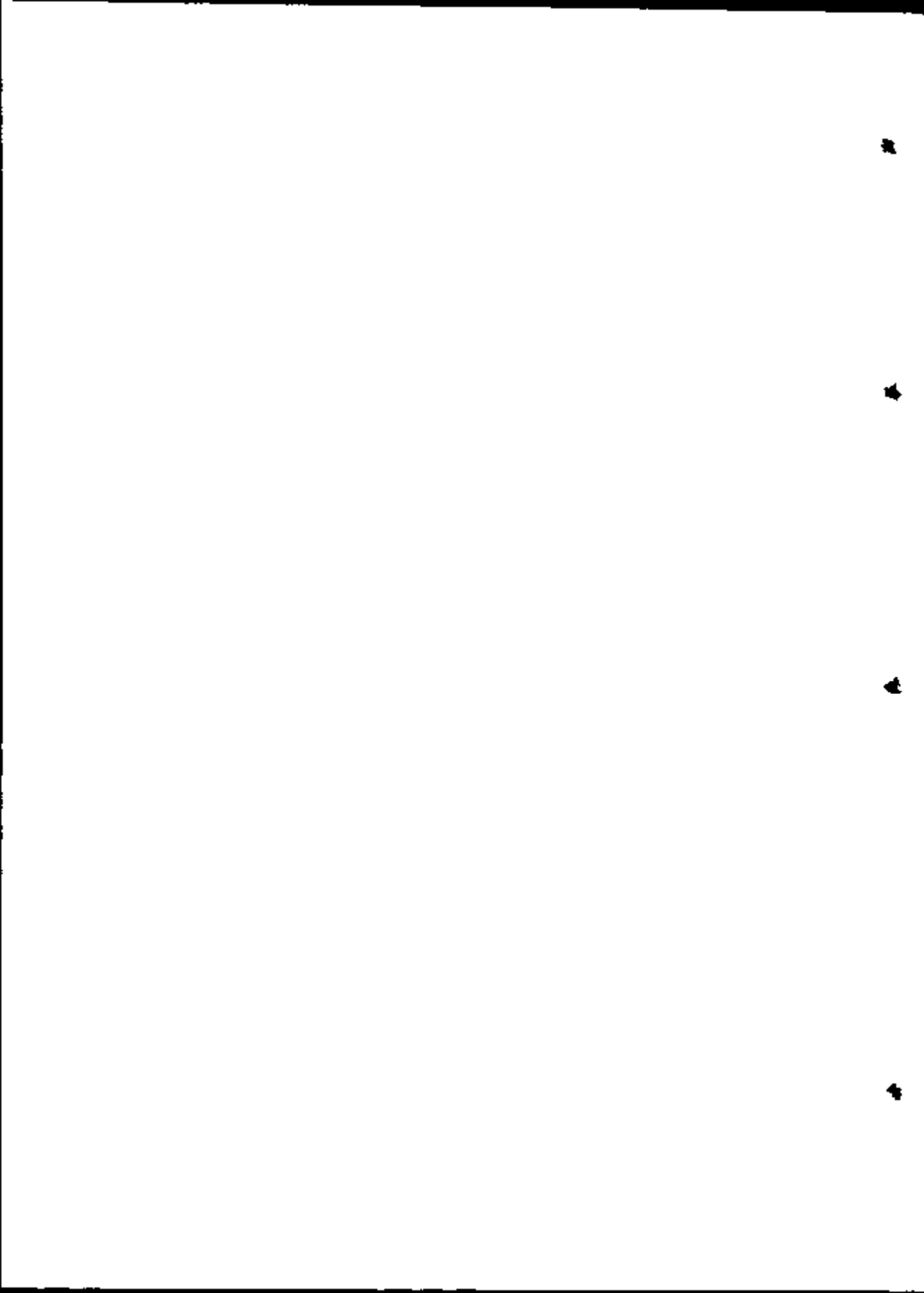
*I wish to express my deep gratitude to Dr. Bahira M. Saeed Lotfi Assistant Professor of Industrial Medicine and Occupational Diseases, Cairo University. She helped me so much in doing the cytogenetic analysis. She gave me much of her time, experience, meticulous valuable advice and support, that can not be expressed in words, her encouragement were indispensable for the completion of this work.*

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