# RESULTS

The sex chromatin in fibroblast nuclei examined in mesentric spreads appeared deep violet in colour compared to the pale neighbouring chromatin network. It had a well defined plano - convex shape and was adjacent to the nuclear membrane (Fig. 1)

# Group I ( Experimental ):

The differential percentage of sex chromatin positive nuclei of each sample in both subgroups of experimental animals after different periods of hydrocortisone injection and their population variance (0) were collectively presented in table (1)

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Fig. 1: - Showing the sex chromatin in

a fibroblast nucleus (arrow)

(Cresyl violet stain, X 1000)
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	Sample	Total cell count	% Sex chromatin positive nuclei X	ر <sup>2</sup>
subgroup (1)	A B C D	2520 2 <b>5</b> 80 2535 2555	15.35 % 7.16 % 2.95 % 2.52 %	2.54 1.66 1.47 0.27
Subgroup (2)	E F G	<b>2580</b> 2565 2580	14.51 % 16.95 % 23.43 %	0.25 3.42 1.79

Table (!): Showing the total number of examined nuclei, the mean value of the percentage of sex chromatin positive nuclei, and the population variance ( 0 ) of the different samples of experimental group ( group I ).

## Subgroup (2):

#### Sample E: -

the percentage of sex chromatin - positive nuclei ranged from 10.7% to 16.9% with a mean value  $(\overline{X})$  of 14.5 and a population variance  $(\overline{0})$  of 0.25

#### Sample F: -

the percentage of sex chromatin positive nuclei ranged from 15.4 % to
19.2 % with a mean value (X) of 16.95
and a population variance (0) of 3.42.

#### Sample G: -

the percentage of sex chromatin - positive nuclei ranged from 21.8 % to 21.6 % with a mean value ( X ) of 23.43 and a population variance ( $\binom{2}{3}$ ) of 1.79 .

Obviously, the score of sex chromatin positive nuclei decreased with every extrainjection
of hydrocortisone; reaching a minimal count after

the 14th injection . However , a rebound phenomenon was observed following the stoppage of injection . (Fig. 2)

# Group II ( Control ) : -

The differential percentage of sex chromatin positive nuclei of each sample in both subgroups of control animals after different periods of saline injection and their population variance (6) were collectively presented in table II.

Table ( 2 ) shows that:

# Subgroup (1):

#### Sample A: -

the percentage of sex chromatin 
positive nuclei ranged from 20.7% to

28% with a mean value (X) of 24.82

and a population variance (6) of 2.94.

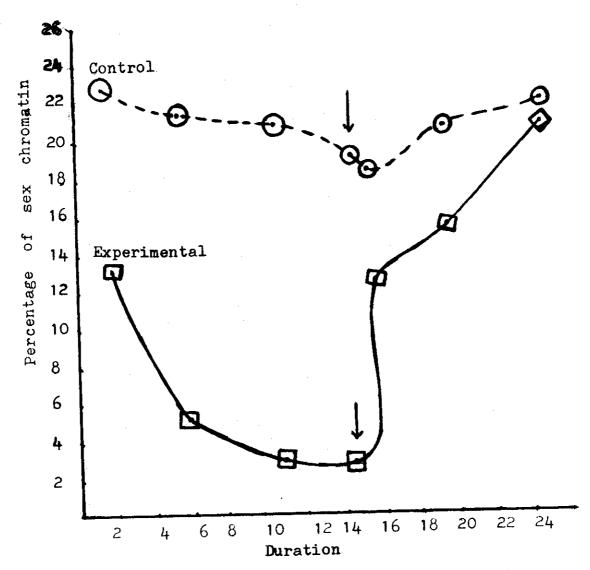


Fig 2: A graph showing the alternations of the sex chromatin percentages in the control (---) and the experimental (---) groups along the period of experimentation.

The arrow indicates the time of stopping injections.

	Sample	Total cell count	% Sex chromatin popitive nuclei X	2 <b>س</b> 2
Subgroup (1)	A	2567	24.82 %	2•94
	В	2530	23.5 %	14•9
	С	2500	22.9 %	5•7
	<b>.</b> D	2500	21.6 %	5•3
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Subgroup(2)	E	2500	20 %	10 .0
	F	2500	22.6 %	11.57
	G	2500	23.8 %	6.47
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Table (2): Showing the total number of
examined nuclei, the mean value of the
percentage of sex chromatin positive nuclei,
and the population variance (0) of the
different samples of the control group (group II)

## Sample B: -

the percentage of sex chromatin positive nuclei ranged from 16.6 % to
28.3 % with a mean value of 23.5 and
a population variance (6) of 14.9

#### Sample C: -

the percentage of sex chromatin positive nuclei ranged from 20 % to
25.8 % with a mean value (X) of
22.9 and a population variance (6)
of 5.7

## Sample D: -

the percentage of sex chromatin positive nuclei ranged from 18.5 % to
24 % with a mean value ( X ) of 21.6
and a population variance (0 ) of 5.3 .

## Subgroup ( 2 ) : -

#### Sample E:-

the percentage of sex chromatin - positive nuclei ranged from 15% to 24% with a mean value ( $\overline{X}$ ) of 20 and a population variance ( $\overline{0}$ ) of 10.

#### Sample F: -

the percentage of sex chromatin - positive nuclei ranged from 16% to 24% with a mean value ( $\overline{X}$ ) of 22.6 and a population variance of 11.57.

#### Sample G: -

the percentage of sex chromatin positive nuclei ranged from 19.4 % to
24.5 % with a mean value (X) of 23.8
and a population variance (0) of 6.47

In analogy to the experimental group, the scores of sex chromatin - positive nuclei decreased with saline injections and recovered after stoppage of injection but to a still lower value than the original (FIg .2)