# RESULTS

#### RESULTS

This work comprises 65 patients who were, almost all, out patients in Zagazig University Huspital. The results obtaineQ will be tabulated according to the following scheme:

## A. The clinical statistical results:

- 1. Age distribution of the patients.
- 2. The length of the postmenopausal period.
- 3. Age of menopause.
- 4. The relation between age of menopause & age of menarche.
- 5. The parity.
- 6. The clinical presentation of the patients.
- 7. The menopausal symptoms.
  - . The percentage of each symptom .
  - . The menopausal symptoms in relation to age.
  - . The menopausal symptoms in relation to the length of the postmenopausal period.

#### B. The vaginal smears:

- I. Classification of the smears.
- II. Vaginal smears of patients complaining of postmenopausal symptoms:

- 1. Maturation index in relation to age.
- 2. Maturation value.
- 3. Maturation value in relation to age.
- 4. K.I. in relation to age.
- 5. Parabasal cell index in relation to hot flushes.
- III. K.I. in cases of prolapse & vaginal bleeding.
- IV. Inflammatory smears.
- V. Dysplastic smears.

#### A. The clinical data

#### 1. Age:

All patients were postmenopausal for at least one year & all were forty five years or more.

Table (1) shows the age distribution among 65 patients.

The mean age of our patients is 53.9 years (± 6.9).

Table (1)

Age in years	No of patients	Percentage of patients
45 - 49	22	33.8
50 - 54	19	29.5
55 - 59	11	16.9
60 - 64	10	15.3 4.6
65 & over	3	4.0
		<del></del>

# 2. The post menopausal period: (The period of amenorrhea) Table (2) shows the distribution of patients

according to the length of period of amenorrhes.

Table (2)

Amenorrhea (years)	No of patients	Percentage of patients
1 - 2	22	33.8
3 - 4	12	18.4
5 <b>-</b> 9	13	20,0
10 - 19	16	24.6
20 & more	2	3.1
		****

Table (2) shows that 33.8% of patients attend early in the menopause for gynaecologic consultation.

#### 3. Age of menopause:

The mean age of menopause in whole series is  $46.2 \text{ years } (\pm 2.8)$ . The age of menopause ranges from 40 to 55 years. The median age of menopause is 45 years.

# 4. The relation between age of menarche & age of menopause:

Table (3) shows that there is no relation between age of menarche & age of menopause.

Table (3)

		##
Age of menarche	No of patients	Mean age of menopause. (+ standard deviation)
ll years	12	47.3 years (± 2.6)
_2 years	10	47.6 years $(\pm 3.3)$
13 years	13	45.1 years $(\pm 2.3)$
14 years	10	45.0 years $(\pm 3.7)$
15 years	10	47.6 years $(\pm 3.9)$
16 years	6	46.0 years $(\pm 2.8)$
17 years	4	45.2 years $(\pm 1.1)$
· •	·	

#### 5. The parity:

All patients were multipare & their parity ranged from 3-11.

6. The clinical presentation of these patients is shown in table (4).

Table (4)

		چې چې د چې د پېلې د پېلې د د د د د د پېرې د د د د د د د د د د د د د د د د د د
ے کی جو	No Of patients	Percentage of patients
		·
as a second symptoms.	<b>38</b>	58 <b>.5%</b>
A. Menopausal symptoms.	- 0	15 <b>.4</b> %
B. Genital prolapse.	10	25.17
	10	15.4%
C. Vaginal discharge.		10.8%
D. Vaginal bleeding.	7	10.0%

## 7. Menopausal symptoms:

Menopausal symptoms were experienced by 58.5% of all patients.

The various types of menopausal symptoms & the percentage of patients who experienced them are shown in table (5).

Table (5)

Type of menopausal symptoms	Percentage of patients
TAbe of menoborana and	57.9%
Hot flushes	31.6%
Sweating	28.9%
Irritability & nervousness	26.3%
Palpitation	23.7%
In somnia	23.7%
Flatulent dyspepsia	13.2%
Headache	10.5%
Backache	الله القاب الله الله الله الله الله الله الله ال

\* The menopausal symptoms in relation to age:

Table (6) shows the percentage of patients who experienced menopausal symptoms among the various age groups. It shows that there is a gradual decrease in percentage of patients experiencing menopausal symptoms with age.

Table (6)

Age in years	Percentage of patients with menopausal symptoms
	81.8%
45 <b>-</b> 49 50 <b>-</b> 54	73.6%
55 - 59	27 • 3%
60 - 64	20.0% 33.3%
65 or over	33.3%

★ The menopausal symptoms in relation to the length of period of amenorrhea:

Table (7) shows the percentage of patients who experienced menopausal symptoms when the various lengths of period of amenorrhea are compared. It shows that the percentage of patients who experience menopausal symptoms decrease with time.

Table (7)

Amenorrhea (years)	Percentage of patients with menopausal symptoms
	72.7%
1 - 2	
3 - 4	66.7%
<i>)</i> - 4	67 EA
5 - 9	61.5%
	37.5%
10 - 19	21.270
	_
20 or more	
	***************************************

#### B. The vaginal smear

### I. Classification of the smears:

The smears are classified according to Papanicolaou's classification. Four smears were inadequate for diagnosis because the cells were insufficient in quantity (3 smears) and in quality (1
smear) to permit predective diagnosis. This can be
explained by the few number of vaginal cells that
can be scraped from the dry postmenopausal vaginal
epithelium.

Table (8) shows the number & the percentage of smears of each class in the different groups.

Table (8)

Total No(61		Menop.Symp (36 pat- ients)		Prolapse (9 pat- ients)		CHR	rgelz	di	Vag.blee- ding (7 patients)	
Class	pati- en- ts)	70	No	%	No	%	No	#a	Νo	%
	34	55.7	25	69.4	4	44•4	-		5	71.4
II	13	21.3	3	8.3	3	33.3	6	66.6	1	14.3
III	14	23.0	8	22.3	2	22.3	3	33.3	1	14.3
IV	_	-	-	_	-	-	-	-	-	_
V		1	-			1.				
		 	<u> </u>			1	ـــــ		L	

## II. Vaginal smears of patients complaining of postmenopausal symptoms:

#### 1. Maturation index:

Table (9) shows the relation between age & the mean maturation index.

Table (9)

Age in years	No of patients (33 patients)	(+ Diamidal di Dovidonia)
45 - 49 50 - 54 55 - 59 60 - 64	1 2	1.4±1.4 79.8±27.4 18.8±28.2 2.3±1.7 82.5±26.5 15.2±30.8 7.7±4 80.3±9.5 12 ±13.3 17.5±3.5 75.5±2.5 6 ± 5.6

# 2. Maturation value: or Oestrogenic value.

Maturation value of each smear was calculated.

Mainly there is 3 levels of maturation value:

- 1) Absent or very low cestrogenic value (0 to 49).
- 2) Moderate oestrogenic value (50 to 64).
- 3) High oestrogenic value (over 65).

Table (10) shows the number & the percentage of each level.

Table (10)

Oestrogenic value	No of patients	Percentage	
*************************			
The second low	10	30.3	
Absent or very low	_	54.5	
Moderate	18	J4•J	
	5	15.2	
High	J		

## 3. Maturation value in relation to age:

Table (11) shows the number & the percentage of each level in different age groups:

Table (11)

دره شدو چون حيد دهند هڪ هندي هيڪ ويده نيسا شيم شيو ٿيندي ويسا		Abse	nt or ;	woder	ate	Hi	gh
Age in years	No No	No No		No	%	No	%
المنا مسارحت بالمنا المنا منا عليه مساركت المنا منا المنا بالمنا منا المنا المنا المنا منا المنا المنا المنا ا					60.5	2	18.8
45 - 49	16	2	12.5	11	68.7	3	10.0
50 <b>-</b> 54	12	4	33.3	6	50.0	2	16.7
-				1	33.3	_	-
55 <b>–</b> 59	3	2	00.1	+			
60 - 64	2	2	100	-	-	-	<del></del>

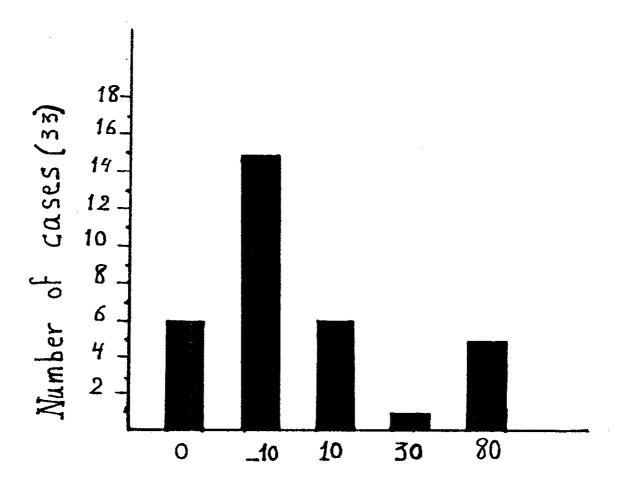
This table shows gradual decrease in oestrogenic value with progress of age.

## 4. K.I. in relation to age:

Table (12) shows the K.I. at different age groups. The mean K.I. is found to be  $16.1 \ (\pm 28.9)$ .

Table (12)

			13	POTA /				_	
	No	 1	<b>-</b> 2		3 - 4	 F	- 10		10
Age in years	of -	No	 %	No	%	No	%	No	% 
45.40	 16	 4	25.0	3	18.7	4	25.0	3	18.7
<b>45-49</b> 50 <b>-</b> 54	12	4	33.3	1	8.3	1	8.3	2 1	16.6 33.3
55-59	3	1	33.3	1	33.3	_ 1	<b>-</b> 50.0	<b>-</b>	_
60-64	2	1	50.0						
Total	33	10	30.3	5	15.2	6 	18.2	6 	18.2



Percent Superficial Gells.

#### 5. The relation between parabasal cell index & hot flushes:

The parabasal cell index was found to be less than 5 in 23 smears & 5 or more in 10 smears. Atrophic smear is defined as that with parabasal cell index 5% or more. (Gordon, 1975).

Table (13) shows the incidence of hot flushes & other menopausal symptoms in the group showing atrophic smears & the other group showing non etrophic smears.

Ta	bl	e (	•	1	3	)

Menopausal symptoms		c smears nears		ohic smears smears
Hot flushes	5	50%	13	56.5%
Other symptoms	5	50%	10	43.5%

III. K.I. in patients presenting with genital prolapse & vaginal bleeding.

Table (14) shows the values of K.I. in each group.

Table (14)

	No of cases		11 - 20	21 - 60
Prolapse	6	4	1	1
Vaginal bleeding	6	2	2	2

#### IV. Inflammatory smears:

Inflammatory smears accounts for 21.3% (13 smears) six patients were complaining of vaginal discharge, 3 patients presented with genital prolapse, 3 patients were suffering from menopausal symptoms & one patient were complaining of vaginal bleeding (Table 8). Candida spores were detected in 4 smears & Trichomonas vaginalis in 2 smears.

Table 15 shows the incidence of each type of infection.

Table (15)

Type of infection	No of cases	Percentage
		, — — — <del>— — — — — — — — — — — — — — — —</del>
Non specific	7	53.8
<del>-</del>		
Monilial	4	30.8
Trichomonal	2	15.4

#### V. Dysplastic smears:

Dysplasia was found in 14 smears (23%). Table (8) shows that, 8 patients were complaining of menopausal symptoms, 3 patients were suffering from vaginal discharge, 2 patients presented with genital

prolapse & one patient was complaining of vaginal bleeding.

Mild dysplasia was detected in 9 smears (64.3% of the dysplastic smears).

Moderate dysplasia was detected in 4 smears (28.6% of the dysplastic smears).

Severe dysplasia was detected in one smear(7.1% of the dysplastic smears).

Evidence of inflammation was detected in 4 dysplastic smears (28.6% of the dysplastic smears). Candida spores were present in one smear & trichomonas vaginalis was present in another smear. Fig. (1): clusters of intermediate precornified cells in early menopause. (45 x 6)

Fig. (2): Clear back ground. Cells are in small clumps, mostly of intermediate cell group. Few precornified & superficial cells.

Mild dysplasia (20 x 6).

Fig. (3): Fig. (2) (45 x 6)

Fig. (4): Intermediate & parabasal cells in late menopause.
Mild dysplasia (20 x 6).

Fig. (5): Fig. (4) (45  $\times$  6).

Fig. (6): - Parabasal & intermediate cells.
- Excessive mucous.
- Leucocytes ++.
(45 x 6).

Fig.(7):- Excessive leucocytosis.
- Intermediate cells, some of them are rounded nearer to the parabasal cell group.
- Cytohormonal assessment is nareliable.

- Mild to moderate dysplasia. (45 x 6).

Fig. (8):- High Karyopyknotic Index.
- Perinuclear halo. Cytolysis.
- Mild to moderate dysplasia.
(45 x 6).

Fig. (9):-Superficial cells & intermediate cells.
- Erythrocytes ++.
(20 x 6).

Fig. (10):-Clusters of endocervical cells (end on).
- Parabasal cells & intermediate cells.
- Mild dysplasia.
(45 x 6).

Fig. (11): - Scanty dry smear in case of prolapse.
- Anucleated superficial cells.
(20 x 6).