



# Colposcopy Practice in Egypt

***Reda Hemida, MD, PhD***

**Professor of Obstetrics and Gynecology**

**Chairman of Gynecologic Oncology Unit**

**Mansoura University**

**ESGO-Prevention Committee member**

I have no conflict of interests



## In Egypt (IARC fact sheet, 2021)

- ❖ Cervical cancer ranks as the 9<sup>th</sup> most frequent cancer among Egyptian women.
- ❖ Around **1320** women are diagnosed with cervical cancer and **744** die from the disease in Egypt each year.
- ❖ No routine vaccination program against HPV.
- ❖ No National screening program for cervical cancer.

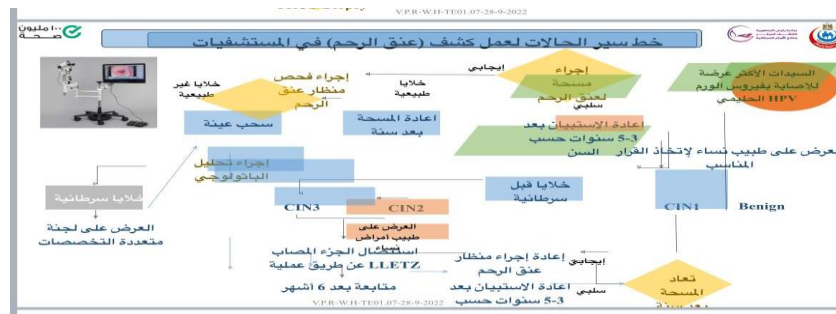
# Places of Colposcopy service in Egypt

- Early cancer detection units was found before construction of Gyn Oncology Units.
- Egyptian society of colposcopy and cervical pathology (since 2019).
- Mainly in Egyptian Universities.
- Ain-Shams University.                      Zagazig University.
- Alexandria University.                      Mansoura University.
- Assiut University.                              Benha University.
- Elgalaa Teaching Hospital.



# Running Egyptian initiatives:

## 1. Presidential initiative to eliminate cervical cancer.



2. One-thousand miles initiative (Egyptian Society of cervical pathology and colposcopy).

3. A step forward project (By Cairo Rotary Club).



4. Mansoura GOU initiative.

# Mansoura Colposcopy Unit

- Found since **1986** by Professor M Emam.
- 3 conventional colposcopes in equipped examination rooms.
- 2 portable colposcopy used during our outreach visits to the district hospitals and villages.
- **Available in the exam rooms:**  
Gyn exam instruments, acetic acid, Lugol Iodine, cytobrush, ECC, and different punch biopsies.
- HPV-DNA was recently introduced by the Presidential initiative.
- **All services of the unit is provided free of charges.**





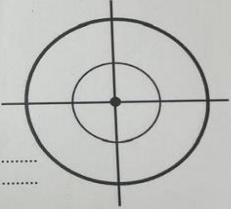

 Obst & Gyn Department  
 Faculty of Medicine
 

### Colposcopy Sheet

|                |                                    |
|----------------|------------------------------------|
| (1) Name:      | (2) Age:                           |
| (3) Residence: | (4) Occupation:                    |
| (5) Tel. No.:  | (6) Date of 1 <sup>st</sup> visit: |

|                          |            |
|--------------------------|------------|
| • Age of marriage:       | • Parity:  |
| • Contraception:         | • Smoking: |
| • Medical history:       |            |
| • Surgical history:      |            |
| • Family history:        |            |
| • History of malignancy: |            |

#### Colposcopy

|                              |                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------|
| • Visual inspection:         |  |
| • Acetic Acid Test:          |                                                                                     |
| • Colposcopic guided biopsy: |                                                                                     |

• Endo-cervical curettage:

• Recommended Plane:

Colposcopist:

Date:

Date of next visit:

- Regular training courses for gynecologists twice/year.
- Colposcopy training is a part of Mansoura Gyn Oncology Professional Diploma.

- **Available methods of treatment of HGSIL:**

1. Cryotherapy.
2. Modified LEEP
3. Simple hysterectomy for old patients.

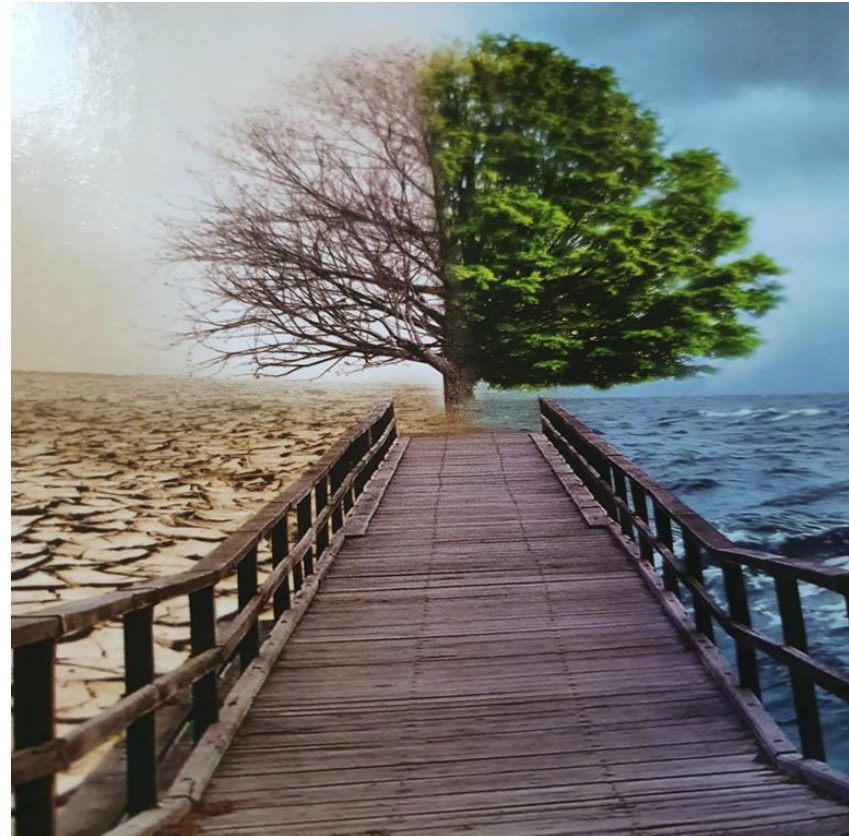


- Registration, recording, and follow up of the managed cases.





## Mansoura initiatives



## Steps:

- ❖ Training courses to gynecologists in Dakahlia Governorate.
- ❖ 15 campaign visits to district hospitals and villages for training, screening, and health awareness.
- ❖ 3 new colposcopy units were initiated in General Hospitals.
- ❖ The VIA positive cases were referred to Mansoura Gyn Oncology unit for evaluation, colposcopy, and biopsy.



## Results:

- ❖ From 1/2/2022 to 31/1/2024; more than **6000** screened women during 15 campaign visits; **1200** cases were referred to GOU as VIA positive.
- ❖ After colposcopic examination; **550** biopsies were taken that revealed **105** pre-invasive (41 cases of HGSIL and 64 LGSIL) and 18 invasive cervical cancer (22.4%).
- ❖ The diagnosed cases were treated according to international guidelines and followed up.

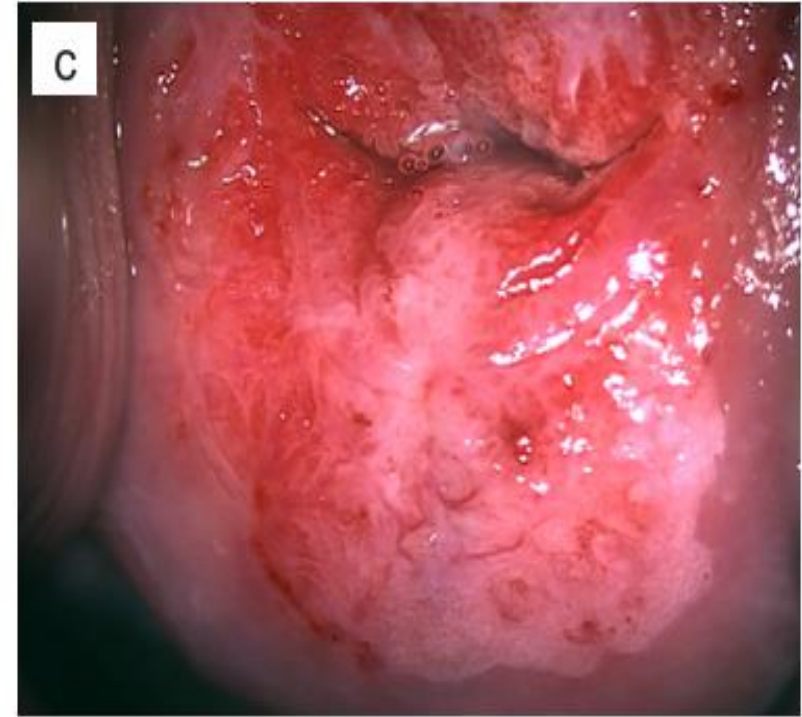
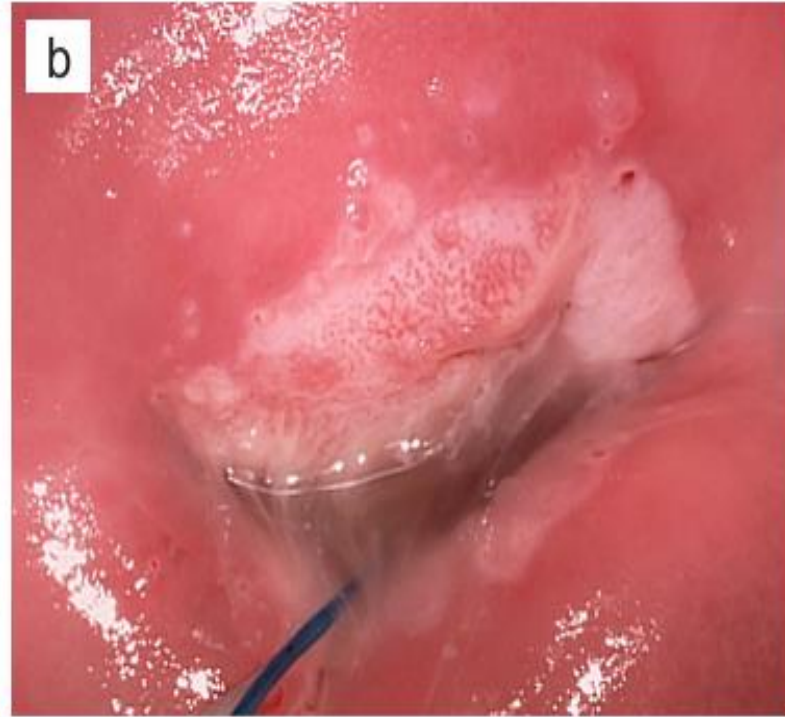
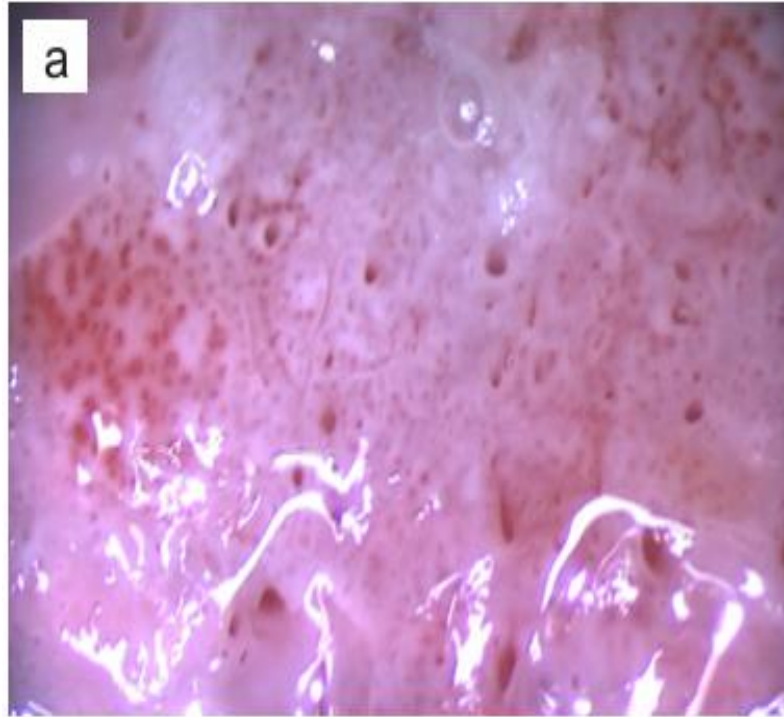






قافلة لطب المنصورة بمستشفى السنبلالوين









# Colposcopy clinical cases

## Case 1

### History:

- 21 years old.
- Primipara (VD)

### Complaint:

- Recurrent vaginal discharge.

### Contraception:

- IUD user.

# Colposcopy:

Before VIA:



After VIA:



# Histopathology:

|                           |            |     |        |                       |            |         |  |
|---------------------------|------------|-----|--------|-----------------------|------------|---------|--|
| Age                       | 21         | Sex | Female | Path.No               | 797        | Hosp.No |  |
| Date of Recieved Specimen | 16-02-2022 |     |        | Date of Report Issued | 27-02-2022 |         |  |
| Referred Department       | ع نسأ .    |     |        |                       |            |         |  |

**Clinical History**      Punch biopsy from cervix .

**Macroscopic Exam.**      Multiple tissue fragments ,blood clots , totally processed in 1block .

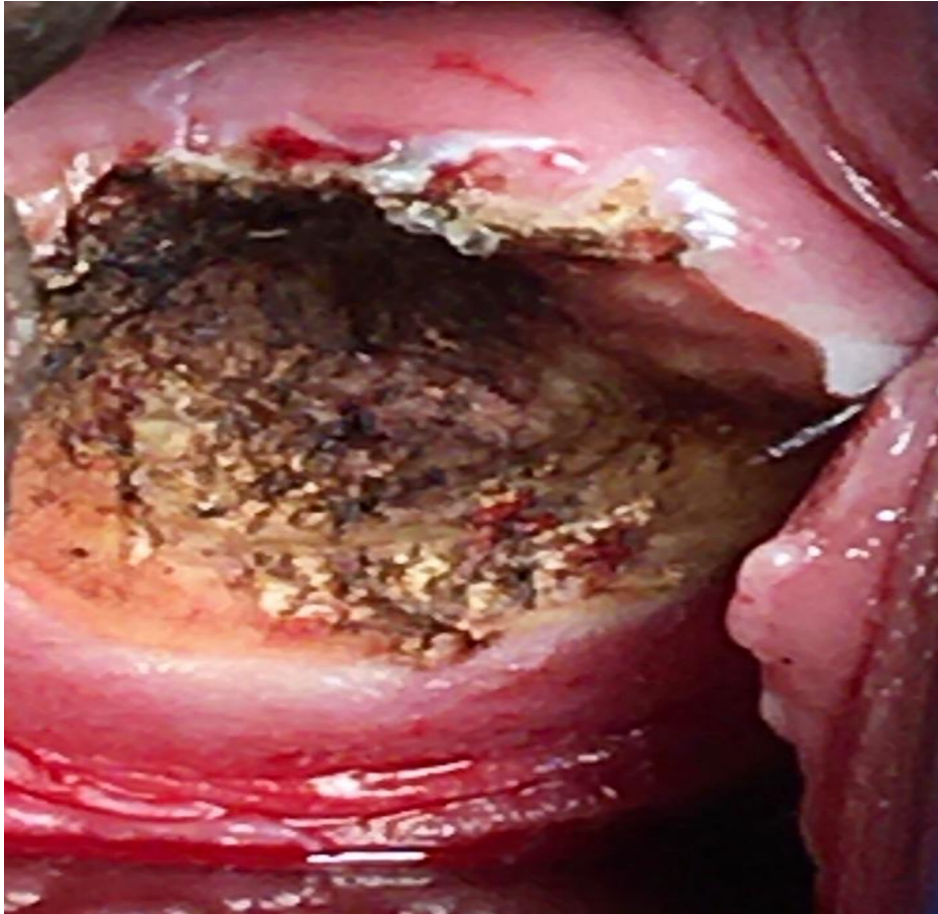
**Microscopic Exam.**      Sections prepared revealed multiple snips of ecto and endo cervix with endocervix formed of glands lined by mucin secreting columnar cells with underlying chronic inflammatory cells and fibrosis .  
ectocervix formed of stratified squamous epithelium with underlying inflammatory cells  
-squamous epithelium show focal dysplastic changes involving lower part of squamous epithelium with cytoplasmic maturation in upper part of mucosa .  
dysplastic changes include crowding of cells ,irregularities in arrangment with increased nuclear to cytoplasmic nuclear enlargment ,inconspicans neucleoli with slight irregularity of membrane with detected mitotic figures .

**Diagnosis**      -Suspicious for CIN II (HSIL)  
IHC for P16 ,Ki67 is needed for confirmation and final diagnosis .

**Signature**



# Management: Modified LEEP





## Case 2

### • History:

- 35 years old.
- Para 2 (VD)

### Complaint:

- Asymptomatic  
(accidentally  
discovered during  
vaginal examination)

### Contraception:

- COC (9 Years)

# Colposcopy:

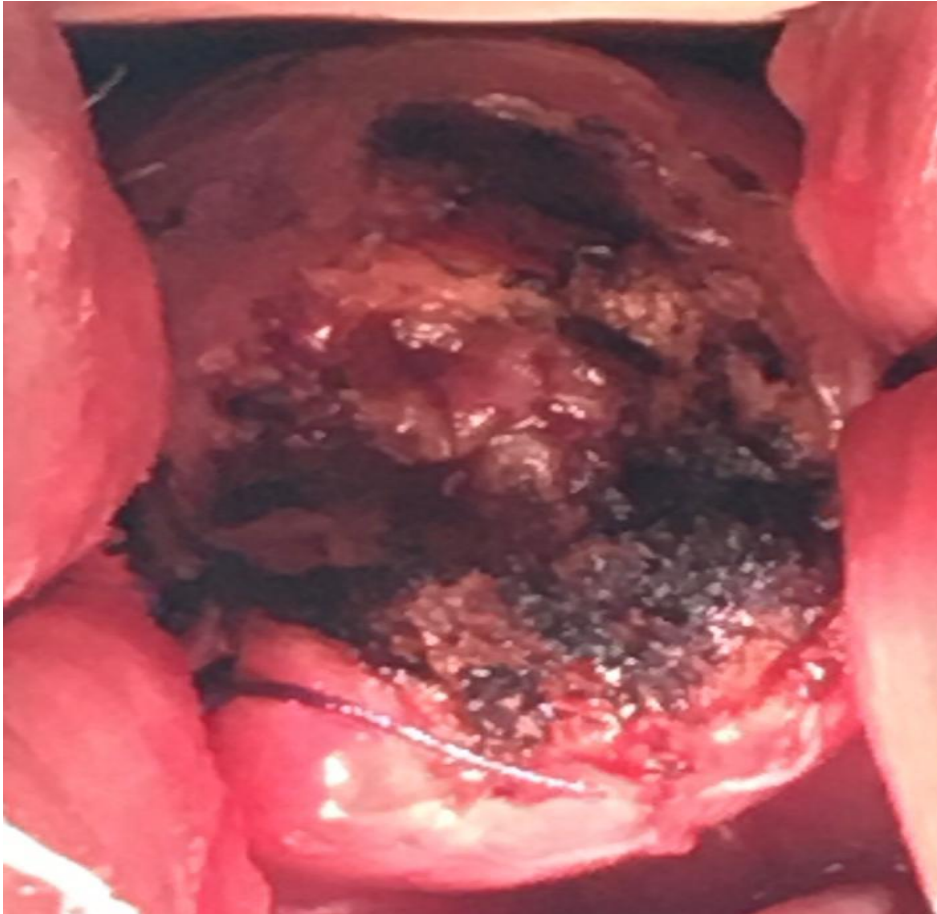


# Histopathology:

OncologyPathology, requested at 10/1/2023 12:03:00 PM, Sample No. 394315

|                         |                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gross Report</b>     |                                                                                                                                                                                                                                                                                                                                                                |
| Images                  |                                                                                                                                                                                                                                                                                                                                                                |
| Clinical History        | <b>suspicious cervix</b>                                                                                                                                                                                                                                                                                                                                       |
| Gross Appearance        | <b>- Multiple tissue fragments, totally processed.</b>                                                                                                                                                                                                                                                                                                         |
| Block abbreviation      | <b>No</b>                                                                                                                                                                                                                                                                                                                                                      |
| Date                    | <b>29/01/2023</b>                                                                                                                                                                                                                                                                                                                                              |
| Doctor                  | <b>Dr. Maddonna Ibrahim William Ibrahim</b>                                                                                                                                                                                                                                                                                                                    |
| <b>Final Report</b>     |                                                                                                                                                                                                                                                                                                                                                                |
| Microscopic Examination | <b>- Sections prepared revealed snips of cervical tissue( endocervical glands &amp; ectocervix).<br/>Snips of ectocervix show two small foci of loss of polarity of lower 2/3, with dark hyperchromatic irregular nuclei &amp; mitotic figures also seen.<br/>Other snips of endocervical gland with surrounding inflammation &amp; congested capillaries.</b> |
| Diagnosis               | <b>- Focal CINI/ II on a background of viral cytologic changes.<br/>- Recommended for follow up &amp; another biopsy for confirmation.</b>                                                                                                                                                                                                                     |
| Result Date             | <b>29/01/2023 11:05 AM</b>                                                                                                                                                                                                                                                                                                                                     |
| Doctors                 | <b>Prof. Azza Abd El Aziz Abd El Hamid<br/>Assist Prof. Sylvia Albair Asham Allah<br/>Assist Prof. Shaimaa Mohammed Ibrahim Yousef</b>                                                                                                                                                                                                                         |

# Management: Modified LEEP



# Postoperative Histopathology:

OncologyPathology, requested at 13/3/2023 03:25:00 AM, Sample No. 3941817

|                         |                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gross Report</b>     |                                                                                                                                                                                                                                      |
| Images                  |                                                                                                                                                                                                                                      |
| Clinical History        | <b>CIN II &gt;&gt; LEEP</b>                                                                                                                                                                                                          |
| Gross Appearance        | <b>specimen was received as multiple tissue fragments measuring 4x3cm collectively.<br/>They had firm greyish brown C/S totally processed in 2 blocks</b>                                                                            |
| Block abbreviation      | <b>No</b>                                                                                                                                                                                                                            |
| Date                    | <b>03/04/2023</b>                                                                                                                                                                                                                    |
| Doctor                  | <b>Prof. Nadia Abd-Elmoneam Nada</b>                                                                                                                                                                                                 |
| <b>Final Report</b>     |                                                                                                                                                                                                                                      |
| Microscopic Examination | <b>sections prepared revealed cervical tissue formed of ecto and endocervical tissue ,ectocervical tissue show stratified squamous epithelium with focal basal nuclear stratification ,some dark hyper chromatic enlarged nuclei</b> |
| Diagnosis               | <b>Mild cervicitis with focal CIN I</b>                                                                                                                                                                                              |
| Result Date             | <b>03/04/2023 10:26 AM</b>                                                                                                                                                                                                           |
| Doctors                 | <b>Prof. Nadia Abd-Elmoneam Nada</b>                                                                                                                                                                                                 |



## Case 3

### • History:

- 28 years old
- Para 2(VD)

### Complaint:

lower abdominal pain  
and low backache

### Contraception:

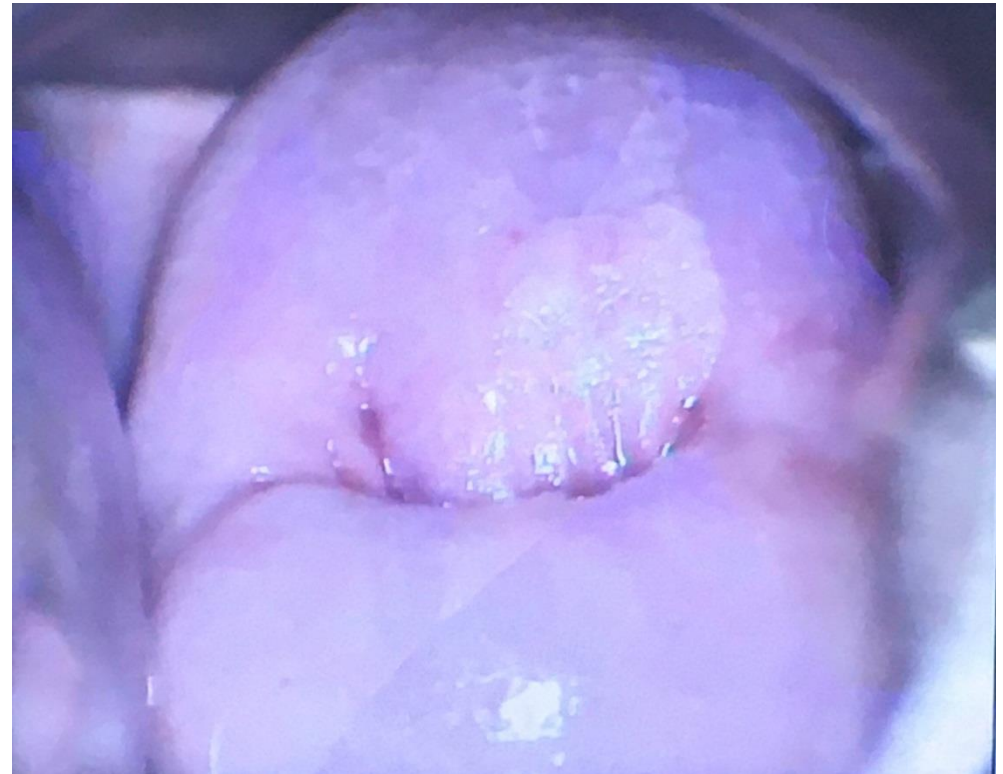
LAI (Depo-  
provera)

# Colposcopy

Before VIA



After VIA:



# Histopathology:

|                                  |            |            |                              |                |      |                |  |
|----------------------------------|------------|------------|------------------------------|----------------|------|----------------|--|
| <b>Age</b>                       | 28         | <b>Sex</b> | Female                       | <b>Path.No</b> | 1874 | <b>Hosp.No</b> |  |
| <b>Date of Recieved Specimen</b> | 18-04-2022 |            | <b>Date of Report Issued</b> | 24-04-2022     |      |                |  |
| <b>Referred Department</b>       | Revision   |            |                              |                |      |                |  |

**Clinical History**      Chronic cervicitis ,suspicious areas

**Macroscopic Exam.**      Revision of slides labelled 1541-22

**Microscopic Exam.**      Sections prepared revealed snips of ectocervical mucosa .The transformation zone is not seen.  
There is preserved polarity of the basal cell layer . The superficial & intermediate cell layers show many koilocytic cells that exhibit nuclear enlargement , hyperchromasia with irregular nuclear membrane & perinuclear halo together with some binucleated forms.  
No evidence of invasion tumour tissue in the examined material

**Diagnosis**      Low grade squamous intraepithelial lesion (LSIL) / ( CIN1)

**Signature**

**Dr. Amany Hassan**

**Dr. Sylvia Albair Ashammallah**

**Dr.Amal Elshahat Elsayed**

## Case 4

### • **History:**

- 29 years old.
- 3<sup>rd</sup> para (VD)

### • **Complaint:**

- Recurrent vaginal discharge

### • **Contraception:**

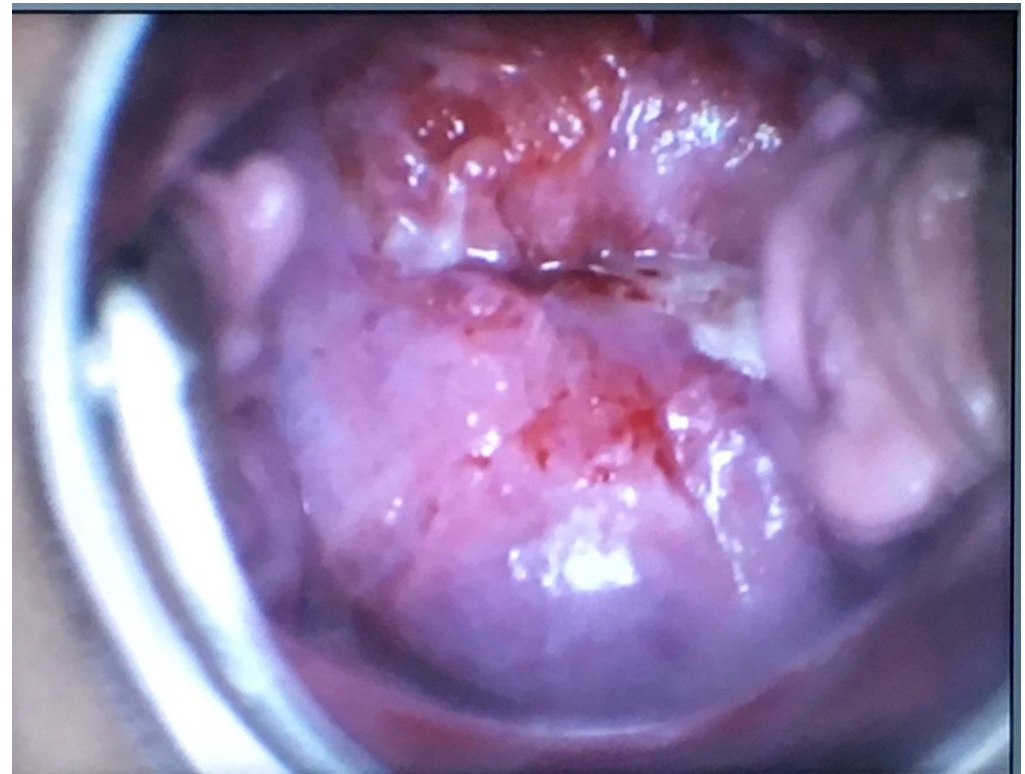
- IUD (4y) then COC (4 m)

# Colposcopy

Before VIA



After VIA:





# Histopathology:

|                                  |  |            |        |                              |      |                |  |
|----------------------------------|--|------------|--------|------------------------------|------|----------------|--|
| <b>Age</b>                       |  | <b>Sex</b> | Female | <b>Path.No</b>               | 1409 | <b>Hosp.No</b> |  |
| <b>Date of Recieved Specimen</b> |  | 19-03-2022 |        | <b>Date of Report Issued</b> |      | 30-03-2022     |  |
| <b>Referred Department</b>       |  | ع نسا      |        |                              |      |                |  |

**Clinical History** Cervical punch biopsy

**Macroscopic Exam.** Small tissue fragments, totally processed .

**Microscopic Exam.** Sections prepared revealed snips of ectocervical & endocervical tissue ,the transformation zone is present .The ectocervical tissue & metaplastic squamous tissue show preserved polarity of the basal cell layer while the intermediate & superficial cells show scattered cells with larger nuclei with irregular nuclear membrane & perinuclear halo (koilocytes).  
No evidence of invasive tumor tissue in the examined material .

**Diagnosis** Low grade squamous intraepithelial lesion (CSIL)/ cervical intraepithelial neoplasia (CIN1).

**Signature**

## Case 5

### • **History:**

- 44 years old
- Para 5 (VD)

### **Complaint:**

Post-coital bleeding  
for 1year

### **Contraception:**

IUD user

# Colposcopy



- **Marked vascular changes:**

- Punctations

- Mosaicism

- Prominent vessels

# Histopathology:

OncologyPathology, requested at 20/11/2022 01:46:00 PM,Sample No. 2944447

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gross Report</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Images                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Clinical History        | <b>SUSPICIOUS CERVIX + THICKENED ENDOMETRIUM et19 MM<br/>1 NOVAC<br/>2 PUNCH</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gross Appearance        | .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Block abbreviation      | <b>No</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Date                    | <b>07/12/2022</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Doctor                  | <b>Prof. Wagdi Fawzy El Kashef</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Final Report</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Microscopic Examination | <b>sp1 novac :sections prepared revealed snips of endometrial tissue showing endometrial glands lined by columnar cells with sub &amp; supra nuclear vacuoles, the stroma is formed of ovoid /spindle stromal cells &amp; show edema.<br/>sp2 sections prepared revealed snips of ectocervical squamous mucosa showing koilocytes, the basal cells show hyperplasia with moderate degree of atypia &amp; pleomorphism, involving two thirds of the thickness of the mucosa.<br/>Ki-67: positive nuclear reaction in the proliferation.</b> |
| Diagnosis               | <b>sp(1) novac biopsy: Irregular endometrial response.<br/>sp2 : punch biopsy: picture suggestive of cervical intraepithelial neoplasia grade II, (CIN II), however immunohistochemistry for P16 is recommended for confirmation. ( Not available in our lab).</b>                                                                                                                                                                                                                                                                         |
| Result Date             | <b>07/12/2022 11:43 AM</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Doctors                 | <b>Prof. Ibrahim El Desouky Mohammed<br/>Dr. Manar Ahmed</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |



## Case 5

### • History:

- 28 years old
- Para 3 (VD)

### Complaint:

- Post-coital bleeding for 1 y.
- Recurrent vaginal discharge.

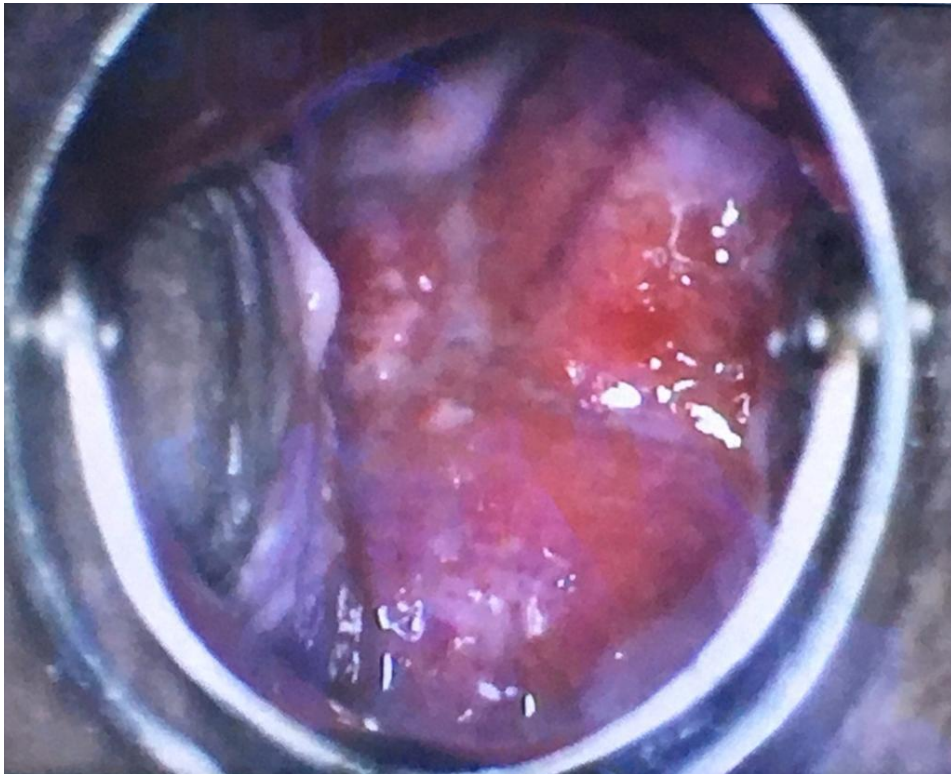
### Contraception:

Implanon user

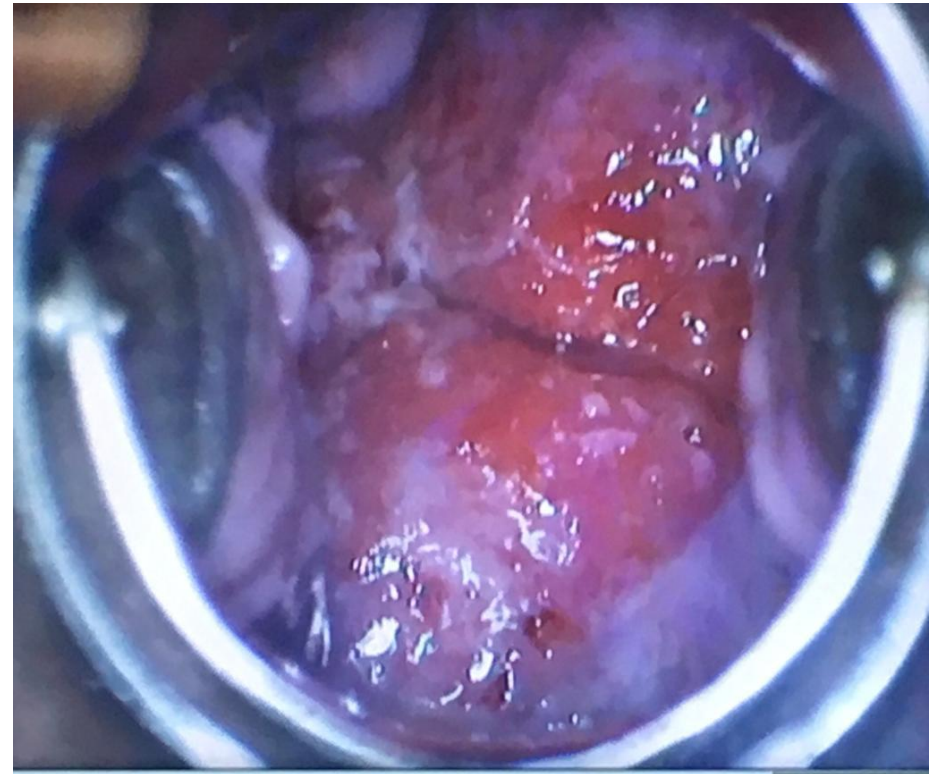


# Colposcopy

Before VIA



After VIA:



## Histopathology (after punch):

Clinical History: .C10: PCB

- Implantation

- Suspicious cervix, positive VIA test, bleeding on touch, colposcopy biopsy

### Macroscopic Picture:

Specimen received in formalin labeled with patient name; small fragments of whitish tissue ~ 3x2mm.

(All processed in one cassette)

### Microscopic Picture:

Examination of slides prepared revealed markedly inflamed ecto-cervical tissue. The covering squamous epithelial cells show focal areas with moderate pleomorphism and atypia with occasional atypical mitotic figures.

### Diagnosis:

Suspicious cervix, positive VIA test, bleeding on touch, colposcopy biopsy;

- **Marked non-specific cervicitis with grade II cervical intraepithelial neoplasia (CIN II).**
- See comment.

# Modified LEEP-Postoperative histopathology:

OncologyPathology, requested at 16/1/2023 07:41:00 AM, Sample No. 394419

|                         |                                                                                                                                                                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gross Report</b>     |                                                                                                                                                                                                                                                                                                        |
| Images                  |                                                                                                                                                                                                                                                                                                        |
| Clinical History        | <b>AUB-M , cervical intraepithelial neoplasia &gt;&gt; LEEP</b>                                                                                                                                                                                                                                        |
| Gross Appearance        | <b>- 2 unlabeled specimens<br/>-Specimen 1 : received as two piece of cervix each measures 3x1.5 and 1.5x1cm. Totally processed in 3 blocks.<br/>-Specimen 2 : received as fragmented cervical tissue. Some have firm whitish cut surface.</b>                                                         |
| Block abbreviation      | <b>No</b>                                                                                                                                                                                                                                                                                              |
| Date                    | <b>29/01/2023</b>                                                                                                                                                                                                                                                                                      |
| Doctor                  | <b>Dr. Nehal Hisham</b>                                                                                                                                                                                                                                                                                |
| <b>Final Report</b>     |                                                                                                                                                                                                                                                                                                        |
| Microscopic Examination | <b>-Sections prepared from both specimen (1)&amp;(2) revealed both ecto and endocervical tissue, where ectocervix show normal squamous maturation.<br/>-Endocervix revealed multiple dilated endocervical glands lined by columnar mucin secreting cells with surrounding inflammatory infiltrate.</b> |
| Diagnosis               | <b>-Polypoid cervicitis.<br/>-No evidence of atypia or malignancy in sent specimen.</b>                                                                                                                                                                                                                |
| Result Date             | <b>29/01/2023 10:22 AM</b>                                                                                                                                                                                                                                                                             |
| Doctors                 | <b>Prof. Dina Abd El Aziz El Tantawy<br/><br/>Dr. Heba Abd El Aziz Sheta</b>                                                                                                                                                                                                                           |



## Case 6

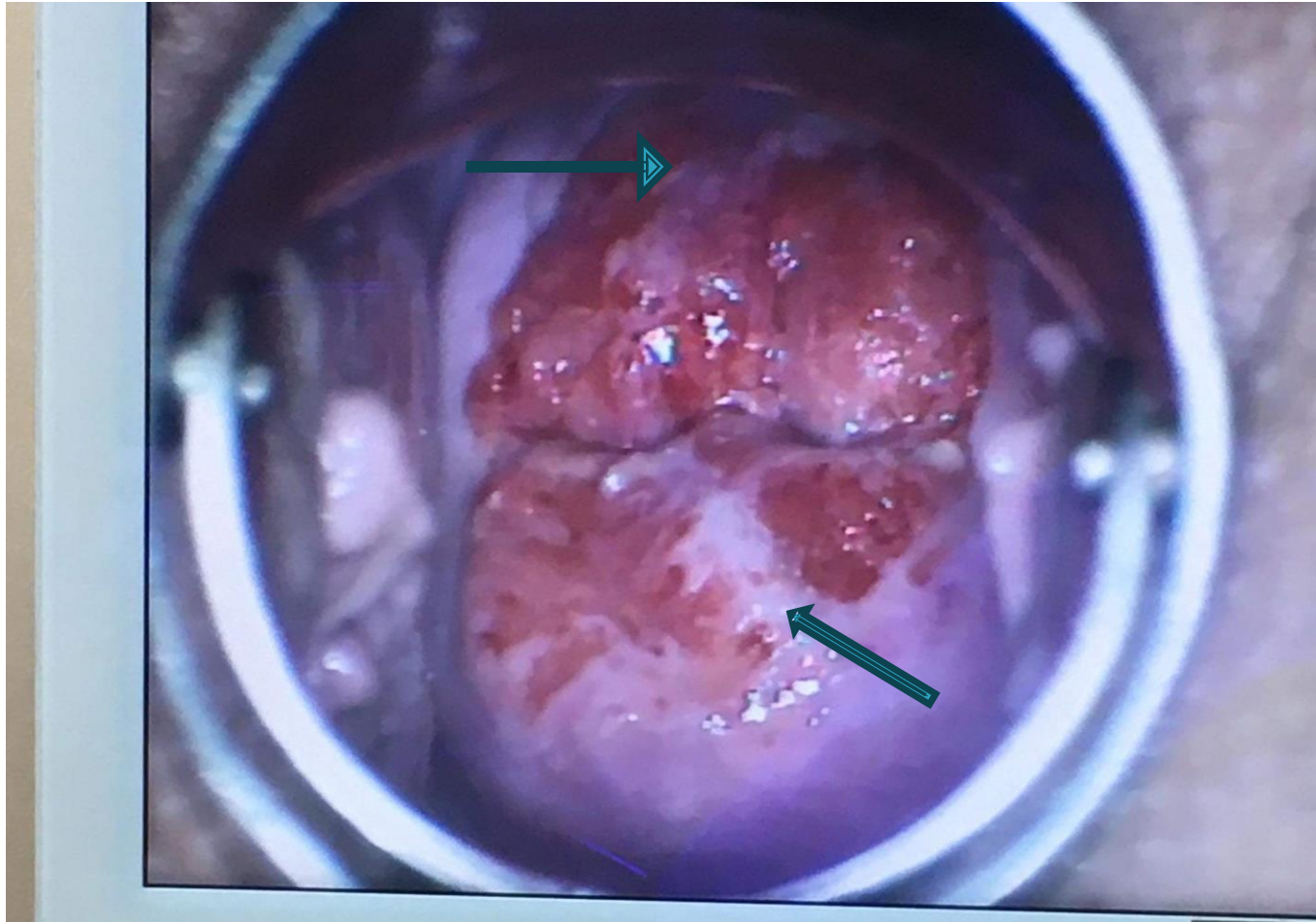
- P4, 42 years old female.
- C/O: Persistent mucopurulent vaginal discharge.
- Multiple uterine fibroids.
- **Colposcopy:**

Mild ectocervical changes.

Polypoid endocervix.

Positive VIA test.

# Cervical glandular intraepithelial neoplasia (CGIN)



# Double lesions (endometrial focal atypia + CIN II)

## Clinical History:

HGSIL, uterine fibroid, TAH&BSO

## Macroscopic Picture:

Specimen received in formalin labeled with patient name; on examination; uterus, & both adnexa. The uterus is enlarged ~14x9cm with preserved shape & bisected cervix. The endometrial cavity is small & disturbed by to intramural fibroids ~ 10x7 & 5x3cm. Cervix showed two hemorrhagic foci. Both adnexa are unremarkable

(cassette 1; myometrium, fibroids, cassette 2; cervix cassette 3 both adnexa )

## Microscopic Description:

Examination of prepared slides from fibroids revealed tumor tissue formed of interlacing bundles of spindle cells and smooth muscle fibers. Neoplastic cells show cigar shape nuclei. These exhibit mild degree of nuclear atypia with no detected mitoses. Prepared slides from endometrium showed hyperplastic endometrial glands with focal atypia. The cervix showed moderate atypical changes involving 2/3 of ectocervical thickness.

## Diagnosis:

HGSIL, uterine fibroid, TAH&BSO;

Endometrium;

- **Endometrial hyperplasia with focal atypia.**

Myometrium;

- **Two intramural Leiomyoma (the largest is ~10x7cm).**

Cervix;

- CIN II changes.

Right adnexa;

- Unremarkable (non-functioning ovary).

Left adnexa;

- Unremarkable (non-functioning ovary).



A scenic view of a lake framed by trees. The water is calm and reflects the sky. The foreground shows a sandy shore with a log. The text "THANK YOU!" is overlaid in the center of the image.

**THANK YOU!**



Contact.

Mobile 01008622573

Email. [redaelshouky@hotmail.com](mailto:redaelshouky@hotmail.com)

