Appendix 1

FIGO staging of cervical carcinomas

Stage I
Stage I is carcinoma strictly confined to the cervix; extension to the uterine corpus should be disregarded. The diagnosis of both Stages IA1 and IA2 should be based on microscopic examination of removed tissue, preferably a cone, which must include the entire lesion.

Stage IA:
Invasive cancer identified only microscopically. Invasion is limited to measured stromal invasion with a maximum depth of 5 mm and no wider than 7 mm.

Stage IA1:
Measured invasion of the stroma no greater than 3 mm in depth and no wider than 7 mm diameter.

Stage IA2:
Measured invasion of stroma greater than 3 mm but no greater than 5 mm in depth and no wider than 7 mm in diameter.

Stage IB:
Clinical lesions confined to the cervix or preclinical lesions greater than Stage IA. All gross lesions even with superficial invasion are Stage IB cancers.

Stage IB1:
Clinical lesions no greater than 4 cm in size.

Stage IB2:
Clinical lesions greater than 4 cm in size.

Stage II
Stage II is carcinoma that extends beyond the cervix, but does not extend into the pelvic wall. The carcinoma involves the vagina, but not as far as the lower third.

Stage IIA:
No obvious parametrial involvement. Involvement of up to the upper two-thirds of the vagina.

Stage IIB:
Obvious parametrial involvement, but not into the pelvic sidewall.

Stage III
Stage III is carcinoma that has extended into the pelvic sidewall. On rectal examination, there is no cancer-free space between the tumour and the pelvic sidewall. The tumour involves the lower third of the vagina. All cases with hydronephrosis or a non-functioning kidney are Stage III cancers.

Stage IIIA:
No extension into the pelvic sidewall but involvement of the lower third of the vagina.

Stage IIIB:
Extension into the pelvic sidewall or hydronephrosis or non-functioning kidney.
Stage IV
Stage IV is carcinoma that has extended beyond the true pelvis or has clinically involved the mucosa of the bladder and/or rectum.

Stage IVA: Spread of the tumour into adjacent pelvic organs.
Stage IVB: Spread to distant organs.

The doctor/health worker explained to me in detail about the vinegar (VIA)/iodine (VILI) test(s)* for the early detection and prevention of cancer in the neck of my womb (uterine cervix). I understand that the surface of my cervix will be visually inspected after application of 5% acetic acid/dilute iodine solution to detect or to exclude precancer/cancer. I understand that these procedures are generally harmless, but may occasionally cause some irritation or mild bleeding, which can be easily controlled.

I understand that, if the test is positive, other tests such as magnified inspection of the cervix with an instrument called a colposcope and examination of a sample of the tissue in my cervix (biopsy) may be recommended before treatment is provided. I have been informed that treatment by medicines or cryotherapy (destroying the diseased portion of the cervix by an ice-cold metal probe) or removing the diseased portion by minor surgery or major surgery and/or treatment with x-rays, may be required, in the event of any abnormality (infection or precancer or cancer or complications) being detected.

I hereby express my willingness to undergo the above tests and treatment, if advised.* / I am not willing to undergo the above procedures. *

Signature:

Date:

Name:

Address:

* Delete as appropriate
Appendix 3

Format for reporting results of VIA and VILI

Screening with VIA and VILI

1. Clinic/Serial/Unique number ______________

2. Date of testing [ ]-[ ]-[ ]-[ ]-[ ]-[ ]
   (day (2 digits)-month (2 digits)-year (2 digits)):

3. Name: ______________________________________________________________

4. Address: ____________________________________________________________
   ______________________________________________________________________

5. Age (in years) [ ]-[ ]

6. Education (1: Nil; 2: Primary; 3: Middle;
   4: High school; 5: College; 9: Not known) [ ]

7. When did you have your last menstruation?
   (1: Less than 12 months ago; 2: More than 12 months ago) [ ]

8. Marital status: (1: Married; 2: Widowed; 3: Separated;
   8: Other; 9: Not known) [ ]

9. Age at marriage or first sexual intercourse: (99, if not known) [ ]-[ ]

10. Total number of pregnancies/miscarriages: [ ]-[ ]

11. Do you suffer from the following?
    (use ✓ to indicate if the response is yes; otherwise, leave blank):
    □ Excessive vaginal discharge
    □ Itching in the external anogenitalia
    □ Ulcers in the external anogenitalia
    □ Lower abdominal pain
    □ Pain during sexual intercourse
12. Visual examination findings
(use ✓ to indicate if the response is ‘Yes’, otherwise, leave blank):
- Squamocolumnar junction fully seen
- Cervical polyp
- Nabothian follicles
- Cervicitis
- Leukoplakia
- Condyloma
- Growth

13. Findings one minute after application of 5% acetic acid (VIA)
   (1: Negative; 2: Positive; 3: Positive, invasive cancer) [ ]

14. If VIA positive, does the acetowhite lesion extend into the endocervical canal?
   (1: Yes; 2: No) [ ]

15. If VIA positive, how many quadrants are involved in the acetowhite lesion(s)?
   (1: Two or less; 2: Three; 3: Four quadrants) [ ]

16. Diagram
   (Draw the location of the squamocolumnar junction with a dotted line and the
    acetowhite/iodine non-uptake area(s) as a continuous line)

17. Findings after application of Lugol's iodine (VILI)
   (1: Negative; 2: Positive; 3: Positive, invasive cancer) [ ]

18. If invasive cancer, stage (1: IA; 2: IB; 3: IIA; 4: IIB; 5: IIIA; 6: IIIB; 7: IVA; 8: IVB; 9: Not known) [ ]
(If yes, indicate the biopsy site(s) in the diagram with ‘x’ mark) 

20. Action taken: (1: Advised follow-up after five years;  
2: Advised medication for cervicitis and follow-up after six months;  
3: Referred for colposcopy; 4: Referred for immediate treatment;  
5: Referred for staging and treatment of invasive cancer;  
6: Other, specify _________________________)
### Cleaning and sterilization of instruments and materials used for early detection and treatment of cervical neoplasia:

<table>
<thead>
<tr>
<th>Instrument/material</th>
<th>Processing</th>
<th>Suggested procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vaginal speculum, vaginal retractors, biopsy forceps, toothed forceps, ring forceps, Cheatle’s forceps.</td>
<td>Decontamination and cleaning followed by sterilization or HLD.</td>
<td>Decontamination by immersing in 0.5% chlorine for 10 minutes followed by cleaning with water and detergents; cleaned instruments may be immersed in boiling water for 20 minutes (high-level disinfection) or may be sterilized using autoclave before re-use.</td>
</tr>
<tr>
<td>Gloves.</td>
<td>Decontamination and cleaning followed by sterilization.</td>
<td>Decontamination by immersing in 0.5% chlorine for 10 minutes followed by cleaning with water and detergents; sterilized using an autoclave in wrapped packs.</td>
</tr>
<tr>
<td>Examination table, halogen lamp, torch lights, instrument trolley, trays.</td>
<td>Intermediate or low-level disinfection.</td>
<td>Wipe with 60-90% ethyl or isopropyl alcohol or with 0.5% chlorine solution.</td>
</tr>
</tbody>
</table>

HLD: High-level disinfection
**Preparation of 0.5% chlorine solution:**

The general formula for making a dilute chlorine solution from a commercial preparation of any given concentration is as follows: Total parts of water = [% concentrate/% dilute] -1. For example, to make a 0.5% dilute solution of chlorine from 5% concentrated liquid household bleach = [5.0%/0.5%] -1 = 10-1 = 9 parts of water; hence add one part of concentrated bleach to nine parts of water.

If one is using commercially available dry powder chlorine, use the following formula to calculate the amount (in grams) of dry powder required to make 0.5% chlorine solution:

\[ \text{Grams/litre} = \left( \frac{\% \text{ dilute}}{\% \text{ concentrate}} \right) \times 1000 \]

For example, to make a 0.5% dilute chlorine solution from a dry powder of 35% calcium hypochlorite = \( \frac{0.5%/35\%}{35\%} \times 1000 \approx 14.2 \) g. Hence add 14.2 grams of dry powder to 1 litre of water or 142 grams to 10 litres of water. The instruments should not be left in dilute bleach for more than 10 minutes and should be cleaned in boiled water immediately after decontamination to prevent discolouration and corrosion of metal.

**Decontamination of the floor of the screening clinic:**

The floor of the screening clinic should be decontaminated on a daily basis with chemical disinfectants including iodophores (e.g., 10% povidone iodine).
Appendix 5

Preparation of 5% acetic acid, Lugol’s iodine solution, and Monsel’s paste

5% dilute acetic acid

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Glacial acetic acid</td>
<td>5 ml</td>
</tr>
<tr>
<td>2. Distilled water</td>
<td>95 ml</td>
</tr>
</tbody>
</table>

**Preparation**
Carefully add 5 ml of glacial acetic acid into 95 ml of distilled water and mix thoroughly.

**Storage:** Unused acetic acid should be discarded at the end of the day.

**Label:** 5% dilute acetic acid

**Note:** It is important to remember to dilute the glacial acetic acid, since the undiluted strength causes a severe chemical burn if applied to the epithelium.

Lugol’s iodine solution

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Potassium iodide</td>
<td>10 g</td>
</tr>
<tr>
<td>2. Distilled water</td>
<td>100 ml</td>
</tr>
<tr>
<td>3. Iodine crystals</td>
<td>5 g</td>
</tr>
</tbody>
</table>

**Preparation**
A. Dissolve 10 g potassium iodide in 100 ml of distilled water.
B. Slowly add 5 g iodine crystals, while shaking.
C. Filter and store in a tightly stoppered brown bottle.

**Storage:** 1 month

**Label:** Lugol’s iodine solution; Use by (date)
Monsel’s paste

**Ingredients**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Ferric sulfate base</td>
<td>15 g</td>
</tr>
<tr>
<td>2. Ferrous sulfate powder</td>
<td>a few grains</td>
</tr>
<tr>
<td>3. Sterile water for mixing</td>
<td>10 ml</td>
</tr>
<tr>
<td>4. Glycerol starch (see preparation below)</td>
<td>12 g</td>
</tr>
</tbody>
</table>

**Preparation**

*Take care: The reaction is exothermic (emits heat).*

A. Add a few grains of ferrous sulfate powder to 10 ml of sterile water in a glass beaker. Shake.

B. Dissolve the ferric sulfate base in the solution by stirring with a glass stick. The solution should become crystal clear.

C. Weigh the glycerol starch in a glass mortar. Mix well.

D. Slowly add ferric sulfate solution to glycerol starch, constantly mixing to get a homogeneous mixture.

E. Place in a 25 ml brown glass bottle.

F. For clinical use, most clinics prefer to allow enough evaporation to give the solution a sticky paste-like consistency that looks like mustard. This may take 2 to 3 weeks, depending on the environment. The top of the container can then be secured for storage. If necessary, sterile water can be added to the paste to thin it.

*Note: This preparation contains 15% elementary iron.*

**Storage:** 6 months

**Label:** Monsel’s solution; Shake well; External use only; Use by (date)

Glycerol starch (an ingredient in Monsel’s paste)

**Ingredients**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Starch</td>
<td>3 g</td>
</tr>
<tr>
<td>2. Sterile water for mixing</td>
<td>30 ml</td>
</tr>
<tr>
<td>3. Glycerine</td>
<td>390 g</td>
</tr>
</tbody>
</table>

**Preparation**

A. In a china crucible, dissolve the starch in the sterile water.

B. Add the glycerine. Shake well.

C. Heat the crucible and its contents over a bunsen burner. Mix constantly with a spatula until the mass takes on a thick, swelling consistency. Take care not to overheat so as not to let it turn yellow.
Storage: 1 year

Label: Glycerol starch; Store in a cool place; For external use only; Use by (date)

Note: Do not overheat, otherwise the mixture will turn yellow.
Suggestions for further reading


