

The Key Role of Medical Imaging in Cervical Cancer Management

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“Thanks to
radiotherapy
I had a **fair**
chance
against
cancer”



Together in the Fight against Cervical Cancer

Friday, 7 February 2020
Vienna International Centre



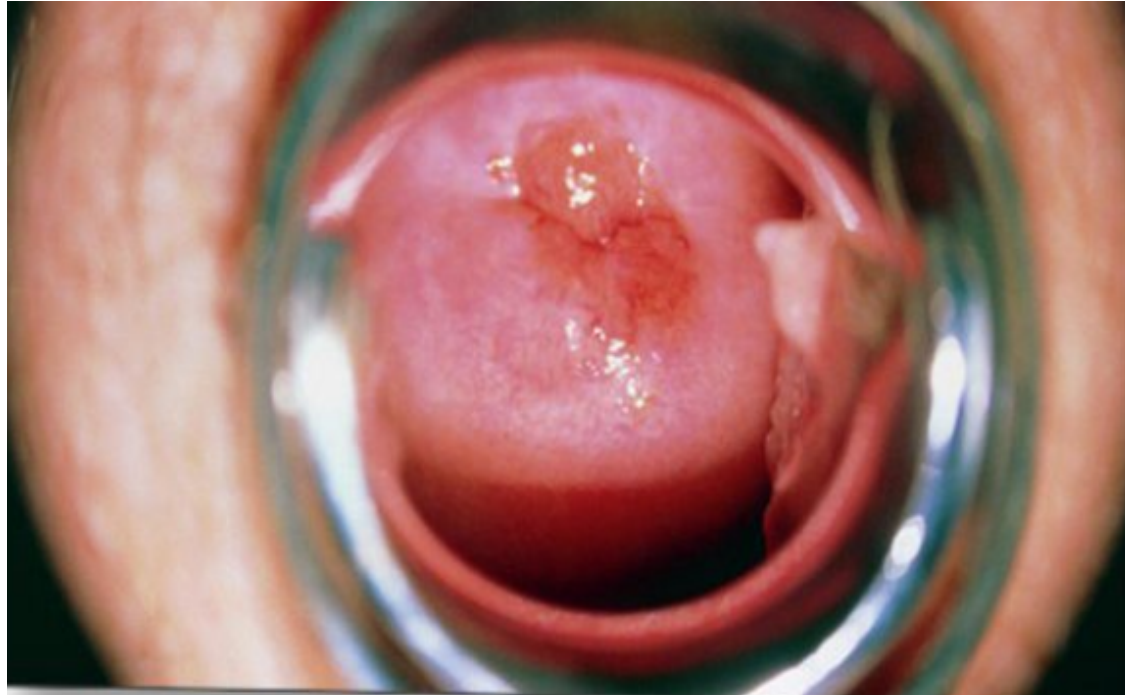
Patient clinical history

This 45 y.o. woman consults her gynaecologist for bleeding between menstruation cycles and vaginal discharge (leucorrhoea)

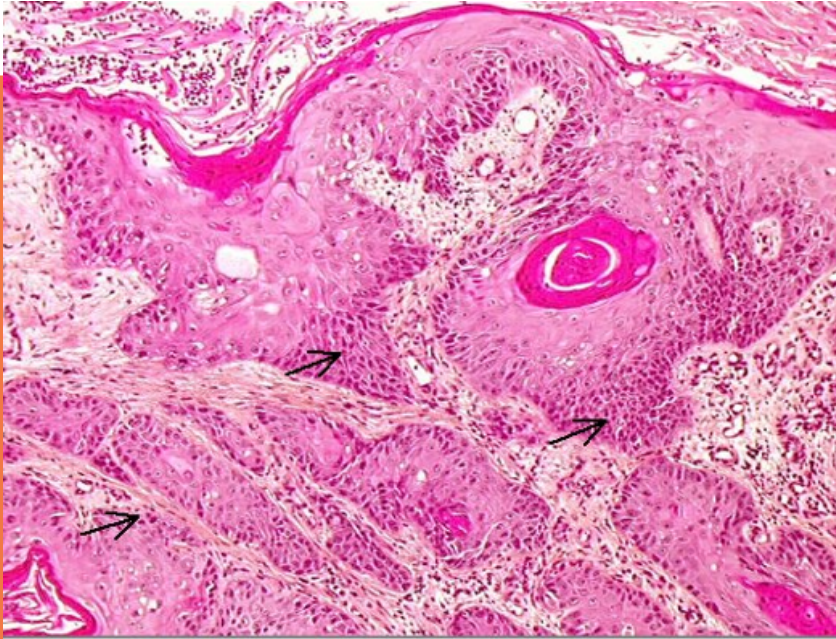


Visual examination (colposcopy)

Showned an ulcerated and bleeding lesion in the cervix

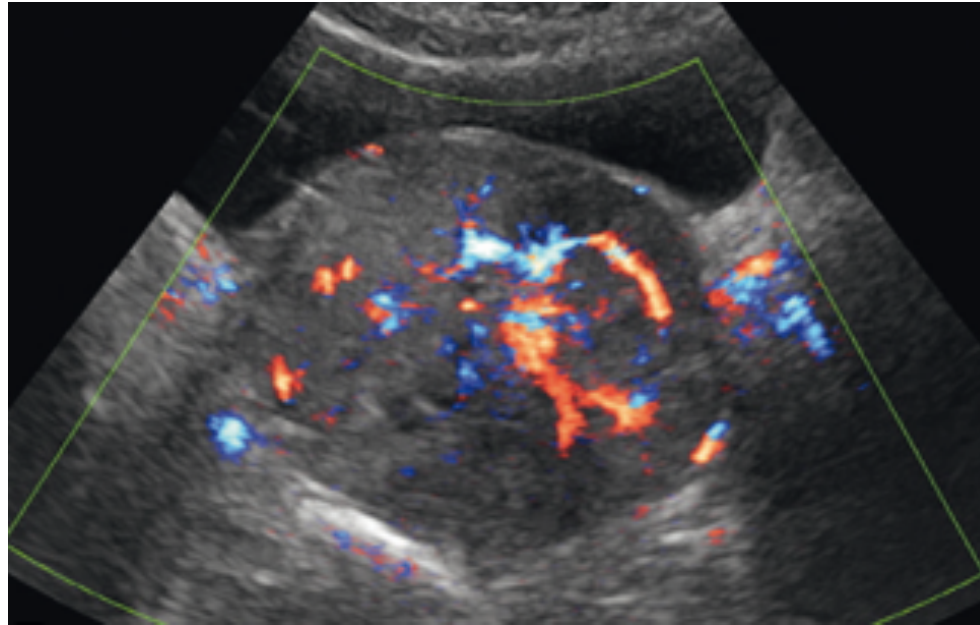


Biopsy and Pathology



**Reveals a tumour invading
the cervix**

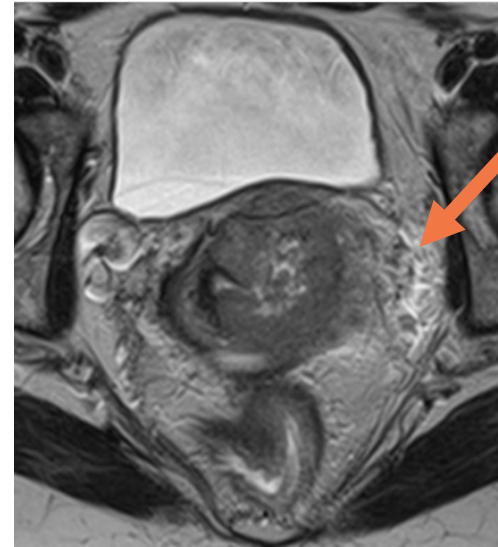
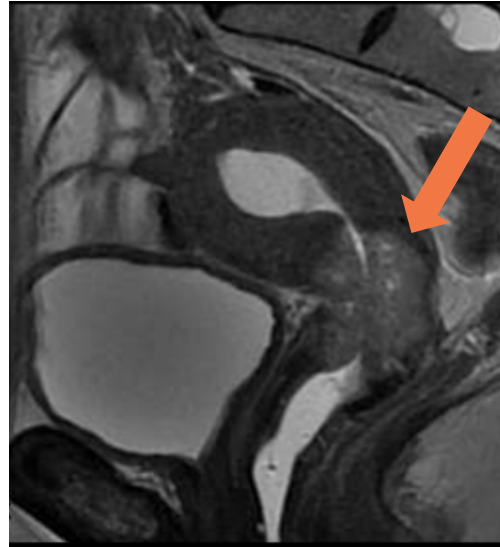
Transvaginal Ultrasound



**Showed a mass of the cervix that has concerning characteristics
(solid, hypoechoic, hyper vascular)**

Magnetic Resonance

HyperT2
mass of the
cervix

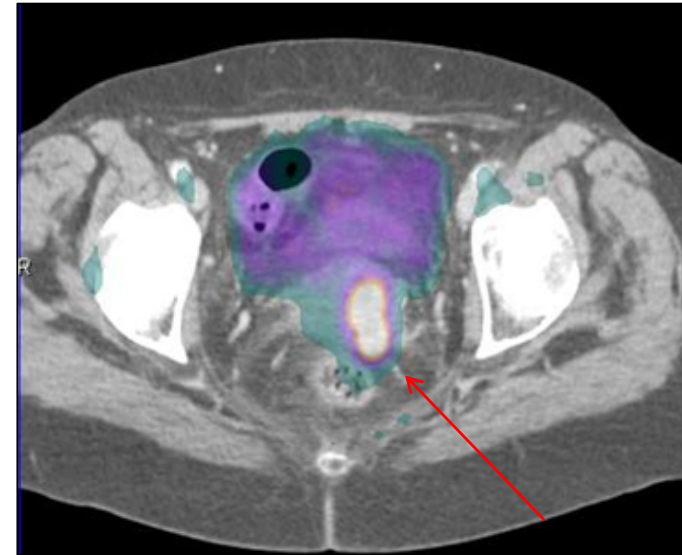
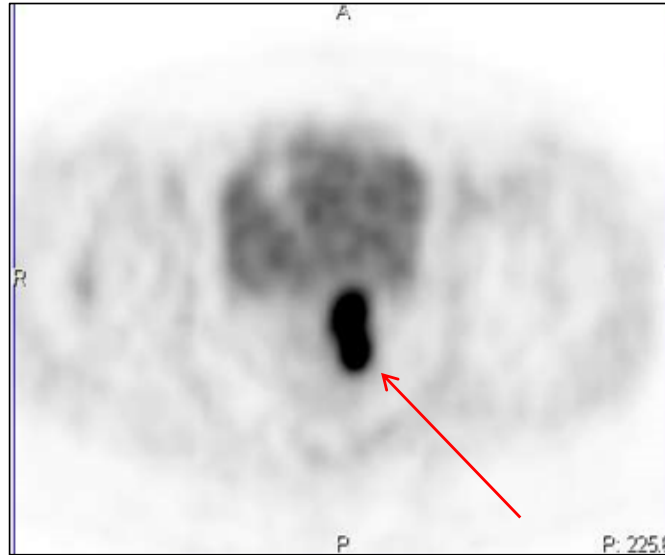
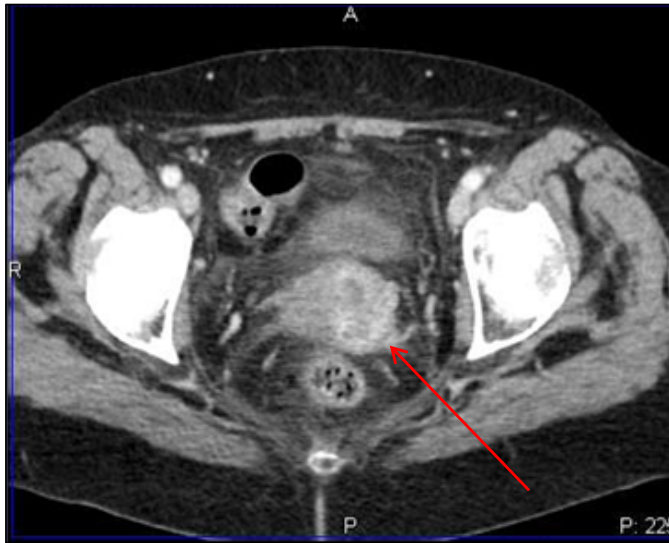


Invasion of
Left
parametrium

A pelvic MRI is performed to evaluate if there is the local extension beyond the cervix

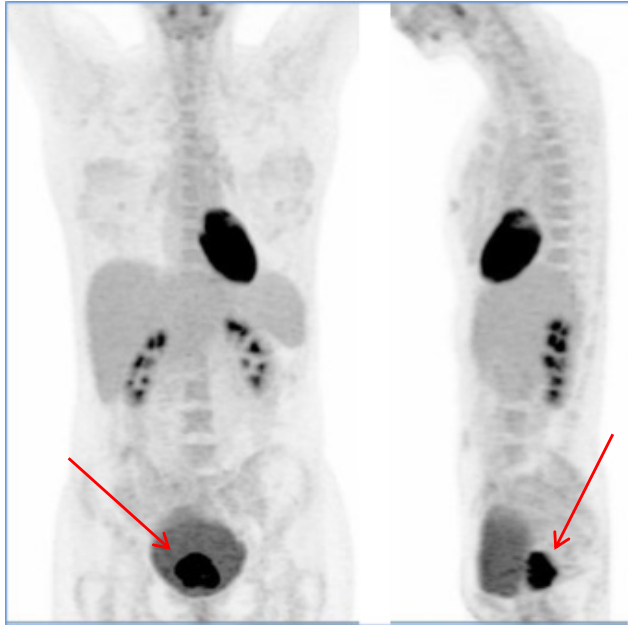
PET-CT study

Was performed to evaluate the extension of the tumor, beyond the pelvis



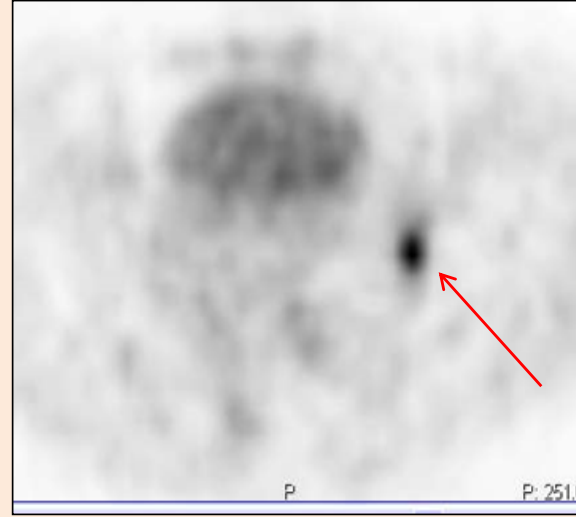
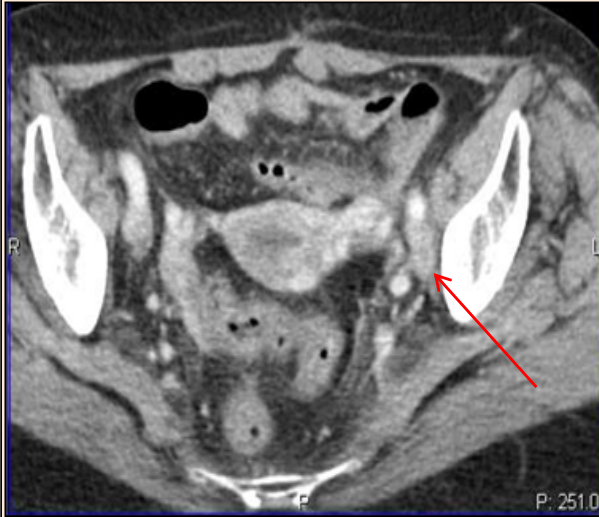
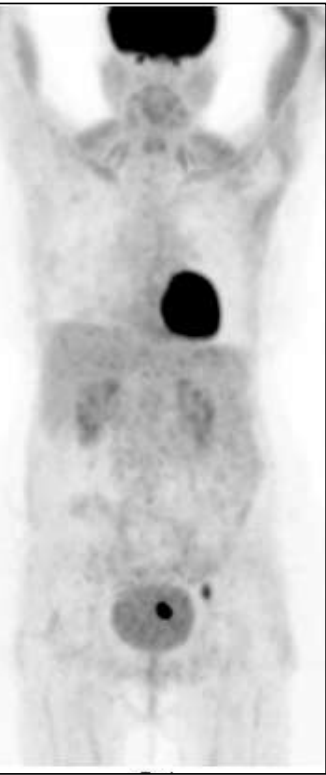
High FDG uptake by the cervical tumor

PET-CT study



- ❑ No lymph node involvement (N stage)
- ❑ No distant metastases (M stage)

Importance of PET-CT staging



High FDG uptake by the left pelvic metastatic lymph node
PET-CT identify a left pelvic lymph node involvement no distant metastases

TNM Cancer Staging App by IAEA



Android



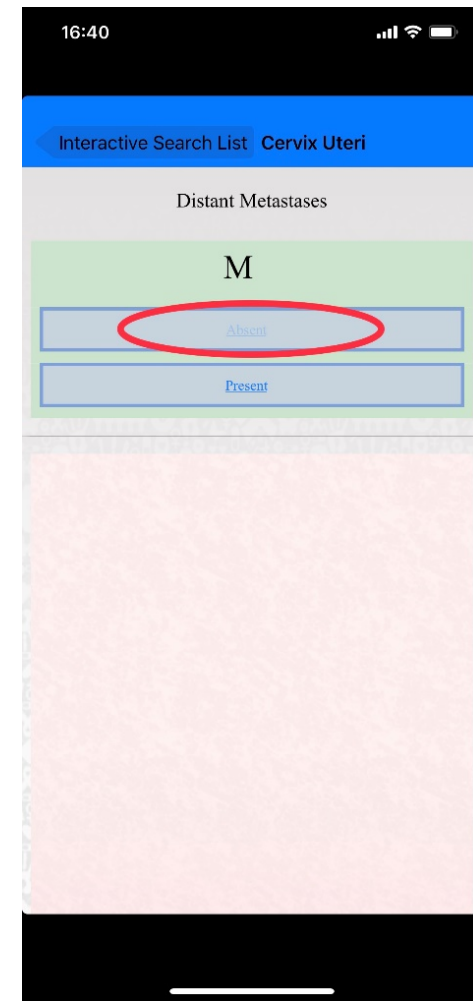
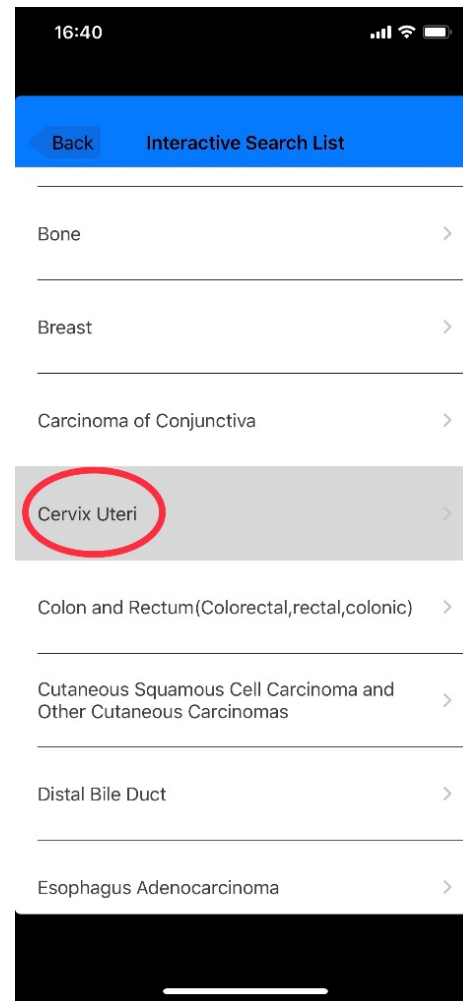
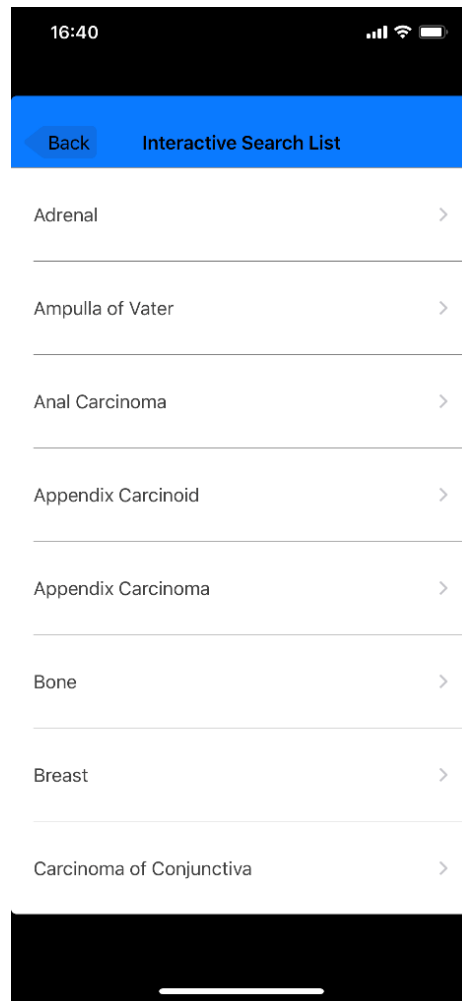
iPhone

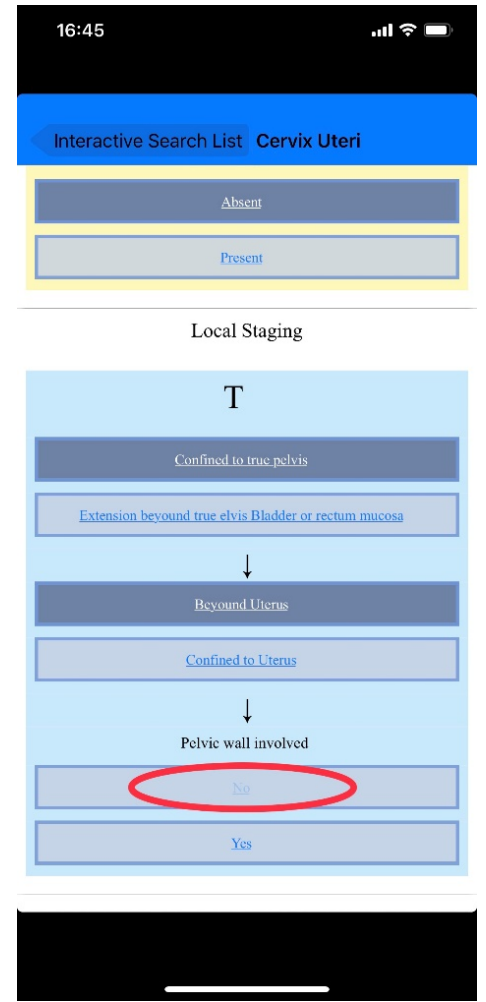
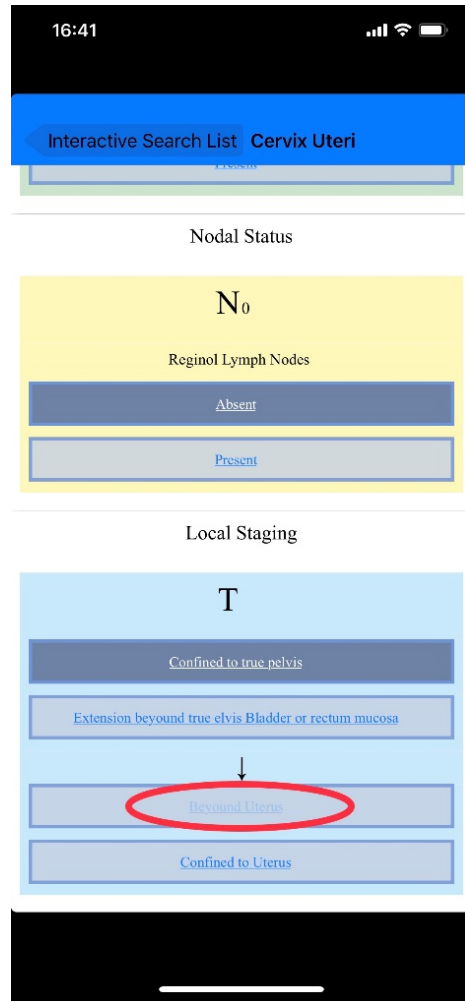
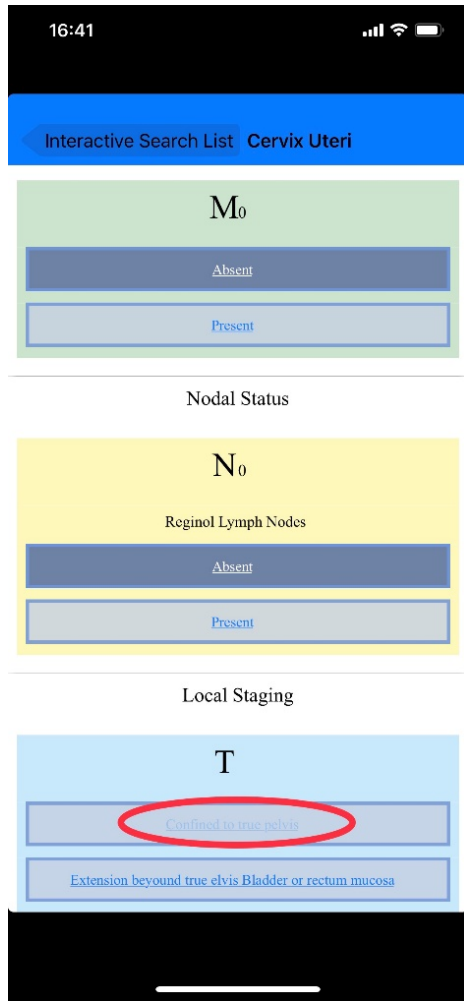
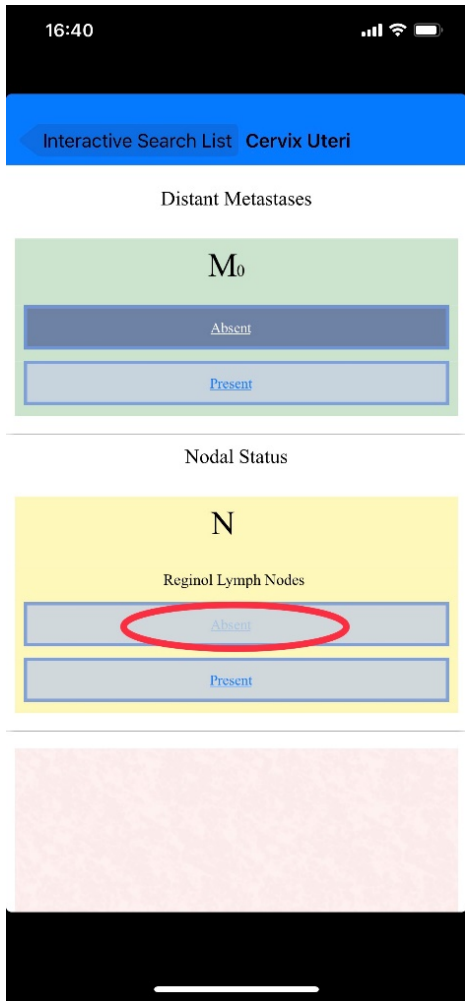


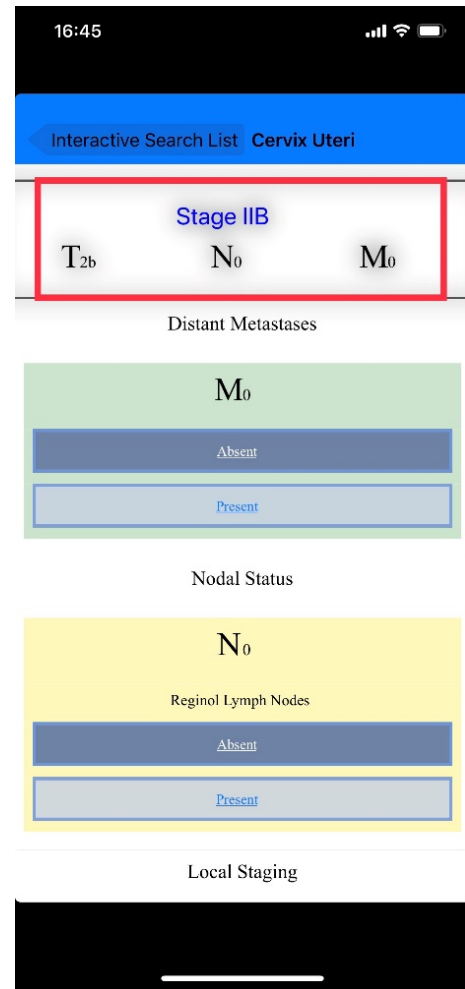
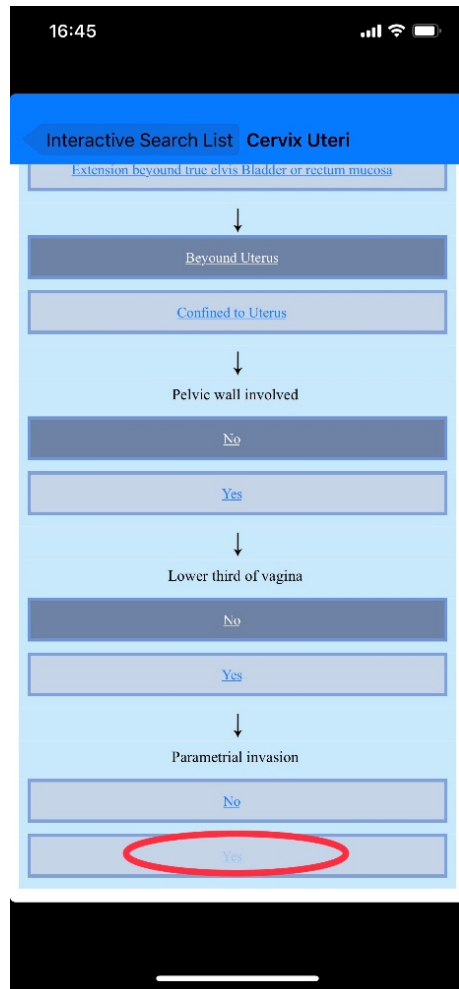
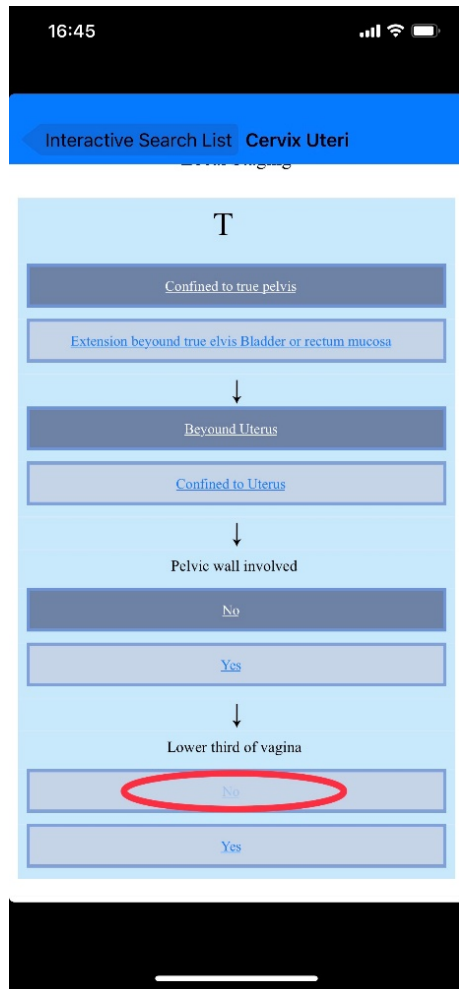
TNM classification developed and maintained by the Union for International Cancer Control. It is also used by the American Joint Committee on Cancer.

T describes the size of the original (primary) **tumour** and whether it has invaded nearby tissue, **N** describes nearby (regional) lymph nodes that are involved, **M** describes distant metastasis (spread of cancer from one part of the body to another).

- App developed by the IAEA in collaboration with Tata Memorial Centre, India.
- Permits staging cancer disease in an easy way
- Designed in a simple, user-friendly format that will be useful for oncologists, gynaecologists, medical students and residents









FIGO Gyn Cancer Management App by IAEA

- Designed for health professionals.
- It provides the latest FIGO Staging and recommended investigation tools for the confirmation of diagnosis and management of each Gyn cancer.
- Designed in a simple, user-friendly format that will be useful for oncologists, gynaecologists, medical students and residents

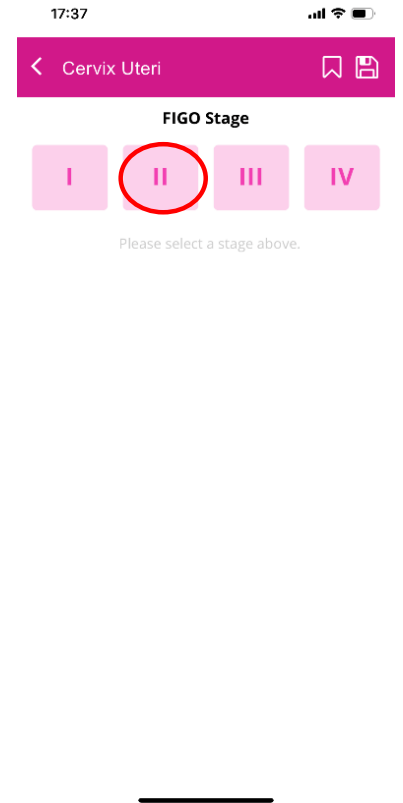
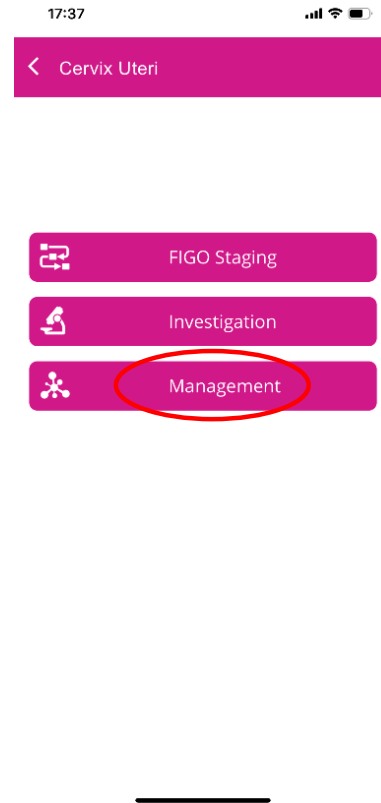
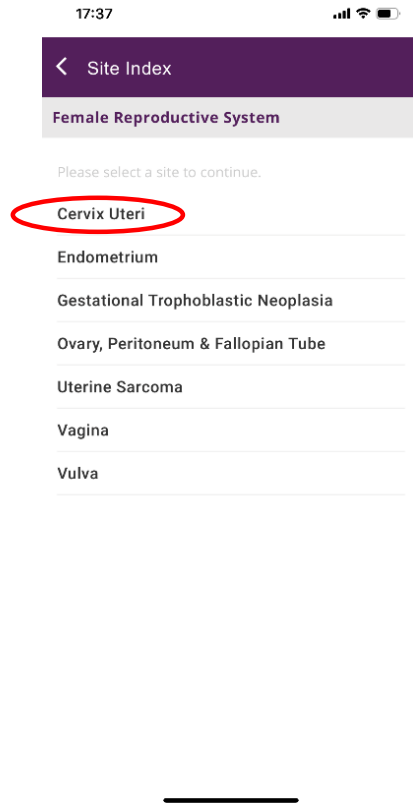
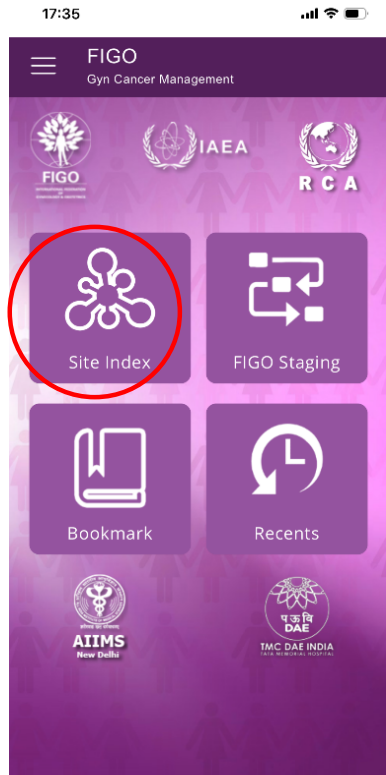


Android



iPhone

The treatment is based on the results of medical imaging and corresponding FIGO classification



17:37

< Cervix Uteri

FIGO Stage

I II III IV

Please select a stage below.

Stage IIA Stage IIB

17:37

< Cervix Uteri

FIGO Stage

I IIB III IV

17:37

< Cervix Uteri

FIGO Stage

I IIB III IV

