

# Results

## **Results**

This prospective non randomized study carried out on twenty cases of grade I stage IA endometrial carcinoma in the period from 2008 to 2010. in the National Cancer Institute Cairo University (19 cases) and Benha University hospitals (1 case).

Patent blue dye as a lymphatic mapping procedure was used for all cases to detect the sentinel lymph node. In 17 cases blue coloured lymph nodes (sentinel lymph node) were observed and in 3 cases no visible sentinel lymph node i.e the detection rate for the sentinel lymph node is 85%. All specimens were sent for histo-pathological evaluation and to correlate the relation of the pathological findings of the sentinel lymph node to the other pelvic lymph nodes. The results are demonstrated in table:(18)

**Table (19): Correlation of SNL and other variables**

Case no.	Surgical staging	Postoperative histopathology, Grading of the tumor	Detected SLN: (site, number& $\pm$ ve)	Other Pelvic LNs	
1	Ia	Endometrioid carcinoma grade I	Not visible	-ve	
2	Ia	Endometrioid carcinoma grade I	Obturator, 2, -ve	-ve	
3	Ib	Papillary carcinoma grade I	Obturator, 1, +ve	+ve	Referred for radiotherapy
4	Ib	Endometrioid carcinoma grade I	External iliac, 2, -ve	-ve	
5	Ia	Endometrioid carcinoma grade I	Not visible	-ve	
6	Ia	Endometrioid carcinoma grade I	Obturator, 3, -ve	-ve	
7	Ia	Endometrioid carcinoma grade I	Obturator, 1, -ve	-ve	
8	Ia	Endometrioid carcinoma grade I	Internal iliac, 1, -ve	-ve	
9	Ia	Endometrioid carcinoma grade I	Obturator, 2, -ve	-ve	
10	Ib	Papillary carcinoma grade II	Internal iliac, 2, +ve	+ve	Referred to radiotherapy
11	Ia	Endometrioid carcinoma grade I	Internal iliac, 1, -ve	-ve	
12	Ia	Endometrioid carcinoma grade I	Obturator, 1, -ve	-ve	
13	Ia	Mucinous carcinoma grade I	External iliac, 1, -ve	-ve	
14	Ib	Endometrioid carcinoma grade II	Obturator, 1, +ve	-ve	Referred to radiotherapy
15	Ia	Endometrioid carcinoma grade I	External iliac, 1, -ve	-ve	
16	Ia	Endometrioid carcinoma grade I	Obturator, 1, -ve	-ve	
17	Ia	Endometrioid carcinoma grade I	Not visible	-ve	
18	Ia	Endometrioid carcinoma grade I	Internal iliac, 2, -ve	-ve	
19	Ia	Endometrioid carcinoma grade I	External iliac, 1, -ve	-ve	
20	Ib	Endometrioid carcinoma grade I	Internal iliac, 2, -ve	-ve	

From table (19) it can be recorded that:

- Seventeen patients showed visible sentinel lymph node, so detection rate is 85%.
- Regarding the site of sentinel lymph node.
  - Eight patients showed the obturator lymph node as the sentinel lymph node.
  - Five patient showed the internal iliac lymph node as the sentinel lymph node.
  - Four patient showed the external iliac lymph node to be the sentinel lymph node.
  - no visible SLN was detected in the pre caval or paraaortic areas.
- Regarding the number of sentinel lymph node:
  - Twenty five SLN were detected in Seventeen cases i.e the mean number of SLN is 1.47 per case.
- Regarding the histopathology of sentinel lymph node and other pelvic lymph nodes:
  - Fourteen of the Seventeen colored sentinel lymph nodes were negative for metastasis and also the other pelvic lymph nodes were negative for metastasis.
  - Three of the Seventeen colored sentinel lymph nodes showed metastasis two in the obturator lymph node and 1 in the internal iliac lymph node. While the other pelvic lymph nodes were positive in two of these cases (1 in obturator LN and 1 in internal iliac LN) and negative in 1 case (in obturator LN) i.e no false negative results.

- Regarding the histopathological type of the tumor.
  - Seventeen patients were endometrioid adenocarcinoma, two patients were papillary serous adenocarcinoma and one case was mucinous adenocarcinoma i.e no change in the histopathology between preoperative and postoperative assessment.
- Regarding the grading of the tumor.
  - All cases were grade 1 in the preoperative assessment(D&C biopsy) but after final postoperative assessment two cases were upgraded to grade 2 and both had positive metastasis in both SLN and pelvic lymph nodes.
- Regarding the surgical staging .
  - The three cases with proved metastasis in sentinel lymph node were upstaged to IIIc after final histopathology

Table (20): Relation between sentinel node involvement and histopathologic characteristics:

Characteristics	Positive SN ( 3/17)	Negative SN (14/17)
Histology:		
Endometrioid adenocarcinoma:	1/3	13/14
Papillary serous adenocarcinoma:	2/3	-
mucinous adenocarcinoma:	-	1/14
Histological grade:		
Grade 1	1/3	14/14
Grade 2	2/3	-

**N.B:** It is shown that the risk of lymph node involvement in grade I adenocarcinoma is very low 5.88% (1/17) .