

The 4th MEMAGO CONGRESS

Middle East & Mediterranean Association of Gynecological Oncology and

1st Emirates Gynecological Oncology Conference

Roberto Angioli, M.D. Chairman Ob/Gyn University Rome, Italy President Italian Society of Gynecologic Oncology President International Gynecologic Cancer Society

Early cervical cancer Fertility sparing options



GYNECOLOGICAL CANCER: DIMENSION OF THE PROBLEM

Estimated number of new cases in 2018, worldwide, females, all ages

* Crude and age-standardized rates per 100 000

ICD ¢	Cancer [‡]	Number [‡]	Uncertainty interval 🗘	Crude Rate* ^{\$}	ASR (World)*	Cum. risk** ^{\$}
C00-97	All cancers	8 622 539	[8218850.0-9046060.0]	228.0	182.6	-
C50	Breast	2 088 849	[2003730.0-2177580.0]	55.2	46.3	-
C33-34	Lung	725 352	[705669.0-745584.0]	19.2	14.6	-
C53	Cervix uteri	569 847	[545771.0-594985.0]	15.1	13.1	-
C73	Thyroid	436 344	[408054.0-466595.0]	11.5	10.2	-
C18	Colon	520 812	[485891.0-558243.0]	13.8	10.1	-
C54	Corpus uteri	382 069	[375428.0-388827.0]	10.1	8.4	-
C44	Non-melanoma skin cancer	404 323	[280373.0-583070.0]	10.7	7.0	-
C16	Stomach	349 947	[334068.0-366581.0]	9.3	7.0	-
C56	Ovary	295 414	[280962.0-310609.0]	7.8	6.6	-
C19-20	Rectum	274 146	[269332.0-279047.0]	7.2	5.6	-

GYNECOLOGICAL CANCER: DIMENSION OF THE PROBLEM

THE NUMBER OF GENITAL CANCERS IN THE WORLD AND CORRESPONDING RATES OF PATIENTS IN PRE-MENOPUASAL

Number of genital canc	ers in the world and corresponding	g rates of patients eligible	for fertility preservation each year.	
	Number of Gynecologic Cancer in the world	Premenopausal women (%)	Eligible women for fertility preserving with respect to stage and grade (%)	Number of women eligible for fertility preserving approach
Cervical cancer	529,800	20	48	23,000
Endometrial cancer	287,100	5-10	20-30	5400
Ovarian cancer	225,500	10–15	15	2500

23.000 PTS AFFECTED BY CERVICAL CANCER 5.400 PTS AFFECTED BY ENDOMETRIAL CANCER 2.500 PTS AFFECTED BY OVARIAN CANCER ARE ELIGIBLE FOR FERTILITY SPARING SURGERY EACH YEAR

P. Dursun et al. / Critical Reviews in Oncology/Hematology 92 (2014) 258-267

Madanat-Harjuoja LM, 2010; Ferlay J, 2010; Jemal A, 2011.

FERTILITY SPARING

Conservative surgery is defined as preservation of at least uterus and sufficient ovarian tissue to permit conception.



ONCOLOGICAL AND OBSTETRICS OUTCOME OF FSS



CERVICAL CANCER

Interna	tional F	ederation of Gynecology and Obstetrics (FIGO) Surgical Staging of Cancer of the Cervix Uteri (2018)
Stage		Description
		The carcinoma is strictly confined to the cervix (extension to the uterine corpus should be disregarded)
		Invasive carcinoma that can be diagnosed only by microscopy, with maximum depth of invasion <5 mm ^a
	IA1	Measured stromal invasion <3 mm in depth
	IA2	Measured stromal invasion ≥3 mm and <5 mm in depth
)	Invasive carcinoma with measured deepest invasion ≥5 mm (greater than Stage IA), lesion limited to the cervix uterib
	IB1	Invasive carcinoma ≥5 mm depth of stromal invasion, and <2 cm in greatest dimension
	IB2	Invasive carcinoma ≥2 cm and <4 cm in greatest dimension
	IB3	Invasive carcinoma ≥4 cm in greatest dimension
	Ū,	The carcinoma invades beyond the uterus, but has not extended onto the lower third of the vagina or to the pelvic wall
AL		Involvement limited to the upper two-thirds of the vagina without parametrial involvement
0	IIA1	Invasive carcinoma <4 cm in greatest dimension
	IIA2	Invasive carcinoma ≥4 cm in greatest dimension
		With parametrial involvement but not up to the pelvic wall
		The carcinoma involves the lower third of the vagina and/or extends to the pelvic wall and/or causes hydronephrosis or nonfunctioning kidney and/or involves pelvic and/or para-aortic lymph nodes ^c
		The carcinoma involves the lower third of the vagina, with no extension to the pelvic wall
<u> </u>	J	Extension to the pelvic wall and/or hydronephrosis or nonfunctioning kidney (unless known to be due to another cause)
		Involvement of pelvic and/or para-aortic lymph nodes, irrespective of tumor size and extent (with r and p notations) ^c
	IIIC1	Pelvic lymph node metastasis only
	IIIC2	Para-aortic lymph node metastasis
IV	2	The carcinoma has extended beyond the true pelvis or has involved (biopsy proven) the mucosa of the bladder or rectum. (A bullous edema, as such, does not permit a case to be allotted to Stage IV)
		Spread to adjacent pelvic organs
		Spread to distant organs



CERVICAL CANCER

Histology	Strategy	
Squamous, adenok, adenosquamous; stromal invasion < 3 mm, negative margins, ECC negative, LVS neg, node negative	Cone biopsy with negative margins	Associazione Italiana di Oncologia Medica ESGÇÇ European Society of Gynaecological Oncology
Squamous, adenok, adenosquamous; diameter < 2 cm, stromal invasion < 10 mm, node negative	 Cone biopsy with negative margins + pelvic lymph node dissection (consider SLN mapping) Radical trachelectomy + pelvic lymph node dissection 	NCCN National Comprehensive Cancer Network® Radical trachelectomy a pelvic lymph node dissec with (or without) para-
	Histology Squamous, adenok, adenosquamous; stromal invasion < 3 mm, negative margins, ECC negative, LVS neg, node negative Squamous, adenok, adenosquamous; diameter < 2 cm, stromal invasion < 10 mm, node negative	HistologyStrategySquamous, adenok, adenosquamous; stromal invasion < 3 mm, negative margins, ECC negative, LVS neg, node negativeCone biopsy with negative margins secc negative, LVS neg, node negativeSquamous, adenok, adenosquamous; diameter < 2 cm, stromal invasion < 10 mm, node negative- Cone biopsy with negative margins + pelvic lymph node dissection (consider SLN mapping) - Radical trachelectomy + pelvic lymph node dissection

Nodal assessment

(>stage IA1, patient with greater than 3 mm depth of invasion, LVSI, high risk histology)

- SLN (NCCN 2015)
- Extraperitoneal LA

pelvic lymph node dissection with (or without) paraaortic lymph node dissection is an option for Ib1 and selected cases of Ib2. Some surgeons suggest that a 2 cm cut-off may be used for vaginal trachelectomy, whereas 4 cm cut-off for abdominal trachelectomy.

and

CERVICAL CANCER



CONE BIOPSY vs HYSTERECTOMY IA1



Safety and Access

Jason D. Wright, MD, Ruvandhi Nathavithrana, MD, Sharyn N. Lewin, MD, Xuming Sun, Israel Deutsch, MD, William M. Burke, MD, and Thomas J. Herzog, MD



FERTILITY-CONSERVING SURGERY IS SAFE FOR

YOUNG WOMEN WITH STAGE IA1 SQUAMOUS CELL CARCINOMA

CONE BIOPSY vs TRACHELECTOMY in IA1



stage IA-IB1, according to the low relapse rates

Zhang et al, Oncotarget 2017, vol 8

SLN GUIDELINES - FERTILITY SPARING



LYMPHNODE INVOLVEMENT CERVICAL CANCER



FIGO STAGE	INCIDENCE OF PELVIC NODE METASTASIS
T el	LVS - 1,5%
1 01	LVS + 4,2%
I a2	3,7%
Ιb	12 - 22%



PELVIC NODES	RISK OF AORTIC NODE	SPREAD
POSITIVE	25%	
NEGATIVE	1%	
	SKIP	Sakuragi

Sakuragi. Int J Clin Oncol 2007

GUIDELINES FOR CERVICAL CANCER TREATMENT





С

NCCN

If lymph node involvement is detected intraoperatively including macrometastases or micrometastases, further pelvic lymph node dissection and radical hysterectomy should be avoided. Patients should be referred for definitive chemoradiotherapy. Paraaortic lymph node dissection, at least up to inferior mesenteric artery, may be considered for staging purposes.

CERVICAL CANCER TREATMENT WORLDWIDE

A GCIG international survey: clinical practice patterns of sentinel lymph node biopsies in cervical cancer. INTERNATIONAL SURVEY A validated 35-item questionnaire regarding SLNB in CC supported by the Gynecologic Cancer Intergroup (GCIG), sent to all major 35-items gynecological cancer societies across the globe 161 Institutions from around the world partecipated 161 97 (60%) used SLNB, due to lower morbidity (73%), reliability (55%) Institutions and time-saving (27%) In cases of positive SLNB (pN+), 39% of respondents stopped the operation and sent the patient for chemoradiation (CRT), 45% completed pelvic and paraaortic LNE, whereas 26% went on to SLNB + perform a radical hysterectomy (RH) and systematic pelvic and paraaortic LNE. 26% RH + **39% CRT** total LND 45% Pelvic **Aortic LNE**

Vercellino et al, 2019 Gynecology and Obstetrics

CERVICAL CANCER TREATMENT WORLDWIDE



Different approach of positive SLN during surgery:





IMAGE GUIDED SURGERY

ICG infiltration

ICG can detect SLN at an accuracy of 95% to 98% Ferreira et al, 2019 Surg Technol Intern



- Combination of a superficial (1–3 mm) and deep (1–2 cm) cervical injection usually 2 or 4 points (3-9, 1-5-7-10, 12-3-6-9)
- Laparoscopic detection (after cervical injection are commonly located medial to the external iliac, ventral to hypogastric or in the superior part of the obturator space)



© MSKCC 2013

IMAGE GUIDED SURGERY



LYMPHNODE INVOLVEMENT CERVICAL CANCER

A the area	Stage	Dta	5-years	survival	
Authors	Stage	F (3	N-	N+	
Inoue T. 1990	IB-IIB	875	89%	52%	
Lai C.H. 1999	IB-IIB	827	87,3%	68,2%	
Kim, 2000	IB-IIA	366	95%	78%	
Naoki, 2002	IB-IIB	187	86%	61,8%	
Benedetti P, 2004	IB1-IIA	83	95%	74%	
Kenneth Macdonald, 2009	IB-IIB	4559	89%	56%	
Masayoshi, 2010	IB-IIB	425	94,8%	62%	
Long, 2010	IB-IIB	960	91,5%	67%	
Sakurag, 2015	IA-IIB		91%	67%	
S.Karger, 2017	IA2-IB1		98,2%	77,8%	



Review of literature

NODAL STATUS IS THE MOST IMPORTANT PROGNOSTIC FACTOR

LYMPHNODE INVOLVEMENT CERVICAL CANCER



OS by nodal status			
n° N +	5 ys-OS		
0	91%		
1-2	69%		
3-9	58%		
≥10	35%		

Macdonald et al., 2009

LYMPHNODE NVOLVEMENT CERVICAL CANCER



LYMPHNODE SPREAD AND INVOLVEMENT CERVICAL CANCER

Prognostic significance of low volume sentinel lymph node disease in early-stage cervical cancer



Cibula et al, 2011 Elsevier

LYMPHNODE INVOLVEMENT CERVICAL CANCER

Lymph node micrometastases in initial stage cervical cancer and tumoral recurrence

Variables	Total (n = 83)	Without recurrence (n = 68)	With recurrence $(n = 15)$	P value		Retrospective study
Lymph node micrometastasis (isolated tumor cells and/or micrometastasis) No. for whom data available No Yes	83 77 (93) 6 (7)	68 66 (97) 2 (3)	15 11 (73) 4 (27)	0.009 ^c		Patients with MIC have 11,73 times higher risk of recurrence
Multivariate regression analysis	results for recu	irrence.			Prese	nce of lymph node
Independent variables		Odds rati (95% con	io fidence interv	P value val)	micrometas	tases is an important risk
Lymph node micrometastasis Stromal invasion depth Stromal invasion depth (<1 Stromal invasion depth (1/ Tumor size (>2 cm vs <2 cm)	s (yes vs no) 1/3 vs >2/3) 3–2/3 vs >2/3)	11.73 1. 1.16 (0. 0.73 (0. 4 42 (1	57-87.8) 23-5.87) 12-4.46) 00-1947)	0.017 0.854 0.738 0.049	cancer. Th considere	radiotherapy
Angiolymphatic invasion by I	HE (yes vs no)	1.19 (0.	20–6.94)	0.846		

Colturato et al, 2015 International Journal of Gynecology and Obstetrics

83 natients

LYMPHNODE SPREAD AND INVOLVEMENT CERVICAL CANCER



FIG. 1. Overall survival comparing patients with and without presence of lymph node micrometastasis.

FIG. 2. Recurrence risk comparing patients with and without presence of lymph node micrometastasis.

Stany et al, 2015 International Journal of Gynecological Pathology

In the next years we will have results of 2 ongoing trial (SENTICOL III and SENTIX)



SLN INTRAOPERATIVE ASSESSMENT

High false negative rate of frozen section examination of sentinel lymph nodes in patients with cervical cancer

225 patients with cervical cancer FIGOIA2–IIB in whom at least one SN has been detected and intra-operatively processed

Diagnostic value of SN frozen section (as compared with SN ultrastaging results).

FS	All metastases	LVD	Macrometastases
Sensitivity Specificity	0.56 0.44; 0.68) 1.00 (0.97; 1.00)	0.08 0.01; 0.28) 1.00 (0.96; 1.00)	0.81 0.67; 0.91) 1.00 (0.97; 1.00)
PPV	1.00 (0.89; 1.00)	1.00 (0.19; 1.00)	1.00 (0.89; 1.00)
NPV	(0.83, 0.76; 0.88)	0.87 (0.81; 0.91)	0.94 (0.89; 0.97)

FS=frozen section; LVD=low volume disease (micrometastases and ITC); NPV= negative predictive value; PPV=positive predictive value.

Only 2 MIC detected over 25 (Micrometastasis and ITC)

The false negative rate of FS was higher in bigger tumours (>20 cm3) and in the presence of LVSI

Cibula et al, 2013 Elsevier

SLN INTRAOPERATIVE ASSESSMENT

Author	Sensitivity	False negative rate
Lecuru et al 2011	92%	8%
ROY et al, 2011	88%	12%
Cibula et al 2012	91%	9%
Martinez et al 2013	92%	8%
Salvo et al 2017	96.4%	3.6%



Review of literature

CERVICAL CANCER TREATMENT ACCORDING GUIDELINES



PATHOLOGICAL ULTRASTAGING

Risk of micrometastases in non-sentinel pelvic lymph nodes in cervical cancer

SLN ultrastaging reached 100% sensitivity for the presence of both MAC and MIC in pelvic LNs.

SLN and non-SLN pelvic lymph node status after ultrastaging (N = 17).

SLN	Non-SLN	N (%)
neg	neg	9 (53%)
ITC	neg	3 (18%)
MIC	neg	2 (12%)
MAC	neg	1 (6%)
MIC	MIC	2 (12%)



Two consecutive sections (4 μ m-thick) were obtained in regular 150 μ m intervals. The first section was stained with H&E and the second section was examined immunohistochemically with antibody against cytokeratins (AE1/AE3).

SLN OPEN QUESTION

WE NEED MORE EVIDENCE?

- Heterogeneity of treatment worldwide different sense to SLN BIOPSY
- We dont know the real impact of **MICROMETASTASES** on survival
- Standard intraop evaluation HIGH FALSE NEGATIVE RATE (10%)
- Patients should be informed that they could received a **COMBINED TREATMENT** in spite of intraoperative examination
- Few data on ONCOLOGICAL SAFETY we are waiting for SENTICOL III -SENTIX TRIAL and e will have PROBLEM with PFS data LACC TRIAL



RADICAL TRACHELECTOMY IN IB1

Abdominal radical trachelectomy as a fertility-sparing procedure in women with early-stage cervical cancer in a series of 61 women

Hiroshi Nishio^a, Takuma Fujii^{a,*}, Kaori Kameyama^b, Nobuyuki Susumu^a, Masaru Nakamura^a, Takashi Iwata^a, Daisuke Aoki^a



RECURRENCE RATE: 9,8% (6/61)

Patient	Tumor diameter (mm)	LVSI	Time to recurrence (months)	Recurrent sites	Treatment for recurrence
1*	9 ^a	-	4	Cervical stump	Hysterectomy
			45	Fallopian tube	BSO+PALA
2	27 ^b	+	4	Bladder surface	Chemoradiation
			13	Common iliac artery LN	Chemotherapy
3	35 ^b	+	18	Lt. pelvic sidewall	Heavy charged
					particle radiotherapy
4	38 ^b	+	8	Surface of sacral bone	Radiation
5	20 ^b	-	14	Common iliac artery LN	Radiation
6	20 ^b	+	23	Rt. pelvic sidewall	Chemoradiation

Rt: right, Lt; left, BSO; bilateral salpingo-oophorectomy, PALA; paraarortic lymphadenectomy,LN; lymph node.

There were 49 patients with a tumor diameter of < 20 mm, and none of the patients with a tumor diameter of < 20 mm developed disease recurrence

Nishio et al, Gynecol Oncol 2009

RADICAL TRACHELECTOMY IN IB1

method of fertility preservation for cervical cancer as Insight: radical vaginal trachelectomy Mario E Beiner and Allan Covens* Surgery

β

RISK FACTORS FOR TUMOR RECURRENCE

• **Tumor size** > 2 cm (p = 0.03)

• **LVSI** (p = 0.001)

Total number of patients	Number with or v metas	of patients vithout LN tasis (%)	Histok	ogy (%)	Tumor	size (%)	Number (with or wi (?	of patients ithout LVSI %)	Median time to recurrence	Median F/U (months)	Deaths (%)
	+	-	SCC	ACa	>2cm	<2 cm	+	-	(months)		
5/123 ¹¹	2/7 (28)	3/116 (3)	-	-	-	-	1/39 (2)	4/84 (5)	34 (range 15–84)	45 (range 1–120)	4
4/108 ¹⁰	0/4	4/104 (4)	1/75 (1)	3/33 (9)	1/1 (100)	3/107 (100)	-	-	14 (range 3–34)	29 (range 1–128)	2
4/109 ^{2,c}	-	-	3/76 (4)	1/19 (5)	4/28 (14)	0/68	3/24 (13)	1/72 (1)	34 (range 7–93)	76 (range 4–176)	3
7/93 ¹²	1/2 (50)	6/91 (6)	4/40 (10)	3/50 (6)	1/8 (12)	6/85 (70)	6/31 (19)	1/62 (2)	-	30 (range 1–103)	4
6/824	1/5 (20)	5/77 (6)	2/42 (5) ^b	1/30 (3) ^b	2/8 (25) ^b	1/64 (1) ^b	-	-	25 (range 9–60)	60 (range 6–156)	4
2/21 ⁹	0/1	2/20	-	-	-	-	2/3	0/18	-	31 (range 8–81)	0
0/12 ^{8,b}	0/0	0/12	0/4	0/6	0/2	0/10	0/1	0/11	-	48 (range 28–84)	0
28/548 (5.1%) ^d	4/19 (21) ^d	18/421 (4) ^d	10/251 (4) ^d	8/141 (6) ^d	8/47 (17) ^d	10/334 (3) ^d	12/97 (12) ^d	6/247 (2) ^d	27 (range 3–93) ^d	47 (range 1–176) ^d	17/548 (3.1) ^d

Includes adenosquamous tumors. (b)Information missing on other recurrences.(c)Information missing on 13 abandoned cases.(d) AC,adenocarcinoma;F/U,follow-up; LN,lymphonode;LVSI,Lymphovascular space involvement; SCC,squamous-cell carcinoma

Covens, Nature Clin Pract Oncol. 2007

RVT VS RADICAL HYSTERECTOMY FOR 1B1 (<2CM) CERVICAL CANCER



M.E. Beiner Gynecol Oncol 2008



CONE IN IB1 (<2CM) IS IT SAFE?

Type=CON Study Events Total Salihi R et al,2015(n=11) Fanfani F et al, 2014(n=23) Min CC et al, 2014(n=21) Andikyan V et al, 2014(n=10) Biliatis I et al, 2012(n=35) Maneo A et al, 2011(n=36) Fagotti A et al, 2011(n=17) Maneo A et al, 2008(n=21) Landoni F et al, 2007(n=11) 9 1 169 33 33 20 16 01 001000 11 Fixed effect model 148 Random effects model Heterogeneity: I-squared=7.5%, tau-squared=0.0013, p=0.3721 0 0.10.20.30.50.60.40.7POOLED **RECURRENCE RATE**

A

0,6% (P>0,05)

Some authors think yes!

CONCLUSIONS

- **Optimal pregnancy rate**
- Low complications rate
- Heterogeneity of treatment worldwide



- Few data on ONCOLOGICAL SAFETY ON SLN we are waiting for SENTICOL III SENTIX TRIAL and e will have PROBLEM with PFS data LACC TRIAL
- Radical trachelectomy standardization of techniques



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CLASS I VERSUS CLASS III HYSTERECTOMY

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Class I versus class III radical hysterectomy in stage IB1-IIA cervical cancer. A prospective randomized study

F. Landoni^a, A. Maneo^b, I. Zapardiel^{a,*}, V. Zanagnolo^a, C. Mangioni^b

Table 1 Patients baseline characteristics and pathologic findings. Class I Class III p FIGO stage IB 53 60 IIA 9 3 0.07 Cervical <2 cm 4 4 32 diameter 2.1-3 cm 24 3.1-4 cm 26 35 3.2(2-4)3.3(2-4)median (range) standard deviation 0.8 0.8 0.15 <40 years 28 6 Age 12 41-50 years 14 51-60 years 23 15 19 8 >60 years 55 (34-82) 44 (24-72) median (range) standard deviation 11 12 < 0.001 Pathologic Adenocarcinoma 10 7 0.4 30 0.5 findings Grade 3 24 LVSI 26 26 0.9 7 Parametrial invasion 8 0.5 0 Massive 7 Microscopic 2 0.4 Cut-through 4 12 Uterine involvement 14 0.6 13 11 Node involvement 0.6Micrometastasis 4 6 Macrometastasis 9 5 Positive nodes 0.6 1 Node 4 3 2 Nodes 6 6 >2 Nodes 3 2 0 0.2 Paraortic involvement 3

LVSI: lymph-vascular space invasion.

Landoni et al, EJSO 2012



Figure 2. (a) Overall survival curves of both groups by Cox method; p = 0.1. (b) Survival curves for tumors <3 cm of diameter in both groups by Cox method; p = 0.88. (OVs: months).

SIMPLE TRACHELECTOMY

Simple extrafascial trachelectomy and pelvic bilateral lymphadenectomy in early stage cervical cancer

Innocenza Palaia ^{*}, Angela Musella, Filippo Bellati, Claudia Marchetti, Violante Di Donato, Giorgia Perniola, Pierluigi Benedetti Panici

Department of Gynecology, Obstetrics and Urologic Sciences, "La Sapienza" University, Rome, Italy

Characteristics	Variables
Age, median (range) years	32 (28-37)
Hystotype, n (%)	
Squamous cell	11/14 (79)
Adenocarcinoma	3/14 (21)
Adenosquamous	-
FIGO STAGE	
IA2	5/14 (36)
IB1	9/14 (64)
Tumor size, median (range), mm	17 (14-19)

Characteristics	Variables
Operative time, median (range), minutes	120 (95-210)
Blood loss, median (range), ml	200 (100-400)
Postoperative stay, median (range), days	2 (2-4)
Severe Intraoperative complications, n (%)	-
Postoperative complications, n (%)	2 (14%) (cervical stenosis)
Pregnancy rate, n (%)	8/14 (57)
Term delivery, n (%)	3/8 (37)

NO RECURRENCES WERE DETECTED

Benedetti Panici et al, Gynecologic Oncology 2012

SURVIVAL ANALYSIS



SURVIVAL ANALYSIS



Primary Objective 3-year disease-free survival SLN biopsy VS SLN biopsy + pelvic

Lecuru et al. 2019 Int J Gynecol Cancer

SURVIVAL ANALYSIS

The NEW ENGLAND

Minimally Invasive or Abdominal Radical Hysterectomy for Cervical Cancer JOURNAL of MEDICINE



Ramirez et al., 2018 NEJM

LIMITATION OF ULTRASTAGING PROCEDURE



PATHOLOGICAL ULTRASTAGING

47 Studies - 4130 patients



Early stage cervical cancer patients (FIGO stages IA2, IB1, and IIA primary tumor size b40mm) who have no suspicious lymph nodes on either pre-operative imaging or during surgery, and have bilateral negative SLNs after ultra staging, have a residual risk of 0.08% on occult metastases. On the basis of these results we recommend not to perform a full PLND in these patients.

Tax et al, Gynecology Oncology 2015

SO...



CONCLUSION

IGCS GOALS

SHARE KNOWLEDGE



CONNECT PROFESSIONALS AROUND THE WORLD



PROVIDE EDUCATION AND TRAINING WORLDWIDE

RAISE PUBLIC AWARENESS OF GYNECOLOGICAL CANCERS





FUTURE AND POTENTIAL LOCATIONS



HISTORY OF CERVICAL CANCER SURGICAL TREATMENT

"The sentinel node is the first lymph node reached by metastasising cells from a primary tumour"

Tanis et al, 2000 Breast Cancer Research

SLN biopsy was first reported in 1960 but took approximately 40 years to come into general practice following reports of good outcomes in patients with melanoma. After many years of observation and research on its use in various malignancies SLN biopsy has become the standard surgical treatment in patients with malignant melanoma, breast, vulvar, and cervical cancers



GUIDELINES FOR SLN MAPPING





NCCN Guidelines Version 4.2019 Cervical Cancer

CERVICAL CANCER STAGING





