

CERVIX CANCER IN ISRAEL

A RARE CASE

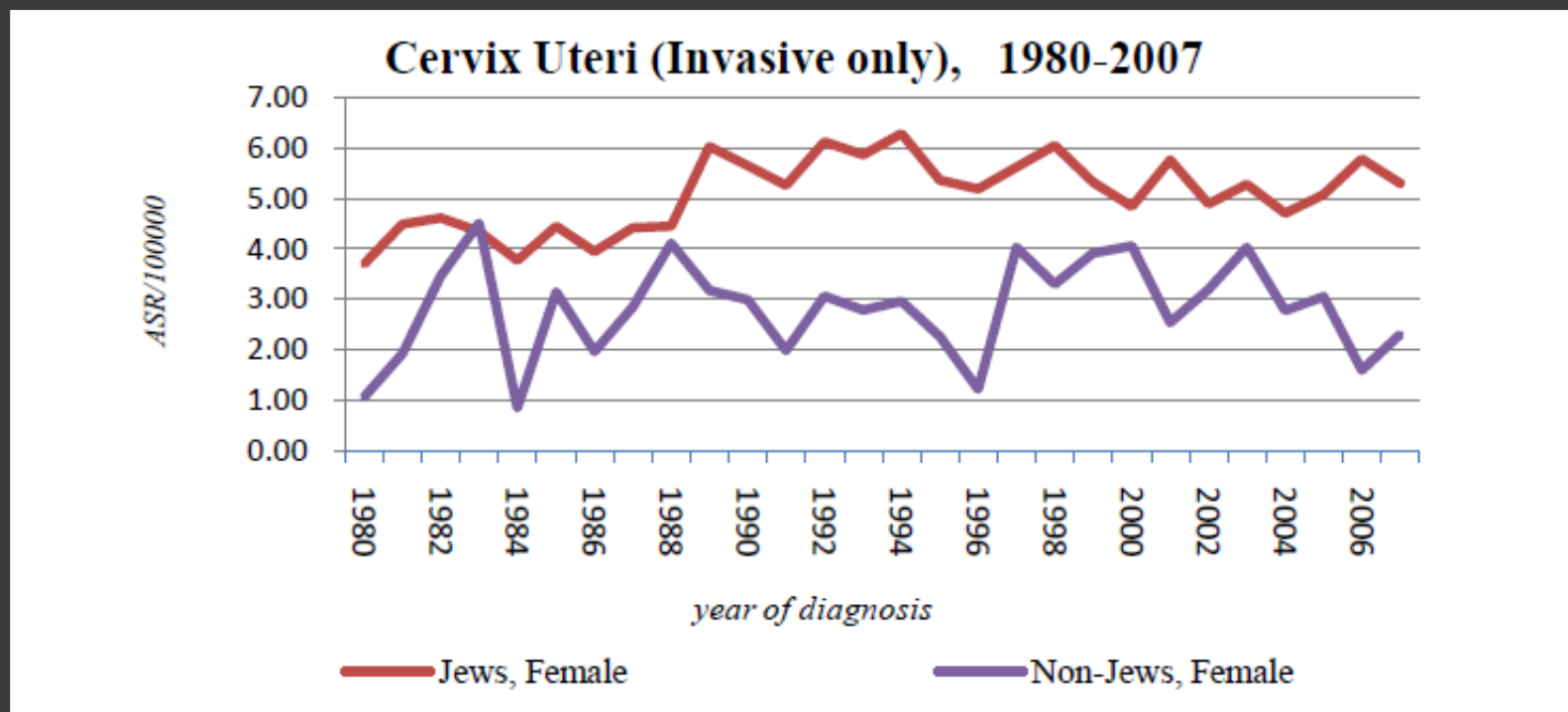
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Feb 2016

Carcinoma of cervix

- ◎ Developing countries - leading cause of death from cancer
- ◎ Developed countries - Decreasing rates of death and Increasing rates of early detection
- ◎ Israel – ?

Cervix Cancer in Israel 2011

- 244 new cases of invasive cervical cancer
- Incidence 5.42 / 100,000 women (1990-5.66)

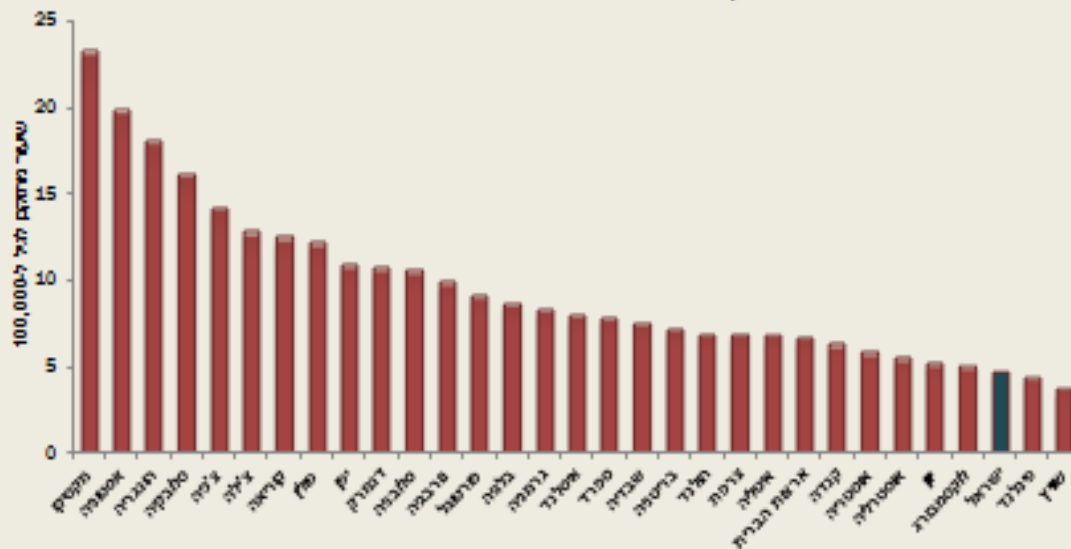


Cervical Cancer Incidence in OECD

השוואה בינלאומית: שיעור ההיארעות (סרטן חודרני בצוואר הרחם)

השיעור בישראל הוא בין הנמוכים בקרב מדינות ה-OECD

היארעות סרטן חודרני בצוואר הרחם לפי מדינות, נתוני Globocan 2012

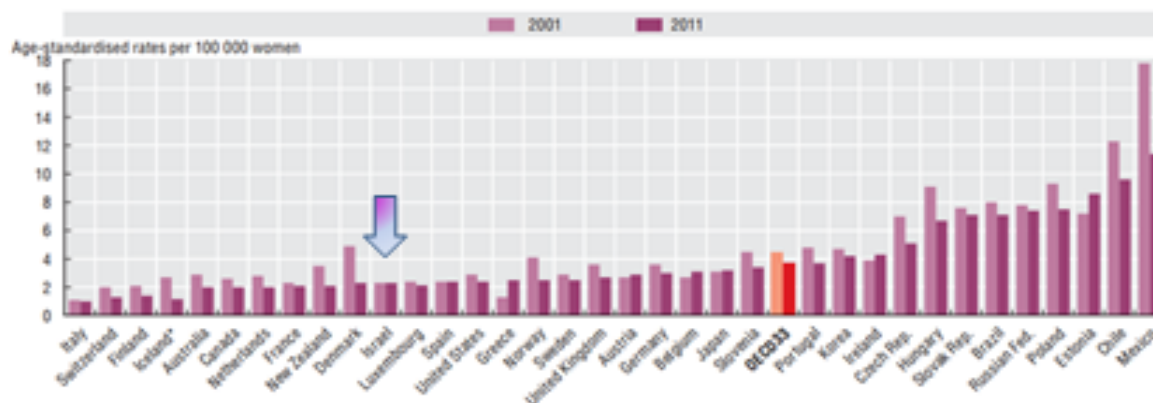


Cervical Cancer Death - OECD

השוואה בינלאומית: תמותה

שיעור התמותה המתוקנן לגיל מסרטן צוואר הרחם בישראל ב-2011 נמוך בכ-38% משיעור התמותה הממוצע של מדינות ה-OECD

5.9.3. Cervical cancer mortality, 2001 to 2011 (or nearest year)



* Three-year average.

Source: OECD Health Statistics 2013, <http://dx.doi.org/10.1787/health-data-en>.

StatLink <http://dx.doi.org/10.1787/888932918187>

Cervix Cancer in Israel

- NO national Screening
- Israeli Gynecological Association Guidelines recommend every 3 years ages 25-65
- Health Insurance covers every three years ages 35-54
- ~ 40% women opportunistic screening

Low Incidence and Low Mortality

Cervix Cancer at Kaplan Medical Center

- Population 400,000-500,000 ?
- lower socioeconomic background ?
- PAP screening rate ?
- 15 new cases in 2015
- Higher Incidence & Higher Mortality ?

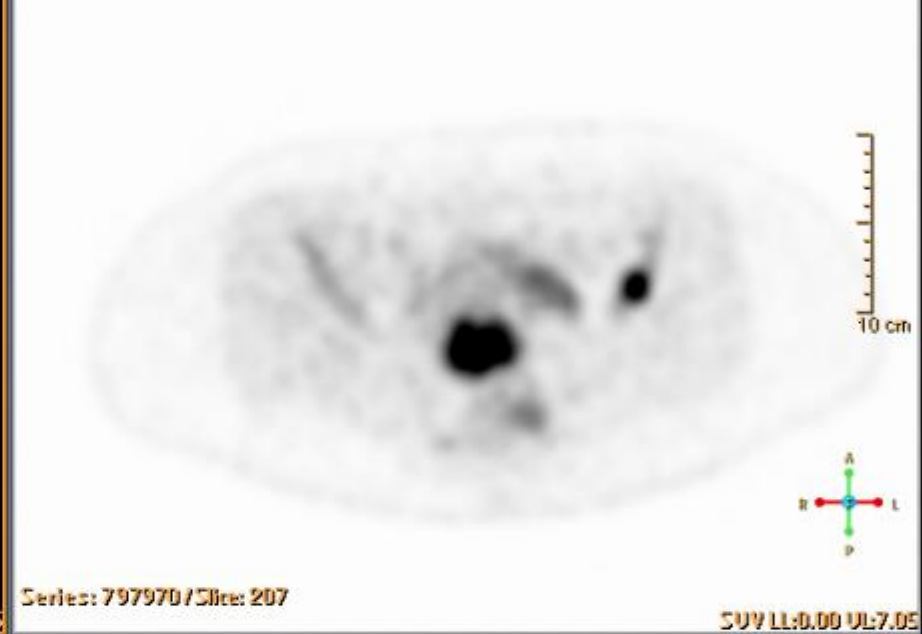
- 11/15 cases Locally advanced or Metastatic Dis. treated by Chemoradiation or systemic chemotherapy +/- AVASTIN

Case

- ◎ M.I
- ◎ Married + 3 children
- ◎ 39 year old nurse at Clalit health services
- ◎ No significant past medical or surgical Hx except for Hypothyroidism.
- ◎ 5/2015 abnormal vaginal bleeding

Case

- ⦿ Normal PAP
 - ⦿ Normal Colposcopy
 - ⦿ 6/2015 A 5 cm Cervical Mass
 - ⦿ No Parametrial Involvement
 - ⦿ Biopsy Sq Cell Carcinoma
- ⦿ **Clinical Stage IB2**



Case

- PET-CT: 6 Cm Cervical mass + 2 cm mass in Iliac bone (confirmed by bx scca) & **3 cm cardiac mass** at the interventricular septum. (confirmed by MRI)
- Weekly Carbo+ Taxol + Avastin (18 courses)

Cardiac Metastasis

- Cardiac (myocardial) mass are rare
- 40:1 are metastatic and Primary cardiac tumors very rare (usually benign)
- Usually hematogenous metastases with concomitant metastasis (most frequent in the lungs)
- Most Cardiac metastases originate from lung and breast cancer

Myocardial & Intracardiac Cervical Metastases

- Very rare – only a few case reports
- 1-3% in postmortem metastatic disease
- Most cases in Recurrent metastatic disease with concomitant lung metastasis

Myocardial & Intracardiac Cervical Metastases

Table 1 Literature review of cardiac metastasis from cervical cancer cases

Author(year)	Age	Stage	Type	Primary Tx	Interval to cardiac metastasis	Recurrence diagnosis modality	Pathology confirmation by
Ando <i>et al.</i> [6]	41	IIB	SCC	Op.	8M	MRI scan	Autopsy
Lemus <i>et al.</i> [7]	53	Ib2	SCC	Op.	14M	MRI scan	Autopsy
Lemus <i>et al.</i> [7]	49	IB	SCC	ERT	3M	MRI & CT scan	No autopsy
Inamura <i>et al.</i> [8]	58	IB1	SCC	CTx	44M	Echocardiogram and chest CT	Open excision
Nakao <i>et al.</i> [9]	57	IIIB	SCC	CCRT	10M	Echocardiogram and chest CT	Open excision
Borsaru <i>et al.</i> [10]	42	IB	SCC	CCRT	6M	Echocardiogram and chest CT	Open excision
Kim <i>et al.</i> [11]	64	IB1	SCC	CCRT	5M	Echocardiogram, TEE and chest CT	Pericardiocentesis
Miller <i>et al.</i> [12]	48	Ib2	Adeno	CCRT	48M	MRI scan	Transesophageal echocardiography- guided biopsy
Won Byun 2011	32	IIA	SCC	Op.	15M	Echocardiogram and chest CT	Open excision

Myocardial & Intracardiac Cervical Metastases

Table 1. Literature review of case reports.

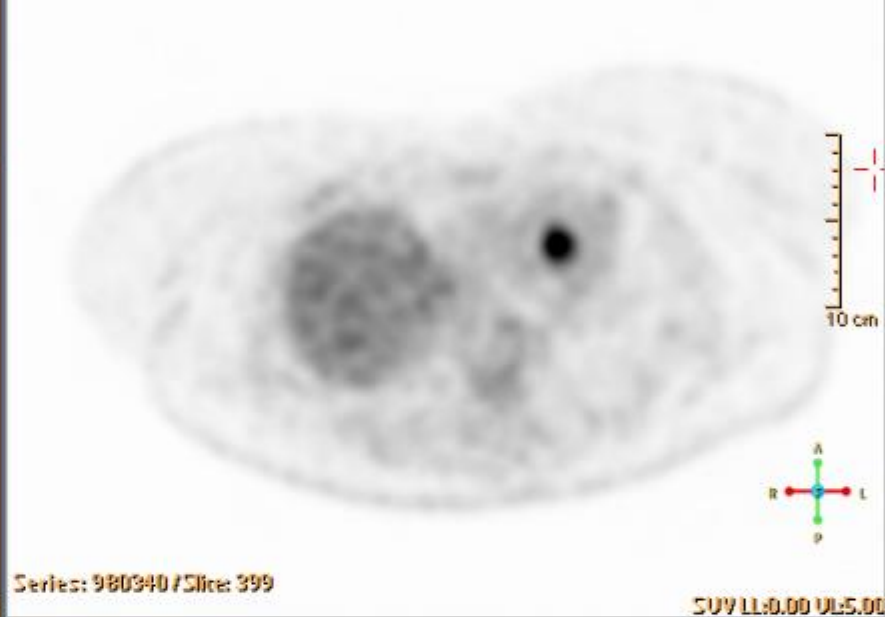
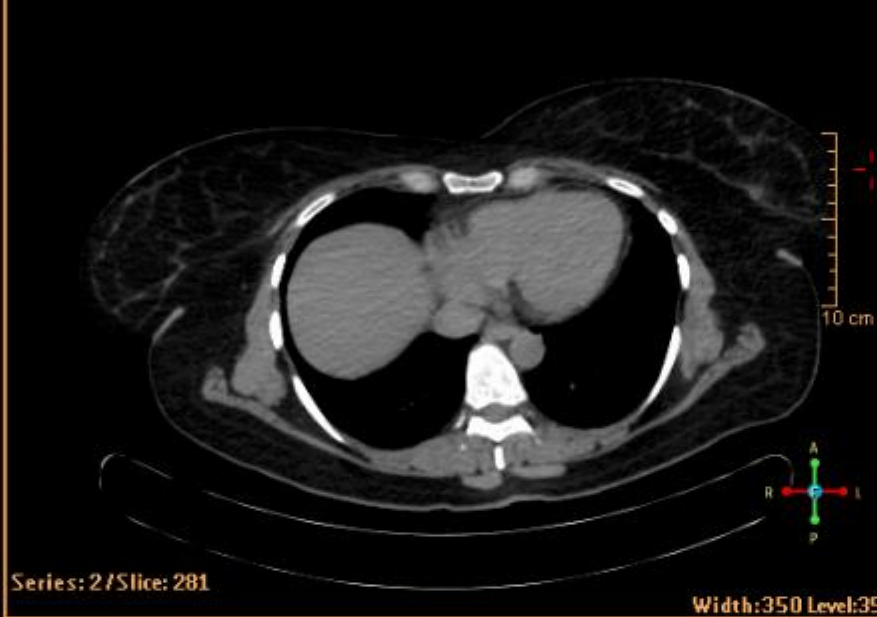
Authors	Year	Age	Stage	Chief complaint	Site of involvement	Interval to cardiac metastasis (years)	Primary treatment
Togo et al. (13)	2013	39	Ila	Nausea and vomiting	IVC-RA	1	C + OP
Nakao et al. (15)	2006	57	IIIb	Chest pain	IVC-RA	0.8	C + R
Ferraz et al. (8)	2005	63	•	Fatigue and dyspnea	RV-PA	33	C + R + OP
Iwaki et al. (12)	2001	49	•	Cough and low-grade fever	RV	0	C + R
Sergi et al. (14)	1999	50	Ila	Oliguria/anuria and shortness of breath	RA, LA, RV, LV	0.7	C + R + OP
Ando et al. (11)	1996	41	IIb	Slight dyspnea and abdominal pain	RV	0.8	R + OP
Schwakat et al	2014	33	IIb	mild dyspnea	apical myocard	2	OP + R + C
Kaplan case	2015	38	IB2	asymptomatic (PET-CT)	apical myocard	0	C + Avastin

Myocardial & Intracardiac Cervical Metastases –Poor Prognosis

- 13 cases of cardiac metastases
- 11 intracardiac
- All except 2 found at metastatic recurrence
- 1-13 months interval time from cardiac metastasis to death
- Rt Heart failure most common cause of death

Case

- ⦿ During treatment Cardiac arrhythmia – VT – Hospitalization and beta blockers
- ⦿ Perianal Abscess drainage
- ⦿ Tolerated treatment very well with very good quality of life



Case

- ⦿ Gyn Exam + PET-CT: Complete remission of cervical mass and bone metastasis.
- ⦿ Partial response of cardiac mass
- ⦿ Currently weekly Carbo +Taxol
- ⦿ No Avastin
- ⦿ Recent Cardiac MRI -50% reduction in Cardiac mass (including fibrosis)
- ⦿ Awaiting possible cardiac surgery

Thank you