GYNAE ONCOLOGY: THE OTHER SIDE OF THE DRAPES..

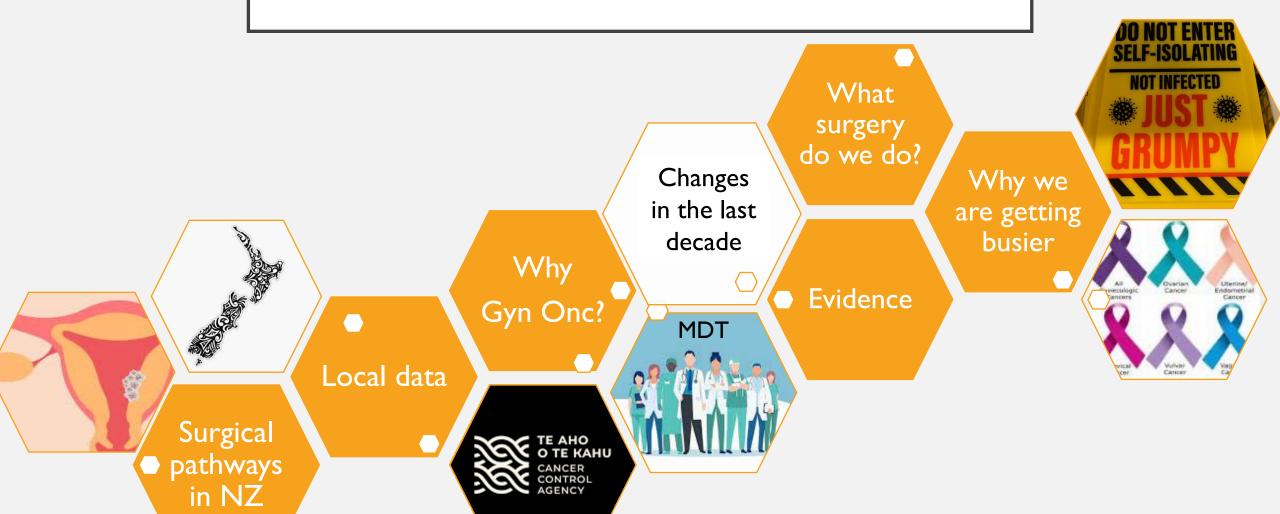
Dr Lois Eva

Clinical Director Gynaecological Oncology

National Women's at Te Toka Tumai

Auckland

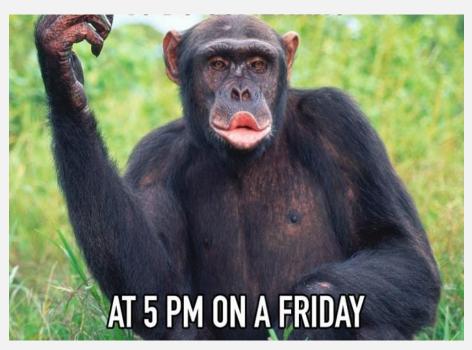
GYNAE ONCOLOGY IN 30 MINS...





 Any resemblance to any real anaesthetists, living or dead, is purely coincidental

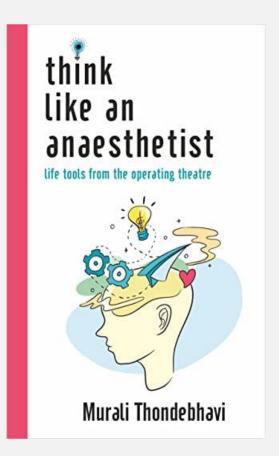
IT'S NOT ALWAYS LIKE THIS





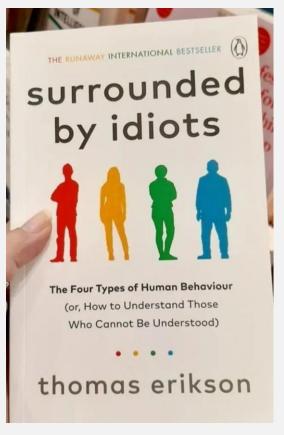


WHAT'S GOING THROUGH YOUR MIND?







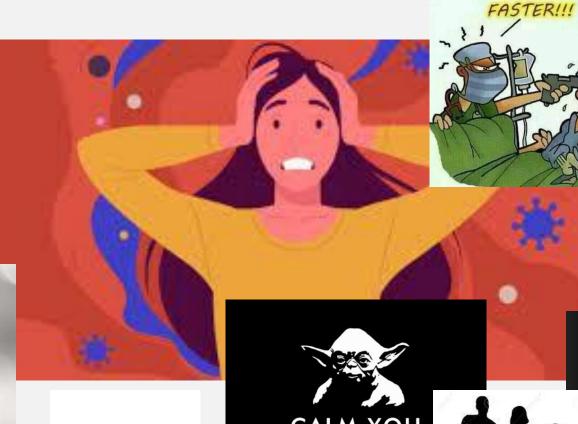




WHAT'S GOING THROUGH MY MIND?







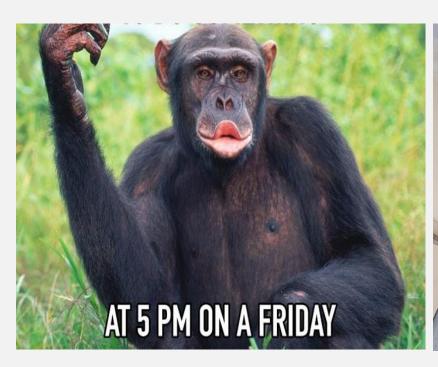








OR SOMETIMES...IN SOMEONE ELSE'S THEATRE

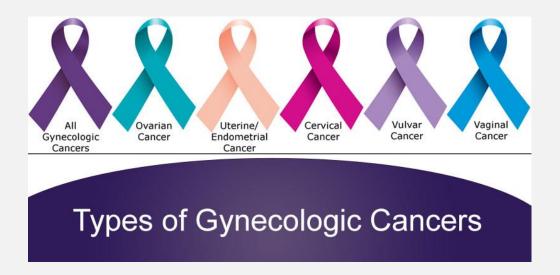






HOW DID WE GET HERE?

- Specialised training
- High volume centres
- Better outcomes
- Better Survival



It Takes a Team...

Report to the Ministry of Health on a proposed national service improvement plan for gynaecological cancer services



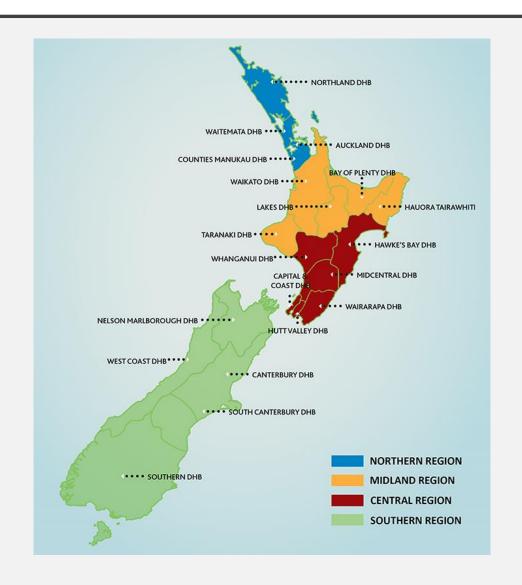
Standards of
Service Provision for
Women with Gynaecological
Cancer
in New Zealand

National Gynaecological Cancer Working Group

Report to the Ministry of Health -National Gynaecological Oncology Service Provision Models

Subgroup of the National Gynaecological Cancer Working Group, 17 February 2014

GYNAECOLOGICAL CANCER REGIONS OF AOTEAROA



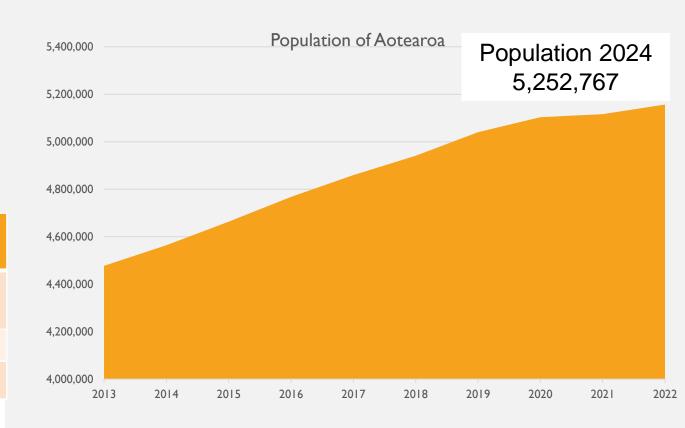


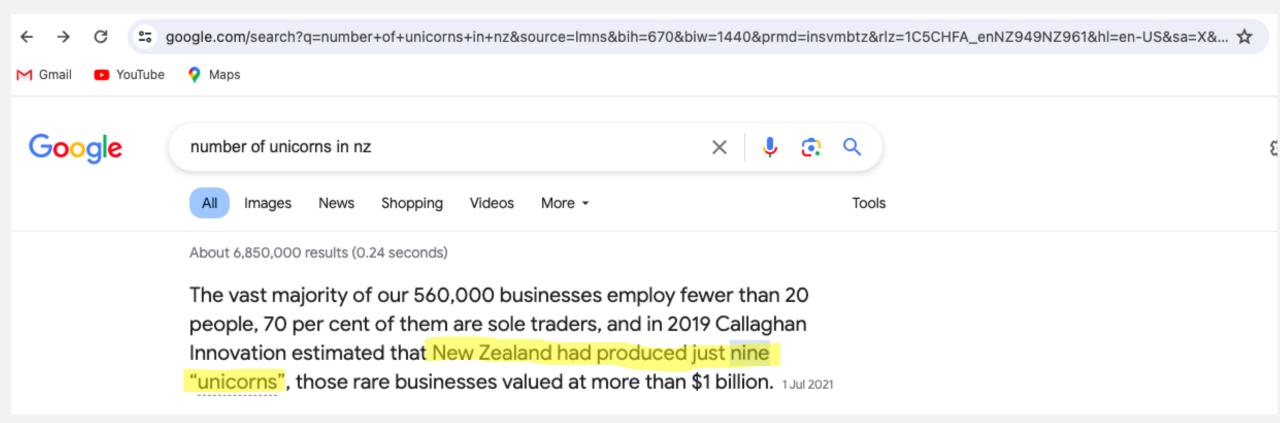
GYNAECOLOGICAL CANCER REGIONS OF AOTEAROA: 3 CENTRE MODEL 2013

Three centre model			
Northern	2,300,000		
Central	980,000		
Southern	1,000,000		

	Four centre model	Three centre model	2024
Auckland	5	7-8	4
Waikato	2		
Wellington	3	3	1
Christchurch	3	3	2.5

Table 1 - ideal distribution of gynaecological oncologists







TEAM TE TOKA TUMAI





GYN ONC MDM

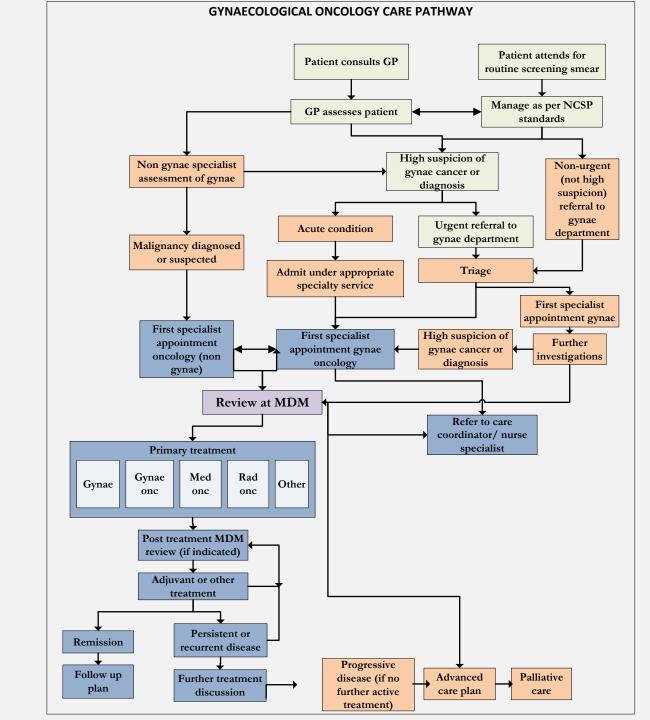
- 2 MDM Coordinators
- 3 Medical Oncologists
- 2 Radiation Oncologists
- 4 Gynae Oncologists
- 4 Gynae Pathologists
- 4 Gynae Radiologists
- 2 Gyn Onc CNS
- I Med Onc CNS

- 8 Unit Lead Gynaecologists
- 8 Local CNS

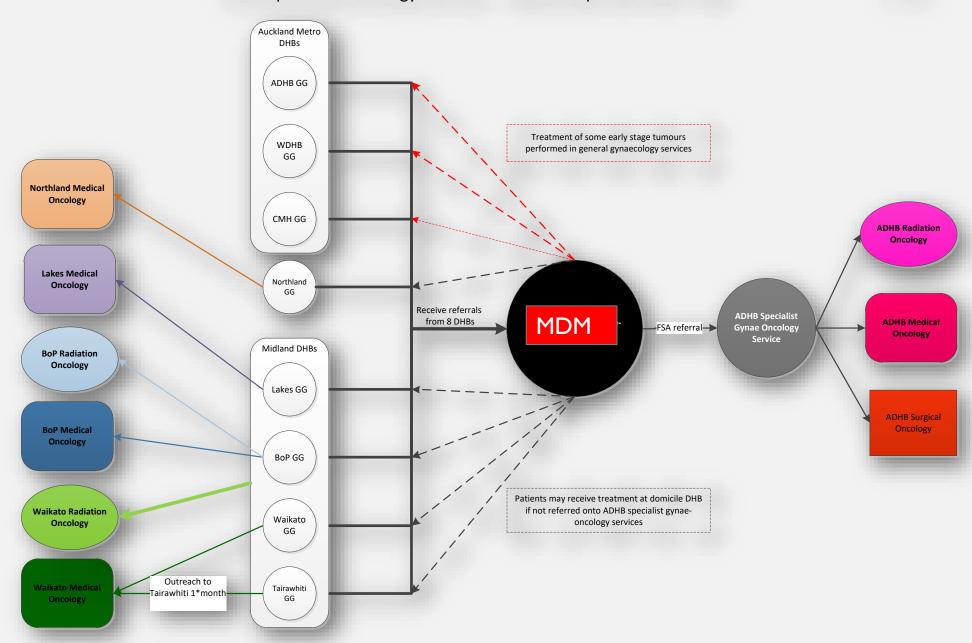


ROLE OF GYN ONC

- Coordinate regional referrals
- Host MDM
- Coordinate documentation
- Surgical services
- Regional vulval clinic
- Regional tertiary colposcopy
- CGO training centre
- Academic centre



ADHB Specialist Oncology Services – relationship with other DHBs



SURGICAL PATHWAY

Referral by Thursday I2pm MDM Wed Live local team

Clinic Thursday Surgeon Anaesthetist CNS

Surgery in 2-3 weeks

LEVEL 9 THEATRE



WARD 97

Managed with pain team

CNS phone call Day 7

MDM 2 weeks later Post op phone or F2F Local Med/Rad Onc referral Local or central follow up

TIME TO CLINIC AND SURGERY

Table 11.10 Time from first MDM to first GO Clinic appointment (clinic in 2022)*						
2021 2022						
	N=349		N=	367		
	n	%	n	%		
<7 days	185	53.0	174	47.4		
7-14 days	44	12.6	62	16.9		
>14 days	116	33.2	121	33.0		
Clinic before MDM	4	1.1	10	2.7		

Table 11.11 Time from first clinic visit to primary surgical treatment (surgery in 2022)*					
	n %				
<14 days	171 71.0				
14 - 31 days	48 19.9				
>31 days	22 9.1				

PREDICTING THE FUTURE: WHAT ACTUALLY HAPPENED...

Region	2012	2021
Central region	32	35
Midland region	26	30
Northern region	67	79
Southern region	34	36
Total	159	179

Region	2012	2021
Central region	72	83
Midland region	51	61
Northern region	93	117
Southern region	81	96
Total	297	356

Table 10 - ovarian cancer raw volume incre	ases by region
--	----------------

Region	2012	2021
Central region	98	115
Midland region	61	72
Northern region	143	180
Southern region	87	101
Total	389	469

Table 9 - endometrial	cancer	raw volume	increases	by region
-----------------------	--------	------------	-----------	-----------

Region	2012	2021
Central region	26	30
Midland region	20	23
Northern region	46	58
Southern region	31	35
Total	123	146
	Central region Midland region Northern region Southern region	Central region 26 Midland region 20 Northern region 46 Southern region 31

Table 11 - other cancer raw volume increases by region

It Takes a Team...

Report to the Ministry of Health on a proposed national service improvement plan for gynaecological cancer services

July 2011

	Cervix	Ovary	Endometrial	Other	Total
Projected North/Mid cancers 2021	109	178	252	81	620
New MDM referrals 2022	90	423	374 (all grade/stage)	218	1105
Total MDM referrals 2022	125	538	481	273	1417
Gyn Onc surgery 2022	50	218	l 24 (high grade/stage)	103	495

INCREASING AGING POPULATION

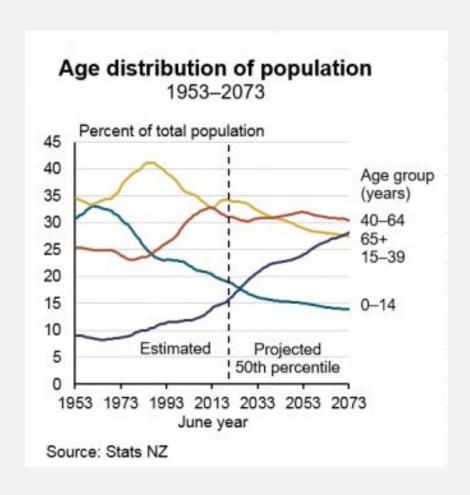
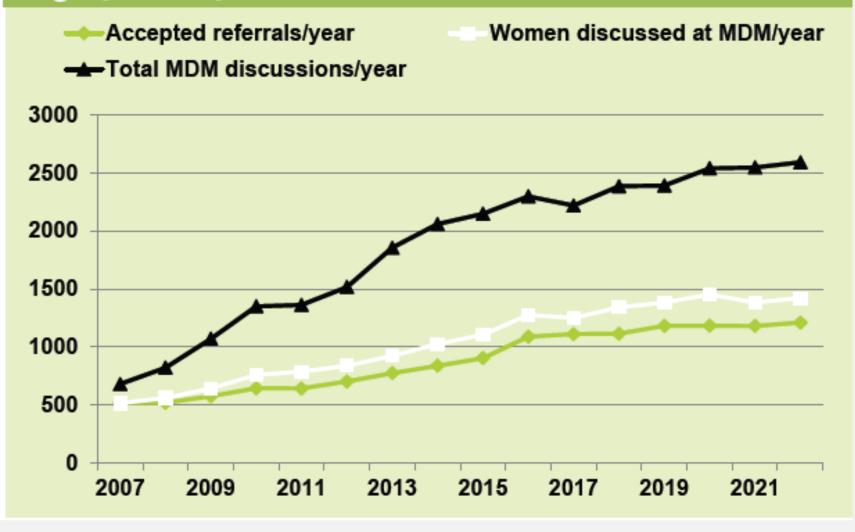


Table 11.13 Demographic characteristics								
	To	tal	Ova	rian				
		4400						
	N=	1423	N=	503				
	n	%	n	%				
Registered in 2022	1105	77.7	401	79.7				
Age								
≤25	37	2.6	23	4.6				
26-35	154	10.8	48	9.5				
36-45	208	14.6	79	15.7				
46-55	249	17.5	103	20.5				
56-65	294	20.7	89	17.7				
66-75	282	19.8	100	19.9				
>75	199	14.0	61	12.1				

Figure 11.1 Referrals and Multidisciplinary meetings (MDMs) 2007 -2022



INCREASING THEATRE TIME



INCREASING COMPLEXITY

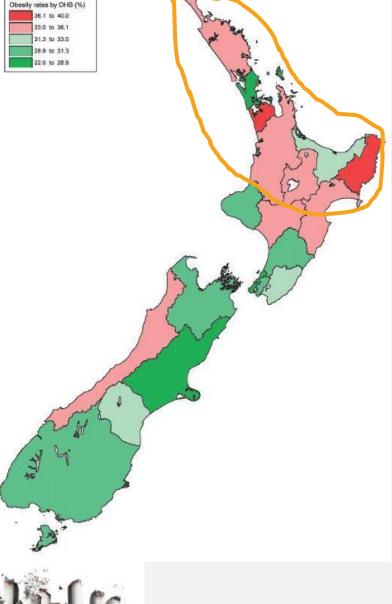


New Zealand has the third highest adult obesity rate in the OECD and our rates are rising 40 35 30 20 1977 1984 1991 1998 2005 2012 Ministry of Health. 2015. Understanding Excess Body Weight: New Zealand Health Survey. Wellington: Ministry of Health.

Pacific adults have the highest rates of obesity in New Zealand. 2 out of 3 Pacific adults are classified as obese, with almost one in three obese children. 1 out of 3 New Zealand adults are obese, with just over one in ten obese children.

WHY SITTING
IS THE NEW
SMOKING

AND HOW THIS IMPACTS

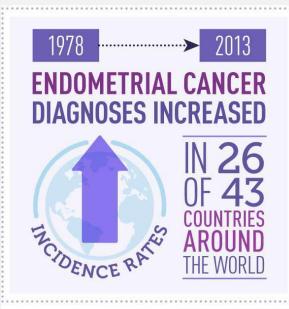


CANCER RISK AND OBESITY

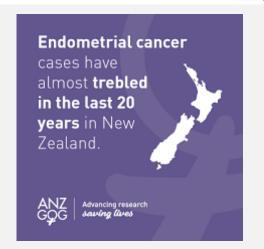
Table 2. Strength of the Evidence for a Cancer-Preventive Effect of the Absence of Excess Body Fatness, According to Cancer Site or Type.*

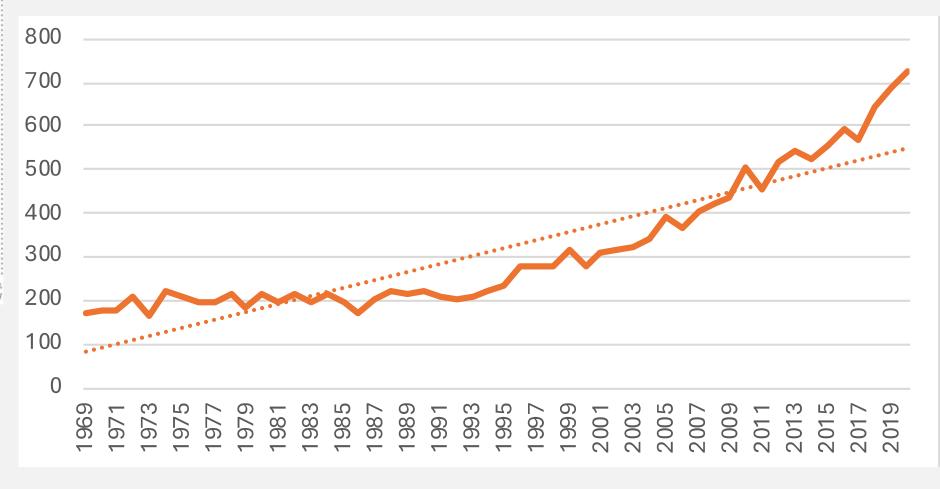
Cancar Sita or Type	Strength of the Evidence	Relative Risk of the Highest BMI Category Evaluated versus Normal BMI (95% CI);
Cancer Site or Type	in Humans† Sufficient	
Esophagus: adenocarcinoma		4.8 (3.0–7.7)
Gastric cardia	Sufficient	1.8 (1.3–2.5)
Colon and rectum	Sufficient	1.3 (1.3–1.4)
Liver	Sufficient	1.8 (1.6–2.1)
Gallbladder	Sufficient	1.3 (1.2–1.4)
Pancreas	Sufficient	1.5 (1.2–1.8)
Breast: postmenopausal	Sufficient	1.1 (1.1–1.2)∫
Corpus uteri	Sufficient	7.1 (6.3–8.1)
Ovary	Sufficient	1.1 (1.1–1.2)
Kidney: renal-cell	Sufficient	1.8 (1./–1.9)
Meningioma	Sufficient	1.5 (1.3-1.8)
Thyroid	Sufficient	1.1 (1.0-1.1)§
Multiple myeloma	Sufficient	1.5 (1.2–2.0)
Male breast cancer	Limited	NA
Fatal prostate cancer	Limited	NA

ENDOMETRIAL CANCER IN AOTEAROA NZ

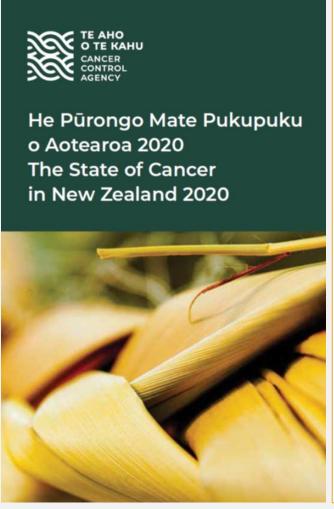


Source: Lortet-Tieulent J, et al. JNCI (2017) 110(4):djx214 Cancer.gov





ENDOMETRIAL CANCER



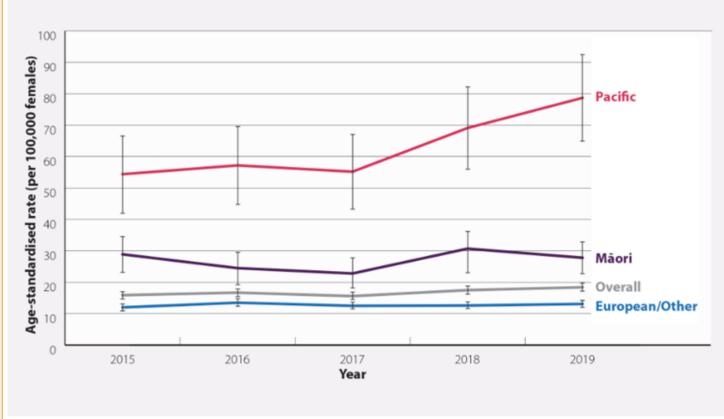


Figure 2. Age-standardised incidence rate (per 100,000 females; 95% confidence intervals)* for uterine cancer by ethnicity between 2015 and 2019 in New Zealand. N.B. Data in New Zealand are only available for uterine cancer overall; endometrial cancers represent approximately 95% of all uterine cancer diagnoses. Incidence data by ethnicity are not yet available for 2020.

Aust NZ J Obstet Gynaecol 2020; 1-8

ANZJOG

DOI: 10.1111/ajo.13108

ORIGINAL ARTICLE

Increasing incidence of endometrial carcinoma in a high-risk New Zealand community

Susan M. Bigby¹, Sandar Tin Tin², Lois J. Eva³, Phillipa Shirley³, Kieran Dempster-Rivett⁴ and Mark Elwood²

	Table 1: Inciden	ce, trends and O	utcome by Ethn	icity							
(ASI	(ASI = Age Standardised Incidence, APC= Annual Percentage Change, CI = Confidence Interval										
	National	Counties Total	Maori	Pacific	Other						
All women: n (%)	5486 (100%)	588 (100%)	82 (13.9%)	242 (41.2%)	264 (44.9%)						
Age <50 years: n (%)	707 (12.9%)	157 <i>(26.7%)</i>	24 (29.3%)	96 (39.7%)	37 (14.0%)						
Age 50+ years: n (%)	4779 (87.1%)	431 (73.3%)	58 (70.7%)	146 (60.3%)	227 (86.0%)						
Average ASI – all women	14.5/100 000	22.97/100 000	32.33 (RR= 2.47)	66.88 (<i>RR= 5.11</i>)	13.09 (RR= 1.0)						
Average trends in incidence: APC (95%CI)	2.01 (1.40, 2.60)	7.3 (3.4, 11.1)	7.2 (0.2, 14.6)	9.3 (4, 14.9)	3.4 (0.5, 6.4)						
Disease specific mortality	4.7/100 000	4.14/100 000									
Trends in disease specific mortality: APC (95%CI)	- 4.91 (-5.80, -4.00)	7.3 (3.7, 11.1)									

PART OF THE HEALTH EQUITY PROBLEM

Table 11.13 Demographic characteristics of women discussed at MDM in 2022 by primary site																
	То	tal	Ova	ria n	Perito	neum		pian be		metri- m	Ute	erus	Ce	rvix	Vu	lva
	N=	1423	N=	503	N=	13	N=	22	N=	481	N=	84	N=	125	N=	62
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Registered in 2022	1105	77.7	401	79.7	8	61.5	14	63.6	374	77.8	74	881	90	72.0	31	50.0
Ethnicity																
Māori	210.0	14.8	71.0	14.1	1.0	7.7	1.0	4.5	84.0	17.5	11.0	13.1	24.0	19.2	2.0	3.2
Pacific	255	17.9	76	15.1	2	15.4	2	91	132	27.4	9	10.7	19	15.2	1	1.6
Asian	216	15.2	75	14.9	0	0.0	3	13.6	62	12.9	18	21.4	27	21.6	2	3.2
MELAA	18	1.3	5	1.0	0	0.0	1	4.5	5	1.0	3	3.6	0	0.0	0	0.0
European	724	50.9	276	54.9	10	76.9	15	68.2	198	41.2	43	51.2	55	44.0	57	91.9

ENDOMETRIAL CANCER IN WAHINE UNDER 45

263 Women under 45 over 8 years
2-3 per month

Mean age 37.9 (21-45)

93.9% Endometrioid type

Conservation of ovaries

Table 1. Ethnicity		Figure 1. Body Mass Index of study population					
Ethnicity	Number* (%)	50- Mean = 43,08 Std. Dev. = 12,003 N = 228					
Pacific Islander	125 (47.9)	40-					
Māori	49 (19.1)	40					
(NZ) European	25 (9.8)	30-					
Asian	23 (9.0)	Frequency - 200					
Cook Island Māori	16 (6.1)	20-					
Indian	12 (4.7)	10-					
Other	2 (0.8)						
* 11 missings		0 20 40 60 80 100 BMI					

Gynecologic Oncology 140 (2016) 184-190



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journal homepage: www.elsevier.com/locate/ygyno

Review

Body mass index and mortality in endometrial cancer: A systematic review and meta-analysis



Angeles Alvarez Secord ^{a,*}, Vic Hasselblad ^b, Vivian E. Von Gruenigen ^c, Paola A. Gehrig ^d, Susan C. Modesitt ^e, Victoria Bae-Jump ^d, Laura J. Havrilesky ^a

Table 3
Estimated odds ratio of all-cause mortality per 10% Increase in BMI.

Parameter	Estimate	Lower CI limit	Upper CI limit	p-Value
Per 10% increase in BMI	1.092	1.027	1.161	0.007
Extra variation (σ)	0.265	NA	NA	<0.0001

Odds Ratio of Mortality Relative to a BMI of 25 Based on the Overall Model and on the Interval Estimates

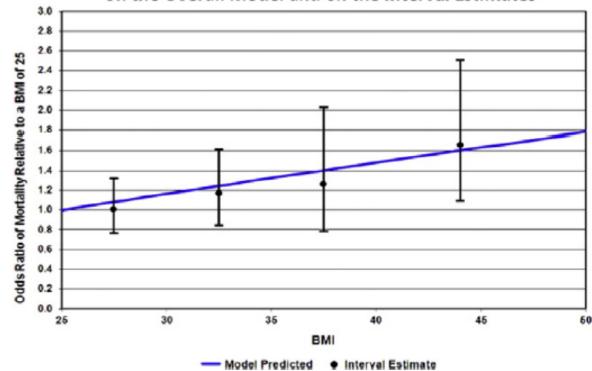
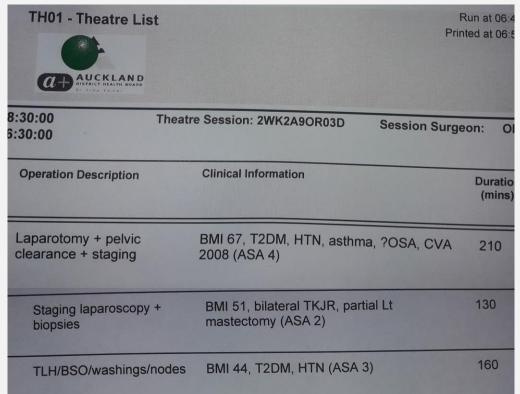


Fig. 2. The figure depicts the odds ratio of all-cause mortality relative to a BMI of 25 based on the overall model and on the interval estimates. The odds of all-cause mortality were significantly increased with increasing BMI.

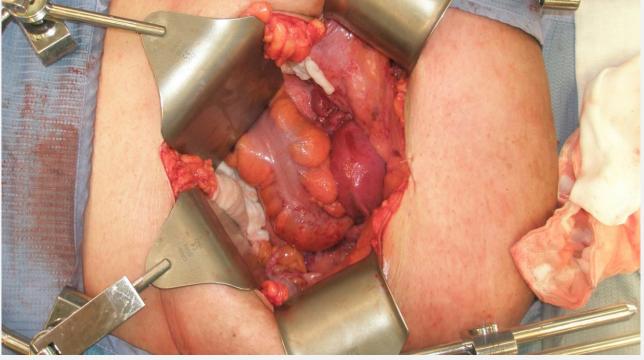
ANOTHER DAY AT THE OFFICE





OBESITY OPEN SURGERY: MORE KIT, MORE TIME.....





CUSTOM MADE KIT









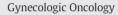
MORE COMPLICATIONS?

Table 2 Surgical complications and outcomes according to BMI groups.								
Variables	BMI <30 kg/m ²	BMI 30–39,9 kg/m²	BMI ≥40 kg/m ²	Analysis				
	N = 249	N = 195	N = 70	P-value				
Overall complications								
Yes	47 (18.9%)	57 (29.2%)	23 (32.9%)	0.010*				
No	202 (81.1%)	138 (70.8%)	47 (67.1%)					
Intra-operative complications								
Yes	5 (2.0%)	1 (0.5%)	2 (2.9%)	0.197				
No	244 (98.0%)	194 (99.5%)	68 (97.1%)					
Individual complications								
Bowel injury	2 (0.8%)	0 (0%)	0 (0%)	0.632				
Bladder injury	0 (0%)	1 (0.5%)	0 (0%)	0.516				
Ureter injury	0 (0%)	0 (0%)	1 (1.4%)	0.136				
Vascular injury	1 (0.4%)	0 (0%)	0 (0%)	1.000				
Other	2 (0.8%)	0 (0%)	1 (1.4%)	0.259				
Postoperative complications								
Yes	44 (17.7%)	57 (29.2%)	22 (31.4%)	0.005*				
No	205 (82.3%)	138 (70.3%)	48 (68.6%)					
Clavien-Dindo grade				0.021*				
1	13 (30.2%)	4 (7.3%)	1 (4.5%)					
2	26 (60.5%)	43 (78.2%)	16 (72.7%)					
3	2 (4.7%)	4 (7.3%)	4 (18.2%)					
4	2 (4.7%)	4 (7.3%)	1 (4.5%)					

Gynecologic Oncology 139 (2015) 369-376



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The impact of BMI on surgical complications and outcomes in endometrial cancer surgery—An institutional study and systematic review of the literature



Frederique Bouwman ^a, Anke Smits ^b, Alberto Lopes ^b, Nagindra Das ^b, Adam Pollard ^c, Leon Massuger ^a, Ruud Bekkers ^a, Khadra Galaal ^{b, e}

- Radboud UMC, Nijmegen, The Netherlands
 Royal Cornwall Hospital Trust, Truro, Cornwall, United Kingdom
 European Centre for the Environment and Human Health, University of Exeter Medical School, Truro, Cornwall, United Kingdom

Table 2
Surgical complications and outcomes according to BMI groups.

Variables	BMI <30 kg/m ²	BMI 30-39.9 kg/m ²	BMI ≥40 kg/m ²	Analysis
	N = 249	N = 195	N = 70	P-value
Wound complication	7 (2.8%)	17 (8.7%)	11 (15.7%)	<0.001*
Laparoscopic	1 (0.4%)	1 (0.5%)	0 (0%)	0.811
Open	6 (2.4%)	16 (8.2%)	11 (15.7%)	<0.001*
Ileus	6 (2.4%)	1 (0.5%)	0 (0.0%)	0.176
Antibiotics use	26 (10.4%)	43 (22.1%)	17 (24.3%)	0.001*
Laparoscopic	7 (2.8%)	12 (6.2%)	3 (4.3%)	0.112
Open	17 (6.8%)	31 (15.9%)	13 (18.6%)	0.002*
Urinary tract infection	5 (2.0%)	5 (2.6%)	3 (4.3%)	0.499
Pneumonia	5 (2.0%)	7 (3.6%)	1 (1.4%)	0.623
Pelvic abscess	1 (0.4%)	1 (0.5%)	0 (0%)	1.000
Secondary haematoma	5 (2.0%)	4 (2.1%)	0 (0%)	0.728
Venous thrombo-embolism	3 (1.2%)	0 (0%)	0 (0%)	0.372
Sepsis	1 (0.4%)	1 (0.5%)	0 (0%)	1.000
Renal complication	1 (0.4%)	1 (0.5%)	1 (1.4%)	0.523
Cardiac complication	3 (1.2%)	5 (2.6%)	1 (1.4%)	0.594
Organ failure	2 (0.8%)	4 (2.1%)	0 (0%)	0.430
Relaparotomy	3 (1.2%)	5 (2.6%)	2 (2.9%)	0.413
Other	17 (6.8%)	15 (7.7%)	5 (7.1%)	0.971
30-day mortality	1 (0.4%)	2 (1.0%)	0 (0%)	0.732
90-day mortality	3 (1.2%)	3 (1.5%)	0 (0%)	0.865
Other operative outcomes				
Conversion to laparotomy	7 (5.6%)	16 (16.5%)	9 (21.4%)	0.006*
EBL, mean (SD)				
Laparoscopic	72 (75.7)	116 (110.6)	125 (92.6)	<0.001*
Open	267 (201.8)	290 (272.7)	258 (200.8)	0.901
Transfusion				0.768
(intra- & post-op)				
Yes	6 (2.4%)	7 (3.6%)	2 (2.9%)	
No	243 (97.6%)	188 (96.4%)	68 (97.1%)	
Hospital stay Mean (SD)	5.1 (3.8)	4.7 (2.5)	4.7 (3.3)	0.722



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Impact of body mass index and operative approach on surgical morbidity and costs in women with endometrial carcinoma and hyperplasia



Rudy S. Suidan ^a, Weiguo He ^b, Charlotte C. Sun ^a, Hui Zhao ^b, Nicole D. Fleming ^a, Pedro T. Ramirez ^a, Pamela T. Soliman ^a, Shannon N. Westin ^a, Karen H. Lu ^a, Sharon H. Giordano ^b, Larissa A. Meyer ^{a,*}

Complications associated with increasing BMI and open surgery Mainly Wound infections and VTE

Uncomplicated MIS cheaper than open

Complications are more expensive with higher BMI and open surgery

Table 4 30-day total costs stratified by body mass index and surgical approach.

Body mass index (Kg/m ²)	All patients	All patients		Open abdominal surgery		invasive surgery	Cost difference	p
	Median	IQR	Median	IQR	Median	IQR	Median	
≤29	\$16,555	\$11,123-\$24,983	\$19,345	\$13,287-\$26,333	\$14,976	\$9942-\$22,663	\$4369	<0.001
30-39	\$16,775	\$10.873-\$24.920	\$18.864	\$12.094-\$26.715	\$16.088	\$10.218-\$23.501	\$2776	0.01
≥40	\$17,302	\$11,202-\$26,243	\$21,649	\$13,893-\$30,277	\$14,882	\$10,215-\$23,456	\$6767	< 0.001
Overall	\$16,/85	\$11,049-\$25,450	\$19,770	\$13,207-\$27,452	\$15,3//	\$10,128-\$23,403	\$4393	<0.001

Table 5
Impact of complications on 30-day total costs.

Surgery type	Body mass index (Kg/m ²)	Complication	Complication		ation	Cost difference	p
		Median	IQR	Median	IQR	Median	
All patients	≤29	\$26,350	\$14,858-38,982	\$15,564	\$9935-22,482	\$10,786	< 0.001
_	30-39	\$25,399	\$15.833-30.838	\$15.976	\$10.469-23.316	\$9423	< 0.001
	≥40	\$27,251	\$15,591-43,777	\$14,999	\$10,208-22,817	\$12,252	< 0.001
	Total	320,301	\$15,5 41 -56,151	\$10,004	\$11,701-23,430	\$10,737	~ U.UU I
Open abdominal surgery	≤29	\$27,151	\$17,927-48,499	\$17,215	\$10,056-21,989	\$9936	< 0.001
	30-39	\$26,776	\$19,773-36,511	\$15,794	\$12,418-24,156	\$10,982	< 0.001
	≥40	\$29,545	\$20,085-44,578	\$17,060	\$11,375-23,182	\$12,485	< 0.001
	Total	\$27,745	\$19,131-41,095	\$16,427	\$9619-22,019	\$11,318	< 0.001
Minimally invasive surgery	≤29	\$21,035	\$12,528-35,763	\$14,574	\$9701-22,627	\$6461	0.004
	30-39	\$18,518	\$14,016-27,866	\$15,976	\$9493-22,154	\$2542	0.04
	≥40	\$18,471	\$14,401-39,725	\$13,819	\$9609-22,269	\$4652	0.003
	Total	\$19,961	\$13,774-32,476	\$15,036	\$9935-22,482	\$4925	< 0.001

IQR, interquartile range.

a Department of Gynecologic Oncology and Reproductive Medicine, Division of Surgery, The University of Texas MD Anderson Cancer Center, Houston, TX, United States

b Department of Health Services Research, The University of Texas MD Anderson Cancer Center, Houston, TX, United States

ENDOMETRIAL CANCER, LAPAROSCOPIC SURGERY AND OBESITY

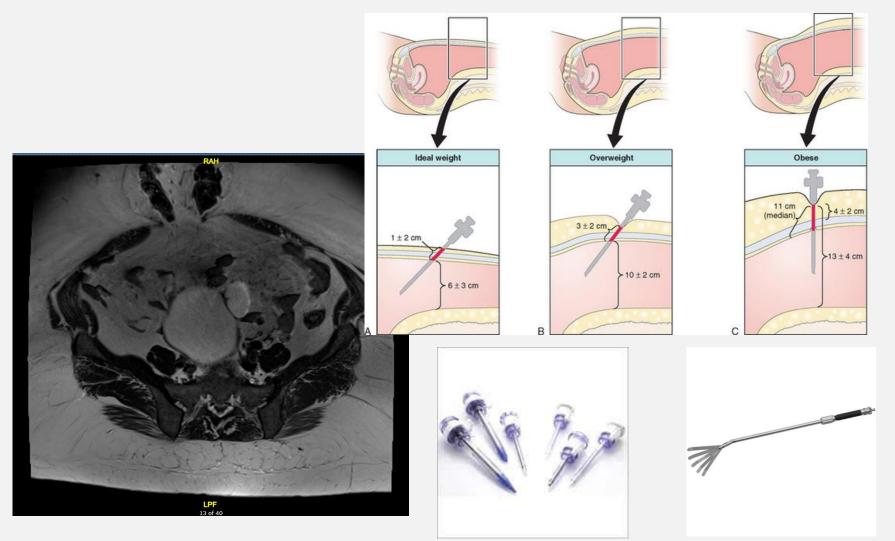
- Move to TLH as default
- Home next morning
- 2019 Formal protocol with anaesthesia
- 2020 Move to sentinel nodes
- 2022 75% TLH (BMI 20 82)

ADHB Guideline for Enhanced Recovery for Major Gynaecological Oncology Minimally Invasive Surgery

4.4 Anaesthesia

- CHO loading 2 hours prior to anaesthesia [7-9]
- No routine epidural or spinal [11-13]
- Work with the surgeon to achieve adequate head-down tilt sufficient for bowel retraction from the pelvis. Parameters to work within are airway pressures
 <30cmH2O, rising and difficult to control CO2 and hypoxaemia[14]
- Multimodal analgesia
 - IV lignocaine infusion as per protocol [15]
 - Fixed rate infusion between 6-12 mls/hour for 12 hours in total then ceased.
 - Improves gut function with less ileus
 - Reduces nausea and vomiting
 - There is growing evidence of benefit in preventing cancer recurrence [16]
 - Opioid sparing approach
 - No routine PCA [17, 18]

ENTRY DIFFICULTIES









GETTING THAT VIEW.....

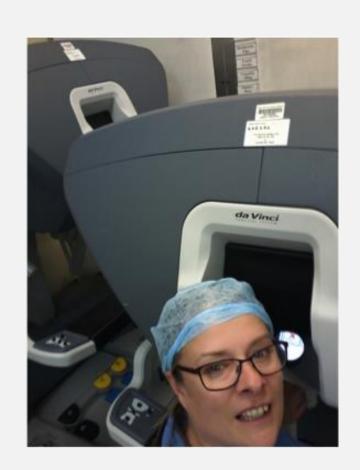


- Steep Trendelenburg is the optimal position for gynaecological MIS [14]
 - 20 30 degrees of Trendelenburg is required in most cases to sufficiently retract bowel from the pelvis and efforts should be made to maintain optimal positioning.
 - Steep Trendelenburg may not be possible for all patients and difficult cases should be discussed between surgeon and anaesthetist.
 - A tiltometer should be used to measure incline for head down

ASSOCIATED WITH OBESITY...

- Increased post operative complications
- Decreased overall but not disease specific survival
- Increased costs, particularly if complications
- Increased use of resources
- More complications and costs in open surgery than MIS

- Surgeon and anaesthetist pain
- Robotics may save my back... but we don't have one



Sentinel nodes for endometrial cancer



The state of the s lymphadenectomy for endometrial cancer staging (FIRES trial): a multicentre, prospective, cohort study

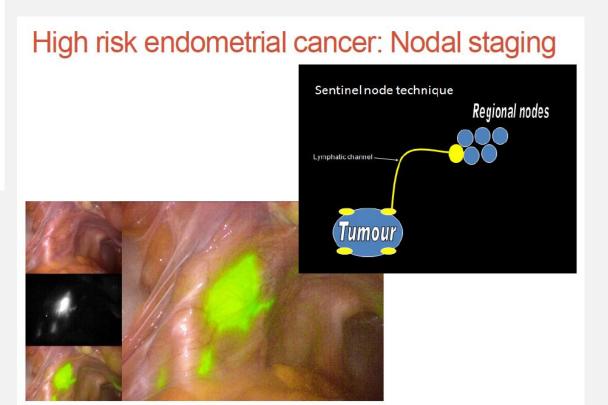
> Emma C Rossi, Lynn D Kowalski, Jennifer Scalici, Leigh Cantrell, Kevin Schuler, Rabbie K Hanna, Michael Method, Melissa Ade, Anastasia Ivanova. Lancet Oncol 2017; 18: 384-92

Interpretation Sentinel lymph nodes identified with indocyanine green have a high degree of diagnostic accuracy in detecting endometrial cancer metastases and can safely replace lymphadenectomy in the staging of endometrial cancer. Sentinel lymph node biopsy will not identify metastases in 3% of patients with node-positive disease, but has the potential to expose fewer patients to the morbidity of a complete lymphadenectomy.

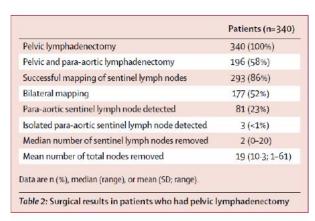
ICG injection to cervix Infrared laparoscopy

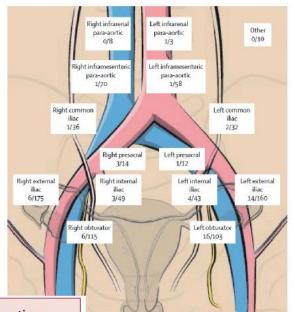
Less morbidity Less operating time

CHANGE IN PRACTICE



CHANGING PRACTICE 2018 2020





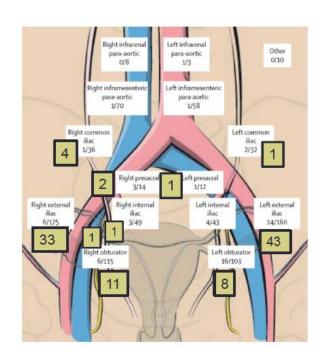
	True positive nodes	True negative nodes
ositive sentinel lymph node	35	0
Negative sentinel lymph node	1	257

Sentinel nodes for EC... the first 40

- 39 endometrium
- 1 cervix
- 80 hemi pelvis mappings
- 102 nodes
- 9 not mapped (1 bilateral)
 = 11.3% failure rate

FIRES:14% unsuccessful mapping

No adverse events

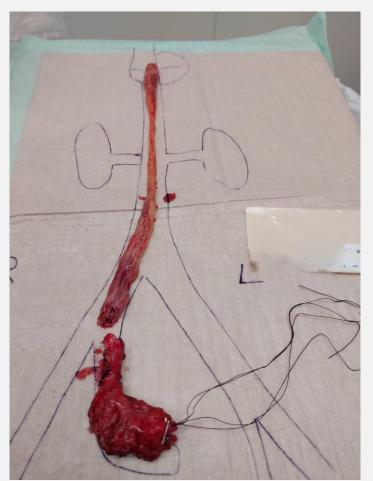


SURGICAL CHANGES IN PAST DECADE

- More MIS... except for cervix
- Sentinel nodes for vulval and endometrial cancer

- More radical surgery for ovarian cancer
- More reconstructive surgery for vulval cancer
- More recurrence and exenterative procedures

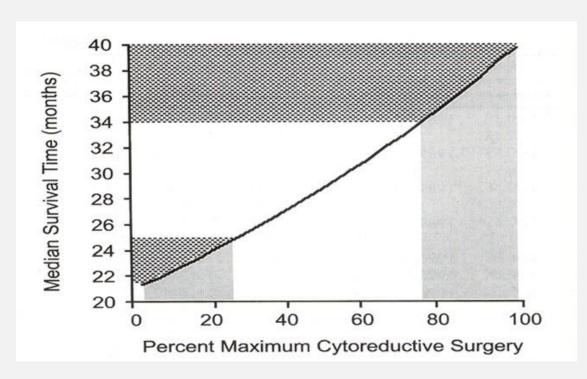
21 ST CENTURY GYN ONC...GOING BEYOND THE PELVIS

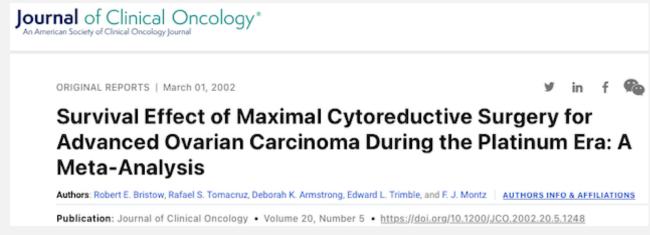






TUBO-OVARIAN CANCER: THE PAST 20 YEARS





Median survival increases by 5.5% for every 10% increase in cytoreduction

RECURRENT OVARIAN CANCER

The NEW ENGLAND JOURNAL of MEDICINE

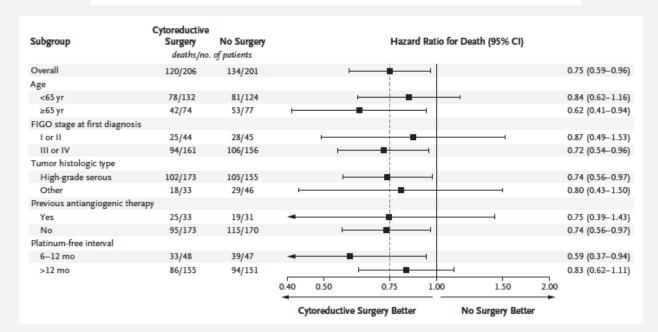
ESTABLISHED IN 1812

DECEMBER 2, 2021

VOL. 385 NO. 23

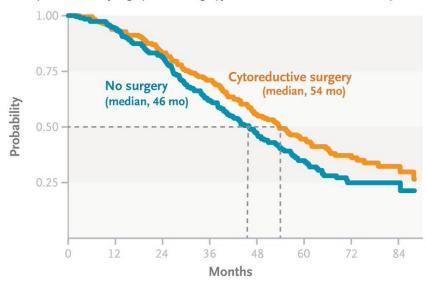
Randomized Trial of Cytoreductive Surgery for Relapsed Ovarian Cancer

P. Harter, J. Sehouli, I. Vergote, G. Ferron, A. Reuss, W. Meier, S. Greggi, B.J. Mosgaard, F. Selle, F. Guyon, C. Pomel, F. Lécuru, R. Zang, E. Avall-Lundqvist, J.-W. Kim, J. Ponce, F. Raspagliesi, G. Kristensen, J.-M. Classe, P. Hillemanns, P. Jensen, A. Hasenburg, S. Ghaem-Maghami, M.R. Mirza, B. Lund, A. Reinthaller, A. Santaballa, A. Olaitan, F. Hilpert, and A. du Bois, for the DESKTOP III Investigators*



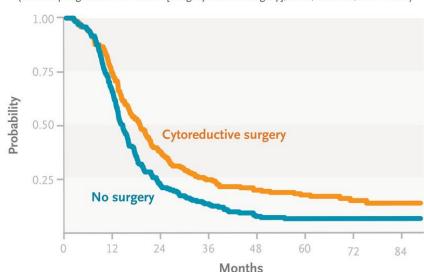
Overall Survival

(HR for death [surgery vs. no surgery], 0.75; 95% CI, 0.59–0.96; P=0.02)



Progression-free Survival

(HR for progression or death [surgery vs. no surgery], 0.66; 95% CI, 0.54–0.82)



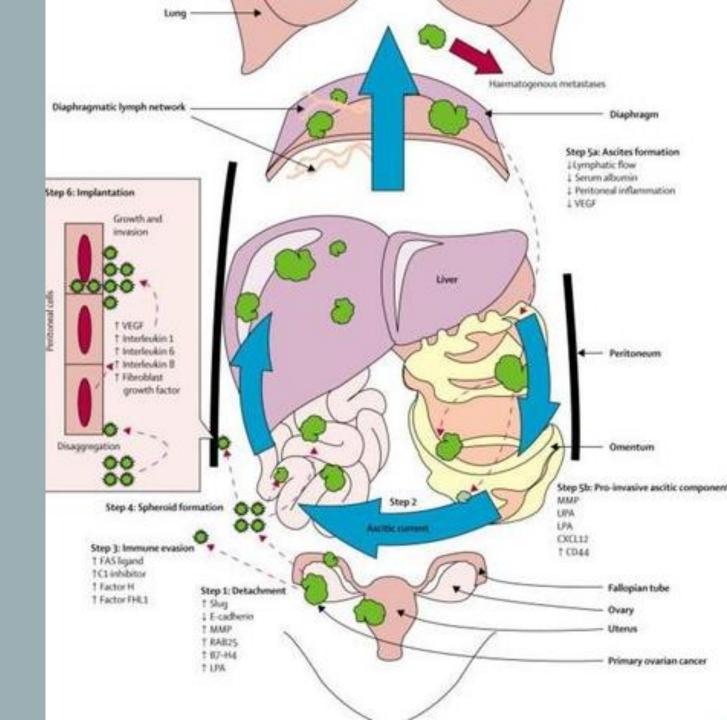
OVARIAN CANCER

Non specific symptoms

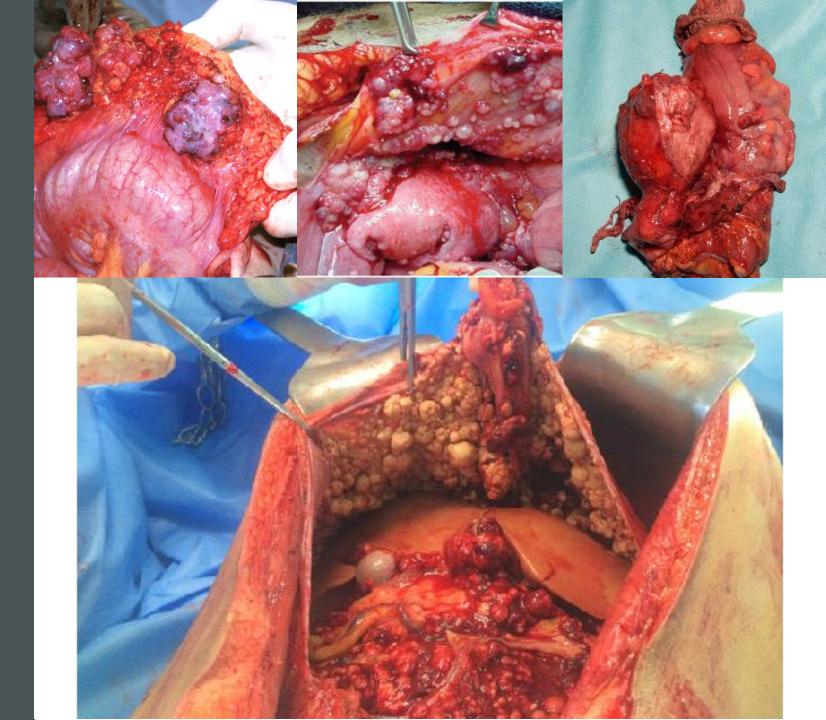
Late presentation: Stage 3 or 4

202265 early staged

75 advanced operations12 recurrent operations30% stage 3/4 never get to surgery



ADVANCED OVARIAN CANCER



SURGICAL STRATEGY ADVANCED OVARIAN CANCER

PRIMARY DEBULKING SURGERY 6 CYCLES
ADJUVANT
CHEMOTHERAPY



NEOADJUVANT CHEMOTHERAPY 3 CYCLES INTERVAL DEBULKING SURGERY NEOADJUVANT CHEMOTHERAPY 3 CYCLES

CYTOREDUCTION



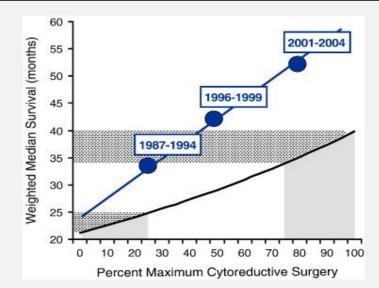
Gynecologic Oncology

Volume 114, Issue 1, July 2009, Pages 26-31



Improved progression-free and overall survival in advanced ovarian cancer as a result of a change in surgical paradigm





	1996-99	2001-4
Optimal cytoreduction	50%	80%
Median OS (months)	43	58
		P=0.004

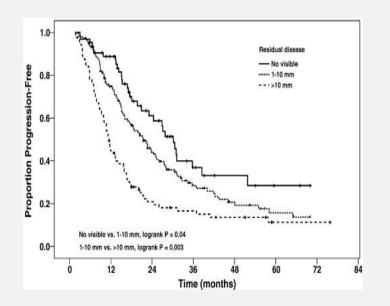


Gynecologic Oncology

Volume 108, Issue 2, February 2008, Pages 276-281



The effect of maximal surgical cytoreduction on sensitivity to platinum-taxane chemotherapy and subsequent survival in patients with advanced ovarian cancer *

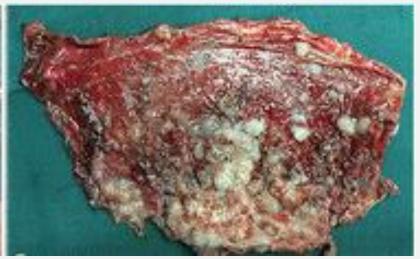


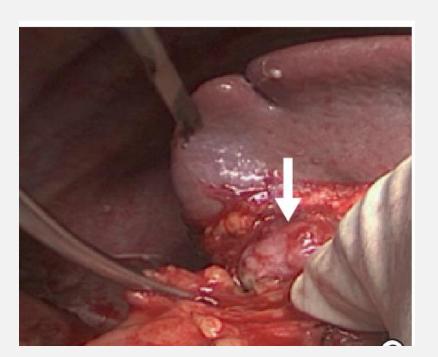
Surgical Aim: R0 No visible disease

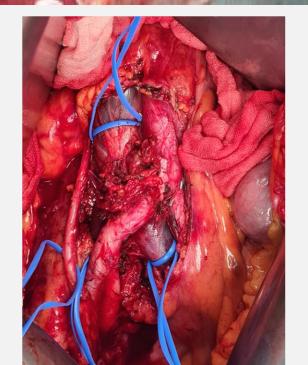
CHANGING OUR PRACTICE: RADICAL CYTOREDUCTION













INCREASING THEATRE TIME



CAN WE PREDICT HOW LONG IT WILL TAKE?

TABLE 2. Studies using CT scan to predict surgical outcome

Study	Туре	n	Age, yr*	Stage III/IV	RD, cm	OC, %	CA 125	Sens, %	Spec,	PPV, %	NPV, %	Accuracy, %
Nelson et al ⁴²	Retro	42	61	81%	2	69	_	92	71	67	94	86
Meyer et al ⁴³	Retro	28	61	64%	2	57	_	58	100	100	55	79
Bristow et al ⁴⁶	Retro	41	67	Yes	1	49	_	100	85	87.5	100	93
Axtell et al ⁴⁷	Retro	65	_	Yes	1	78	_	79	75	_	_	77
Dowdy et al ⁴⁴	Retro	87	68	Yes	1	71	500	64	81	57	85	71
Byrom et al ⁴⁸	Retro	51	_	54%	2	51	250	88	98	95	_	73
*Median age.												

TABLE 3. Studies using laparoscopy to predict surgical outcome

Study	Type	n	Age, yr*	Stage III/IV	RD, cm	OC, %	Sens,	Spec,	PPV, %	NPV, %	Accui
Fagotti et al ⁵⁴	Prosp	113	59	Yes	1	50	_	_	100	60	93
Fagotti et al ⁵⁵	Prosp	64	57	Yes	1	55	30	100	100	70	75
Brun et al ⁵⁶	Retro	26	60	Yes	1	69	46	89	89	44	60
Angioli et al ⁵⁷	Prosp	87	58	Yes	0	96%	_	_	_	_	_
Deffieux et al ⁵⁸	Prosp	15	54	Yes	0	99%	_	_	_	_	_

^{*}Median age.

Prosp, prospective study.



PREDICTION BY IMAGING OF BOWEL RESECTIONS

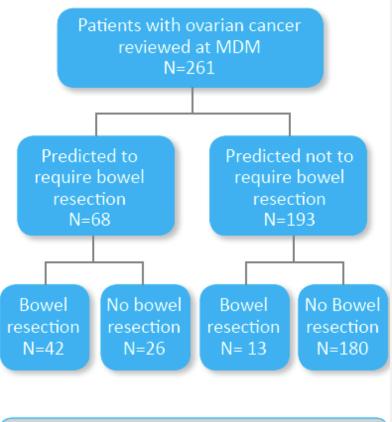
Sensitivity and	specificity for	r CT predict	ors of surgi	ical findings.
-----------------	-----------------	--------------	--------------	----------------

CT finding	Surgical finding	Sensitivity % (n/N)	Specificity % (n/N)
Diaphragm (any involvement)	Same	48% (15/31)	100% (15/15)
Pleural effusion	Diaphragm	65% (20/31)	87% (13/15)
Ascites on 2/3 of images	Ascites	44% (16/36)	100% (10/10)
Any sigmoid involvement	Same	54% (21/39)	100% (7/7)
Omental cake	Same	72% (21/29)	65% (11/17)
Splenic involvement	Same	100% (1/1)	96% (43/45)
Surface liver	Same	100% (1/1)	93% (42/45)
DPT	Mesenteric disease	36% (13/36)	90% (9/10)
Signiola encasement	Same	(פכוכו) אככ	100% (7/7)
Large bowel involvement	Same	29% (10/35)	91% (10/11)
parenchymal) disease	rarenenyma nver	100% (1/1)	0 20 (25/ 15)
DPT	Carcinomatosis	34% (13/38)	88% (7/8)

DPT, Diffuse peritoneal thickening,

G. Glaser et al. / Gynecologic Oncology 130 (2013) 280-283

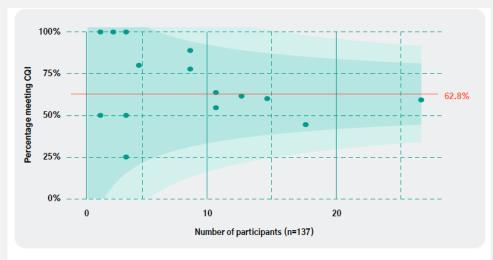




%	Sensitivity	Specificity	PPV	NPV
Prediction of Bowel Resection	76.36	87.34	61.8	93.3

TE TOKA TUMAI CYTOREDUCTION RATES

Table 11.17 Surgical debulking and bowel surgery at primary, interval and recurrence surgery for ovarian, fallopian tube and peritoneum cancer 2022										22		
	Total			Primary tro			Interval debulking				Surgery for recurrence	
			stag	e 1/2	stag	e 3/4	stag	e 1/2	stage	3/4		
	N=	152	N=	63	N=	34	N=	2	N=	41	N=	12
	n	%	n	%	n	%	n	%	n	%	n	%
Residual disease							_					
None	141	92.8	63	100.0	29	85.3	2	100	35	85.4	12	100
<1cm	7	4.6	0	0.0	2	5.9	0	0	5	12.2	0	0
≥1cm	4	2.6	0	0.0	3	8.8	0	0	1	2.4	0	0
Bowel surgery												
Yes	12	7.9	1	1.6	5	14.7	0	0	4	9.8	2	16.7
No	140	92.1	62	98.4	29	85.3	2	100	37	90.2	10	83.3





Proportion of patients with advanced OTP cancer who undergo primary cytoreductive surgery who have no macroscopic residual cancer.

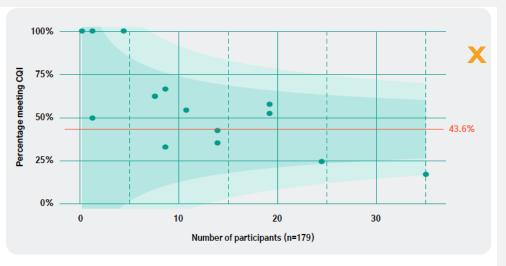


Figure 25: CQI #6a.

Proportion of patients with advanced OTP cancer who undergo interval cytoreductive surgery who have no macroscopic residual cancer.

COMPLICATIONS

	Total 2015*	Total 2016*	Total 2017*	Total 2018*	Total 2019	Total 2020	Total 2021	Total 2022
	N=321	N=386	N=375	N=422	N=429	N=413	N=400	N= 399
	n %	n %	n %	n %	n %	n %	n %	n %
Intra-operative complications								
Anaesthetic Complication						2 0.5	2 0.5	2 0.5
>1000mls blood loss	20 6.2	18 4.7	13 3.5	22 5.2	13 3	24 5.8	32 8.0	35 8.8
Bowel injury	2 0.6	4 1	4 1.1	4 0.9	6 1.4	6 1.5	9 2.3	7 1.8
Bladder injury	1 0.3	5 1.3	5 1.3	6 1.4	2 0.5	1 0.2	2 0.5	5 1.3
Ureteric injury	1 0.3	1 0.3	2 0.5	1 0.2	1 0.2	1 0.2	0 0.0	4 1.0
Other	3 0.9	11 2.8	4 1.1	13 3.1	22 5.1	11 2.7	25 6.3	9 2.3
Post-operative complications								
Transfusion	45 14	49 12.7	42 11.2	76 18	51 11.9	58 14	76 19.0	92 23.1
Febrile morbidity	10 3.1	24 6.2	21 5.6	35 8.3	ZZ 5.I	19 4.6	19 4.8	33 8.3
Wound infection	10 3.1	7 1.8	13 3.5	6 1.4	14 3.3	9 2.2	31 7.8	33 8.3
Thromboembolism	0	2 0.5	3 0.8	3 0.7	3 0.7	2 0.5	7 1.8	4 1.0
Cardiovascular	4 1.2	5 1.3	1 0.3	8 1.9	3 0.7	2 0.5	3 0.8	4 1.0
Gastro-intestinal	16 5	23 6	24 6.4	21 5	15 3.5	23 5.6	38 9.5	17 4.3
Urinary retention	22 6.9	26 6.7	21 5.6	27 6.4	30 7	17 4.1	15 3.8	17 4.3
Return to OT within 6 weeks	8 2.5	12 3.1	14 3.7	12 2.8	13 3	7 1.7	6 1.5	10 2.5
Readmission with complication within 6 weeks	17 5.3	43 11.1	38 101	38 9	34 7.9	35 8.5	39 9.8	42 10.5

1 0.2

1 0.3

Death

1 0.3

1 0.3

1 0.3

EVOLUTION OF VULVAL CANCER SURGERY

Basset 1912

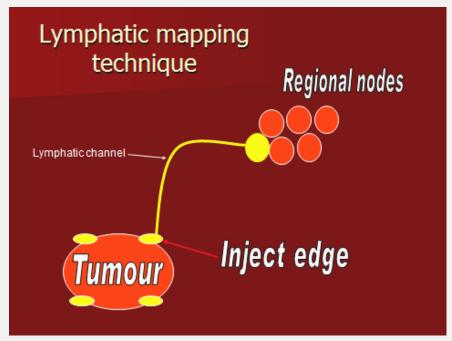
Taussig 1940

Way 1948 Hacker 1981 Van der Zee 2008

- Vulvectomy combined with groin dissection
- En bloc,
 later
 modified to
 3 incisions
- En bloc butterfly incision, groin and pelvic node dissection
- Triple incision modified radical vulvectomy BLGND
- Unilateral GND with lateralised tumour

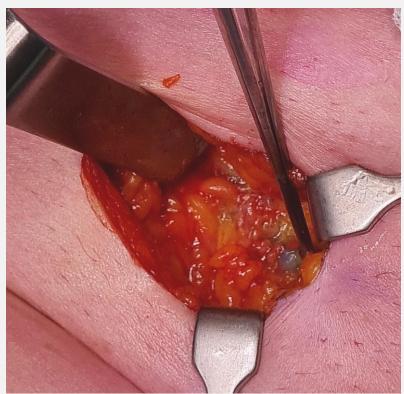
 Radical local excision with sentinel node

SENTINEL NODE BIOPSY











VULVAL CANCER AND RECONSTRUCTION





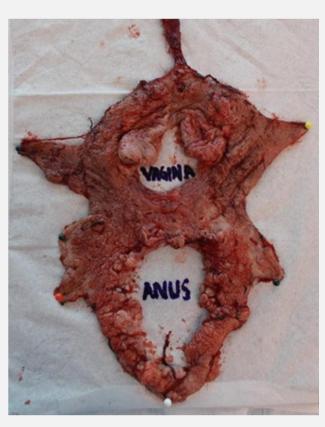




VULVAL CANCER AND RECONSTRUCTION







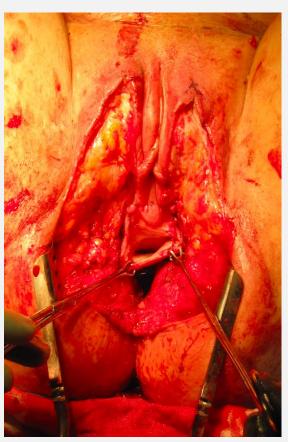
PRIMARY CLOSURE AND LEFT RHOMBOID FLAP

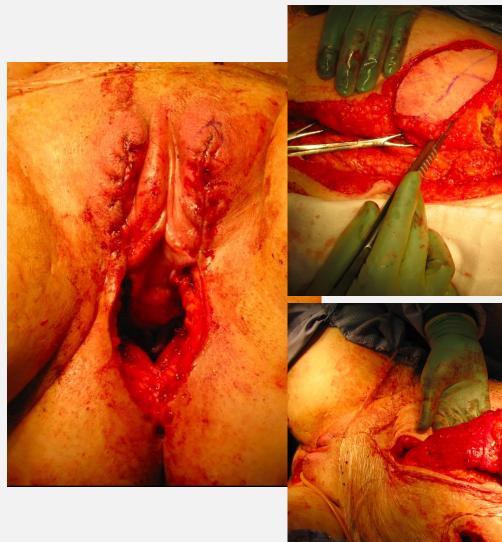




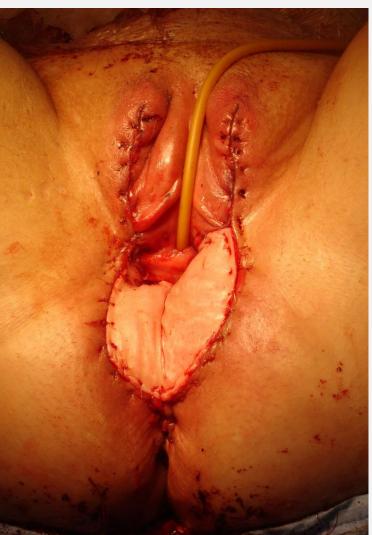
ANOVULVECTOMY - DISTANT FLAPS















IGCS NURSING CERTIFICATE PROGRAM

CNS Roz Ali CNS Claudia Main Dr Lois Eva

- Introduction
- Risk Factors
- Sub-types
- Presentation
- Diagnosis
- Staging
- Management
- Surgical options

- Lymph Node Assessment
- Post-operative management
- Recurrent Vulval Cancer
- Advanced Vulval Cancer
- Radiation/Chemotherapy
- Living with Vulval Cancer
- Palliative Care
- Case study





AND WHEN WE ARE NOT IN THEATRE...



Advancing research saving lives

Te Whatu Ora

Health New Zealand







Original research

Contents lists available at ScienceDirect

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journal homepage: www.elsevier.com/locate/ygyno



Cancer Society Te Kāhui Matepukupuku

Trends in HPV-dependent and HPV-independent vulvar cancers: The changing face of vulvar squamous cell carcinoma

Lois J. Eva a.b.*, Lynn Sadler b, Kah Leng Fong a, Sukhwinder Sahota A, Ronald W. Jones a, Susan M. Bigby

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- b Department of Obstetrics and Gynecology, University of Auckland, New Zealand
 c Department of Histopathology, Middlemore Hospital, Auckland, New Zealand



Clinical Practice Guidelines for Cervical Screening in Aotearoa **New Zealand**

June 2023

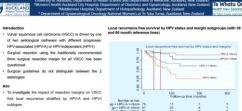












January 1990 to December 2018 of consecutive VSCC

- chemotherapy, radiation, palliative treatment or declined Tumours were classified into HPV-A and HPV-I VSCC
- Univariable and multivariable analyses were performed to
- incidence of recurrence in HPV-A and HPV-I turnours

- 435 patients were diagnosed with primary VSCC from 1990-2018
- After exclusions, 314 patients were included
- In HPV-A VSCC margin distance did not appear to have an effect on recurrence (p=0.5), however only 9 recurrences were observed in total In HPV-I VSCC margin distance was associated with recurrence in the univariable analysis but not in the multivariable analysis Local recurrence occurred in 9/143 HPV-A VSCC (6.3%) compared to 45/171 HPV-I VSCC (26.3%) (p<0.001)

- For HPV-A VSCC, recurrence rates are low and margins do not appear to have an impact on local recurrence in this di
- · For HPV-I VSCC, there is some evidence that resection margins may impact local recurrence, but further prospective study is neede

HPV-independent and HPV-associated vulvar squamous cell carcinoma: two different cancers

Lois Eva o, 1,2 Lynn Sadler, John MD Thompson, Sukwinder Sahota, Kah Leng Fong, Ronald W Jones. 1 Susan M Bigby 4



SCIENTIFIC MEETING 2023

Towards Elimination:

GYN ONC IS A TEAM SPORT...AND CONTINUES TO EVOLVE



FORTUNATELY SO IS ANAESTHESIA...

THANK YOU

