

Radical treatments for gynaecological cancers: HOPE or HYPE?



EXcisional treatment **C**omparison for **I**n **S**itu **E**ndocervical adenocarcinoma

Paul Cohen

On behalf of PIs: David Wrede, Peter Sykes, Lois Eva, Orla McNally,
Alison Brand, Yee Leung, Louise Farrell, Martin Stockler, Aime
Powell, Jim Codde, Max Bulsara, Lyndal Anderson, Pennie Stoyles

Acknowledgments



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Subiaco Hospital



Department of
Health



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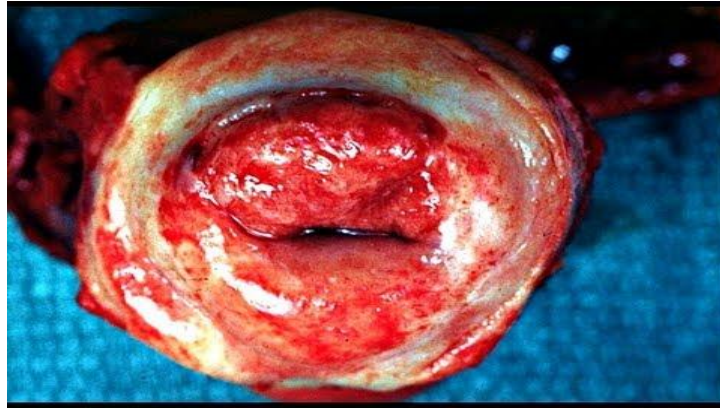


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A U S T R A L I A

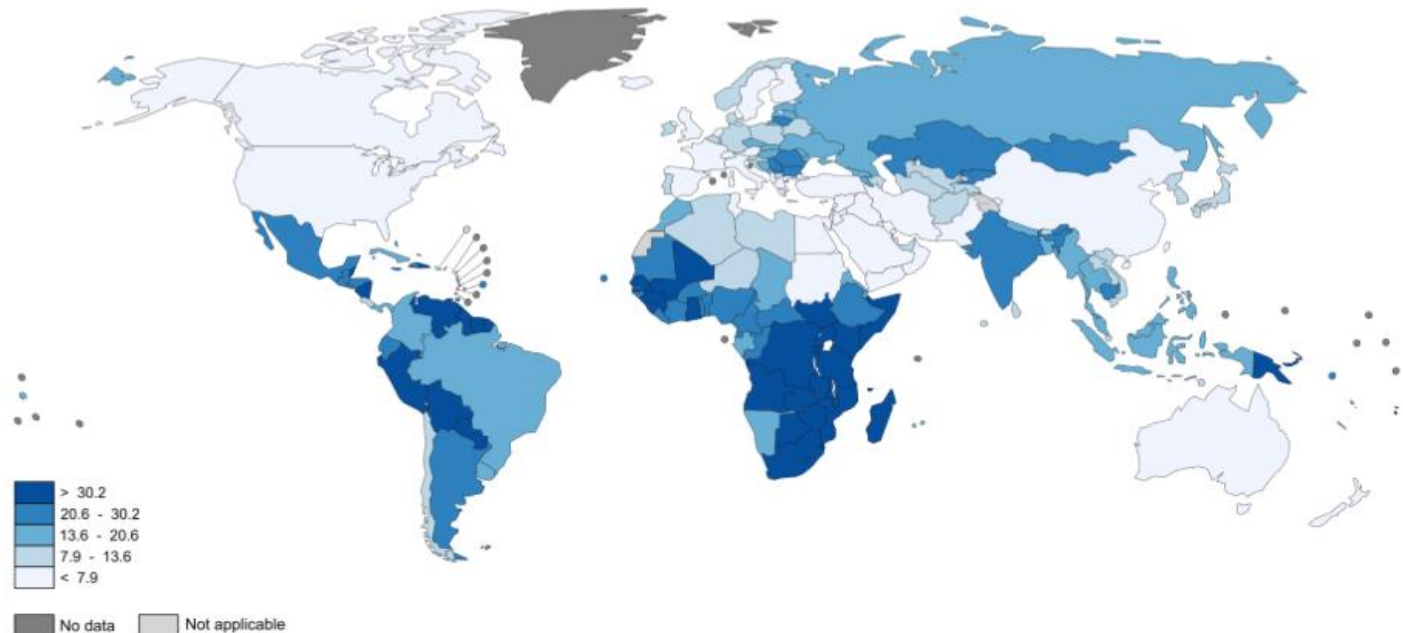
Normal appearance of the cervix



Cervical Cancer



▲ Estimated Cervical Cancer Incidence Worldwide in 2012



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Data source: GLOBOCAN 2012
Map production: IARC
World Health Organization

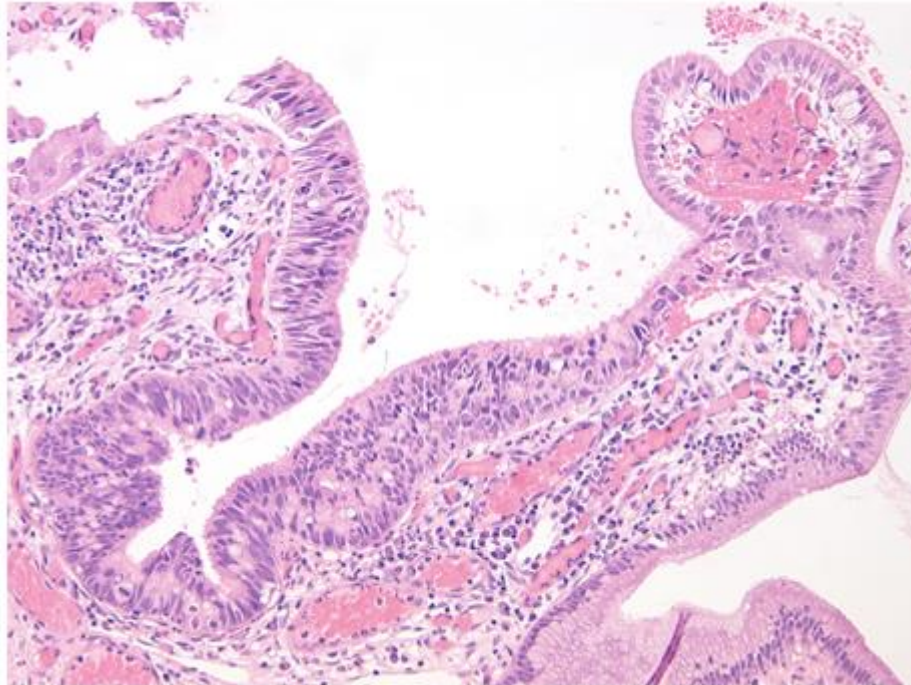
 **World Health Organization**
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Estimated age-standardised rates (World) per 100,000

Adenocarcinoma in situ (AIS)

- AIS of the uterine cervix is a precursor to cervical adenocarcinoma
- Cause: persistent infection by high-risk subtypes of HPV
- AIS is the glandular equivalent of CIN3/HSIL

AIS Histopathology



Adenocarcinoma in situ Endocervical type

AIS in Australia

- AIS is rare
- 932 high-grade endocervical cytological abnormalities in 2015
- 678 of these were AIS/AIS+
- Incidence is increasing in absolute terms and relative to HSIL

Table A5.6: Positive predictive value (PPV) of high-grade endocervical cytological abnormalities in women aged 20–69, most serious histology within 6 months of cytology performed in 2009 to 2015

Year	Cytology prediction			
	Possible high-grade E3	Adenocarcinoma in situ E4	Adenocarcinoma in situ plus E5	High-grade
2009	54.1% (139/257)	89.2% (214/240)	78.6% (11/14)	71.2% (364/511)
2010	58.3% (120/213)	88.7% (212/239)	73.9% (17/23)	73.5% (349/475)
2011	55.6% (154/277)	86.0% (228/265)	100.0% (17/17)	71.4% (399/559)
2012	56.1% (143/255)	90.0% (216/240)	92.3% (12/13)	73.0% (371/508)
2013	55.2% (159/288)	85.4% (228/267)	88.2% (15/17)	70.3% (402/572)
2014	55.2% (148/268)	88.8% (215/242)	100.0% (15/15)	72.0% (378/525)
2015	56.1% (128/228)	89.1% (204/229)	77.8% (7/9)	72.7% (339/466)

Note: The positive predictive value is calculated as the proportion of endocervical cytology results of 'possible' or 'definite' high-grade that were confirmed on histology to be a high-grade endocervical abnormality or adenocarcinoma. These are prone to variability due to small numbers. Cytology data were included only where histology was performed within 6 months; cytology data not followed by histology, or followed by histology more than 6 months after cytology, are not included in the calculations.

Source: AIHW analysis of state and territory cervical screening register data.

The Clinical Pathway

- Cervical screening test is HPV 16 or 18 or non 16, non 18 +ve
- Reflex cytology predicts AIS or ?high-grade glandular abnormality
- Patient referred for colposcopy

Colposcopy



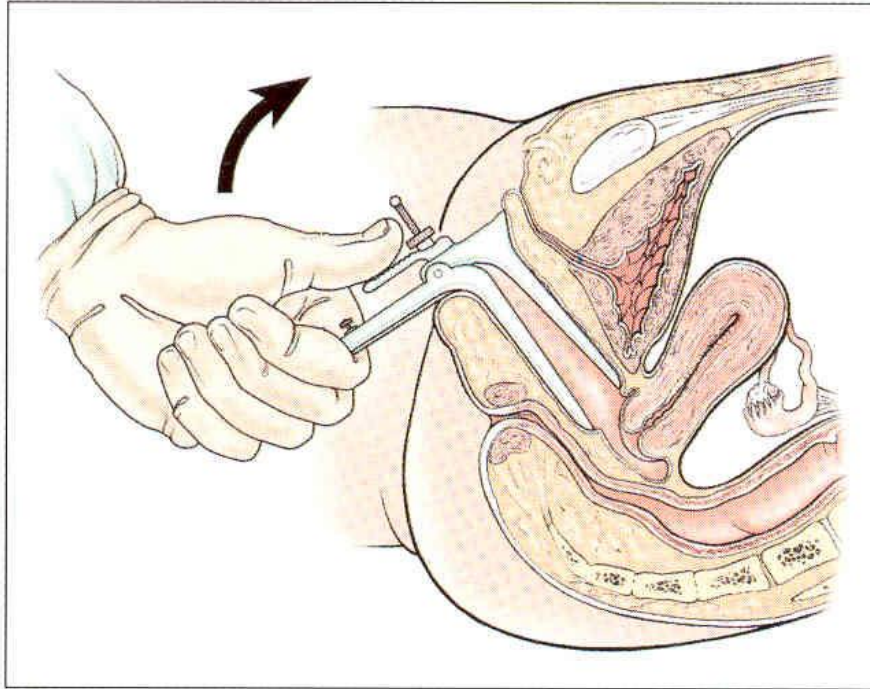
Colposcopy



Colposcopy



Colposcopy



gland crypt necks

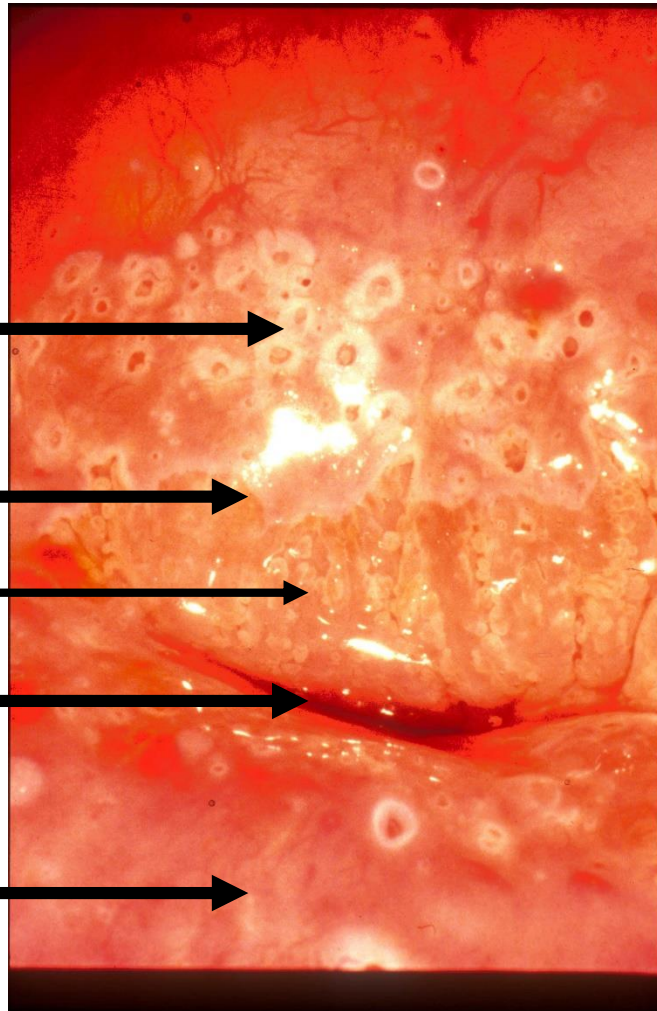
SCJ

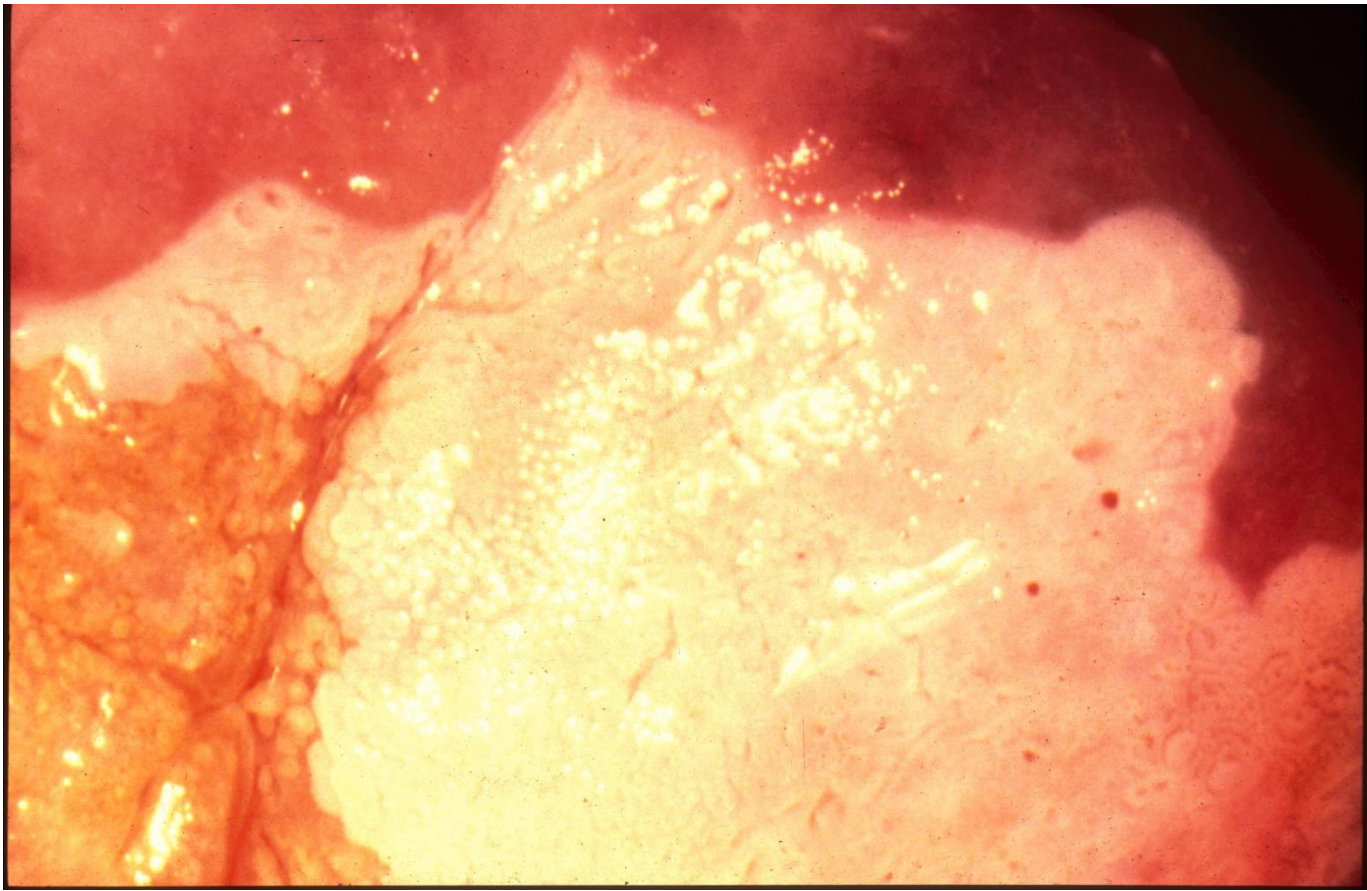
glandular

os

squamous

TZ





HSIL (CIN3)

Colposcopy

- A biopsy or biopsies are taken of the abnormal appearing areas
- Biopsy confirmed AIS requires an excisional biopsy
- Even if AIS is not confirmed at colposcopy if the cytology predicts AIS or ?AIS an excisional biopsy must be performed
- In Australia usually a cold knife cone biopsy

AIS Challenges

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- AIS can extend into the endocervical canal and colposcopic examination may only show minimal changes

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- AIS can extend into the endocervical canal and colposcopic examination may only show minimal changes
- The full extent of AIS lesions may not be apparent at colposcopy
- This makes determination of excisional approaches challenging

AIS Challenges

- An excision biopsy is essential to exclude invasive adenocarcinoma which may coexist in up to 19% of patients with a cytological prediction of AIS

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- An excision biopsy is essential to exclude invasive adenocarcinoma which may coexist in up to 19% of patients with a cytological prediction of AIS
- Negative margins on an excision biopsy do not reliably indicate complete excision of AIS because lesions may be multifocal

AIS Challenges

- Excisional treatments for AIS are mostly curative and prevent progression to invasive disease but....

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- Excisional treatments for AIS are mostly curative and prevent progression to invasive disease but....
- May compromise the structural integrity of the cervix increasing the risk of preterm delivery
- Positive margins after excision are associated with residual and recurrent disease

AIS Challenges

- Risk of preterm birth positively correlates with excision dimensions

AIS Challenges

- Risk of preterm birth positively correlates with excision dimensions
- Clinicians need to balance the risks of future obstetric harm and inadequate treatment of AIS



OPEN ACCESS



Adverse obstetric outcomes after local treatment for cervical preinvasive and early invasive disease according to cone depth: systematic review and meta-analysis

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ABSTRACT

OBJECTIVE

To assess the effect of treatment for cervical intraepithelial neoplasia (CIN) on obstetric outcomes and to correlate this with cone depth and comparison group used.

DESIGN

Systematic review and meta-analysis.

DATA SOURCES

CENTRAL, Medline, Embase from 1948 to April 2016 were searched for studies assessing obstetric outcomes in women with or without previous local cervical treatment.

DATA EXTRACTION AND SYNTHESIS

Independent reviewers extracted the data and performed quality assessment using the Newcastle-

haemorrhage, analgesia, cervical cerclage, and cervical stenosis. Neonatal outcomes comprised low birth weight, admission to neonatal intensive care, stillbirth, APGAR scores, and perinatal mortality.

RESULTS

71 studies were included (6 338 982 participants: 65 082 treated/6 292 563 untreated). Treatment significantly increased the risk of overall (<37 weeks; 10.7% v 5.4%; relative risk 1.78, 95% confidence interval 1.60 to 1.98), severe (<32-34 weeks; 3.5% v 1.4%; 2.40, 1.92 to 2.99), and extreme (<28-30 weeks; 1.0% v 0.3%; 2.54, 1.77 to 3.63) preterm birth. Techniques removing or ablating more tissue were associated with worse outcomes. Relative risks for delivery at <37 weeks were 2.70 (2.14 to 3.40) for cold knife conisation, 2.11 (1.26 to 3.54) for laser conisation, 2.02 (1.60 to 2.55) for excision not otherwise specified,

Why Excisional Biopsy is Important

Aust N Z J Obstet Gynaecol 2018; 1–7

ANZJOG 

DOI: 10.1111/ajo.12886

ORIGINAL ARTICLE

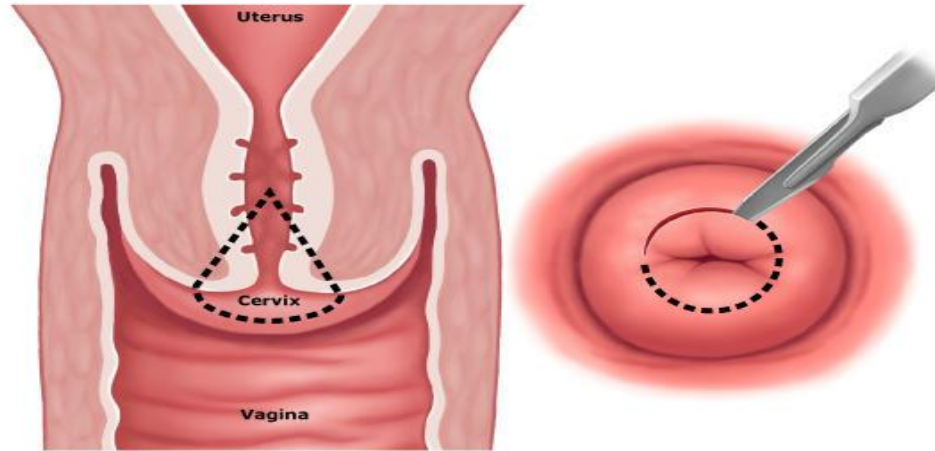
RANZCOG Fellows' adherence to guidelines following cytological prediction of cervical adenocarcinoma-*in-situ*: Cause for concern?

Aime Powell^{1,2} , Paul A. Cohen^{2,3}, Katrina Spilsbury^{1,4}, Nerida Steel^{1,5} and Penny Blomfield⁶

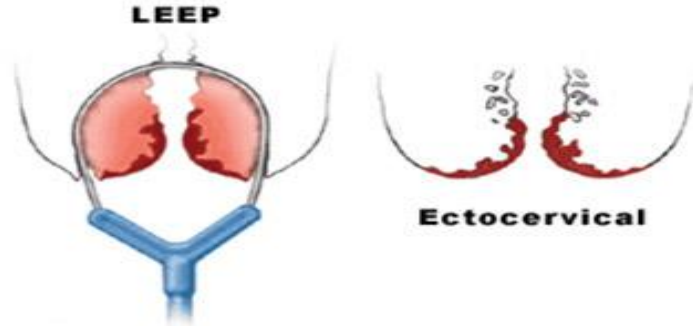
Why Excisional Biopsy is Important

- 321 women from Tasmania and Western Australia
- Retrospective cohort 2001 – 2012 with a smear reporting AIS
- Cervical cancer was diagnosed in 62 (19.3%) patients
- 21 of 321 patients (6.7%) did not have an excisional biopsy
- 2 women were diagnosed with an occult cancer following a simple total hysterectomy
- This is of concern given that nearly one in five women with a smear predicting AIS had a final diagnosis of cervical cancer

Cold Knife Cone Biopsy



LEEP









< Previous Article

May 2015 Volume 137, Issue 2, Pages 258–263

Next Article >

Comparison of cold knife cone biopsy and loop electrosurgical excision procedure in the management of cervical adenocarcinoma *in situ*: What is the gold standard?

A. Munro^{a,*}, Y. Leung^b, K. Spilsbury^c, C.J.R. Stewart^b, J. Semmens^c, J. Codde^c, V. Williams^d, P. O'Leary^e, N. Steel^a, P. Cohen^b

 PlumX Metrics

DOI: <https://doi.org/10.1016/j.ygyno.2015.02.024> |


 Check for updates



Table 3

Hazard ratios of persistent or recurrent endocervical neoplasia according to age, socio-economic index, concurrent CIN and margin status

Variable	Hazard rate ratio	95% confidence interval	p-Value
<i>Age (years)</i>			
≤30	0.7	0.3–1.8	0.477
>30 (base)	1.0		
<i>Socio-economic index</i>			
Least disadvantaged (base)	1.0		
Less disadvantaged	1.6	0.4–5.9	0.469
Middle	1.7	0.5–6.1	0.433
More disadvantaged	3.0	0.9–9.6	0.068
Most disadvantaged	0.6	0.1–5.8	0.689
<i>Initial treatment</i>			
LEEP	0.8	0.3–2.0	0.578
CKC biopsy (base)	1.0		
<i>Number of specimens</i>			
1 (base)	1.0		
>1	0.9	0.3–2.5	0.847
<i>Concurrent CIN</i>			
Absent (base)	1.0		
Present	0.9	0.4–2.2	0.870
<i>Margin status</i>			
Negative (base)	1.0		
Positive	3.4	1.4–7.8	0.004
Indeterminate	1.2	0.1–9.5	0.885
<i>Specimen depth (mm)</i>			
≤10	1.6	0.6–4.0	0.337
>10–15	0.4	0.1–1.5	0.183
>15– ≤ 40 (base)	1.0		

CKC – cold knife cone, LEEP – loop electrosurgical excision procedure.

338 patients


107 LEEP

231 CKC

2001 – 2012

WA

Comparison of Cold-Knife Conization versus Loop Electrosurgical Excision for Cervical Adenocarcinoma In Situ (ACIS): A Systematic Review and Meta-Analysis

Yanming Jiang, Changxian Chen, Li Li 

Published: January 26, 2017 • <https://doi.org/10.1371/journal.pone.0170587>

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Table 1. Characteristics of the included studies.

Source	Country	Intervention		Histology	Study design	Study period	Follow-up period	Quality score*
		LEEP	CKC					
Munro 2015 [10]	Austria	107	231	ACIS	retrospective study	2001 to 2012	<1 year to 11.8 years	9
Latif 2015 [2]	USA	30	48	ACIS	retrospective study	1997 to 2011	2–168 months	9
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Taylor 2014 [18]	USA	15	37	ACIS	retrospective study	1998 to 2011	mean 32 months	7
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Denehy 1997 [27]	USA	13	24	ACIS	retrospective study	1980 to 1996	1–72 months	6
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* Quality assessment based on the Newcastle-Ottawa Scale.

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Obstetrics and gynaecology
Protocol



Excisional treatment in women with cervical adenocarcinoma in situ (AIS): a prospective randomised controlled non-inferiority trial to compare AIS persistence/recurrence after loop electrosurgical excision procedure with cold knife cone biopsy: protocol for a pilot study

Paul A Cohen^{1, 2, 3}, Alison Brand⁴, Peter Sykes^{5, 6}, David C H Wrede^{7, 8, 9}, Orla McNally^{10, 11}, Lois Eva^{12, 13}, Archana Rao^{14, 15}, Michael Campion^{16, 17}, Martin Stockler^{18, 19}, Aime Powell²⁰, Jim Codde²¹, Max K Bulsara²², Lyndal Anderson^{23, 24}, Yee Leung^{25, 26, 27, 28}, Louise Farrell²⁹, Pennie Stoyles³⁰

[Author affiliations](#) 

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2. Department of Gynaecological Oncology, King Edward Memorial Hospital for Women, Subiaco, Western Australia, Australia

Background and rationale

- AIS can persist, recur, co-exist with/progress to adenocarcinoma
- Hysterectomy has been regarded as the definitive treatment but no longer
- AIS affects young women who may wish to preserve fertility
- Conservative excisional treatments

Background and rationale

- AIS on cervical cytology and/or cervical biopsy => a diagnostic excisional procedure to exclude invasive adenocarcinoma
- In Australia cone biopsy regarded as the 'gold standard'
- There are NO prospective randomised studies to inform practice

NATIONAL CERVICAL SCREENING PROGRAM:

Guidelines for the management of
screen-detected abnormalities, screening
in specific populations and investigation
of abnormal vaginal bleeding

- December 1st 2017

NATIONAL
CERVICAL SCREENING
PROGRAM

A joint Australian, State and Territory Government Program



ENDORSED BY



PRACTICE POINT

REC11.10: Cold-knife cone biopsy is the 'gold standard' for glandular abnormalities'

Cold-knife cone biopsy should be considered the 'gold standard' for the diagnostic assessment of glandular lesions. However, a diathermy excisional procedure may be appropriate in some circumstances and could provide an appropriate surgical specimen when performed by a gynaecologist with appropriate training, experience and expertise.

Discussion: Management of histologically confirmed high-grade squamous abnormalities

UNRESOLVED ISSUES

Whilst at this time indefinite co-testing is recommended, the ongoing monitoring of the renewed NCSP may provide data in the future to support the safety of discharging women who have been negative for both HPV and cytology on multiple occasions at an earlier point.

FUTURE RESEARCH PRIORITIES

Well-designed prospective research studies are needed to compare the use of cold knife cone biopsy with diathermy loop excision (LEEP or LLETZ) in the diagnosis and treatment of AIS. If such a study were to show that loop excision was non-inferior to cold-knife cone biopsy for the outcomes of

post-treatment recurrent and adenocarcinoma, loop excision could be recommended as an appropriate treatment option for AIS. This would benefit women because, unlike cold-knife cone procedures, loop excision does not require hospital admission and general anaesthesia.

Studies evaluating endocervical curettage would provide useful evidence to determine its role in clinical practice.

Long-term data from the National Cancer Screening Register should be analysed to determine the minimal effective surveillance period for women undergoing annual Test of Cure for post-treatment AIS before returning to routine 5-yearly screening.

EXCISE Study

- Excisional treatment in women with cervical adenocarcinoma-in-situ (AIS): a prospective randomised controlled non-inferiority trial to compare AIS recurrence after loop electrosurgical excision procedure to cold knife cone biopsy.
- Short title: **EXCISE** – **EX**cisional treatment **C**omparison for **In Situ** Endocervical adenocarcinoma

Aim

- To determine if the treatment of cervical AIS by LEEP is non-inferior to Cone Biopsy with regard to treatment failure (disease persistence at 12 months or recurrence by 2 years in women managed conservatively, when treatment is performed in tertiary level colposcopy and gynaecology/gynaecologic oncology centres

Hypothesis

- LEEP will not be inferior to Cone Biopsy with regard to AIS treatment failure in conservatively managed women, when treatment is performed in tertiary centres

Primary Objectives

- To compare the rate of treatment failure after LEEP and Cone Biopsy performed for AIS in conservatively managed women

Secondary Objectives

- Margin status and specimen dimensions
- Early and late complications (including obstetric outcomes)
- QoL
- PRO
- Efficacy, safety and cost-benefits associated with co-testing f/up

Study Population

- Women aged 18 to 45 years diagnosed with AIS on cervical screening and/or colposcopically directed biopsy who are to receive excisional treatment in a tertiary level centre

Inclusion Criteria

- Aged ≥ 18 to ≤ 45 years of age at time of study enrollment
- Documented AIS on cervical cytology and/or cervical biopsy
- Lesion amenable to **single pass excision** (serial endocervical excisions including 'top-hat' will not be permitted in accordance with American Society for Colposcopy and Cervical Pathology Recommendations)

Exclusion Criteria

- Lesion considered unsuitable for single pass excision by treating specialist
- Previous high-grade cervical abnormality
- Previous excisional or ablative treatment
- Cytology suspicious of invasion or clinical suspicion of invasion
- Presence of a concurrent gynaecological cancer
- Patients unable to comply with follow-up evaluations
- Immunosuppression
- Pregnancy

Procedures

- Randomisation:
- Randomisation will be 1:1 (LEEP: CKC). Sequence generation will be by computer with no blocking or stratification. Randomisation will be by IVRS (interactive voice response system).
- Blinding:
- Study investigators and participants will not be blinded to the intervention. Members of the study team conducting data analysis at the co-ordinating centre will be blinded to the intervention.
- Safety monitoring: DSMB

Procedures

- Only Type 2 and type 3 excisions
- Single pass excision
- For LEEP:
 - electrosurgical unit set to 70 – 80 watts blend 1
 - Avoid excessive coagulation
 - May be performed under local anaesthesia

Sample Size

- Estimated using a 2 group test of non-inferiority of proportions
- Primary end point is the AIS recurrence rate at 5 years and the comparison will be between Cone Biopsy and LEEP, based on a 1-sided test for non-inferiority
- Assumes an 8% rate of AIS recurrence at 5 years after Cone Biopsy, and a 5% non-inferiority margin (so an upper 95% confidence rate of AIS recurrence of 13% is still within the non-inferiority margin)
- Sample size needed is 730 (365 per group). Assuming a 10% drop-out rate, a total sample size of 810 participants (405 per group) would need to be randomised. The one-sided Type I error is set at 5% with 80% power.

Feasibility

- Approximately 900 AIS cases are diagnosed annually in Australia and New Zealand in women <45 years of age. These figures continue to increase in both relative and absolute terms every year but may decrease over the next 5 years due to effects of the nonavalent HPV vaccine.
- Estimated that 60% of these patients would receive treatment in tertiary centres making the total number of eligible patients 600 per year. If 30% of eligible patients enroll in the study, then approximately 200 participants would be randomised per year.
- Will require international collaboration.



EXCISE Pilot Study

- ◆ Objective – feasibility
- ◆ Primary outcome – pathological margin status
- ◆ Sample size = 30 participants
- ◆ Randomised 2:1 LEEP: Cone Biopsy
- ◆ Central Pathology Review
- ◆ Surgeon Accreditation
- ◆ 6 sites – SJOG Subiaco, KEMH, Melbourne, Sydney, Christchurch, Auckland
- ◆ Funded by an ANZGOG Fund for New Research Grant \$50,000

Figure 1. CONSORT Flow Diagram of EXCISE Study

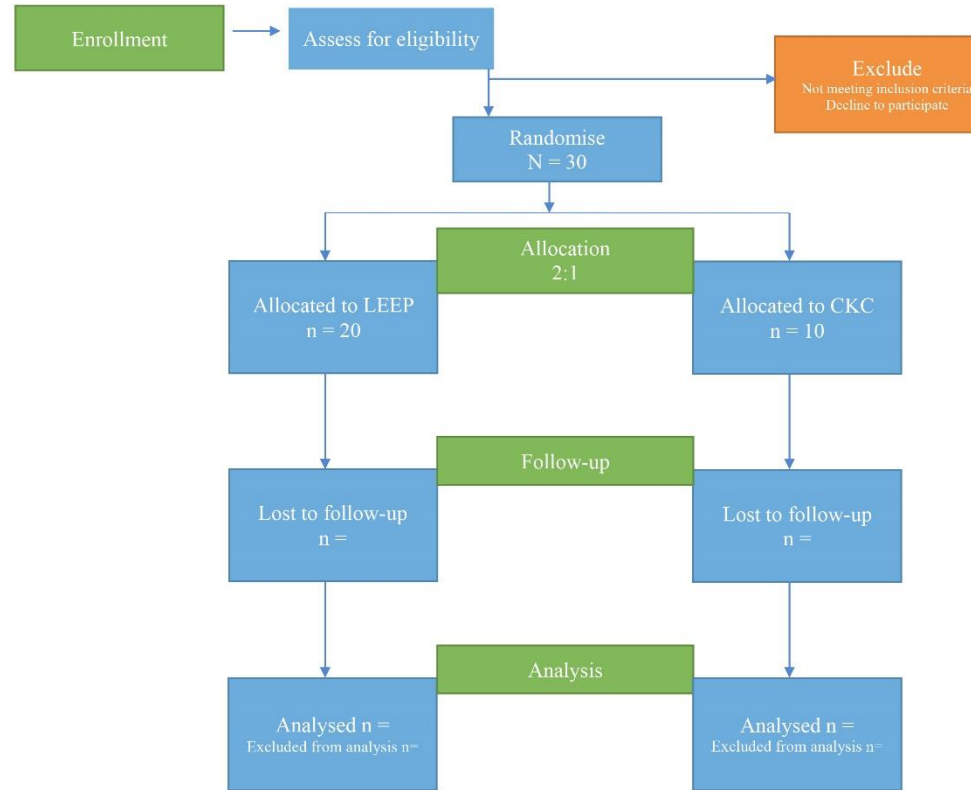


Figure 2.

Schedule of enrollment, interventions, and assessments.

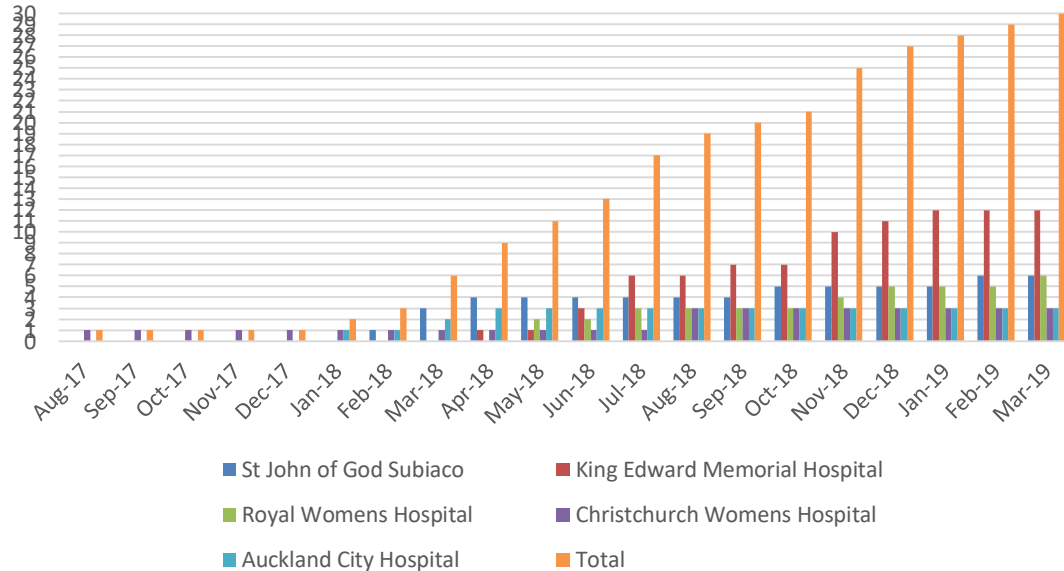
	STUDY PERIOD			
	Enrolment	Allocation	Intervention	Close-out
TIMEPOINT	$-t_1$	0 Within 7 days (+4) (Day 0-11)	t_1 Within 8 weeks of allocation (Day 0-56)	t_x 6 weeks' post intervention (+14 days)
ENROLMENT:				
Eligibility screen	X			
Informed consent	X			
<i>[List other procedures]</i>				
Allocation		X		
INTERVENTIONS:				
<i>[Intervention A]</i>			LEEP	
<i>[Intervention B]</i>			CKC	
<i>[List other study groups]</i>				
ASSESSMENTS:		t_1	t_2	t_x
Baseline variables	Age Parity BMI Smoking status HPV vaccine status STIs Family history Comorbidities AIS on Pap AIS on biopsy Colposcopy findings			
Outcome variables				Histopathology Report Complications Patient Satisfaction Questionnaire Hospital costs of treatment

We have 5 sites open for recruitment with 21 participants recruited to date:
The Mater Hospital, Brisbane and Westmead Hospital, Sydney are expected to open during the second quarter of 2019.

St John of God Hospital, Subiaco, Western Australia, Australia	6 participants
King Edward Memorial Hospital, Subiaco, Western Australia, Australia	12 participants
Christchurch Women's Hospital, Christchurch, New Zealand	3 participants
National Women's Health, Auckland City Hospital, Auckland, New Zealand	3 participants
Royal Womens Hospital, Melbourne, Australia	6 participants
TOTAL as of 15.03.2019	30 participants

Recruitment to 18th March 2019

EXCISE TRIAL RECRUITMENT / SITES



The Future in Australia

Articles

The projected timeframe until cervical cancer elimination in Australia: a modelling study



Michaela T Hall, Kate T Simms, Jie-Bin Lew, Megan A Smith, Julia ML Brotherton, Marion Saville, Ian H Frazer, Karen Canfell



Summary

Background In 2007, Australia was one of the first countries to introduce a national human papillomavirus (HPV) vaccination programme, and it has since achieved high vaccination coverage across both sexes. In December, 2017, organised cervical screening in Australia transitioned from cytology-based screening every 2 years for women aged from 18–20 years to 69 years, to primary HPV testing every 5 years for women aged 25–69 years and exit testing for women aged 70–74 years. We aimed to identify the earliest years in which the annual age-standardised incidence of cervical cancer in Australia (which is currently seven cases per 100 000 women) could decrease below two annual

Lancet Public Health 2019;
4: e19–27

Published Online

October 2, 2018

[http://dx.doi.org/10.1016/S2468-2667\(18\)30183-X](http://dx.doi.org/10.1016/S2468-2667(18)30183-X)

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