Cervical HPV screening. 9 months on.

Dr Jason Stone

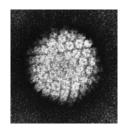
- HPV virus and cervical cancer
- Screening protocol recap
- Recurring issues after 9 months:
 - Co-Test for LSIL follow up
 - Co-Test for Symptoms
 - Co-Test for Test of Cure
 - Testing of under 25's
 - Register



• (size 44 Arial Bold)

HPV virus and cervical cancer

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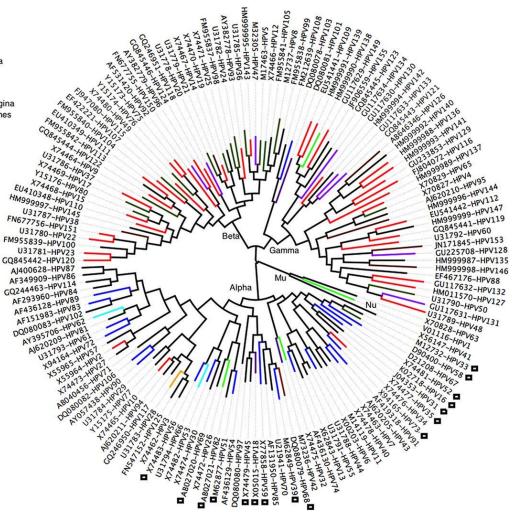


Human Papilloma Virus

- >170 genotypes
- Specific to site
- Mouth Skin Vagina Skin and mouth Skin and gut Skin and gut and vagina Skin and vagina Skin and mouth Gut and vagina Mouth and skin and vagina Not found in metagenomes High risk types

0.07

- Most infections transient and harmless
- Only 14 types known to cause carcinoma (oncogenic)
- Especially type 16 and 18

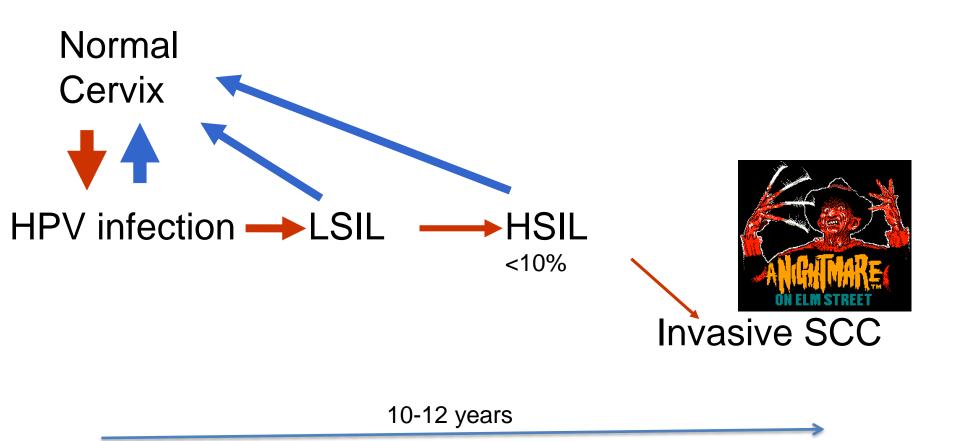


Genital HPV

- About 30 subtypes affect GU tract
- 80% of sexually active adults exposed in lifetime
- Most infections are before 30yrs old
- 90% of HPV resolve within 1-2 years
- Only a few get persistent HPV infection
- If persistent *oncogenic* subtype, can lead to squamous cancer and adenocarcinoma
- Persistent oncogenic HPV infection is key risk factor



Ca cervix – Natural history



Why test for oncogenic HPV?

- 1. Look for those at increased risk "Screening"
- 2. Decide when to return to routine screening after Rx for HSIL- "Test of Cure"

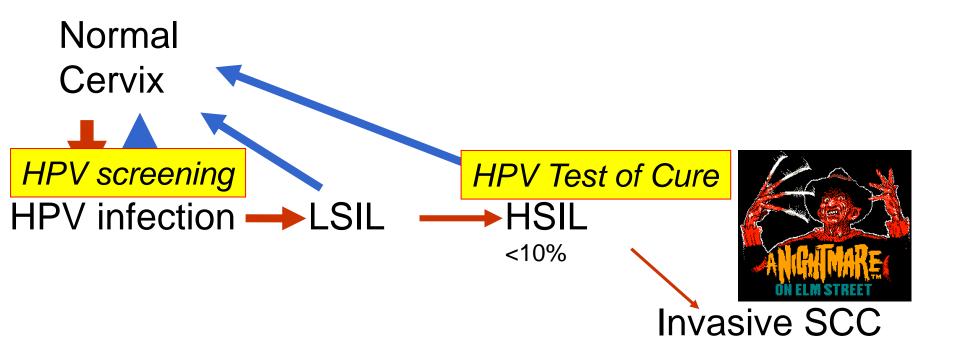
Medicare rebate only for "Screening" and "Test of Cure"

HPV virus and cervical cancer

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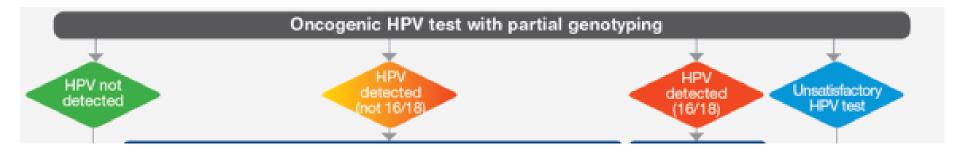
Ca cervix – Natural history

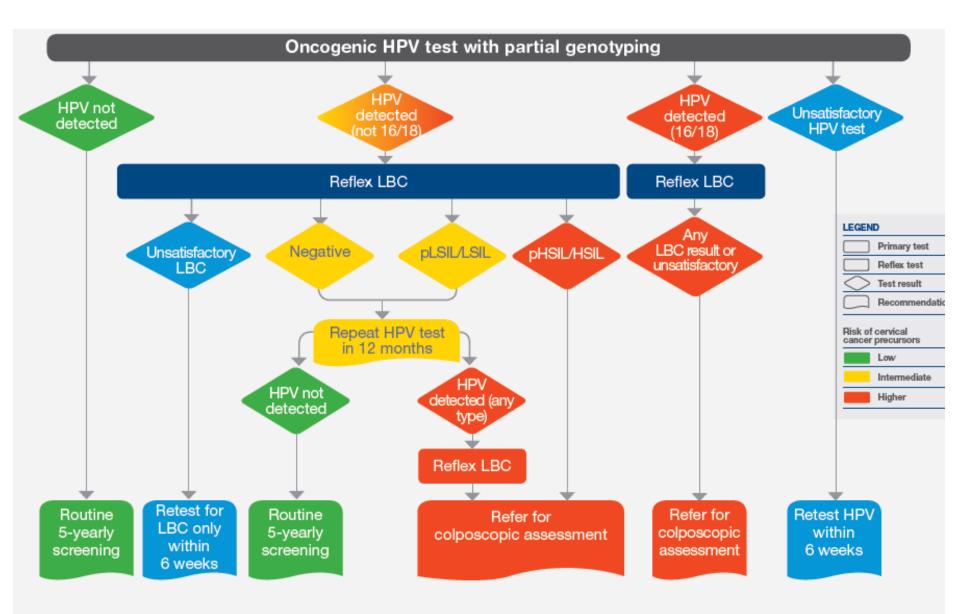


4 possible results of HPV test:

1. Unsatisfactory

- 2. No oncogenic HPV detected
- 3. Positive for oncogenic HPV 16/18
- 4. Positive for other oncogenic HPV





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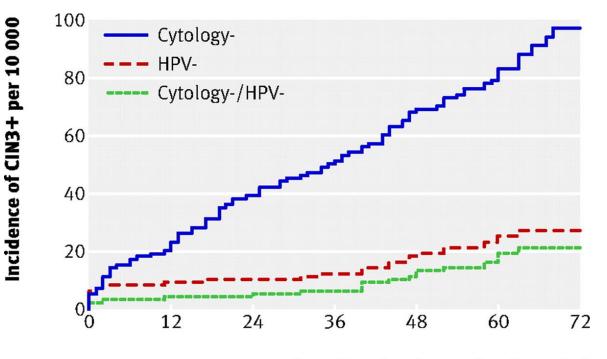
Recurring issue no 1. Overuse of "Co-Test"

• **Reflex cytology** = lab performs a cytology exam on sample *if* the HPV test is positive

Vs

• **Co-Test** = HPV test *and* Cytology

The evidence for HPV screening

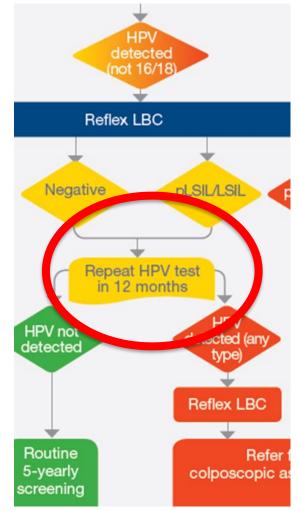


Dillner J et al. BMJ. 2008 Many others

Time since intake testing (months)

Co-Test indications

- NOT:
- Follow up of last year's pLSIL/LSIL
- (intermediate risk)



Co-Test indications

- Symptomatic
- Test of Cure
- Previous endocervical adenocarcinoma in situ (AIS)
- Previous DES exposure

- HPV virus and cervical cancer
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Symptomatic (1)

• <u>REC18.1</u>: Women with abnormal vaginal bleeding

Women at any age who have signs or symptoms suggestive of cervical cancer should have a cotest, and referral for appropriate investigation to exclude genital tract malignancy should be considered.

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Symptomatic (2)

- Post-coital bleeding (>1 episode)
- Unexplained intermenstrual bleeding
- Post menopausal bleeding
- (*persistent* bloody/offensive discharge or deep pelvic pain or suspicious cx)

• NOT:

- Menorrhagia
- Contact bleeding
- Hormonal breakthrough bleed
- Discharge
- Thrush/itch
- Family history

Symptomatic (3)

- Therefore Symptomatic gets recommendation line in pathology report saying:
- "in view of clinical history.....specialist referral advised..."



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Test of Cure

• <u>REC10.7</u>: Test of Cure after treatment for HSIL (CIN2/3)

A woman who has been treated for HSIL (CIN2/3) should have a cotest[†] performed at 12 months after treatment, and annually thereafter, until she receives a negative co-test on two consecutive occasions, when she can return to routine 5 yearly screening.



Test of Cure

 REC10.7: Test of Cure after treatment for HSIL (CIN2/3) A woman who has been treated for HSIL (CIN2/3) should have a cotest[†] performed at 12 months after treatment, and annually thereafter, until she receives a negative co-test on two consecutive occasions, when she can return to routine 5 yearly screening.

Test of Cure

- 12 months = 12 months
- Even if HSIL treated 20 years ago
- Colposcopy/biopsy of LSIL ≠ treated HSIL

• NOT:

- 3 months, 6 months, 9 months.....
- LSIL

Inappropriate order of HPV test

• Not:

- Not for non-cervical sites
- Not for males
- Not on biopsy histology samples
- Not as part of general STI workup

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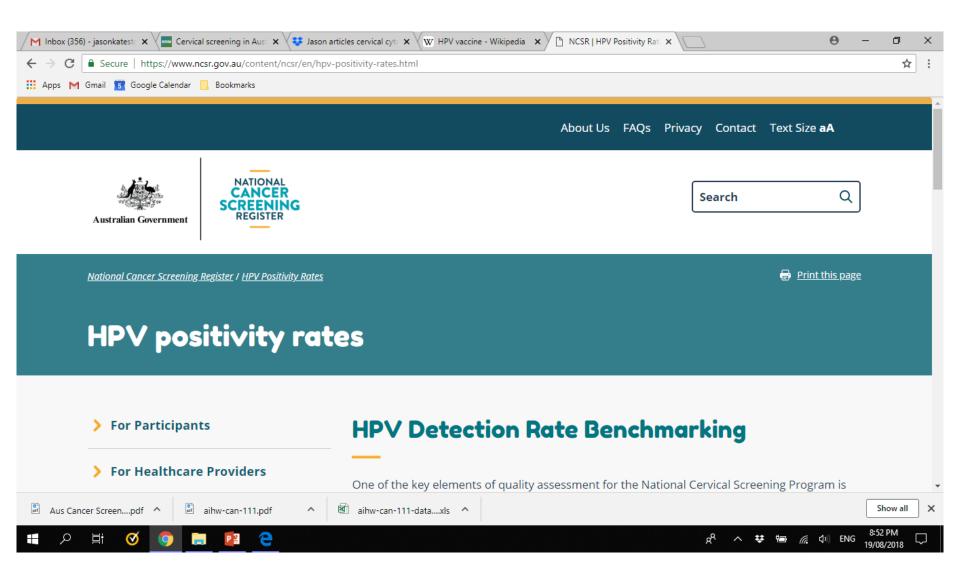
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Quiz

- 23 year old wants Cervical Screening Test.
- Last smear 4 years ago (was negative)
- What do you do?





HPV positivity rates. National benchmark

Current Overall National Benchmark Rate: 8.6%

screening cases only ≥ 25 years old

- Pre-1980 cohort: 6.1%
- Post-1980 cohort: 14.1%

(>28yo) (<28yo, but still ≥ *25 yo)*

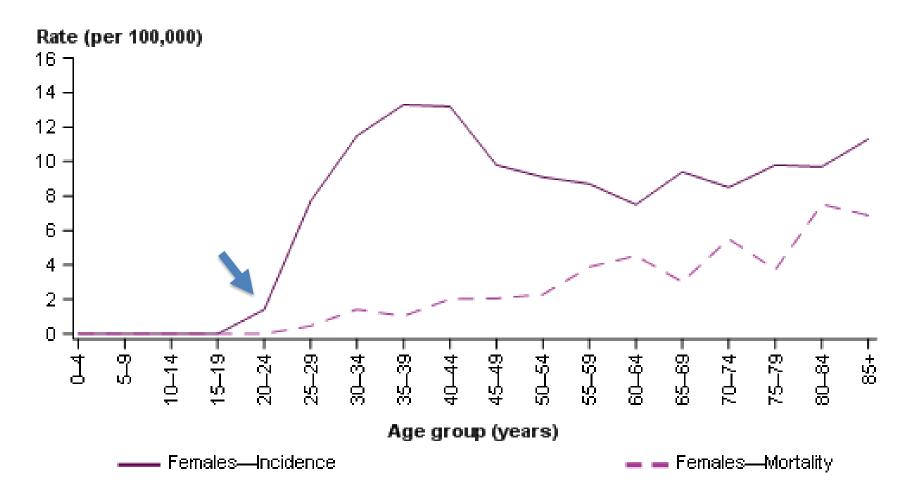
QML Pathology, 7 weeks since 1st July 2018

Number of HPV tests	Number positive	Percentage positive
122	48	39%
136	47	34%
107	36	33%
86	22	25%
127	33	26%
104	39	37%
117	34	29%

screening cases only < 25 years old

259 cases (32.4%)

Age-specific incidence and mortality rates for cervical cancer, Australia, 2017



Queensland data for under 25's

- Queensland data
- 1984 2012 (28 year time period)
- All invasive cervical cancer ages 13-25 years
- 56 cases
- Only 15 picked up on routine screening

• Aust N Z J Obstet Gynaecol. 2017 Aug;57(4):469-472.

	20–24	25–29	30–34	35–39	40-44	45–49	50-54	55–59	60-64	65-69
				98		89	86	58	57	59
Crude rate	1.5	8.0	13.2	12.6	14.6	11.3	10.9	8.1	8.8	10.5

Table A6.2: Incidence of cervical cancer, by age, 2014

Note: 'Crude rate' is the number of new cases of cervical cancer per 100,000 women; rates based on fewer than 20 new cases should be interpreted with caution.

Source: AIHW Australian Cancer Database 2014.

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Testing in Under 25?

- HPV infection is very common in U 25's
- 32.4% are HPV positive !!!!!! (QML Pathology snapshot data 2018)
- Therefore lots of women are getting repeat samples, and colposcopy referrals, for a condition that will spontaneously regress for most
- Colposcopy is not without complications:
 - Procedural
 - Psychological
 - Obstetrics
 - Cost

Quiz

- 23 year old wants Cervical Screening Test.
- Last smear 4 years ago (was negative)
- What do you do?



What to do with the under 25's ?

- **If symptomatic** especially post coital bleeding = **Co-Test**
- If previous abnormality being followed up, then manage as per follow up
- Otherwise, don't routinely do Cervical Screening Test.
- STD testing, contraception, safe sex discussion etc,
- But do not do HPV test...
- (exception: if age 20-24, and commenced sexual activity before 14 years old)

Retrospective "symptoms"

• "in view of clinical history.....specialist referral advised..."



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Register

- Recall from 2016 not yet kicked in
- Advise you to start recalling your 2016 routine screen patients
- (over 25's only)

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Further information...

Guidelines available at:

Google: "wiki cervical screening au"

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Cervical cancer screening	View Code History V	🗟 🗹 f in 🔰 🖗 🛨 🚱 🖓
Foreword	National Cervical Screening Program screen-detected abnormalities, scre investigation of abnormal vaginal ble	
Introduction		
Summary of recommendations	Foreword	Cite this guideline
	Introduction	
1. Cervical cancer in Australia	Summary of recommendations	NATIONAL
2. The rationale for primary HPV screening	1. Cervical cancer in Australia	CERVICAL SCREENING
	2. The rationale for primary HPV screening	
		A joint Australian, State and Territory Government Program

Thank you – Any questions?



 Feedback welcomed, thanks

