

# Invasive Cervical Cancer and the Human Papillomavirus Vaccine



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## Discussions for today

- Background
  - Invasive cervical cancer
  - Human Papillomavirus Vaccine

## Invasive Cervical Cancer

- 3<sup>rd</sup> most common cancer in females world wide
  - 7<sup>th</sup> overall cancer for males & females
- 4<sup>th</sup> most common cancer resulting in death world wide
  - Most of these occur 3<sup>rd</sup> world
- Aboriginal women get cervical cancer 2 - 6 times more than non- Aboriginal women
- Aboriginal women die up to 9 times more than non- Aboriginal women

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## Human Papillomavirus

- Cervical cancer is caused by a virus - human papillomavirus
  - Very common
  - Many virus types
    - 16 & 18 result in 70% of cancerous disease
    - 6 & 11 result in genital warts – not dangerous



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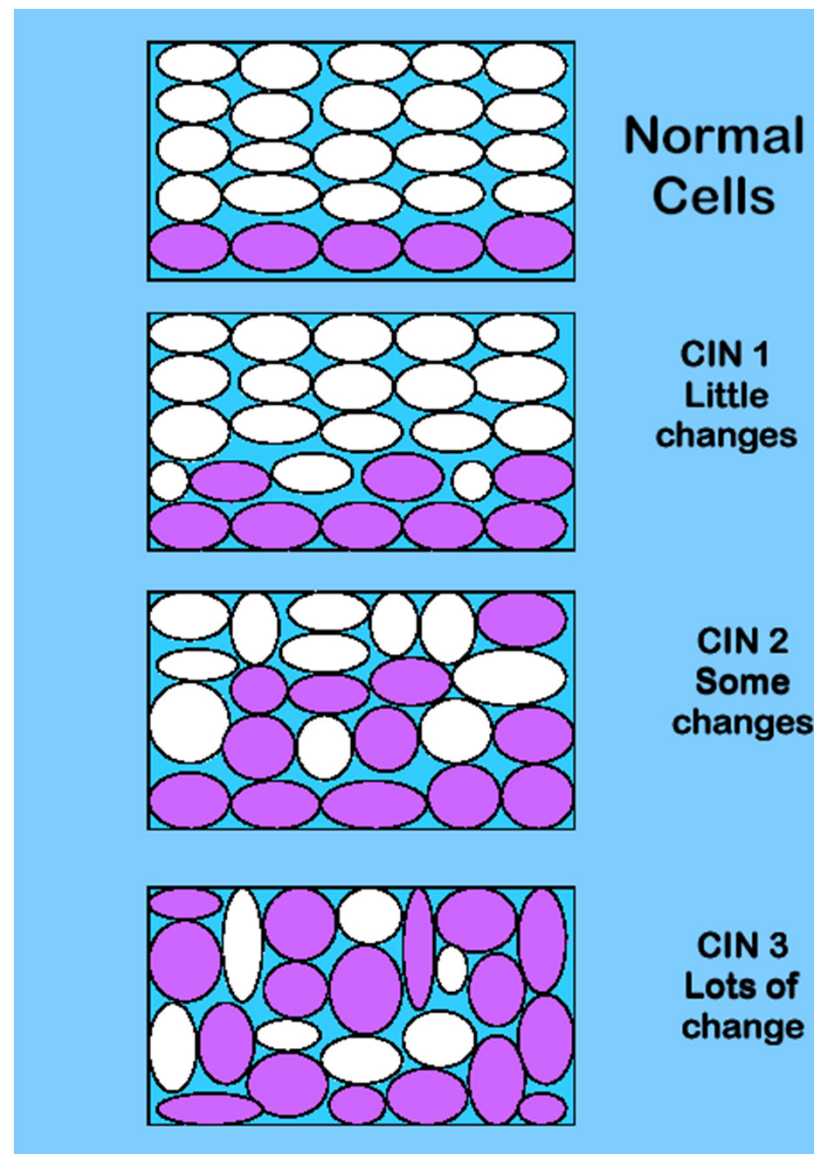
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Image by [www.fritzcreative.com](http://www.fritzcreative.com)

## Preventative programs

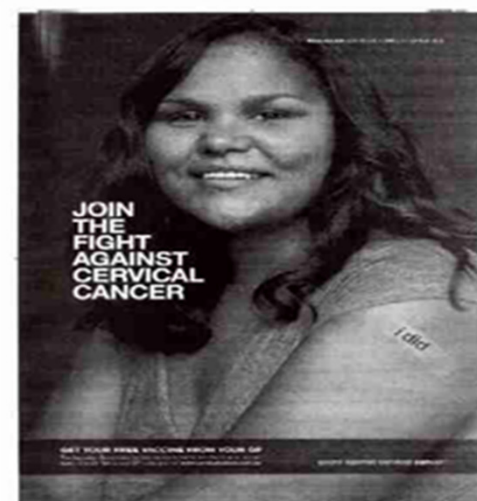
- Cervical Screening Program – **Pap test!!!!!!**
  - Every two years after sexual contact
  - Abnormal cells can be detected
- Pap testing

**SAVES LIVES**



# Preventative programs - continued

## HPV vaccine roll-out in Australia



<b>Three – Tiered Program</b>		
12-13 year olds	School based program	continues
13-18 year olds	School based catch-up program	Ended late 2009
16-18 year olds not at school 18-26 year olds	General practice and Community providers	Ended late 2009

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## Factors affecting HPV vaccination

- School based program
  - Low rates of attendance in high school ages 15-17 yrs
  - Consistency of attendance
- Access to health care
  - Distance
  - Finances
  - Culturally inappropriate



## Poor data or coverage of HPV vaccine

- We need to improve data
- Can you help us?
- National HPV Register – project design

# ACKNOWLEDGMENTS

- Dr Julia Brotherton
- Dr Robert Menzies



# HPV vaccination in Aboriginal women and girls: did we achieve equity?

Dr Julia Brotherton  
Medical Director, NHVPR  
Victorian Cytology Service



The HPV Register

*operated by;*



**Victorian Cytology Service**

*funded by;*



**Australian Government**

**Department of Health and Ageing**

# Aims

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- 1. Identify HPV vax coverage** amongst Aboriginal ♀ at a practice /service level in your Division
- 2. Update information held by the Register** with Indigenous status
- 3. Compare Pap screening rates** at a practice level between Aboriginal and non-Aboriginal ♀



# Methods:

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- *Study to gather and report de-identified local information to help build a national picture*
- Identify practices willing to participate
  - Operating 2007-2009
  - Ideally have clinical software
    - Clinical Audit Tool (CAT)
- Consider if ethical approval needed



# Methods

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- Work with practices to collect:
  - No. of Aboriginal women born after June 1980
  - No. who received 1 , 2, or 3 doses of HPV vaccine
  - Optional items:
    - HPV vaccine coverage for non-Aboriginal women
    - % women 18+ ever had a Pap test and % overdue
      - By Indigenous status



# Spreadsheet example



Sample spreadsheet NSW							
Closing the Gap in Cervical Cancer							
Tab one HPV vaccine information							
Practice ID	AMS?	Aboriginal women patients	age definition*	Number who received dose 1	% dose 1	Number who received dose 2	% do
1	No	36	DOB1980-1989	20	55.6%	10	27.8
2	Yes	500	DOB after 1980	375	75.0%	300	60.0

Sample spreadsheet NSW							
Closing the Gap in Cervical Cancer							
Tab two Pap screening information							
Practice ID	AMS?	Aboriginal women patients 18-30	Number ever had a Pap test	% ever had a Pap test	Number overdue	% overdue	Aboriginal
1	No	15	10	66.7%	5	50.0%	
2	Yes	140	120	85.7%	65	54.2%	



# Methods

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- Discuss the findings with the practice
  - What do they think of the results?
  - What, if anything, should be done?
- Check with practice re notifications to register
  - May wish to send existing notifications
  - May wish to update sent records with Indigenous status



# Last step!

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- Send de-identified data (and feedback) to Telphia
- This will be collated, analysed and provided to relevant national committees

For the project protocol or further info please email enquiries to [telphiaj@chw.edu.au](mailto:telphiaj@chw.edu.au) or [jbrother@vcs.org.au](mailto:jbrother@vcs.org.au)

