



Government of **Western Australia**  
Department of **Health**

# Factors associated with HPV Vaccination Consent and Uptake at Schools in WA

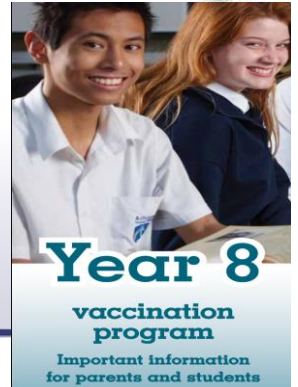
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Presenter: Dr Paul Armstrong



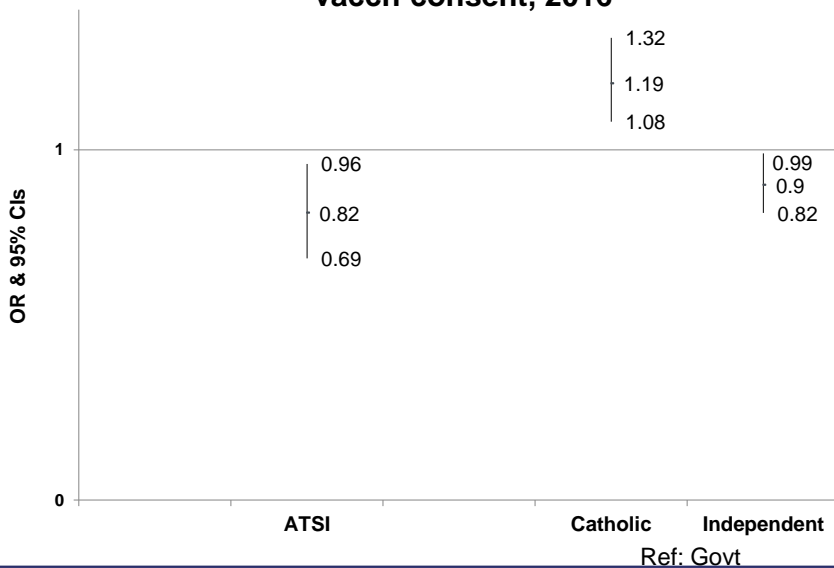
better health ■ better care ■ better value

## WA SBIP program

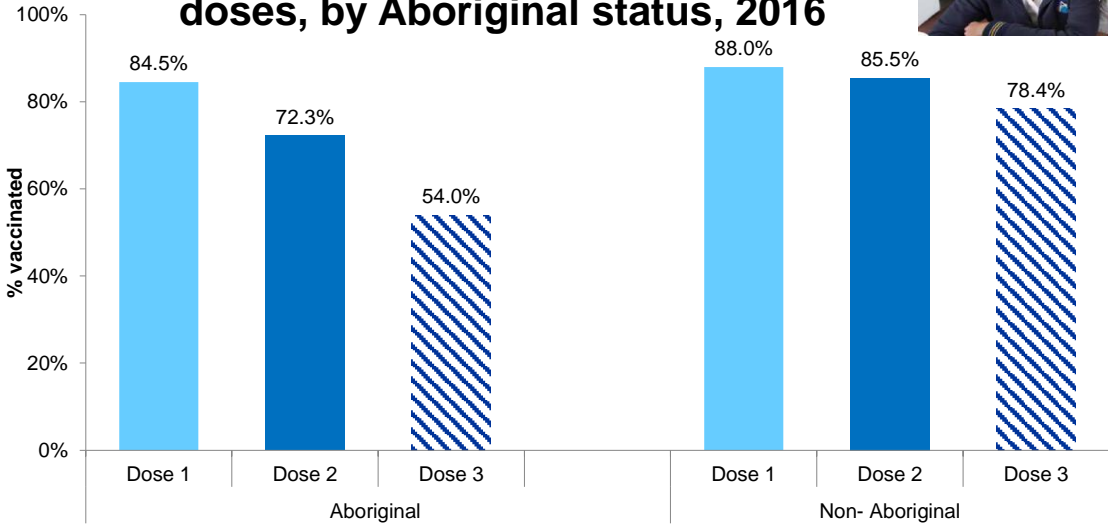
- 30,000 year 8 students in 350 schools.
- At the beginning of each school year, the Department of Education, Catholic, and Independent schools provide data for uploading into the WA School-based Immunisation Program (SBIP) database:
  - name, gender, date of birth, school.
- Vaccination providers enter consent and vaccination data (collected on paper forms) on every student enrolled in schools under their responsibility.
- Produce annual, customised reports for school principals and students/parents.

Demographic characteristic	Number (%)	% Consent form return	% Consented for dTpa vaccn	% Received dTpa vaccn	% Consented who received dTpa vaccn	% Consented for HPV vaccn	% Completed HPV vaccn	% Consented who completed HPV vaccn
Age (years), Range, mean, median	10-18, 12.8, 13							
<b>Sex</b>								
Male	15,513 (51.1)	94.2	88.7			85.3	72.7	86.1
Female	14,865 (48.9)	95.4	89.7			86.5	74.6	87.3
<b>ATSI Status</b>								
ATSI	1,442 (4.7)	86.9	86.1			86.8	54.0	63.4
Non-ATSI	26,612 (87.6)	96.9	92.7			88.9	78.4	88.8
Not recorded	2,326 (7.7)							
<b>School Type</b>								
Government	17,866 (58.8)	93.5	87.6			85.1	70.2	83.5
Catholic	5,831 (19.2)	97.9	93.3			89.7	82.5	92.6
Independent	6,683 (22.0)	95.5	90.0			84.6	75.2	89.6
<b>School Location</b>								
Metropolitan	24,072 (79.2)	95.8	89.6			86.1	74.1	87.0
Rural	4,436 (14.6)	92.7	88.5			85.3	75.2	88.8
Remote	2872 (6.2)	87.2	85.7			85.0	64.7	76.9
<b>Tertile of disadvantage (school postcode)</b>								
Least disadvantaged	14,868 (48.9)	96.0	90.6			86.9	77.4	90.1
Mid disadvantaged	10,475 (34.5)	95.3	88.8			85.3	71.3	84.3
Most disadvantaged	4,981 (16.4)	90.4	86.6			84.4	67.8	81.1
<b>TOTAL</b>	<b>30,380 (100)</b>	<b>94.8</b>	<b>89.2</b>			<b>85.9</b>	<b>73.7</b>	<b>86.7</b>

**Multivariate analysis:  
Factors independently associated with HPV  
vaccn consent, 2016**

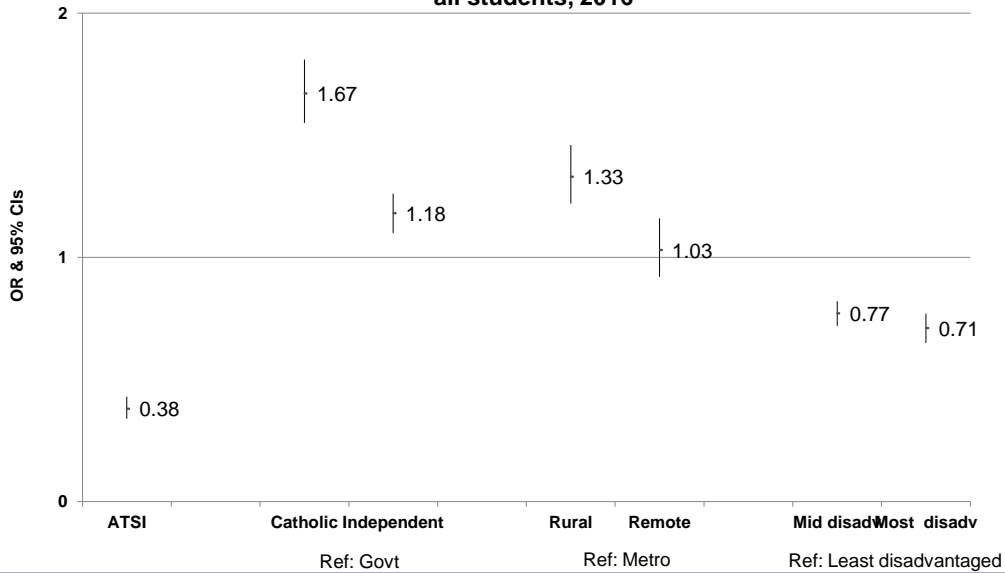


### Percent of children receiving HPV vaccine doses, by Aboriginal status, 2016

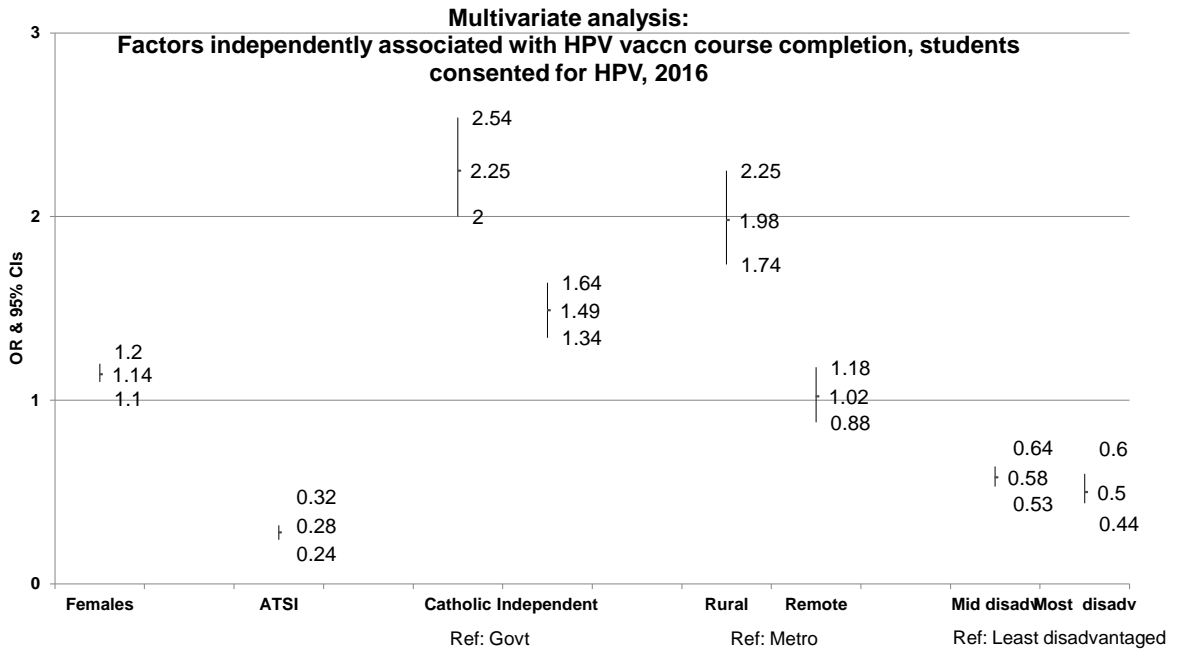


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### Multivariate analysis: Factors independently associated with HPV vaccination course completion, all students, 2016



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## WA MenW vaccn for 15-19 yos, April 2017 to present

	Public uni 1	Public uni 2	Public uni 3	Public uni 4	Catholic uni
No. of vaccinations	32	144	419	510	442
No. of eligible students	~12000	~14000	~36000	~14000	1900
Estimated coverage	Not calculated because number of on-campus students unclear				23%

Student enrolment data sources: <http://planning.curtin.edu.au/stats/students2012-2016.cfm>, <http://www.annualreport.uwa.edu.au/annual-report-2016/our-university/statistical-profile>, [https://intranet.ecu.edu.au/\\_data/assets/pdf\\_file/0005/740129/Pocket\\_Stats\\_Guide\\_2016.pdf](https://intranet.ecu.edu.au/_data/assets/pdf_file/0005/740129/Pocket_Stats_Guide_2016.pdf), <http://www.murdoch.edu.au/About-us/Annual-report/Introduction/Key-statistics/>

# Strategies for Improvement

- **2 dose HPV course from 2018**, as per UK since 2014.
- **↑ catch-up vaccination opportunities** for low coverage groups i.e. males, Aboriginal students, govt schools, schools in low SES areas.
- **↑ AHW** involvement in SBIP.
- Investigate factors for high consent and uptake rates in **Catholic & independent schools** & assess their applicability in other schools