

HUMAN PAPILLOMAVIRUS CONTROL

How are we going with vaccination coverage seven years in?

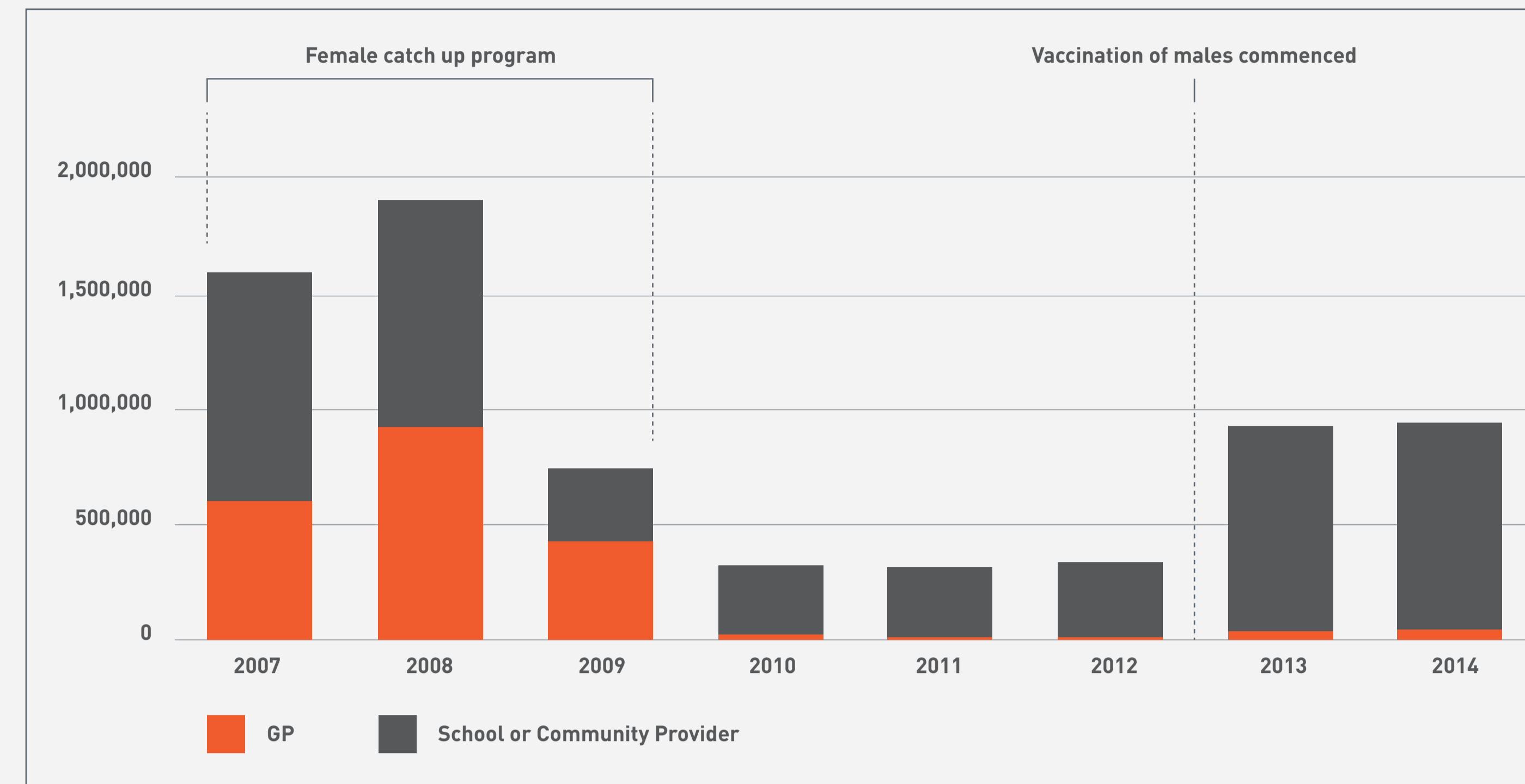
BROTHERTON JML, Chappell G, Brosi J, Bicknell L, Winch K, Barbaro B, Saville M / jbrother@vcs.org.au / www.hpvregister.org.au / 1800 478 734 (1800 HPV REG)

HPV VACCINATION NOTIFICATIONS

FIG. 1

- The National HPV Vaccination Program Register monitors vaccination coverage in Australia.
- Doses notified to the register are used as the numerator for coverage calculations and ABS estimated resident population estimates as the denominator.
- Figure 1 illustrates the fluctuations in, and source of, HPV vaccination notifications over time. Catch up programs were undertaken for females 12-26 years of age between 2007-2009 and males 12-15 years between 2013-2014. Routine vaccination included females 12-13 between 2010-2012 and females and males 12-13 from 2015 onwards.

Number of HPV Vaccinations notified 2007-2014 by provider type



- Peak fluctuations in notification occurred when catch up doses were offered.
- GPs provide a small proportion of vaccination doses in the ongoing program (~ 5% since 2011).



National HPV Vaccination Program Register



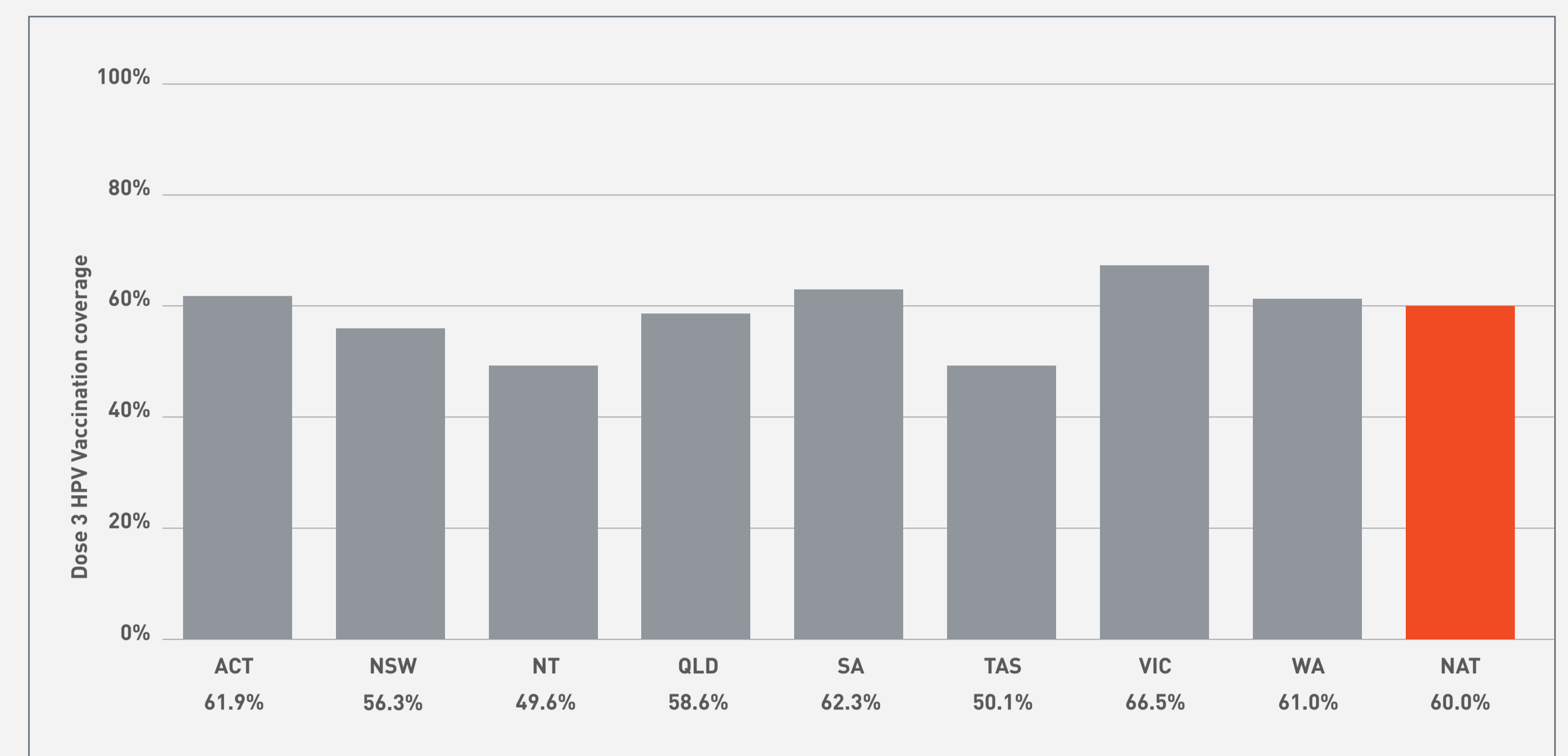
VCS

Operated by VCS
Fully funded by the Australian Government

MALE COVERAGE (PRELIMINARY)

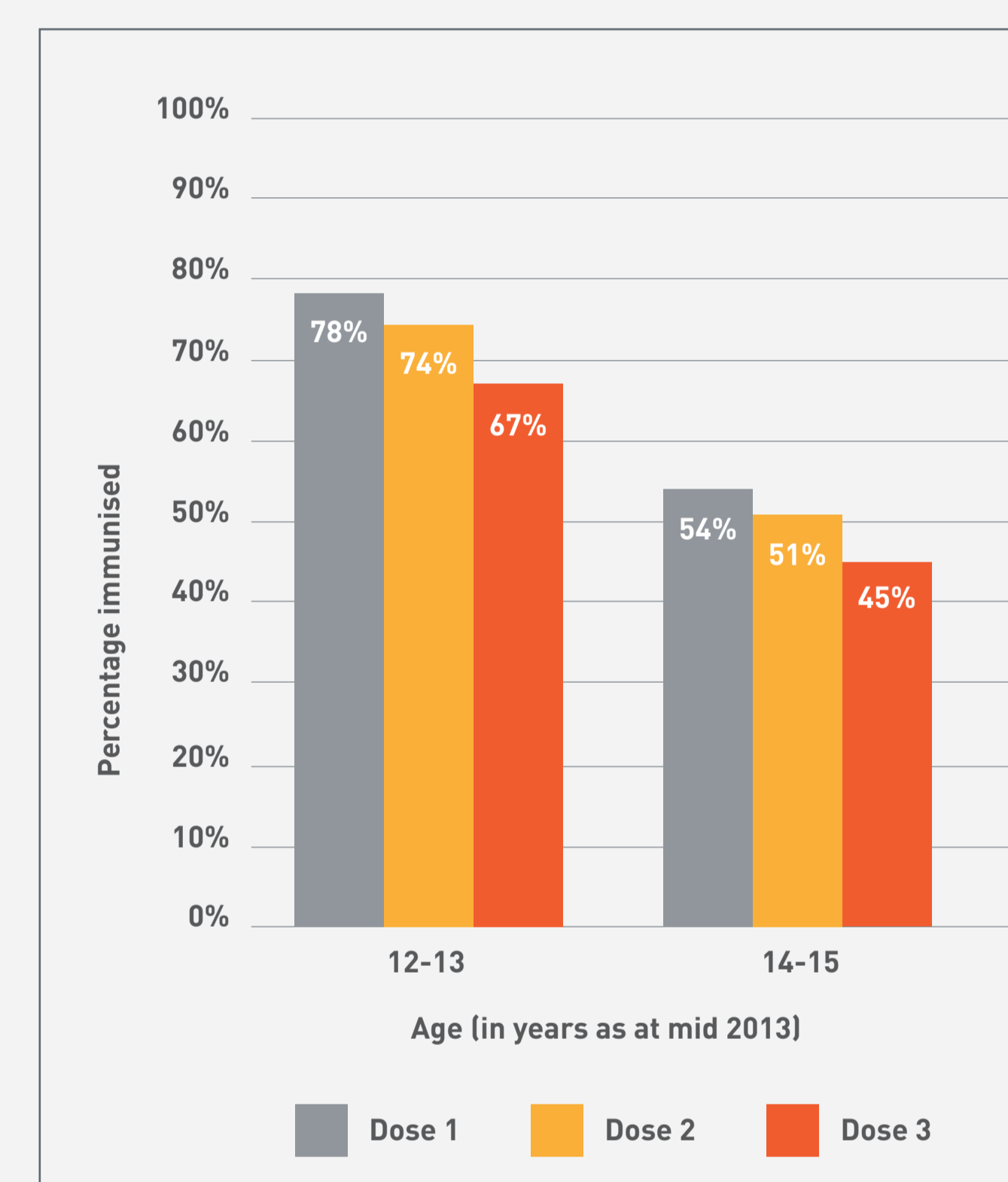
FIG. 4

Preliminary National (Australia) HPV 3 dose vaccination coverage as at 15 May 2015, for males turning 15 years in 2014*



Preliminary HPV vaccination coverage by dose number, males vaccinated between April 2007 and 15 May 2015, Australia*

FIG. 5



| Age (in years as at mid 2013) | 12-13 | 14-15 |
|--|---------|---------|
| Population (as at mid 2013) | 287,917 | 289,769 |
| Total number of doses notified | 632,038 | 434,683 |
| Preliminary coverage rate as at 15 May 2015* | Dose 1 | 78% |
| | Dose 2 | 74% |
| | Dose 3 | 67% |

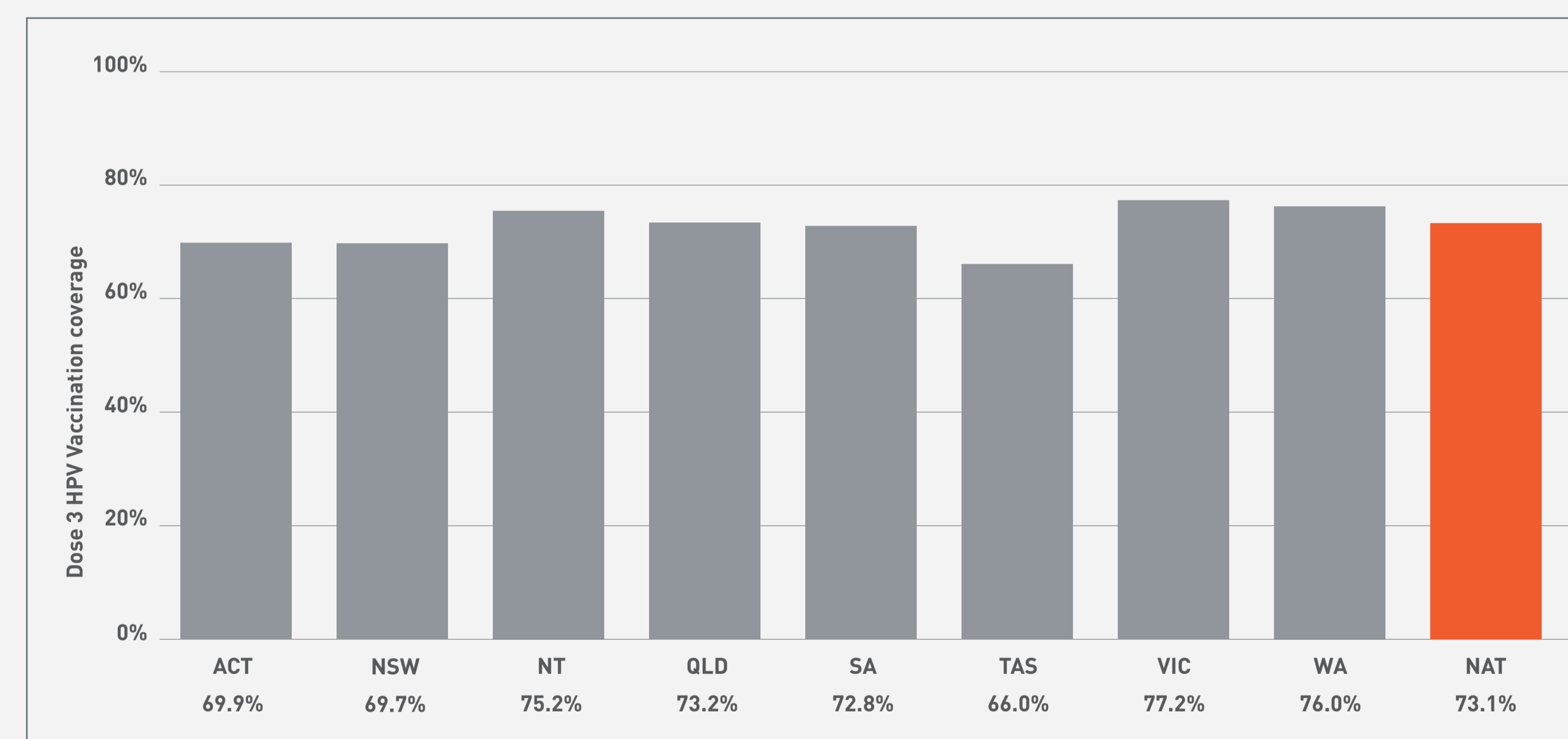
- Preliminary three dose coverage for males aged 15 in 2014 was 60%.
- Victoria reported the highest coverage at 66%.
- Higher coverage was achieved nationally in younger males, with 12-13 year old coverage of 67% in 2013.

* Male coverage data is still subject to further cleaning and quality checks

FEMALE COVERAGE

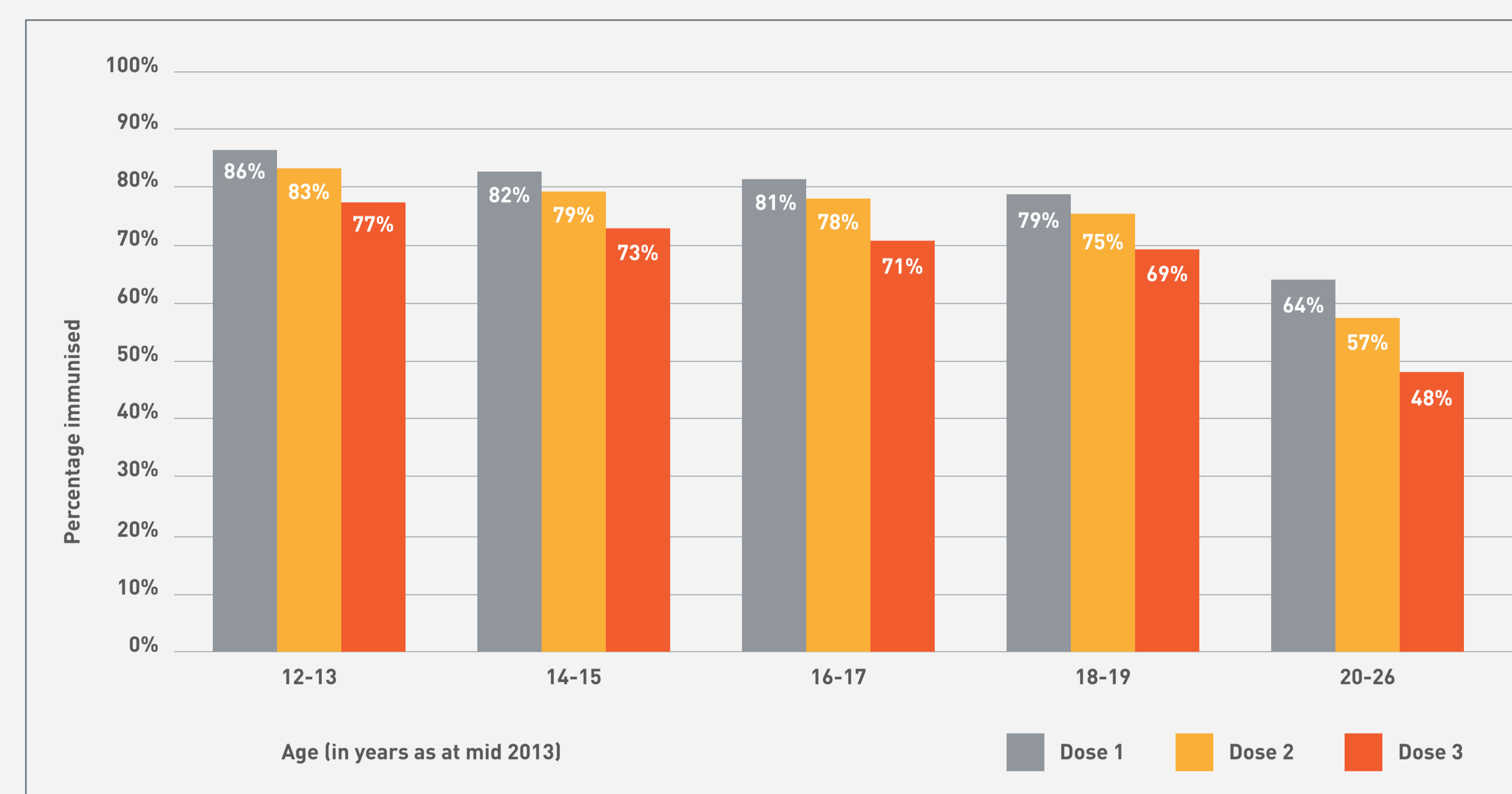
FIG. 2

National (Australia) HPV 3 dose vaccination coverage as at 15 May 2015, for females turning 15 years in 2014



HPV vaccination coverage by dose number, females vaccinated between April 2007 and 15 May 2015, Australia

FIG. 3



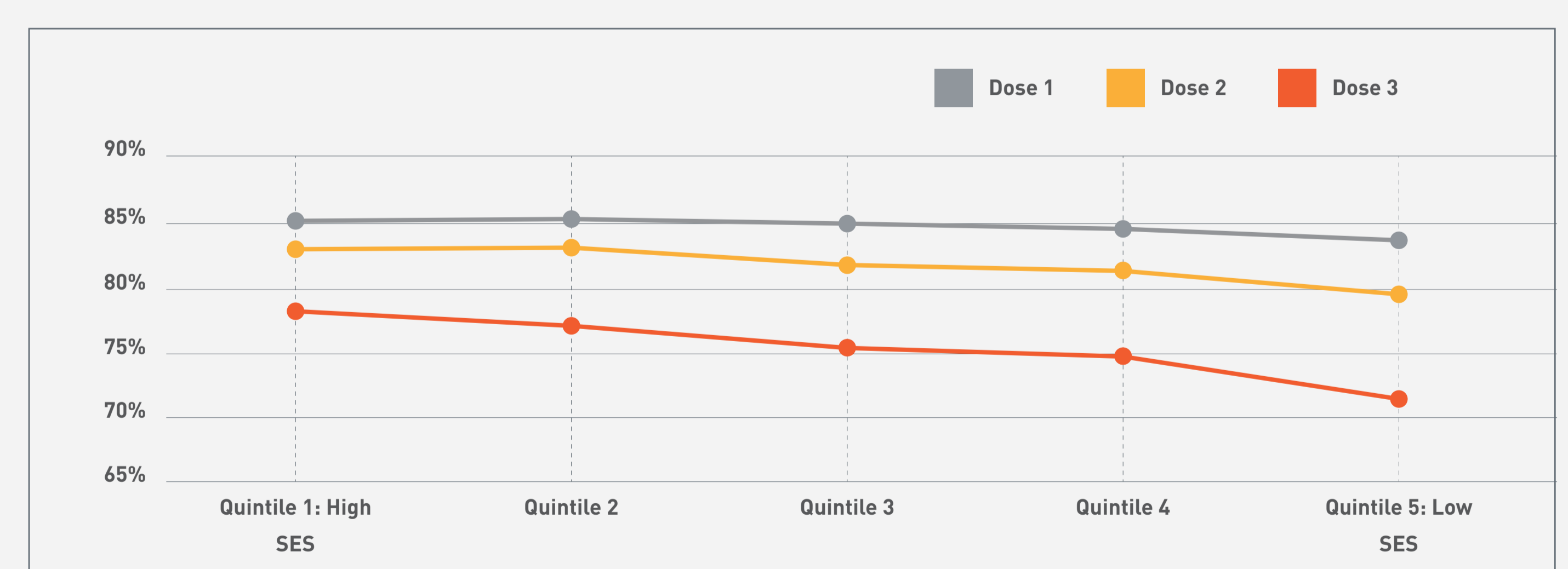
| Age (in years as at mid 2013) | 12-13 | 14-15 | 16-17 | 18-19 | 20-26 | |
|----------------------------------|---------|---------|---------|---------|-----------|-----|
| Population (as at mid 2013) | 273,953 | 275,032 | 281,159 | 293,992 | 1,140,989 | |
| Total number of doses notified | 674,081 | 643,130 | 645,224 | 654,730 | 1,927,288 | |
| Coverage rates as at 15 May 2015 | Dose 1 | 86% | 82% | 81% | 79% | 64% |
| | Dose 2 | 83% | 79% | 78% | 75% | 57% |
| | Dose 3 | 77% | 73% | 71% | 69% | 48% |

- Comparative coverage is made at 15 years due to the variable age at vaccination (high school year, not exact age, determines eligibility). By this age all members of the cohort will have had the opportunity to have completed vaccination.
- National 3 Dose coverage at age 15 has been stable at 71-72%. In 2014 it rose to 73.1%.
- 12-13 year old females in 2013 reached a three dose coverage of 77% nationally.
- Improvements in coverage over time have been noted such as:
 - Victoria reached 80% coverage in 12-13 year old females in 2012, maintaining this in 2013. This is a 4% increase since 2010.
 - Western Australia has increased coverage progressively since 2007 from 66.3% in 12-13 year olds to 77.6% in 2012.
 - Queensland reached 76% three dose coverage in 12-13 year old females in 2012 (75% in 2013) from a low of 72% in 2010.
 - New South Wales changed the delivery of missed doses from general practice/clinics to school based in 2012. Third dose coverage from 12-13 year old females increased dramatically from 70.1% in 2011 to 81.0% in 2013.

COVERAGE BY SOCIOECONOMIC STATUS & REMOTENESS

FIG. 6

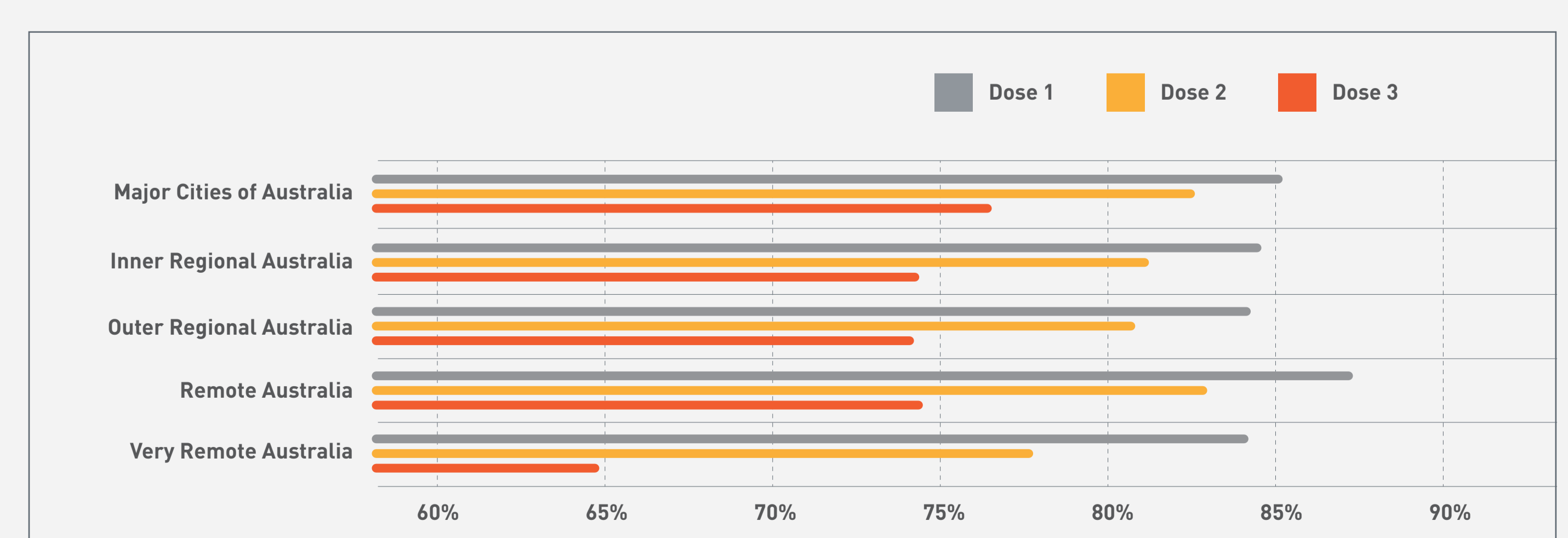
HPV vaccine coverage amongst 12-13 year old females by socioeconomic status, Australia, 2012 (data as at December 2014)



- The dose 1 HPV vaccine coverage rate for females aged 12-13 years in 2012 was slightly higher in the higher socioeconomic quintiles. The dose 3 coverage rates displayed a more marked decrease for females in the low socioeconomic quintile.

HPV vaccine coverage amongst 12-13 year old females by remoteness, Australia, 2012 (data as at December 2014)

FIG. 7



- Dose 1 coverage was highest in the Remote Australia and lowest in Outer Regional Australia for females aged 12-13 years of age in 2012. Dose 3 coverage was highest in Major Cities of Australia and lowest in Very Remote Australia.