

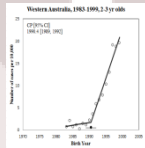


Western Australia

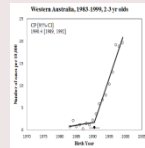
WESTERN AUSTRALIA

➔ (Click on the graphs under each topic)

AD Rate



AD Changepoints



Vaccines

MMR

Varicella

| MEASLES, MUMPS, RUBELLA, VARICELLA | | | | |
|------------------------------------|--------|---|------|----------------------|
| 01/1979 | MMR II | A rubella vaccine with the RA 27/3 | Meck | >=12 months Licensed |
| 1979 | MMR II | Combined measles, mumps and rubella with the RA 27/3 strain | Meck | >=12 months Licensed |
| 1989 | MMR II | Combined measles, mumps and rubella with the RA 27/3 strain | Meck | >=12 months 2nd dose |

Polio

Hep A

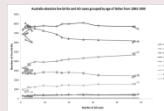
N/A

| POLIO | |
|-------|--------------------|
| 1955 | Small Pox 10 years |
| 1968 | Small Pox 10 years |
| 1979 | Small Pox 10 years |
| 1989 | Small Pox 10 years |
| 1996 | Small Pox 10 years |
| 2000 | Small Pox 10 years |
| 2001 | Small Pox 10 years |
| 2002 | Small Pox 10 years |
| 2003 | Small Pox 10 years |
| 2004 | Small Pox 10 years |
| 2005 | Small Pox 10 years |
| 2006 | Small Pox 10 years |
| 2007 | Small Pox 10 years |
| 2008 | Small Pox 10 years |
| 2009 | Small Pox 10 years |
| 2010 | Small Pox 10 years |
| 2011 | Small Pox 10 years |
| 2012 | Small Pox 10 years |
| 2013 | Small Pox 10 years |
| 2014 | Small Pox 10 years |
| 2015 | Small Pox 10 years |
| 2016 | Small Pox 10 years |
| 2017 | Small Pox 10 years |
| 2018 | Small Pox 10 years |
| 2019 | Small Pox 10 years |
| 2020 | Small Pox 10 years |
| 2021 | Small Pox 10 years |
| 2022 | Small Pox 10 years |
| 2023 | Small Pox 10 years |
| 2024 | Small Pox 10 years |

Paternal Age

Live Births

Live Births
vs AD



Thimerosal

N/A

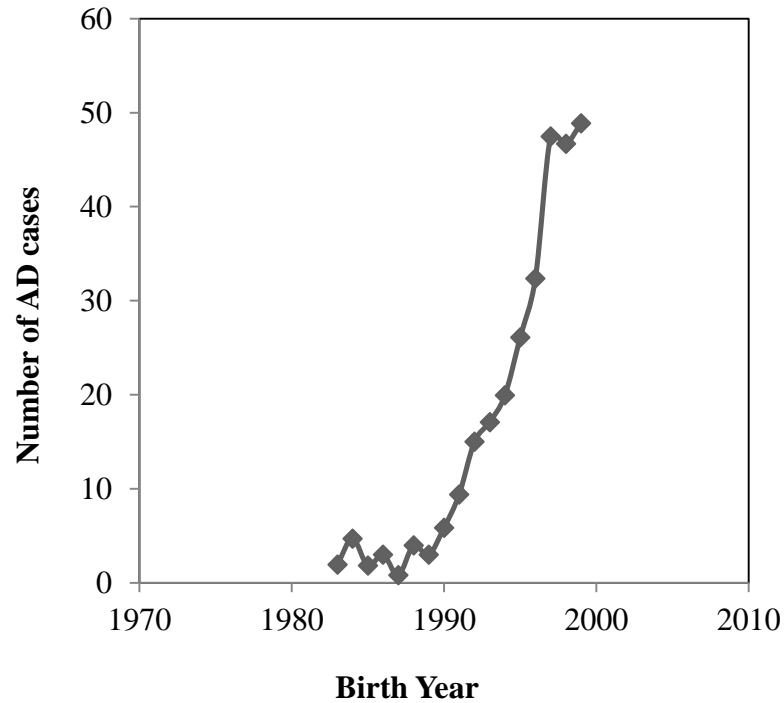
Diagnostic Substitution

N/A

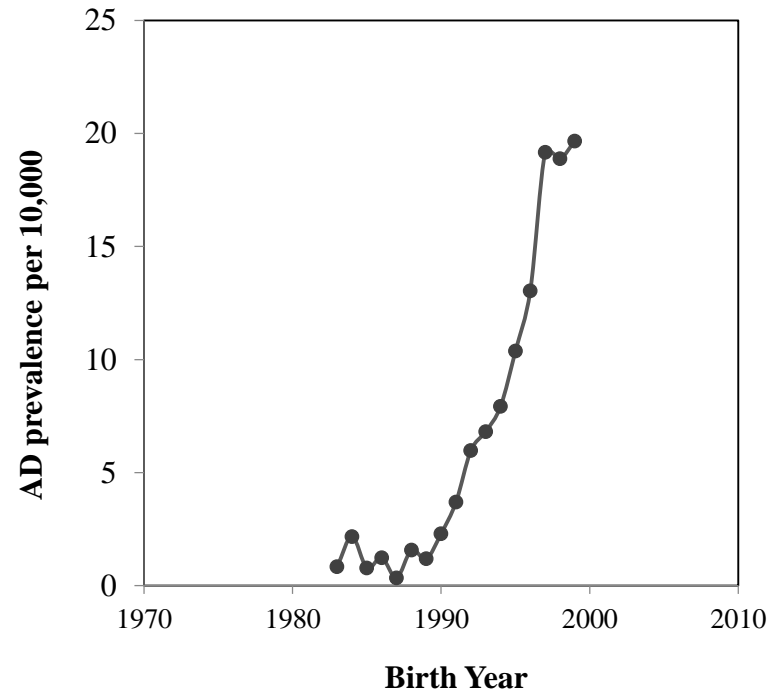
[Data](#)

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**AD cases in Western Australia,
1983-1999, 2-3 yr olds**



**AD prevalence in Western Australia,
1983-1999, 2-3 yr olds**



[Graphs](#)

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| Birth Year | Prevalence per 10,000 | Live births | AD cases |
|------------|-----------------------|-------------|----------|
| 1983 | 0.834888 | 23087 | 1.9 |
| 1984 | 2.171511 | 21625 | 4.7 |
| 1985 | 0.785809 | 23109 | 1.8 |
| 1986 | 1.233448 | 24236 | 3.0 |
| 1987 | 0.348022 | 23332 | 0.8 |
| 1988 | 1.573351 | 25143 | 4.0 |
| 1989 | 1.187927 | 25051 | 3.0 |
| 1990 | 2.302145 | 25356 | 5.8 |
| 1991 | 3.694507 | 25417 | 9.4 |
| 1992 | 5.975397 | 25073 | 15.0 |
| 1993 | 6.812018 | 25081 | 17.1 |
| 1994 | 7.926418 | 25138 | 19.9 |
| 1995 | 10.374158 | 25139 | 26.1 |
| 1996 | 13.044121 | 24793 | 32.3 |
| 1997 | 19.158453 | 24775 | 47.5 |
| 1998 | 18.883866 | 24717 | 46.7 |
| 1999 | 19.665023 | 24849 | 48.9 |

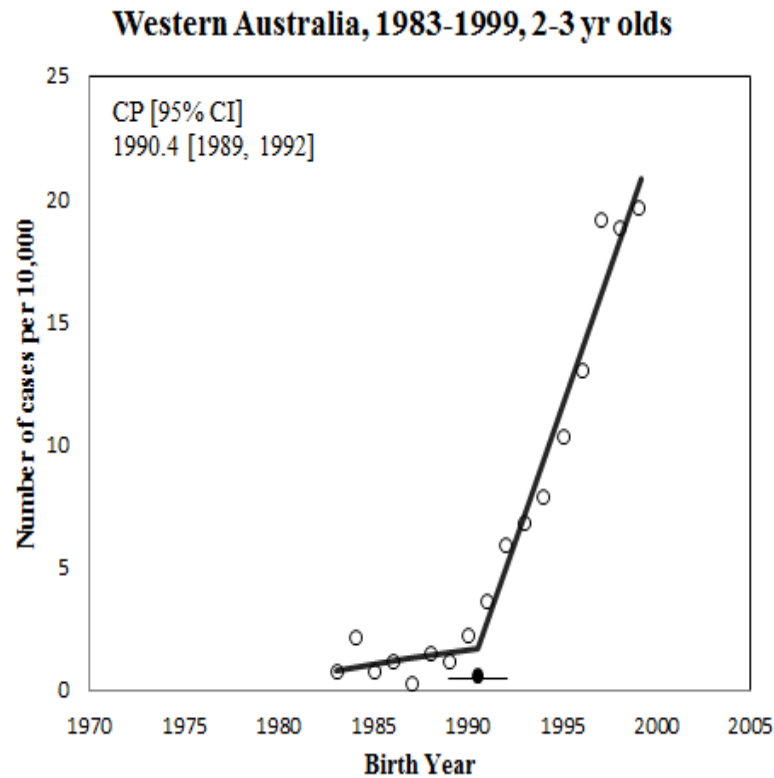
Nassar N DG, Bourke J, Bower C, Glasson E, de Klerk N, Leonard H. (2009) Autism spectrum disorders in young children: effect of changes in diagnostic practices. *Int J Epidemiol* 38: 1245-1254.

AD Changepoint

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1983 – 1999, 2-3 year olds

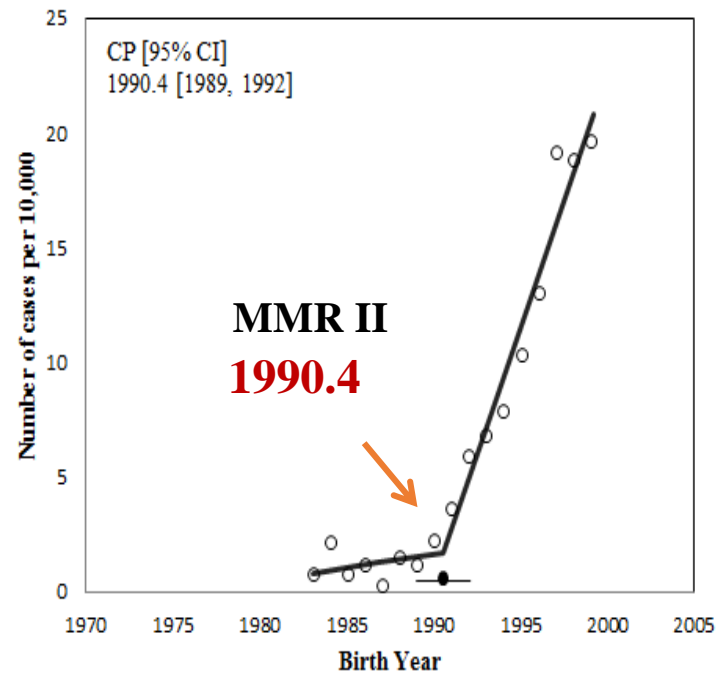
1990.4



MEASLES, MUMPS, RUBELLA, VARICELLA

| | | | | | |
|-----------------|----------|--|---------------------------|------------------|----------|
| 1989 | MMR II | Combined measles, mumps and rubella | Merck, Sharp, Dohme - MSD | ≥ 12 months | Licensed |
| 7/1/2013 | MMRV | Combined measles, mumps, rubella and varicella | | | |
| 1999 | Varivax | | Merck, Sharp, Dohme - MSD | ≥ 12 months | Licensed |
| 1999 | Varilrix | Varicella virus vaccine, live | GSK | ≥ 12 months | Licensed |

Western Australia, 1983-1999, 2-3 yr olds

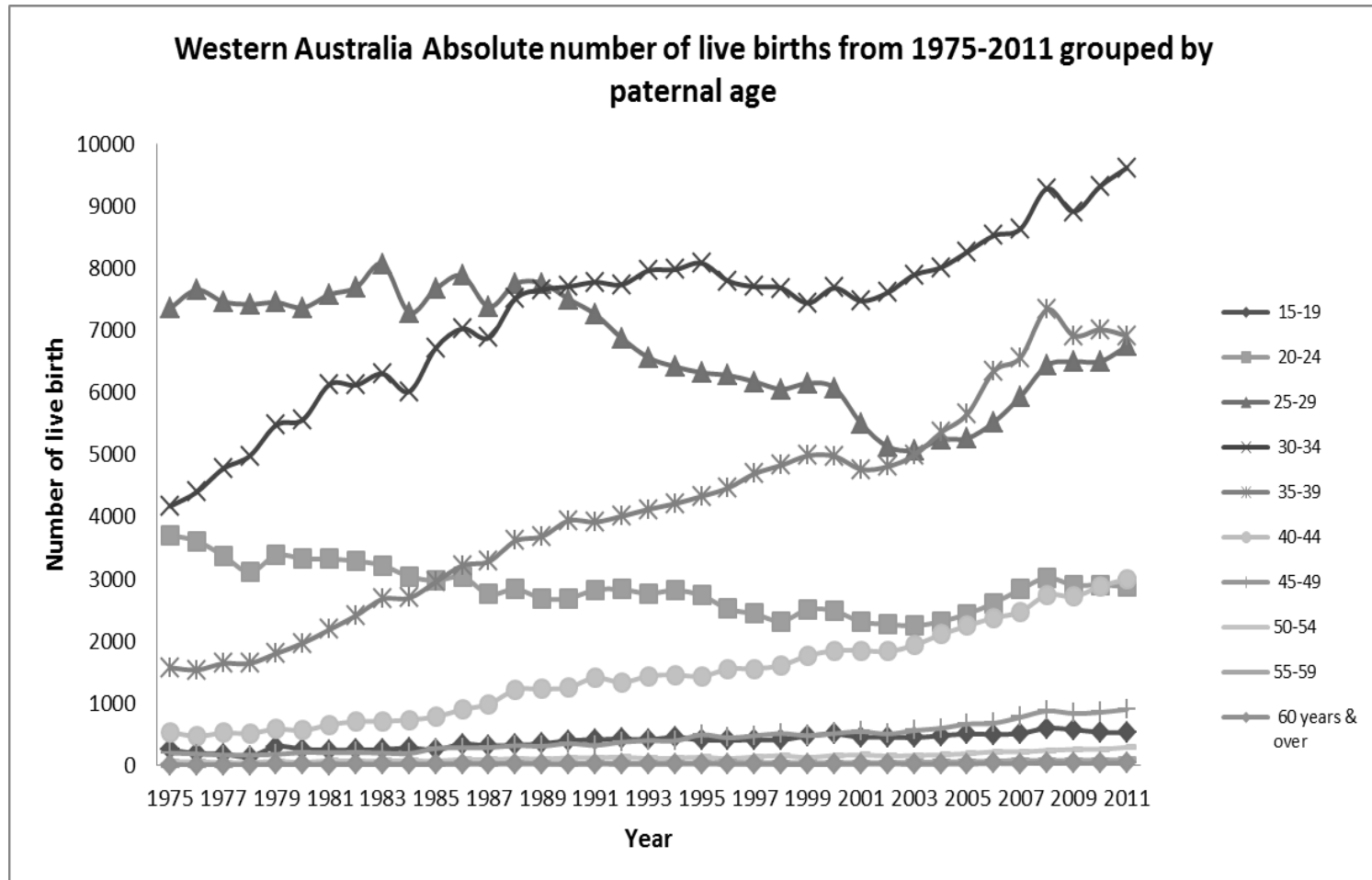


HEPATITIS A VACCINE HISTORY IN WESTERN AUSTRALIA

| | | | | |
|-----|-------------------------|-------------------------------------|----------------------------|-----------------|
| N/A | Avaxim | The inactivated hepatitis A vaccine | Sanofi Pasteur | ≥ 2 years |
| N/A | Havrix Junior | | GSK | 2–<16 |
| N/A | Havrix 1440 | | GSK | ≥ 16 years |
| N/A | Vaqta Paediatric | | CSL Limited/Merck & Co Inc | 1–<18 years |
| N/A | Vaqta Adult formulation | | CSL Limited/Merck & Co Inc | ≥ 18 years |
| N/A | Twinrix Junior | Combined Hep A and B | GSK | 1–<16 years |
| N/A | Twinrix | | GSK | ≥ 16 years |
| N/A | Vivaxim | Combined Hep A and typhoid | Sanofi Pasteur | ≥ 16 years |

All Hep A vaccines in Western Australia use MRC-5 human diploid cells

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