

The epidemiology of STIs among young Indigenous people in NZ and Australia

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Population Maori and Aboriginal and AHMRI Torres Strait Islander people

In the 2013 Census, 598,605 people identified as being part of the Māori ethnic group, accounting for 14.9% of the New Zealand population

Australia's Aboriginal and Torres Strait Islander population has reached 669,900 (or 3 per cent of the total population),

The median age of Māori is 23.9 years compared to 36.9 years

The median age of the Aboriginal and Torres Strait Islander population at 30 June 2011 was 21.8 years, compared to 37.6 years for the non-Indigenous population.

Fertility rates

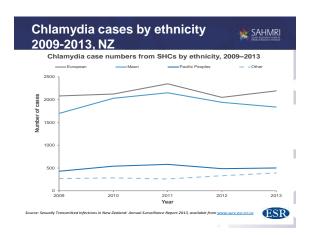


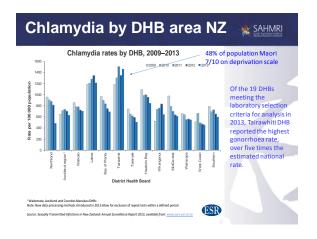
- The total fertility rate was 2.2 births per woman in 2010:
- Māori women had a total fertility rate of 2.8 births per woman in 2010 and Māori women aged 20–24 had the highest fertility rate (156 births per 1,000 women).
- Total fertility rate 1.88 per women vs 2.34 among Aboriginal and Torres strait Islander women
- ~75% of Aboriginal and Torres Strait Islander mothers were < 30 years when they had their babies, compared with less than 50% of non-Indigenous mothers.
- Around 18 in 100 Indigenous mothers were teenagers, compared with 3 in 100 for non-Indigenous mothers

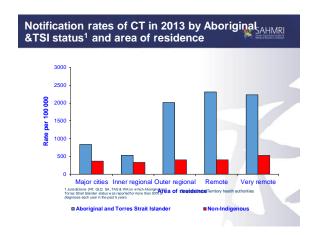
Nationally notifiable data



- The chlamydia notification rate for the Aboriginal and Torres Strait Islander population of 1 341 per 100 000 in 2014
- Overall Chlamydia rate in NZ was 633 per 100,000 vs 389 per 100,000 in Australia
- Maori comprised (37.3%, 1838 cases) diagnosed in SHC and (37.0%, 974 cases) in FPCs

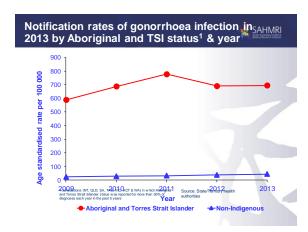


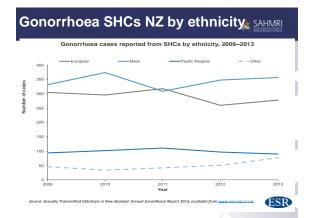




Gonorrhoea, Australia and NZ SAHMRI

- In Australia in 2014, there were a total of 15 786 notifications of (23%) were among the Aboriginal and Torres Strait Islander population
- In 2014, the gonorrhoea rate in the Aboriginal and Torres Strait Islander population was 18 times that of the non-Indigenous population (859 vs. 49 per 100 000 population), increasing to 69 times higher in remote areas.
- In NZ in 2013, a national gonorrhoea rate (based on 19 DHBs) of 78 per 100 000 population was estimated from laboratory surveillance data.
- The estimated rate for 2013 (115 per 100 000) while in Tairawhiti a rate of 400 per 100000

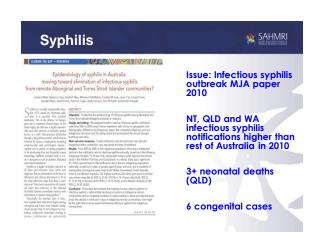


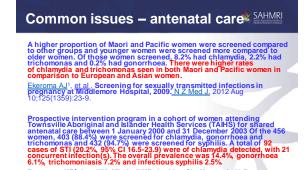


Syphilis, NZ



- NZ The number of cases of syphilis reported by SHCs remained stable between 2012 and 2013 (80 cases). Three cases were reported by FPCs.
- The SHC cases were predominantly male (92.5%) and occurred most commonly in the 40 years and over age group.
- 60% percent of the cases were from the European ethnic group, 20.5% from the Other ethnic group, 11.0% from the Pacific Peoples ethnic group and 8.2% from the Maori ethnic group.





Panaretto KS¹, Lee HM, Mitchell MR, Larkins SL, Manessis V, Buettner PG, Watson D. Prevalence of sexually transmitted infections in pregnant urban Aboriginal and Torres Strait Islander women in northern Australia. Aust N Z J Obstet Gynaecol. 2006 Jun;46(3):217-24.



Cases without documented treatment were more likely to be women (8.2% versus 2.1%, P = 0.037) and more likely to be Māori than non-Māori (13.6% versus 4.8%, P = 0.036). Overall, the most notable issue was the lack of effective partner notification across all demographic variables. Ongoing efforts are required to ensure equitable access to timely treatment and to ensure that more effective partner notification strategies are implemented.

Morgan J¹, Donnell A, Bell A.Is everyone treated equally? Management of genital Chlamydia trachomatis infection in New Zealand. Int J STD AIDS. 2010 Aug;21(8):595-600. doi: 10.1258/ijsa.2010.010213.

NG resistance a concern in both



- 204 cases of gonorrhoea were identified during the study period; 50% of the diagnosed cases were in people aged less than 26 years. Gonococcal infection was strongly associated with being of either Māori or Pacific ethnicity (p<0.001).
- The incidence of gonorrhoea in the Auckland population is steadily rising, with the main risk factors being age under 25 and being of Māori or Pacific ethnicity.

Azariah S¹, Perkins N. Risk factors and characteristics of patients with gonormoea presenting to Auckland Sexual Health Service, New Zealand. N. Z. Med J. 2007 Apr 13;120(1252):U2491.

Number and rate of HIV Diagnosis Indigenous Peoples 1999-2008



SAHMRI

Country	Australia	NZ	Canada
Non- Indigenous -number of diagnoses	7589	929	5838
-age standardised rate*	26	13	24
Indigenous -number of diagnoses	185	129	1799
-age Standardised rate *	31	23	178

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Rates of HIV by Exposure Category-1999-2008 Indigenous Rates per 100,000* SAHMRI

Exposure Category	Australia	Canada	NZ
MSM	31.4	35.6	30.8
Heterosexual (F)	12.5	55.2	3.8
Heterosexual (M)	7.2	49.3	3.2
IDU(F)	4.8	112.6	0.0
IDU (M)	8.4	107.7	0.65

Kontana JUNSW

Shea B, Aspin C, Ward J, Archibald C, Dickson N, McDonald A, Penehira M, Masching B, McAllister S, Smith L, Halverson J, Kaldor J, Andersson N. HIV Diagnosis in Indigenous peoples: a comparison of Australia. Canada and New Zealand international Feolth. 2011; 3(1):193-198.

Issues common to both populations SAHMRI

- Young populations
- High birthing rates
- Over representation in STI data
- HIV risk
- NG resistance risk
- Poverty, social deprivation
- Remoteness
- Solutions are required tailored to communities and populations
- Potency of interventions need to be stronger multi-layered