## Development of a pilot register for syphilis testing and treatment in Victoria

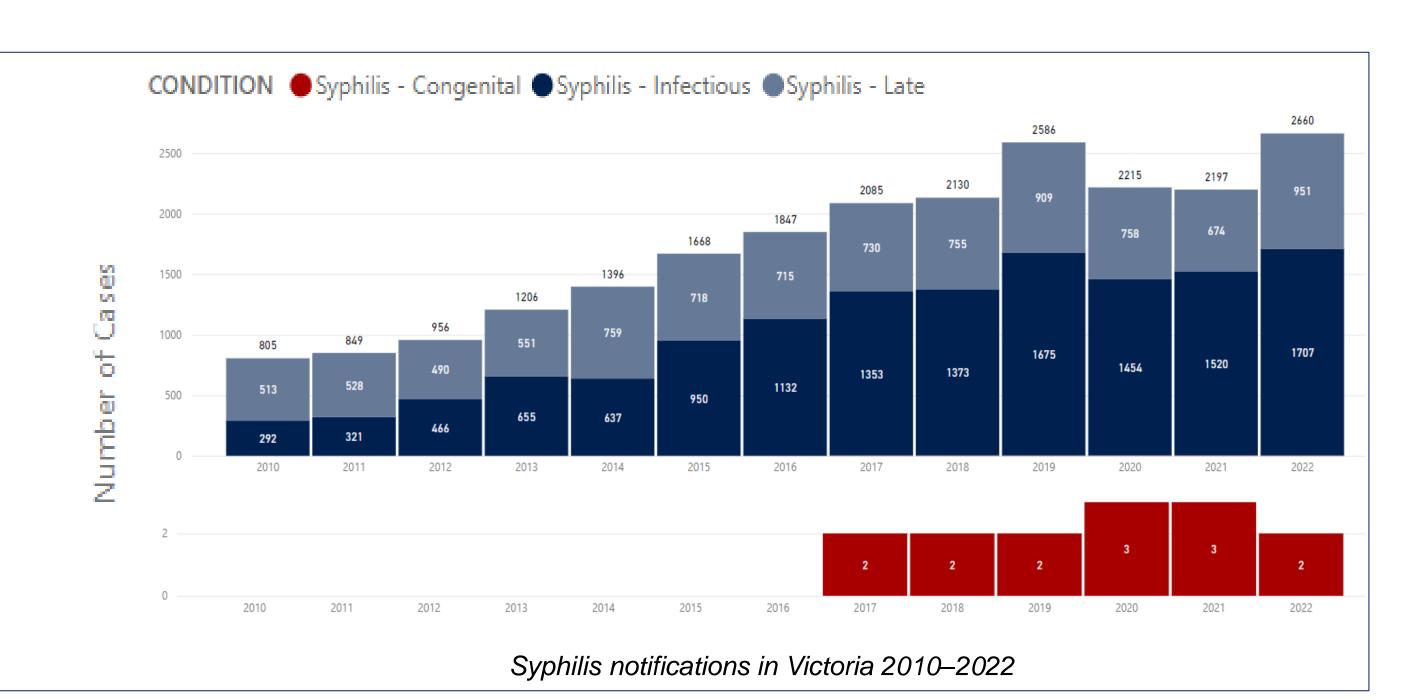
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## BACKGROUND

Victoria has seen a significant rise in the number of cases of both infectious and late syphilis reported to the state's Department of Health (DH) in the past decade.

While males, particularly those who identify as MSM (men who have sex with men), continue to represent most reported cases, shifts in syphilis transmission networks have resulted in increased infections among heterosexual men and women. Consequently, in 2017, congenital syphilis re-emerged in the state.



First name Last name DOB Cd (All) V Person details Syphilis events First name: Q Search PHESS ID... Middle name: 0 0 Cd Last name: Condition Aboriginal and Torres Strai Event date PHESS ID Person ID Classification Identified gender Birth date: 01/01/1990 Syphilis - Infectious Confirmed Not Aboriginal or Torres Str 13-01-2023 NULL 320231111111 123567890 3999 15-02-2021 32021222222 123567890 Syphilis - Infectious Confirmed NULL Not Aboriginal or Torres Str Postcode: Confirmed 26-04-2013 320133333333 Syphilis - Infectious NULL Not Aboriginal or Torres Str 123567890 null Death date: Syphilis - Infectious Confirmed Not Aboriginal or Torres Str 09-08-2011 123567890 NULL 320114444444 Person ID: 123567890 Sex: Male Laboratory testing history Q Search Test type... 0 0 0 0 PHESS ID Collection date Test date Result Value Laboratory Specimen Test type 320231111111 12-01-2023 13-01-2023 Blood - venous Rapid Plasma Reagin test (RPR) Reactive R128 Victorian Infectious Diseases Refere 320231111111 12-01-2023 13-01-2023 Victorian Infectious Diseases Refere Blood - venous Treponema pallidum Ab [Presence] in Serum by Immunoassay Reactive 12-01-2023 13-01-2023 Blood - venous Treponema Pallidum Particle Agglutination (TPPA) Reactive Victorian Infectious Diseases Refere 320231111111 Treponema Pallidum Particle Agglutination (TPPA) 08-05-2021 10-05-2021 Reactive Victorian Infectious Diseases Refere Blood - venous 32021222222 Treponema pallidum Ab [Presence] in Serum by Immunoassay Victorian Infectious Diseases Refere 08-05-2021 10-05-2021 Blood - venous Reactive 32021222222 64 Victorian Infectious Diseases Refere 32021222222 08-05-2021 10-05-2021 Rapid Plasma Reagin test (RPR) Reactive Blood - venous 32021222222 08-02-2021 10-02-2021 Rapid Plasma Reagin test (RPR) Reactive 128 Dorevitch Pathology Blood - venous 320133333333 Victorian Infactions Diseases Refere 28-11-2020 28-11-2020 Rload - venous Ranid Dlacma Reagin test (RDR) Mon-reactive Treatment history 0 0 0 0 0 source\_event\_ids PHESS ID Adequately treated? Treated with Treatment date Dose 3 date Dose 1 date Dose 2 date 320231111111 Benzathine penicillin G 1.8g IM single dose 17-01-2023 32021222222 20-20-2021 Benzathine penicillin G 1.8g IM single dose 320133333333 Benzathine penicillin G 1.8g IM single dose 01-05-2013 320114444444 Doxycycline 100mg twice daily for 14 days 12-08-2011

## OUTCOME

As part of a multipronged response to syphilis in Victoria, DH developed a pilot syphilis register, the Syphilis Enhanced Case Management Database (the Database).

The Database was built as a Microsoft Azure Databricks Dashboard (shown: left).

Data is sourced from Victoria's notification surveillance system (PHESS) and provides a summary list of testing and treatment history report for all positive syphilis cases statewide.

It is currently being trialled internally (DH) by public health and partner notification officers.

## NEXT STEPS

The Database will be rolled out to Victorian Local Public Health Units in 2023 to support public health follow-up of syphilis cases.

Following further consideration of regulatory and legal requirements, access options and future resourcing, the Database will subsequently be made available to clinicians to optimise care and assist in correct staging and treatment of syphilis patients across Victoria.

CONTACTS

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