

Obstetric and paediatric syphilis surveillance data from England



March 2023 update

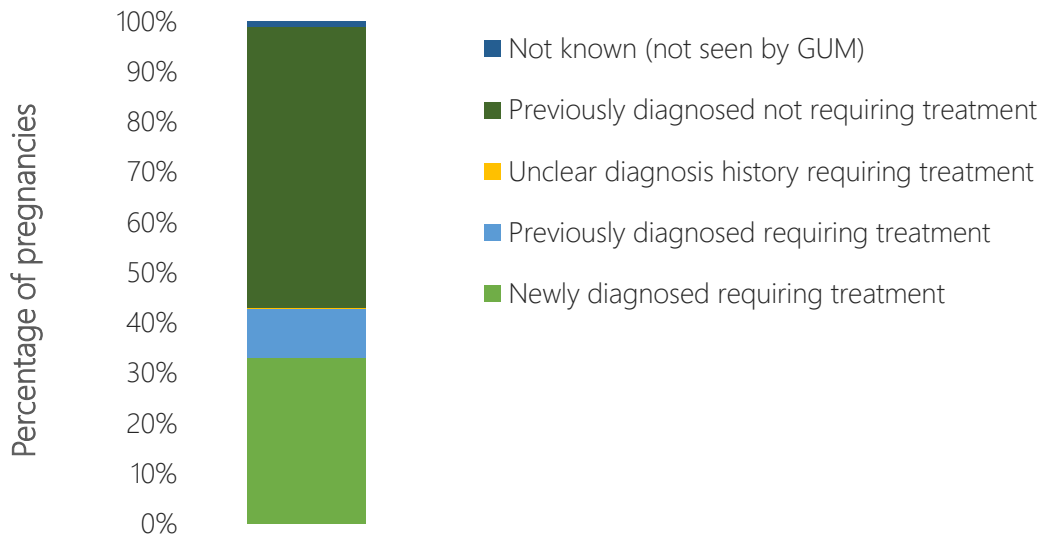
ISOSS is part of NHS England Infectious Diseases in Pregnancy Screening Programme and is based at UCL Great Ormond Street Institute of Child Health



Integrated Screening Outcomes Surveillance Service – syphilis surveillance

- **Comprehensive observational surveillance** of obstetric and paediatric syphilis in England, in place since 2020. Part of NHS England's Infectious Diseases in Pregnancy Screening Programme
- **Maternity reports of all women who screen positive for syphilis during pregnancy** through maternity units; demographics, pregnancy management, outcome via the NHS IDPS programme
- **Paediatric reports of all infants born to women who are treated for syphilis or require treatment in pregnancy** through clinics; confirmation of infection status; ongoing follow-up of children with suspected or confirmed congenital syphilis
- **In-depth case studies of congenital syphilis cases** reviewed by Clinical Expert Review Panel (CERP)

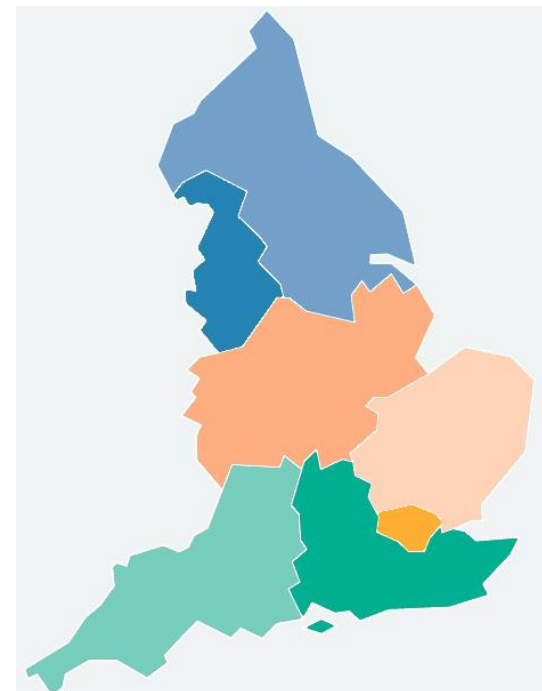
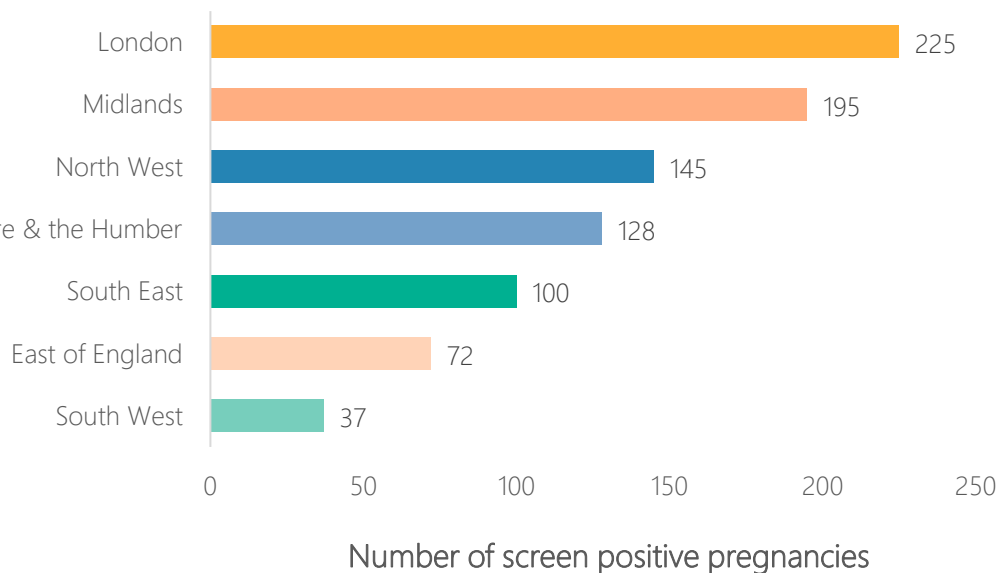
Syphilis screen positive pregnancies in 2020



906
women screened
positive for syphilis
in pregnancy

Diagnosis and treatment status of syphilis screen positive pregnancies booked in 2020

Regional breakdown of screen positive pregnancies booked in 2020



Maternal demographics of screen positive pregnancies booked in 2020

Maternal characteristics, N=906

Ethnicity (n=901)	Percentage of pregnancies
White British	34.6%
White other	32.1%
Black African	13.1%
Black Caribbean	2.8%
Asian	8.3%
Other	6.9%
Mixed	2.2%
Region of birth (n=888)	
UK	40.1%
Eastern Europe	28.0%
Rest of Europe	4.6%
Africa	12.7%
Asia	9.3%
Other	5.2%
Maternal age at delivery	
<25 years	19.6%
25-30 years	23.2%
30-34 years	26.5%
35-39 years	21.5%
≥40 years	9.2%

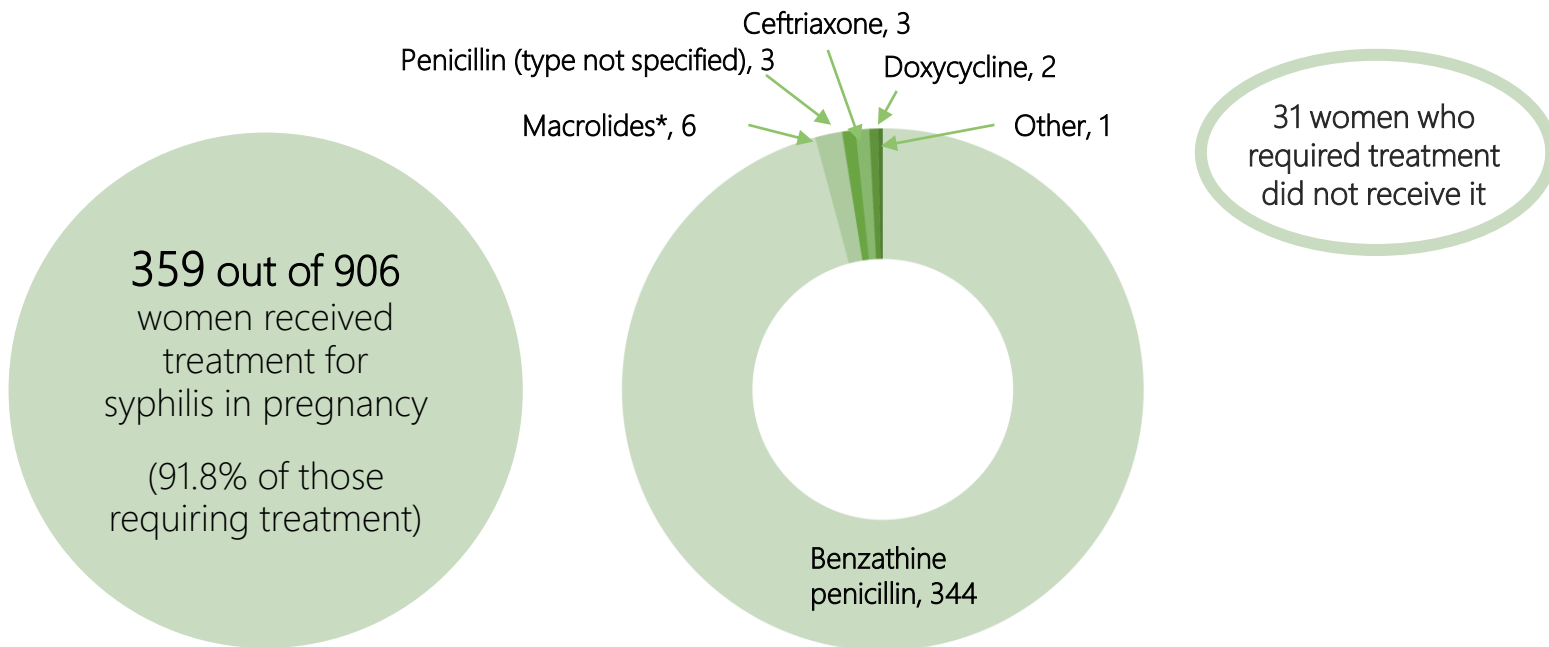
67% of women were of white ethnicity

28% of women were born in Eastern Europe

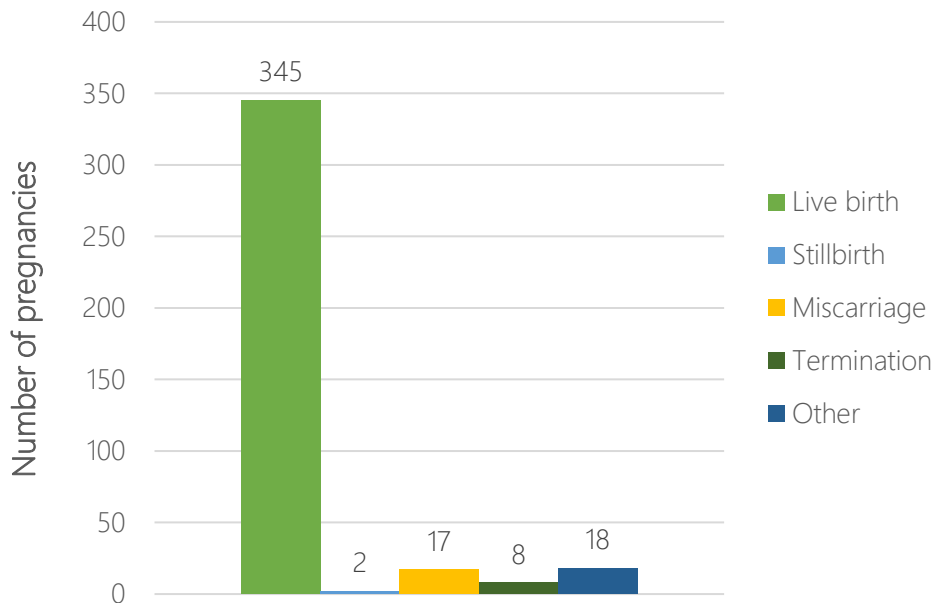
Median age at delivery was 31.5 years

Source: pregnancies reported through ISOSS maternity surveillance by March 2022

Treatment details of pregnancies booked in 2020



Pregnancy outcomes of women booked in 2020 requiring treatment



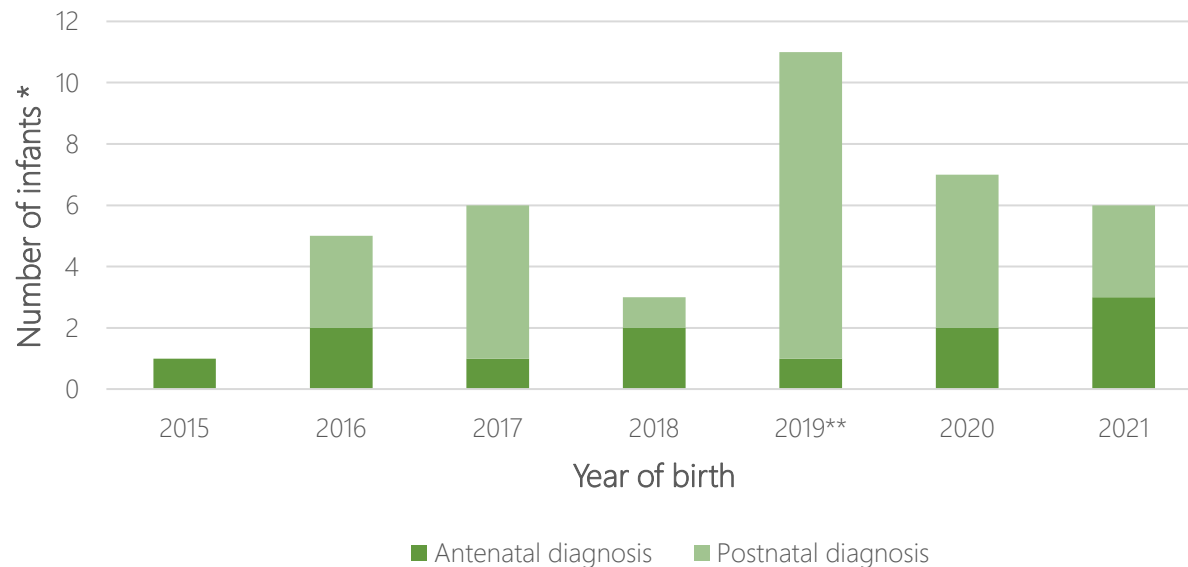
Pregnancy outcomes among women who required treatment, N=390



10% of infants were born preterm

17% of infants were admitted to the neonatal unit

Infants with confirmed congenital syphilis born in England, 2015-2021



7
infants were born with confirmed congenital syphilis in 2020

* includes both live births and stillbirths

** includes multiple birth(s)

ISOSS is a part of NHS England's Infectious Diseases in Pregnancy Screening Programme.

Data are collected under legal permissions granted under Regulation 3 of The Health Service (Control of Patient Information) Regulations 2002.

For more information, visit the ISOSS website at www.ucl.ac.uk/isoss.



Acknowledgements

All ISOSS respondents

Members of the Clinical Expert Review Panel

ISOSS Annual Report (Syphilis)

The ISOSS syphilis report for 2022 can be found at www.gov.uk/government/publications/integrated-screening-outcomes-surveillance-service-isoss-annual-report.

UCL team (2022-2023)

Surveillance Lead: Prof Claire Thorne

Surveillance Manager: Helen Peters

Surveillance Coordinator: Kate Francis

Surveillance Officers: Laurette Bukasa, Rebecca Sconza, Gabriela Toledo, Emily Dema

Surveillance Administrators: Corinne Hill, Elena Ahmed, Saayma Akhi, Buthainah Ahmed, Stella Georgiou