

# Derby and Derbyshire Sexual Health Needs Assessment 2023: Comparative Data

This slide deck is an accompanying document to the  
Derby and Derbyshire Sexual Health Needs Assessment 2023

The full report can be accessed on the Derbyshire Observatory:  
<https://observatory.derbyshire.gov.uk/adult-lifestyles/sexual-health/>

## **Version Control**

Version 3.0, Public Document

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# Data Sources

- Unless otherwise stated, all data presented in this report were retrieved from the publicly available data in the Fingertips Sexual and Reproductive Health Profiles using the Fingertips package in R (Office for Health Improvement & Disparities. Public Health Profiles. <https://fingertips.phe.org.uk> © Crown copyright [2023]).
- For some indicators, local data has been compared to data in similar local authorities (LAs), identified using the Chartered Institute of Public Finance and Accountancy (CIPFA) Nearest Neighbours statistical model. The model identifies 15 LAs with similar demographic and socioeconomic characteristics to the LA of interest, to aid comparison and benchmarking.

# Contents

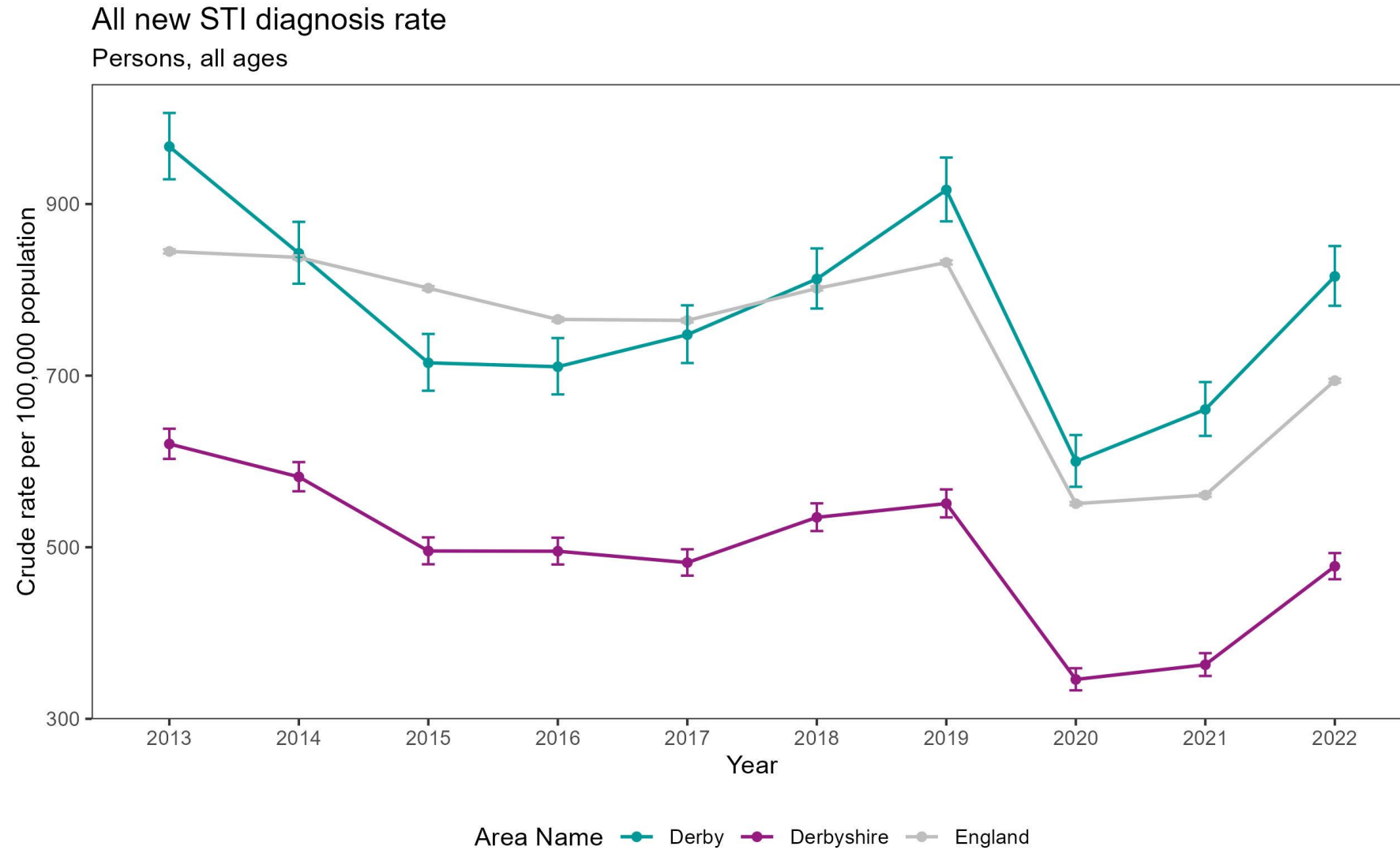
1. Sexually Transmitted Infections (STIs)
2. Human Immunodeficiency Virus (HIV)
3. Human Papillomavirus (HPV) and Cervical Cancer
4. Contraception
5. Wider Determinants of Sexual Health
6. Reproductive Health
7. Integrated Sexual Health Service in Derby and Derbyshire

# 1. Sexually Transmitted Infections (STIs)

- All new STI diagnosis rate / 100,000
- New STI diagnoses (exc chlamydia aged <25) / 100,000
- STI testing rate (exc chlamydia aged <25) / 100,000
- STI testing positivity (exc chlamydia aged <25) (%)
- Syphilis diagnostic rate / 100,000
- Gonorrhoea diagnostic rate / 100,000
- Genital herpes diagnosis rate / 100,000
- Genital warts diagnostic rate / 100,000
- Chlamydia diagnostic rate / 100,000
- Chlamydia diagnostic rate / 100,000 aged 25+
- Chlamydia detection rate / 100,000 aged 15 to 24
- Chlamydia proportion aged 15 to 24 screened



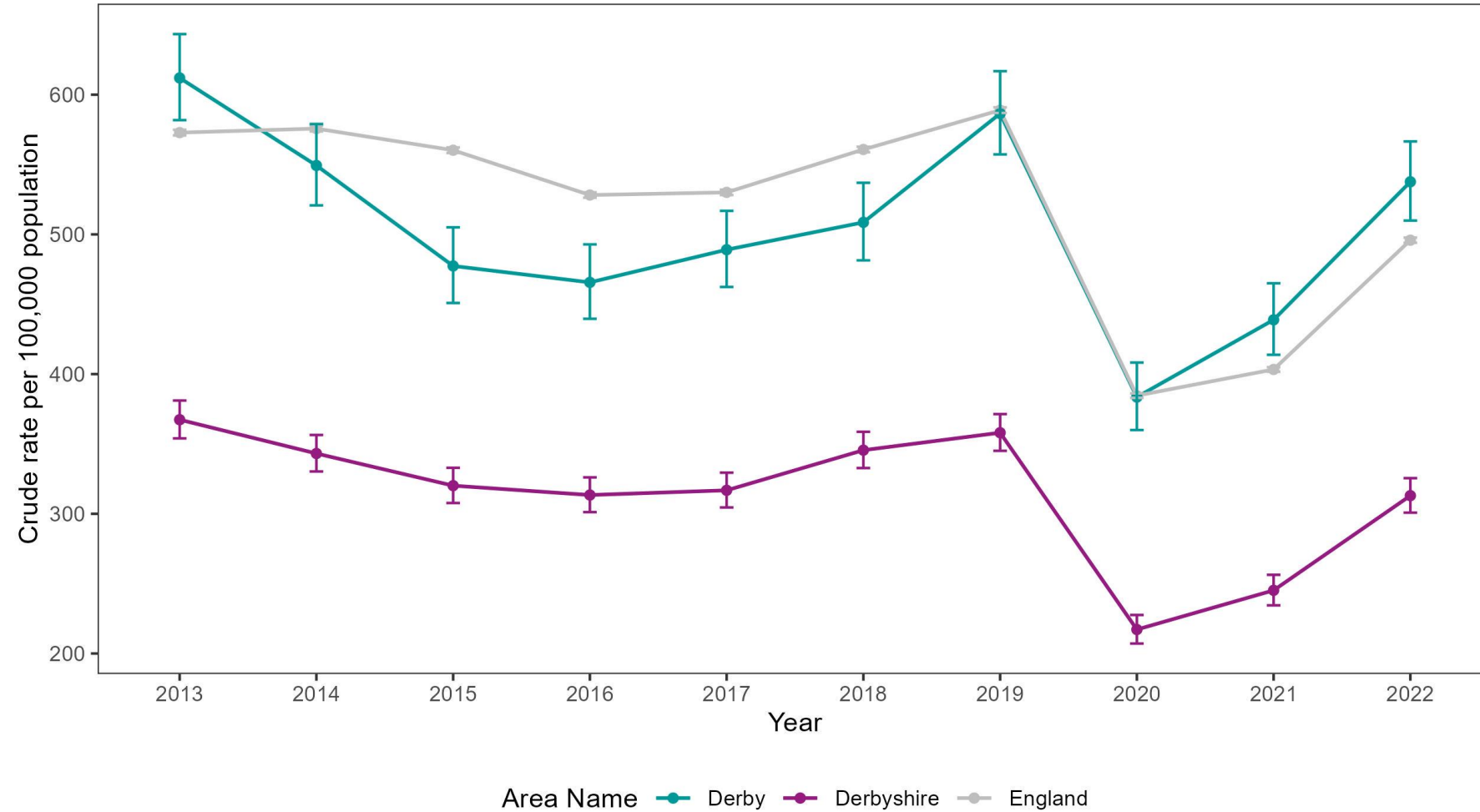
# All new STI diagnosis rate



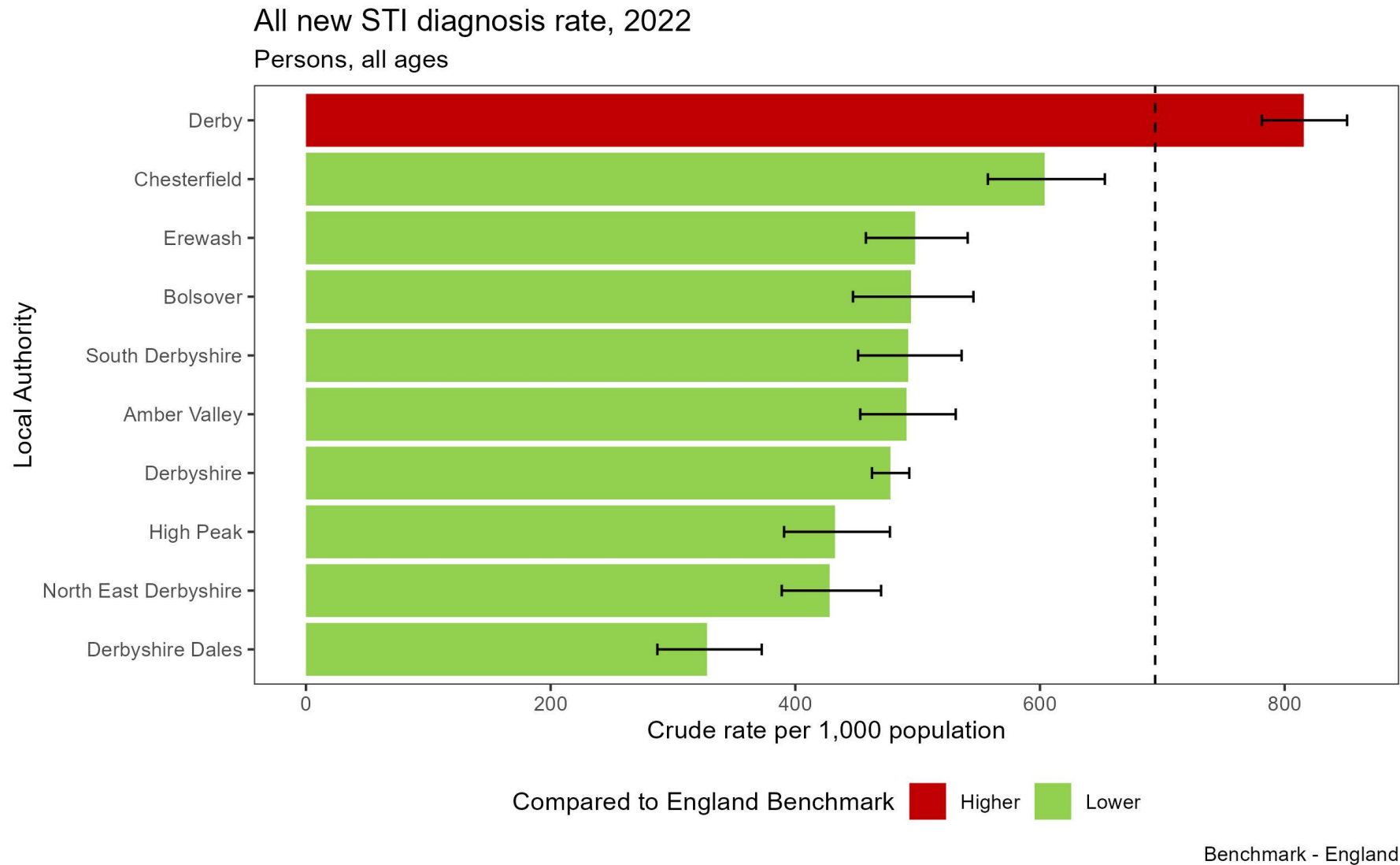
# All new STI diagnosis rate

New STI diagnoses (excluding chlamydia in under 25 years age-group)

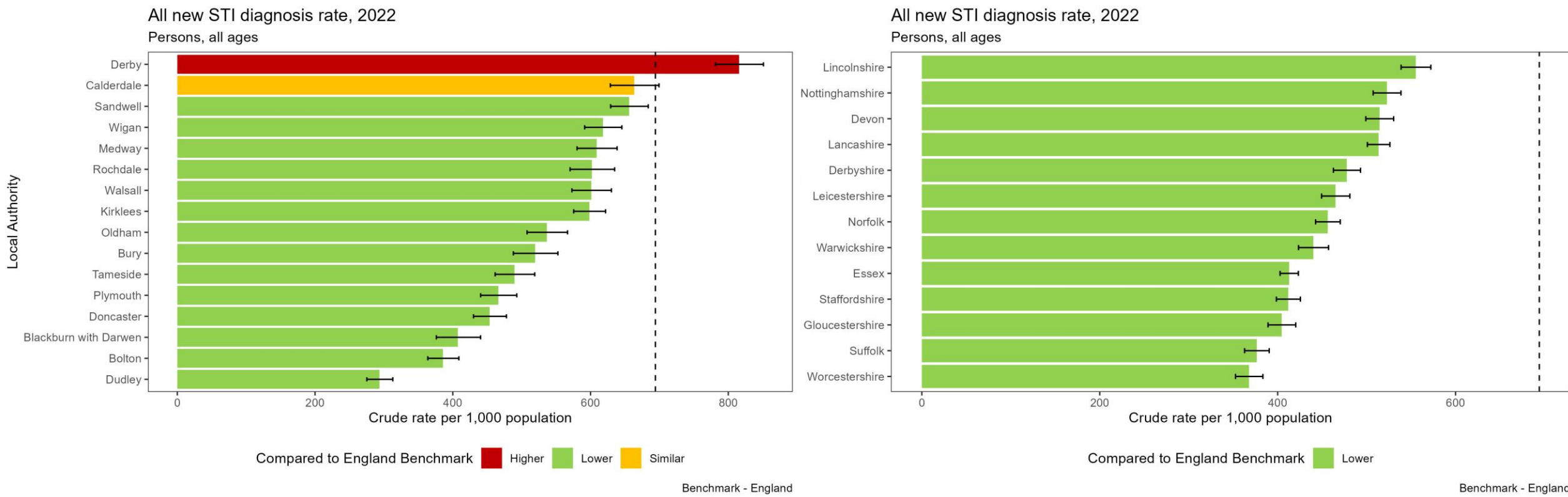
Persons aged 15-64 years



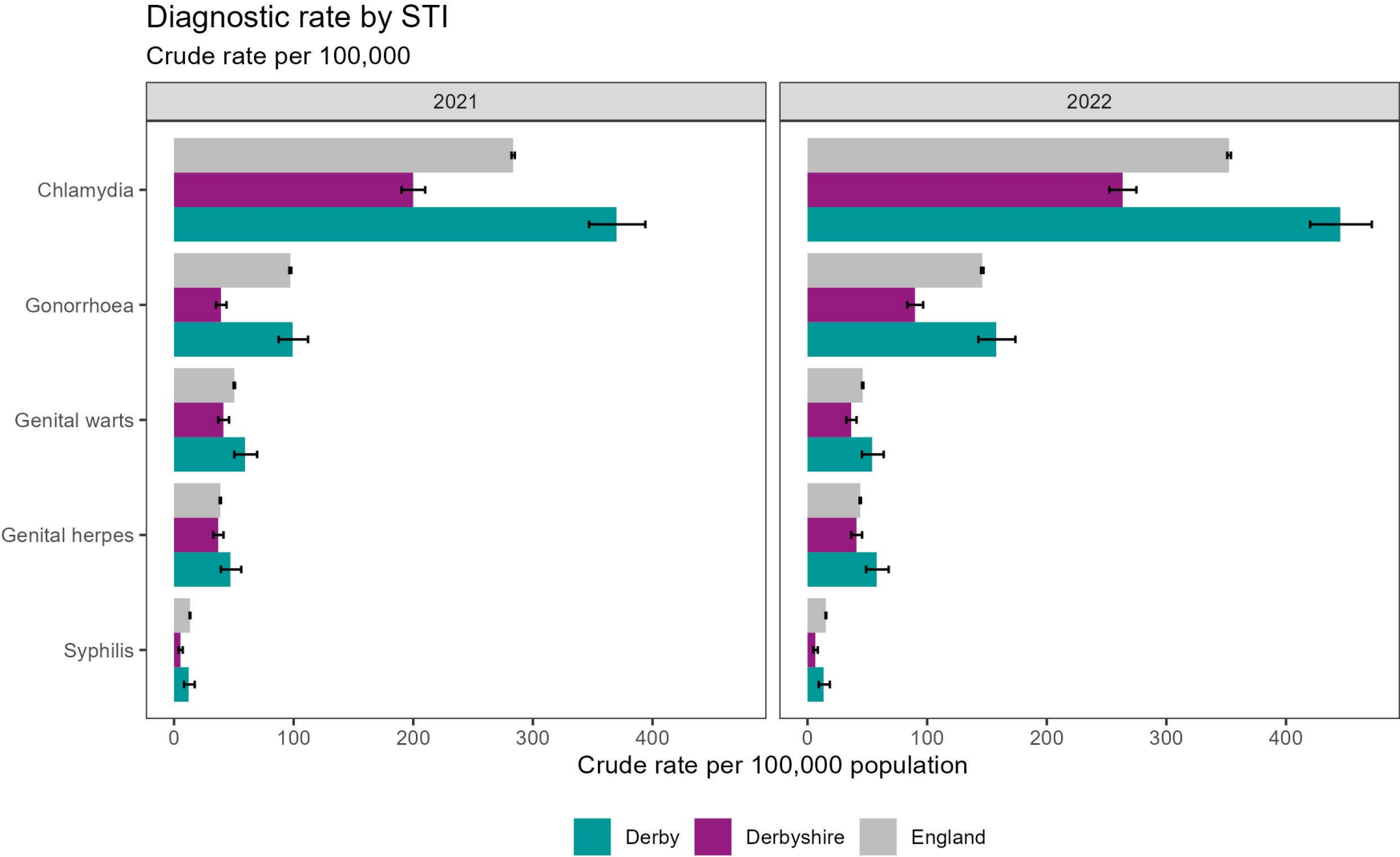
# All new STI diagnosis rate



# All new STI diagnosis rate

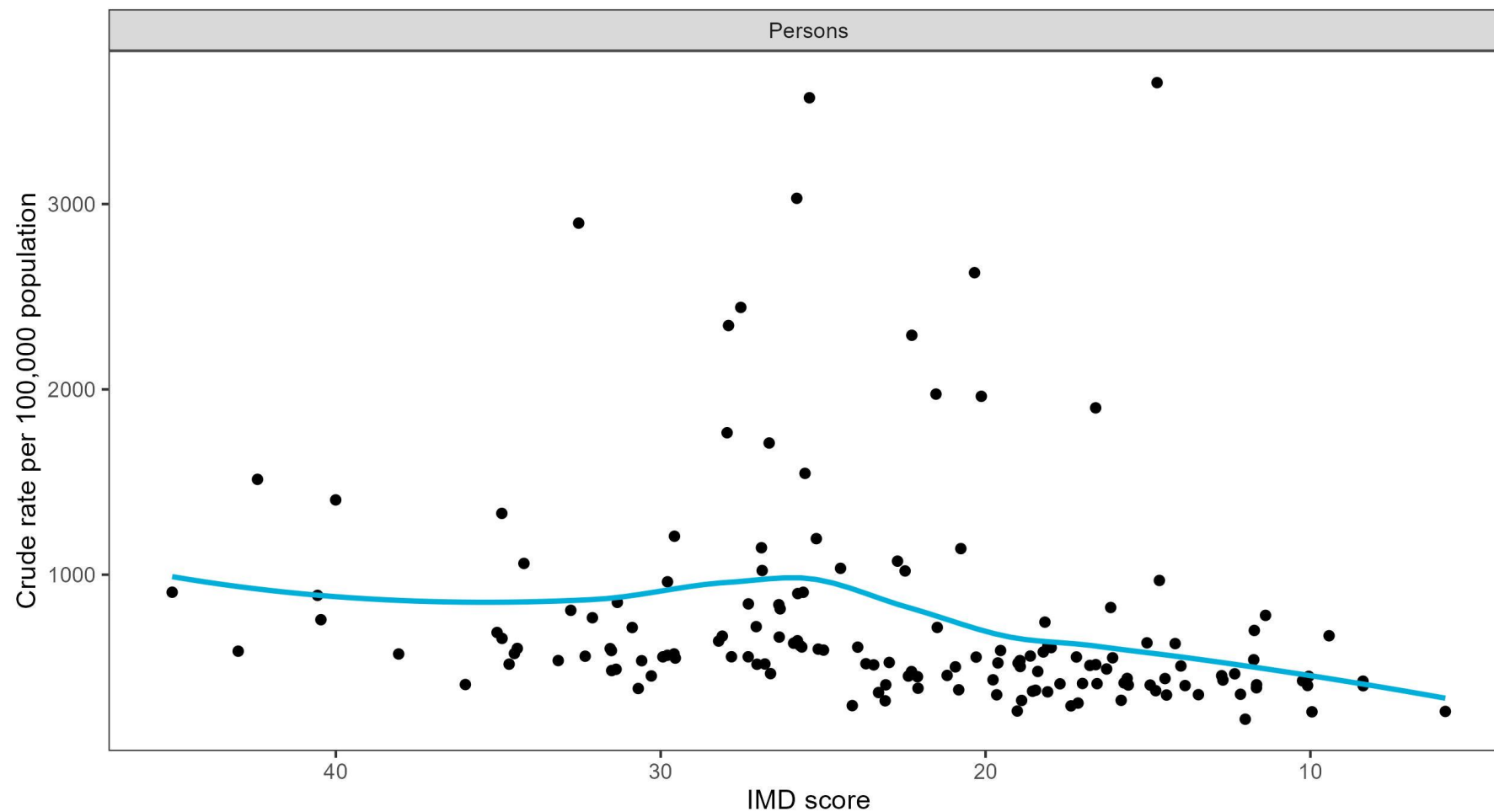


# Diagnostic rate by STI



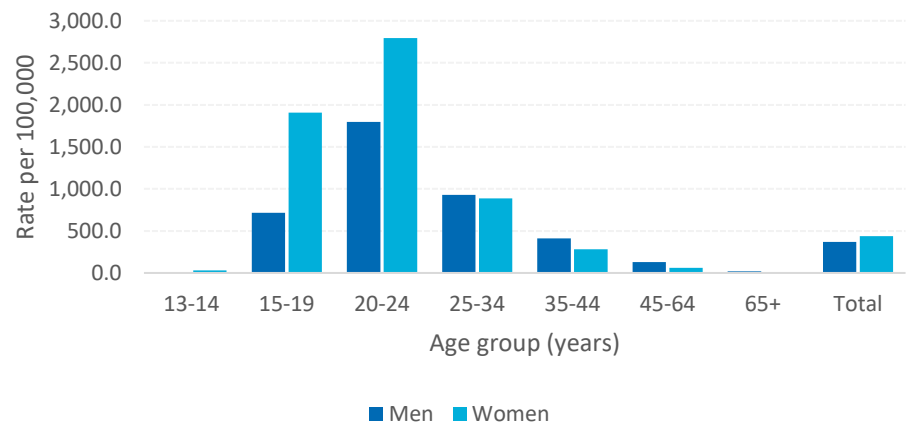
# All new STI diagnosis rate by IMD score in England: 2022

All new STI diagnosis rate by Index of Multiple Deprivation score in Upper Tier Local Authorities in England  
2022

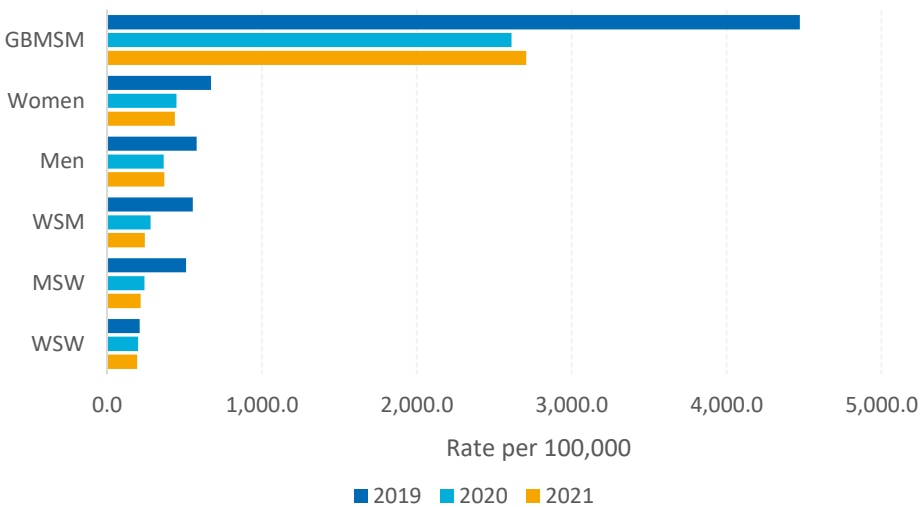


# All new STI diagnosis rate: 2021

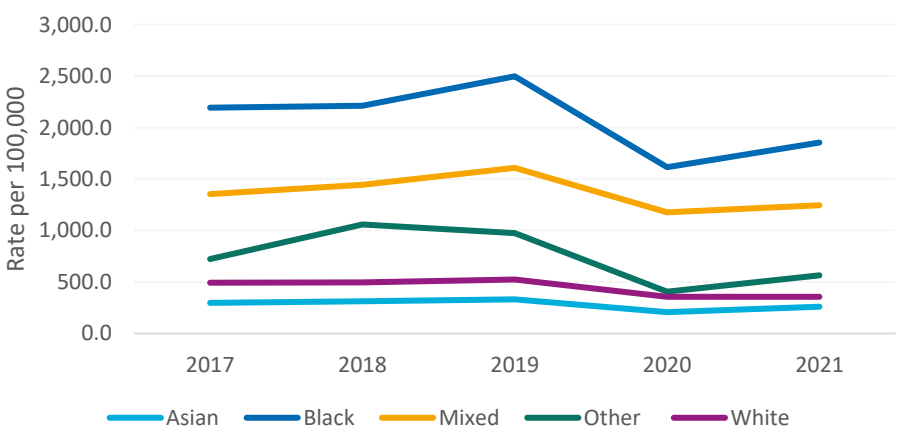
Rates of new STI diagnoses in East Midlands by age group and sex, 2021



Rates of new STI diagnoses in East Midlands by population group and year

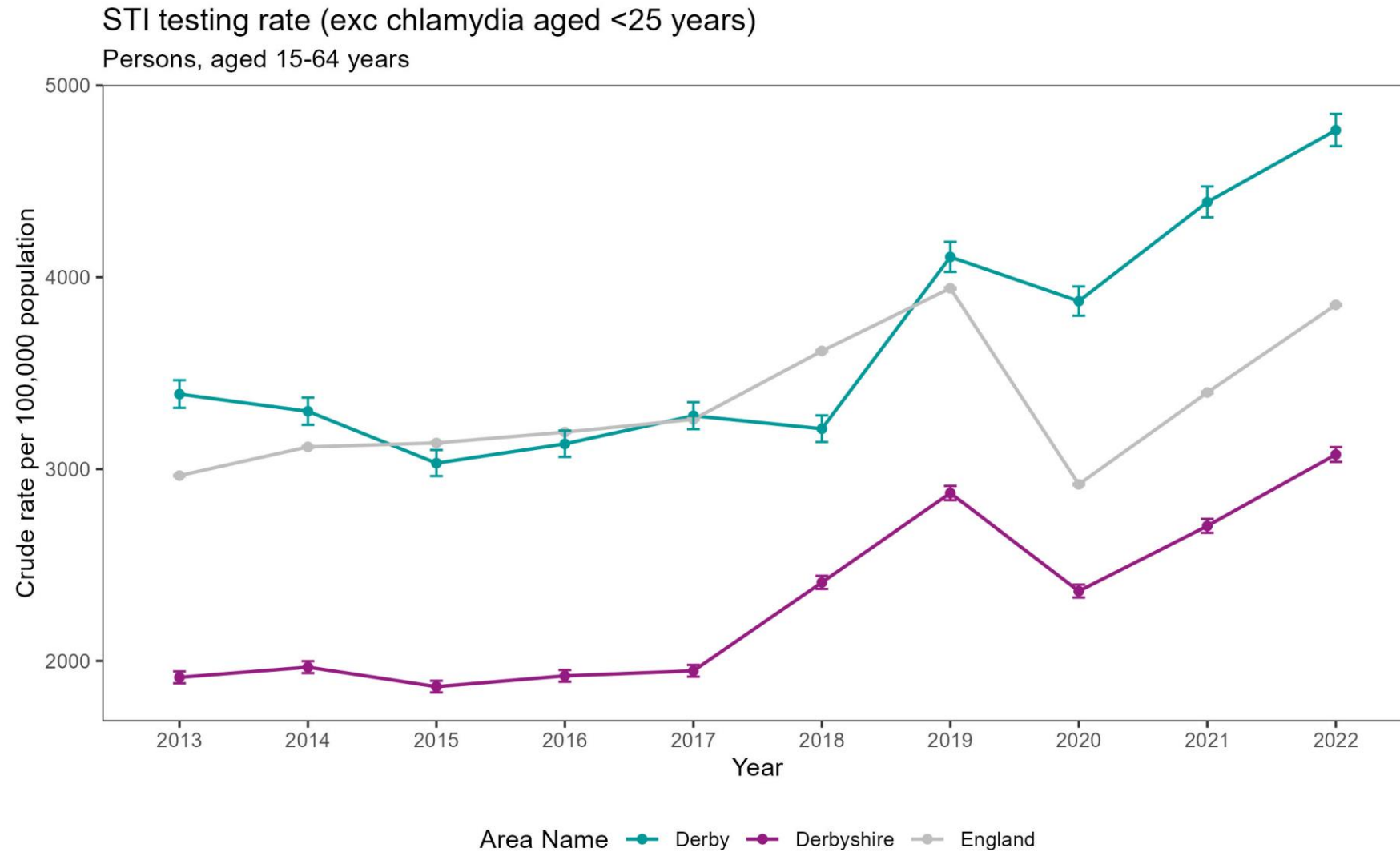


Rates of new STI diagnoses in East Midlands by ethnic group



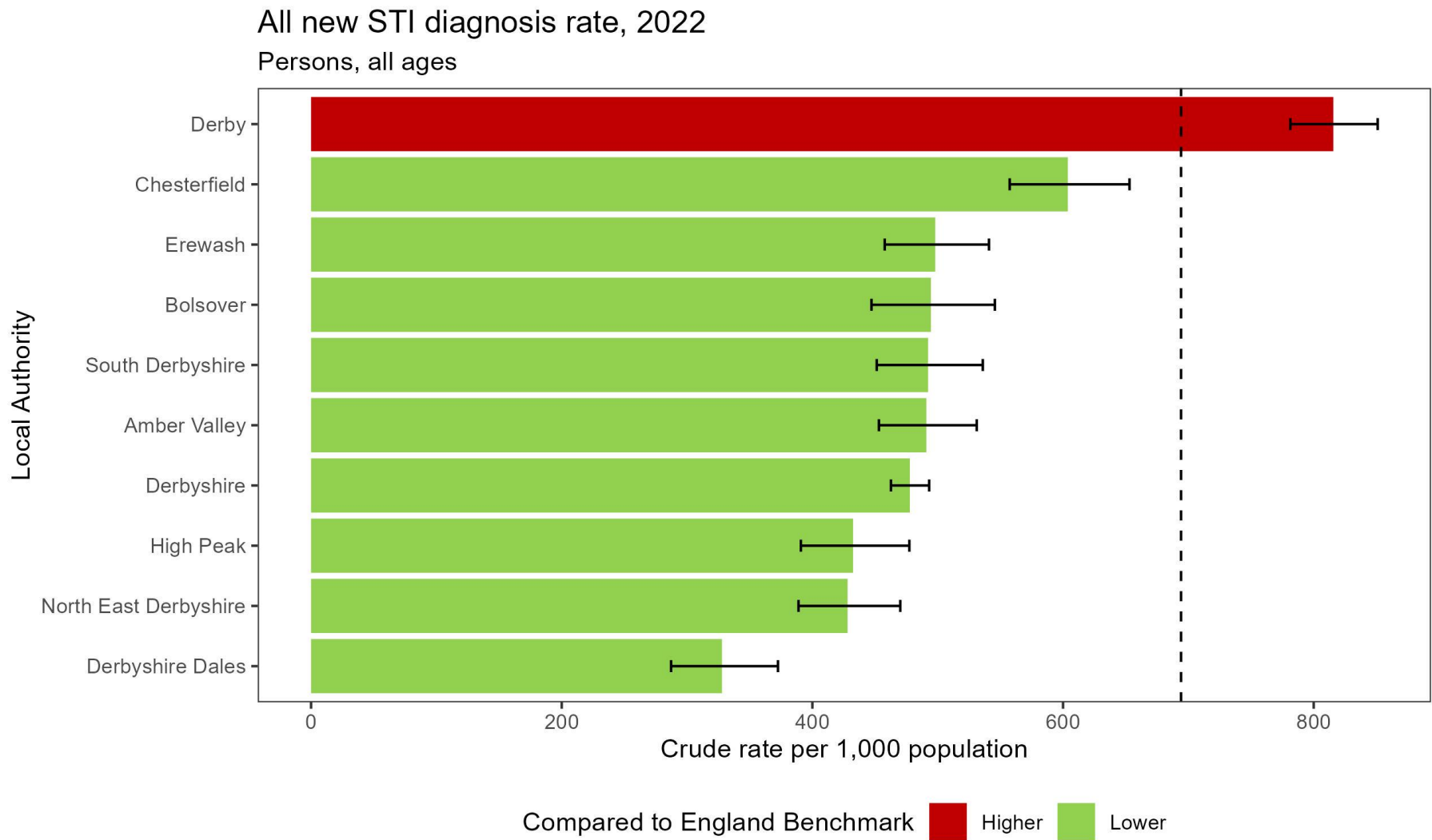
Data sourced from UKHSA Sexually transmitted infections (STIs) annual data tables (2022)

# STI testing rate





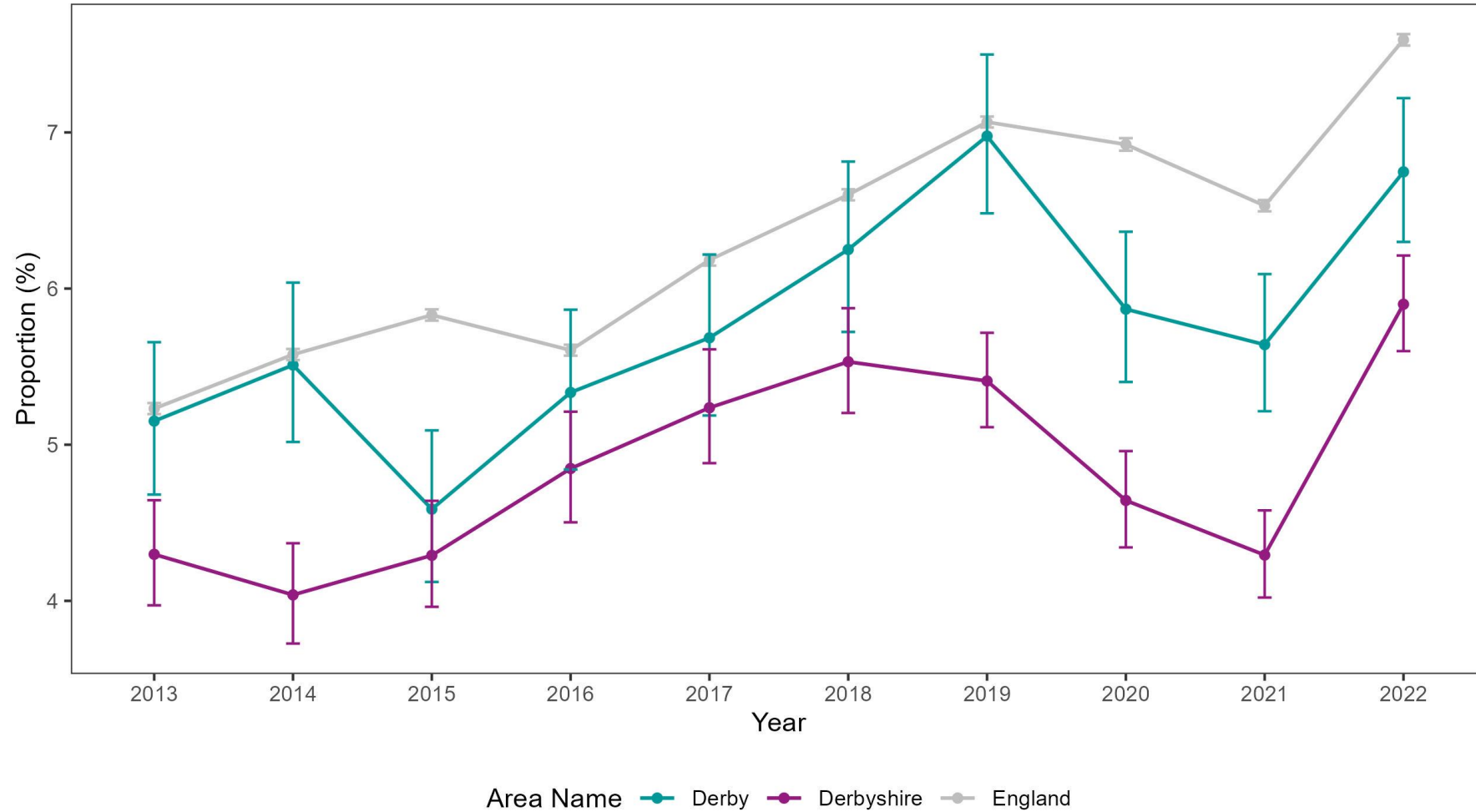
# STI testing rate



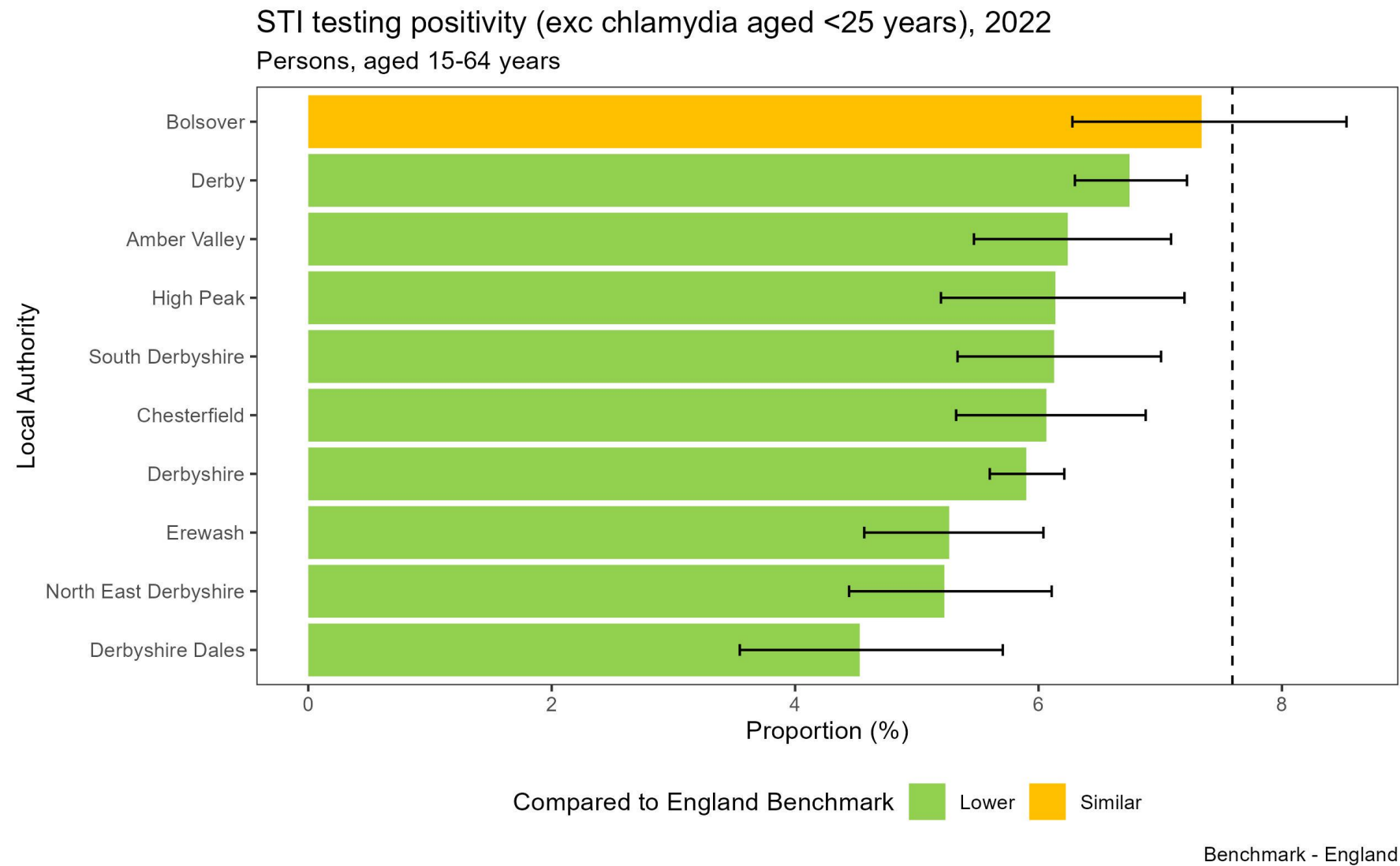
Benchmark - England

# STI testing positivity

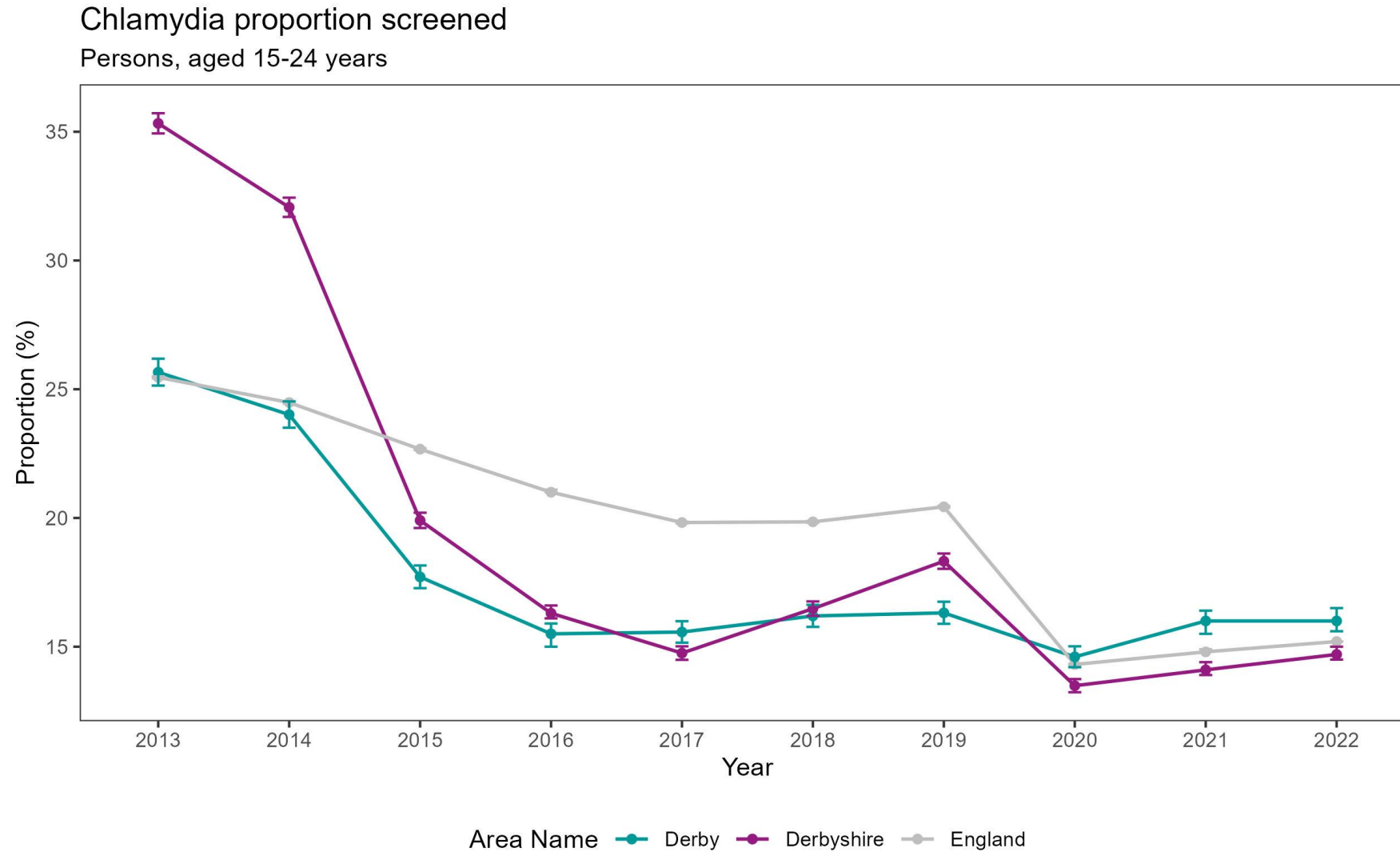
STI testing positivity (exc chlamydia aged <25 years)  
Persons, aged 15-64 years



# STI testing positivity



# Chlamydia proportion aged 15-24 years screened

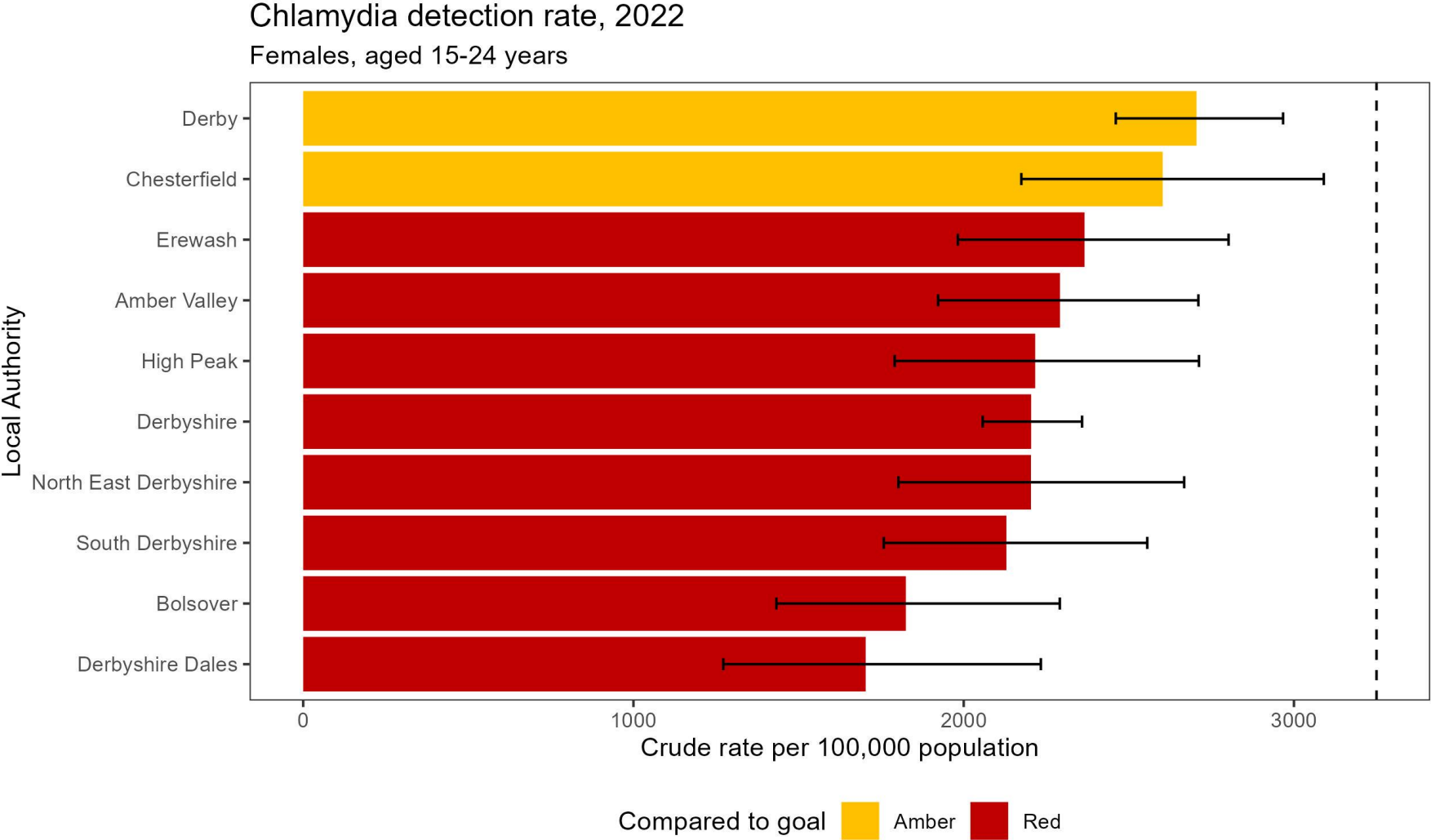


# Chlamydia detection rate in females



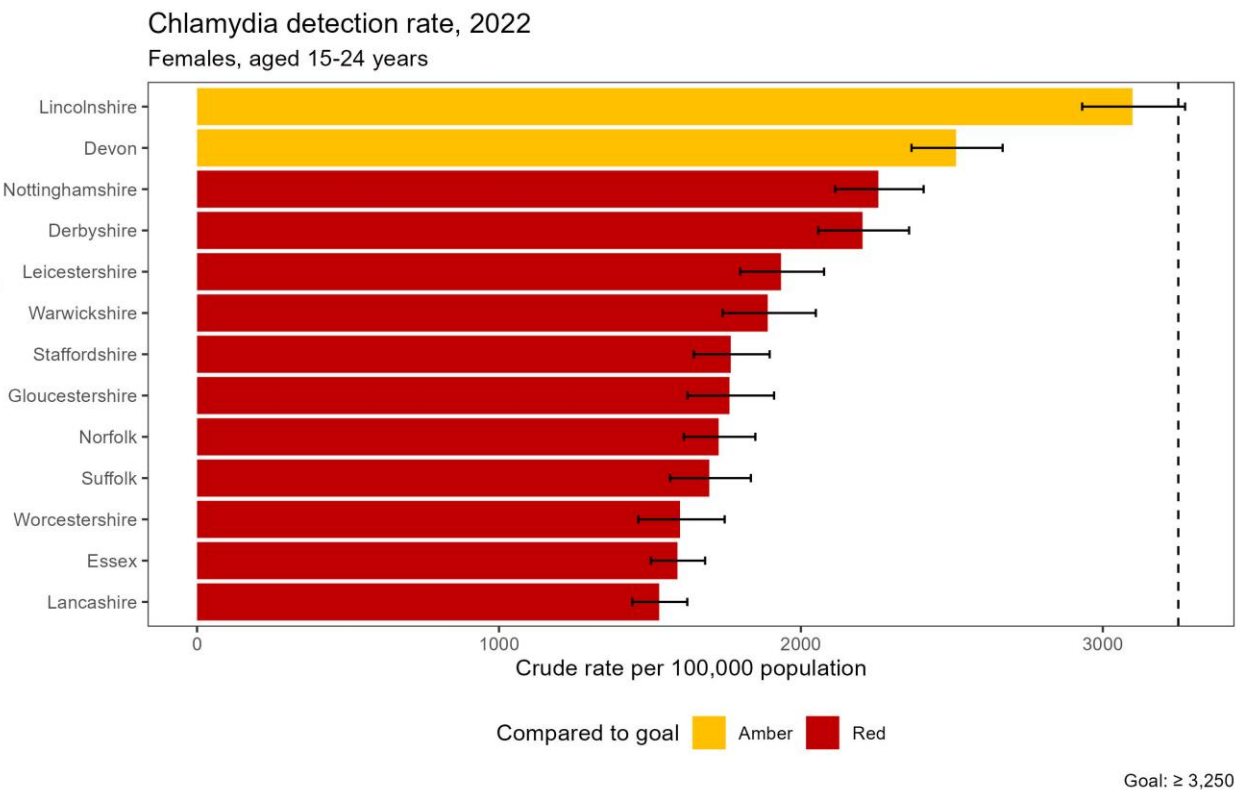
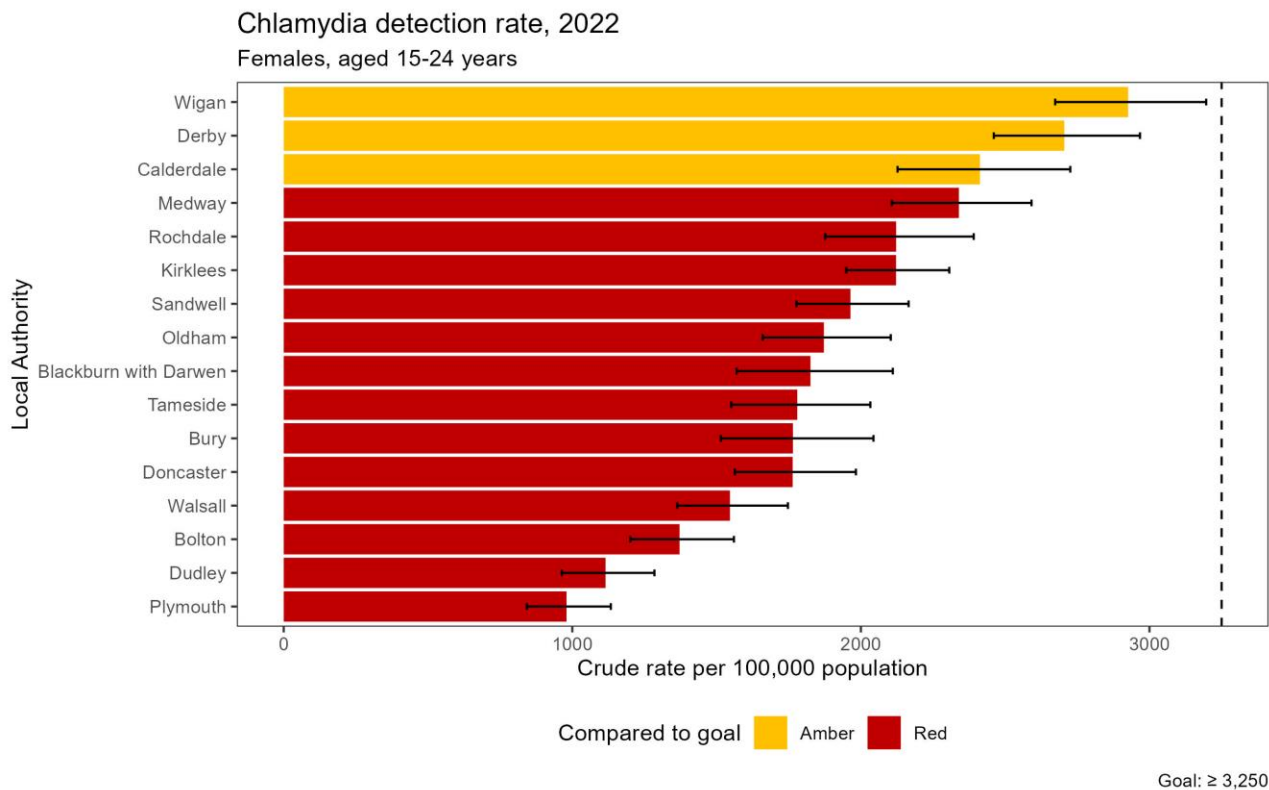
Goal:  $\geq 3,250$

# Chlamydia detection rate in females by LTLA: 2022

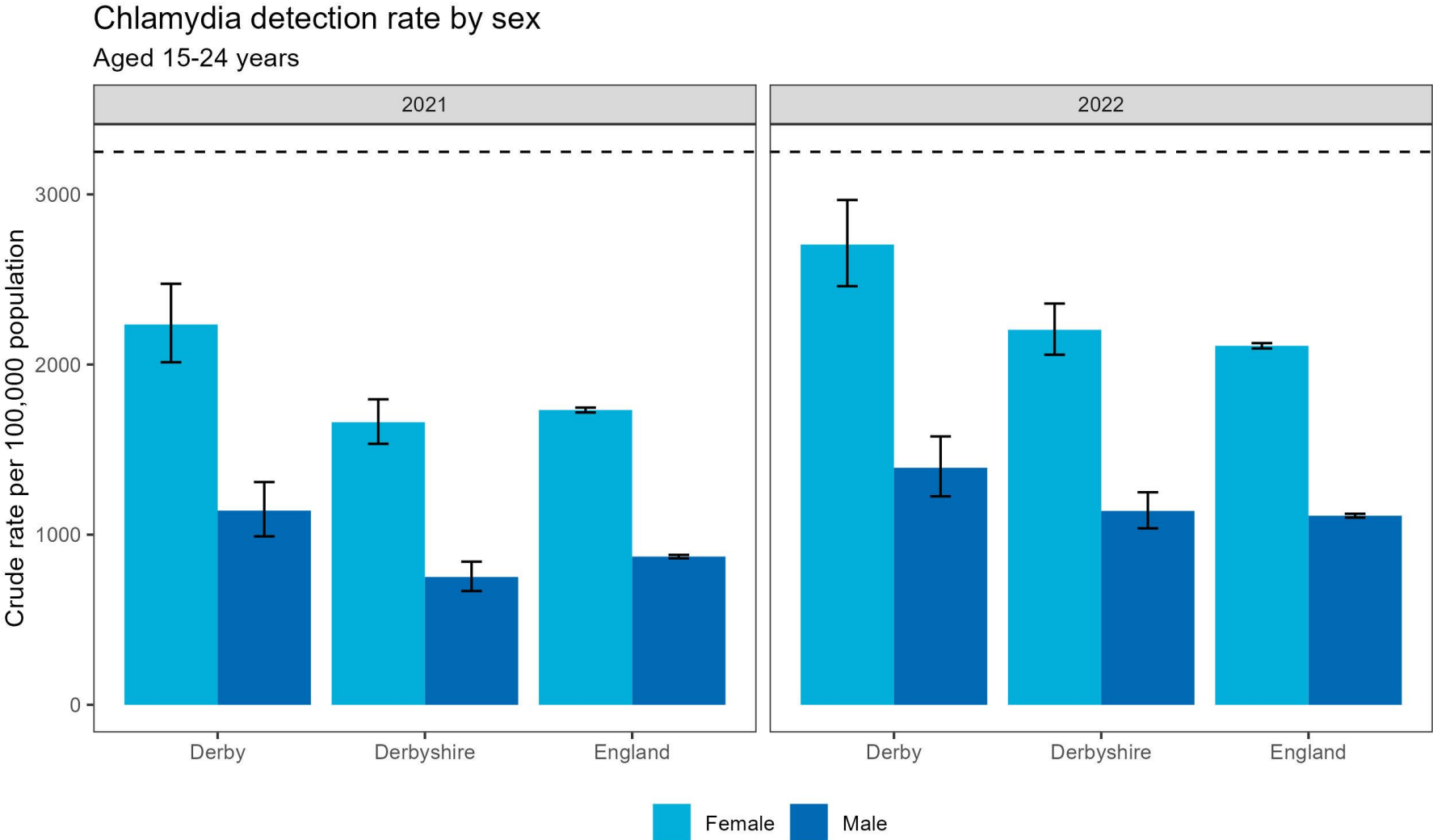


Goal:  $\geq 3,250$

# Chlamydia detection rate in females: 2022



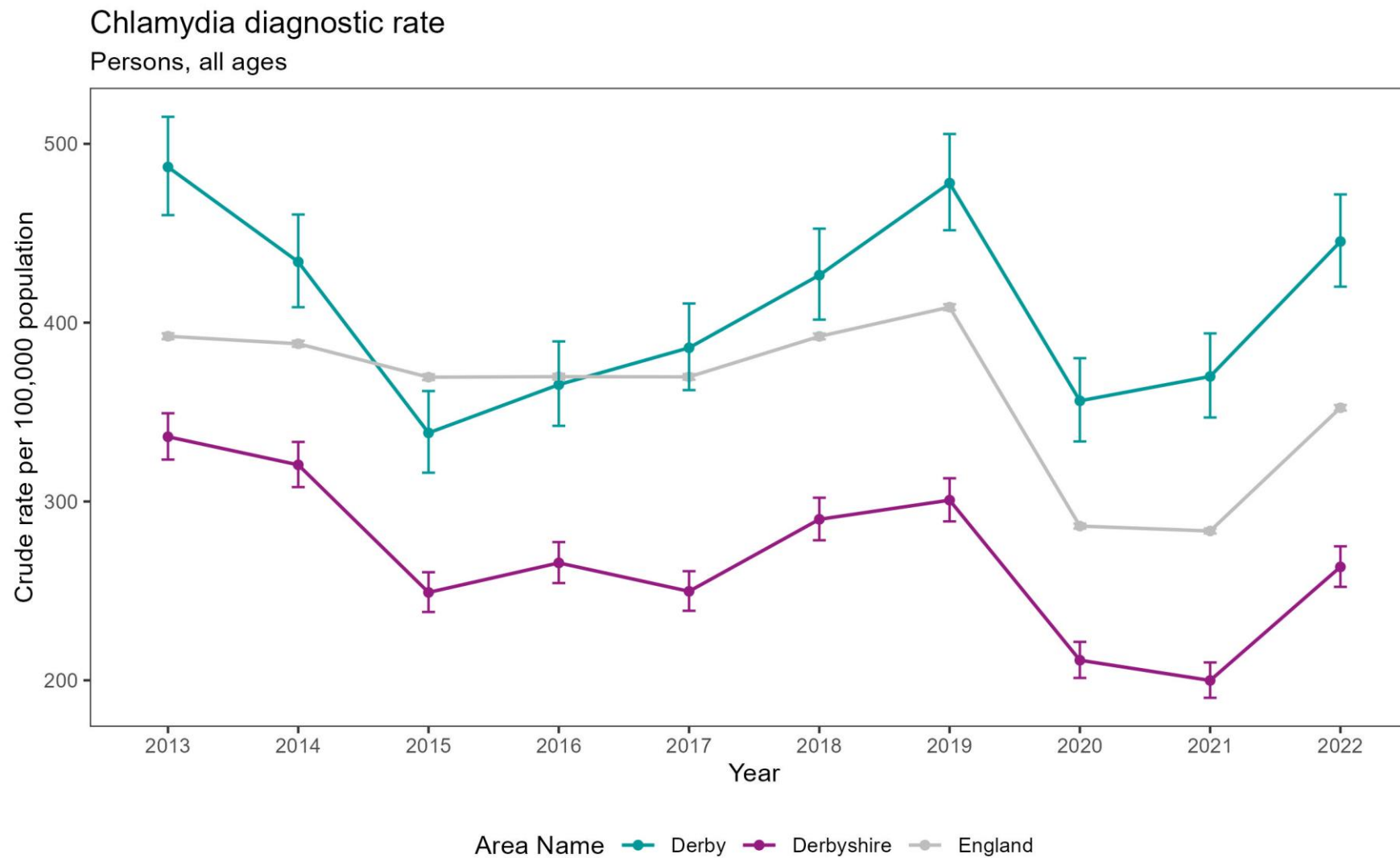
# Chlamydia detection rate by sex



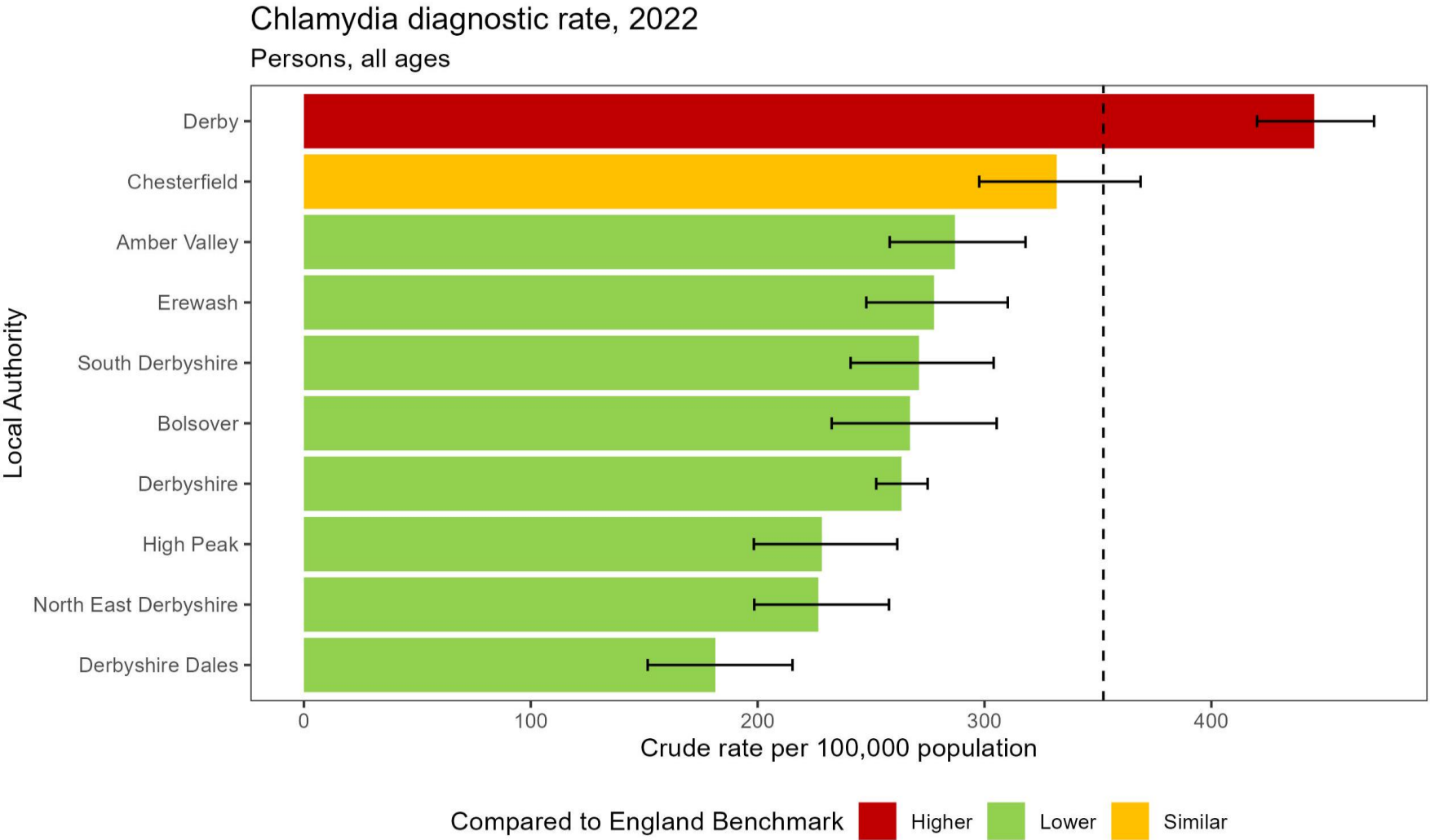
Goal:  $\geq 3,250$



# Chlamydia diagnostic rate

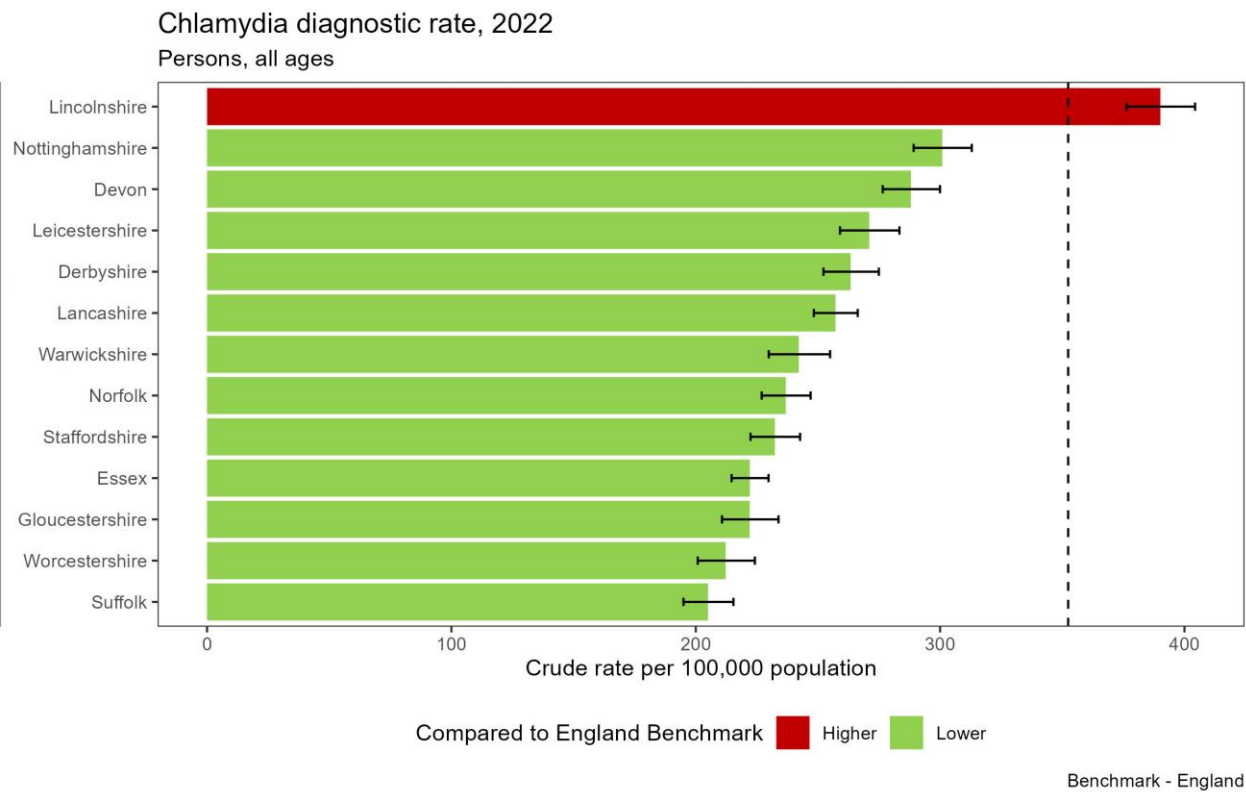
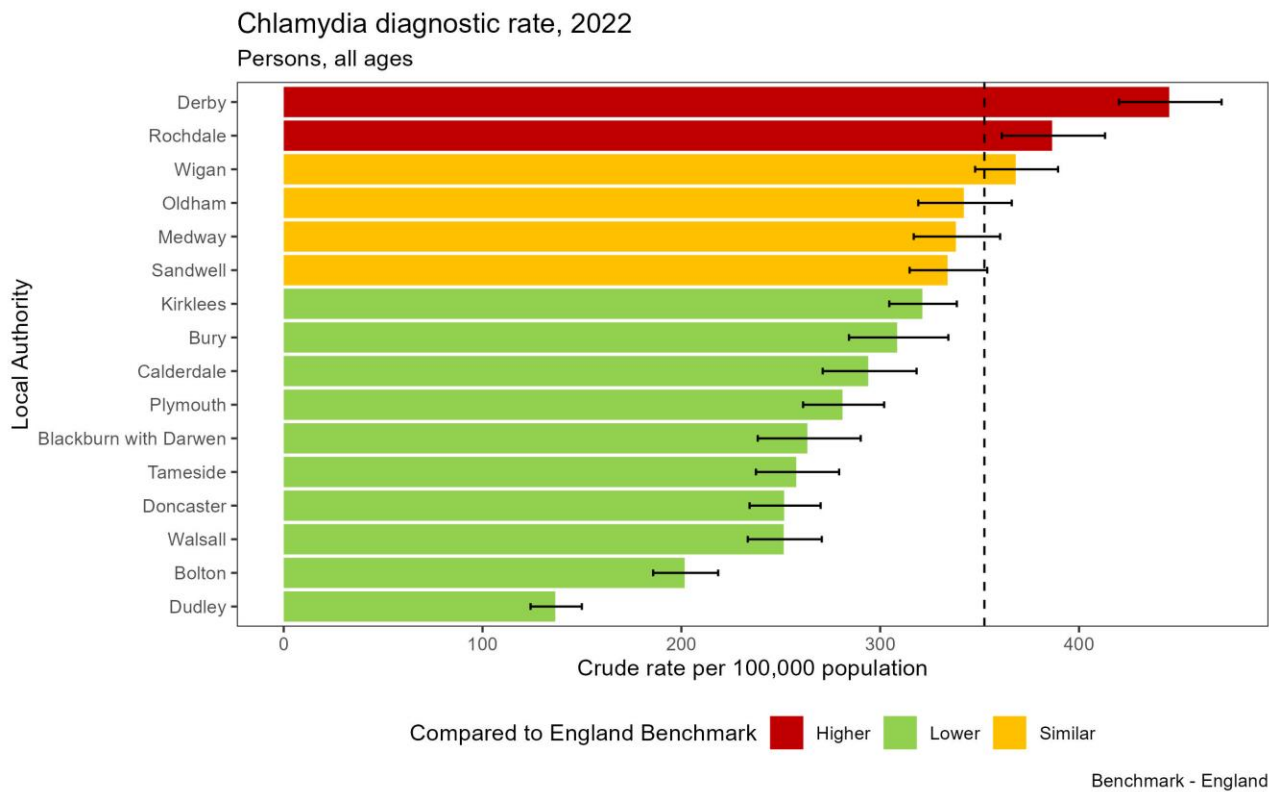


# Chlamydia diagnostic rate

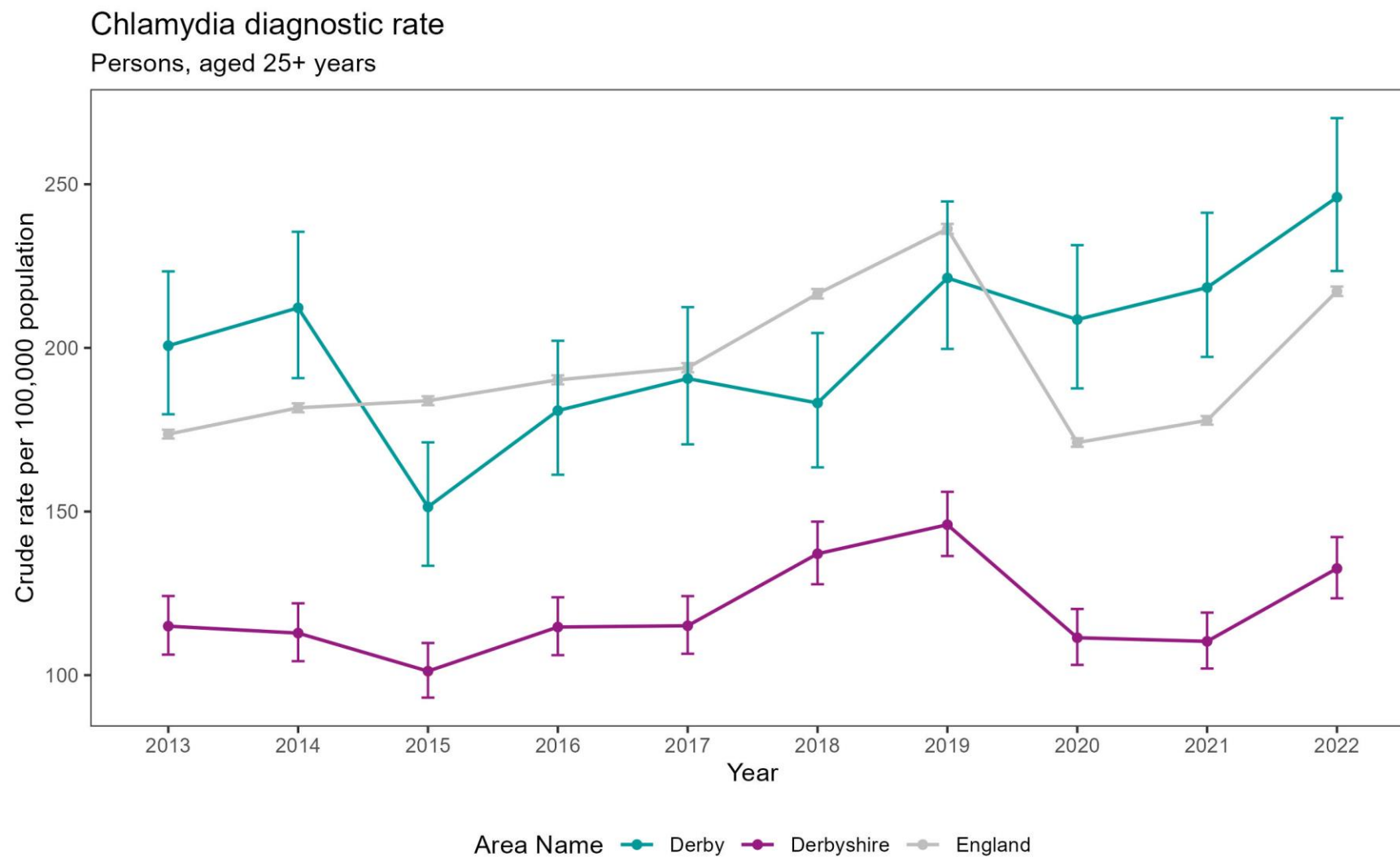


Benchmark - England

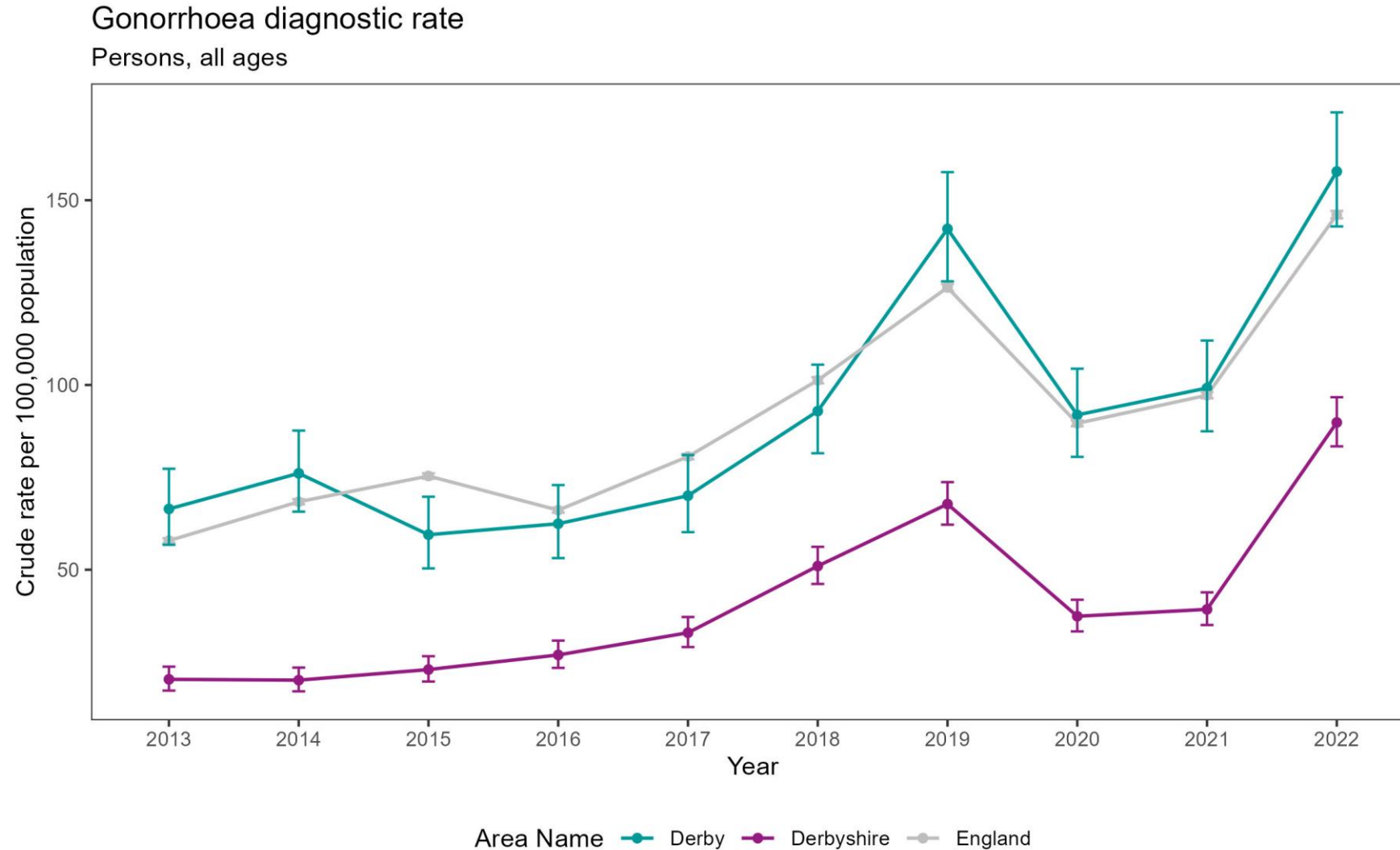
# Chlamydia diagnostic rate



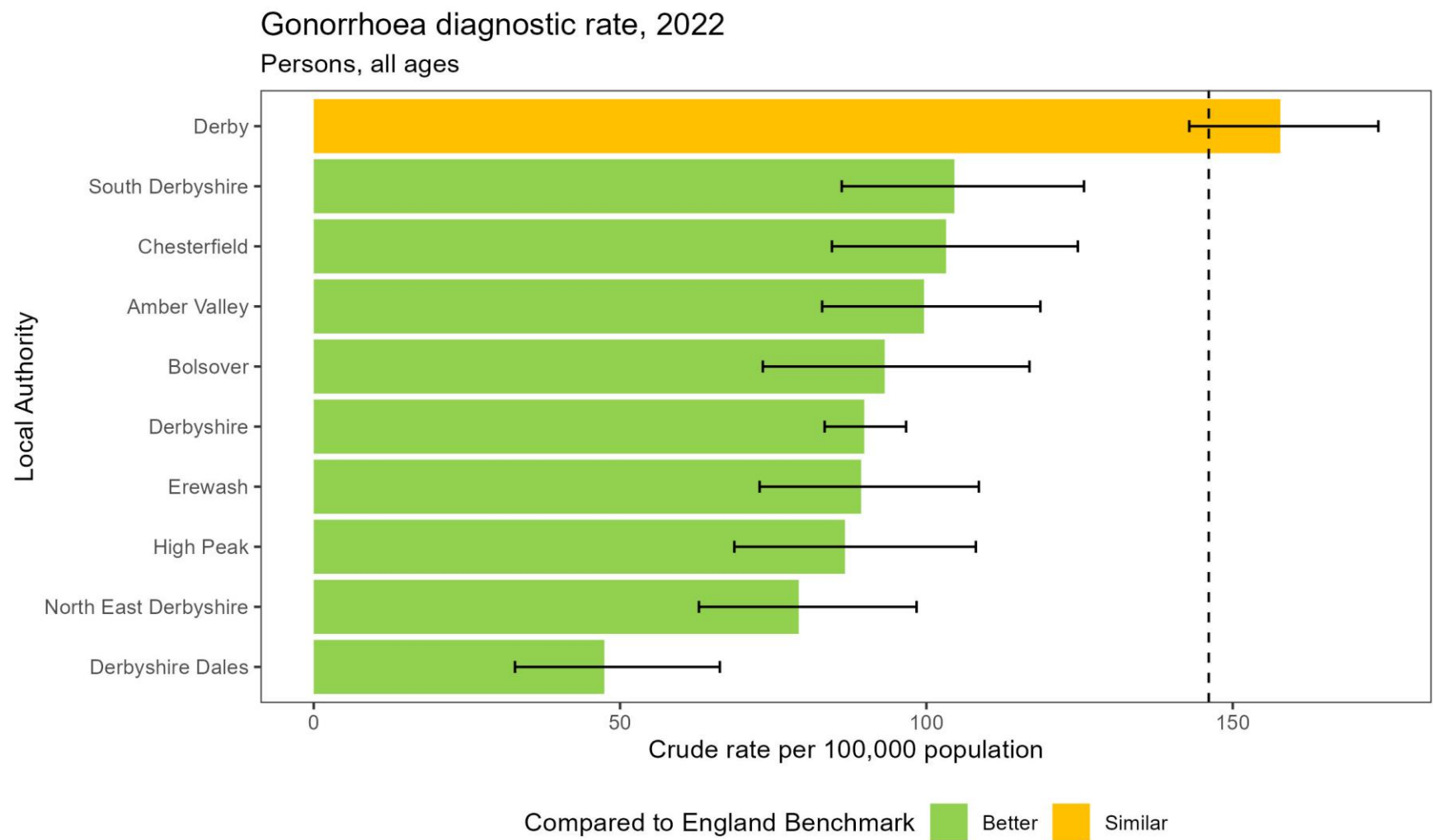
# Chlamydia diagnostic rate (25+ years)



# Gonorrhoea diagnostic rate

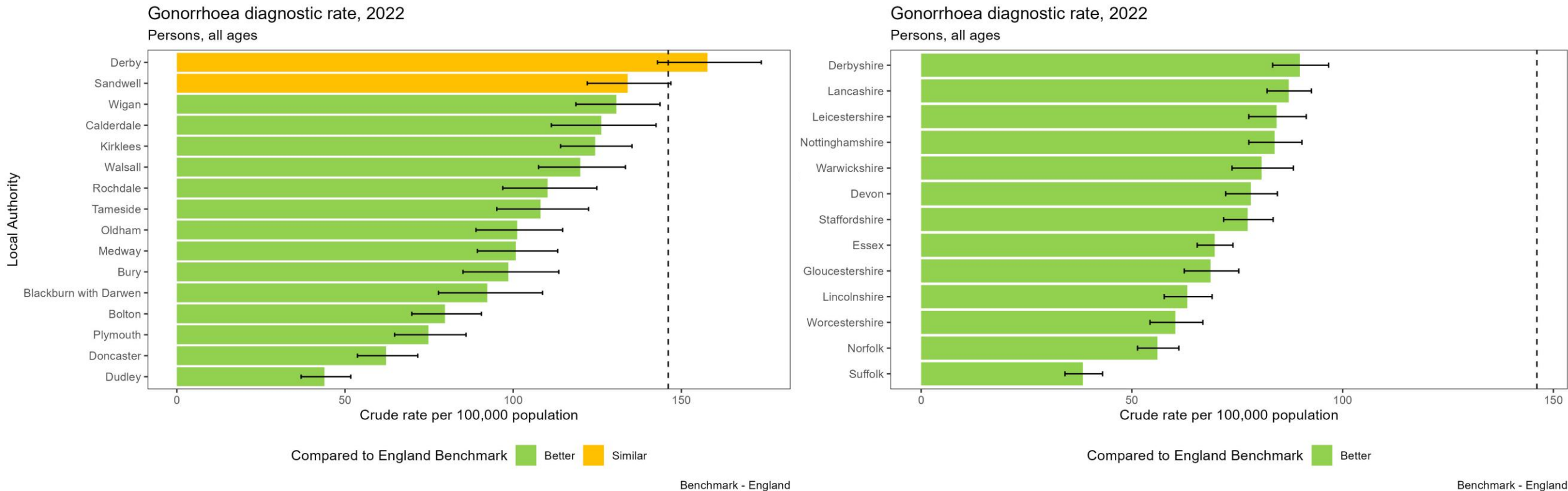


# Gonorrhoea diagnostic rate

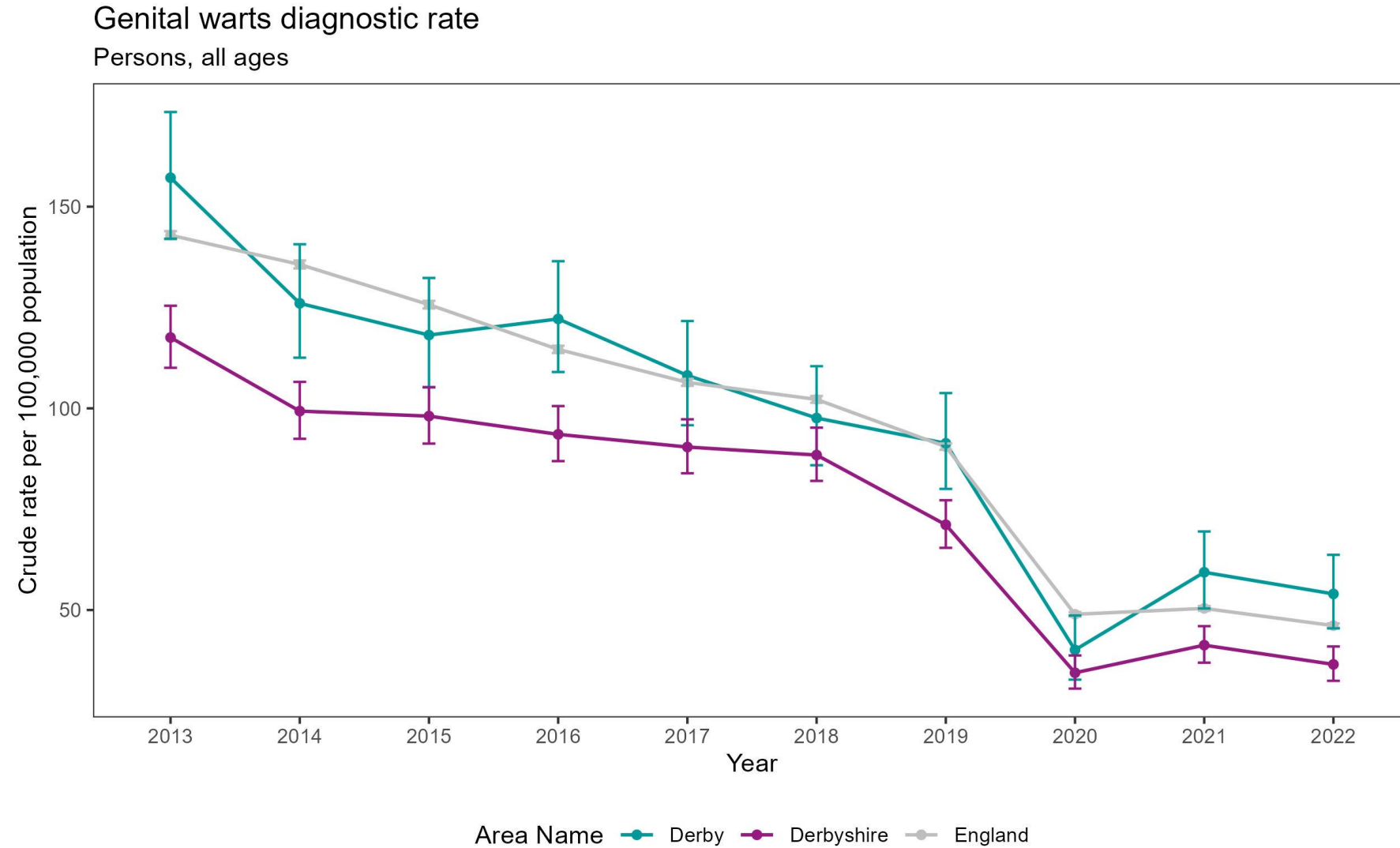


Benchmark - England

# Gonorrhoea diagnostic rate

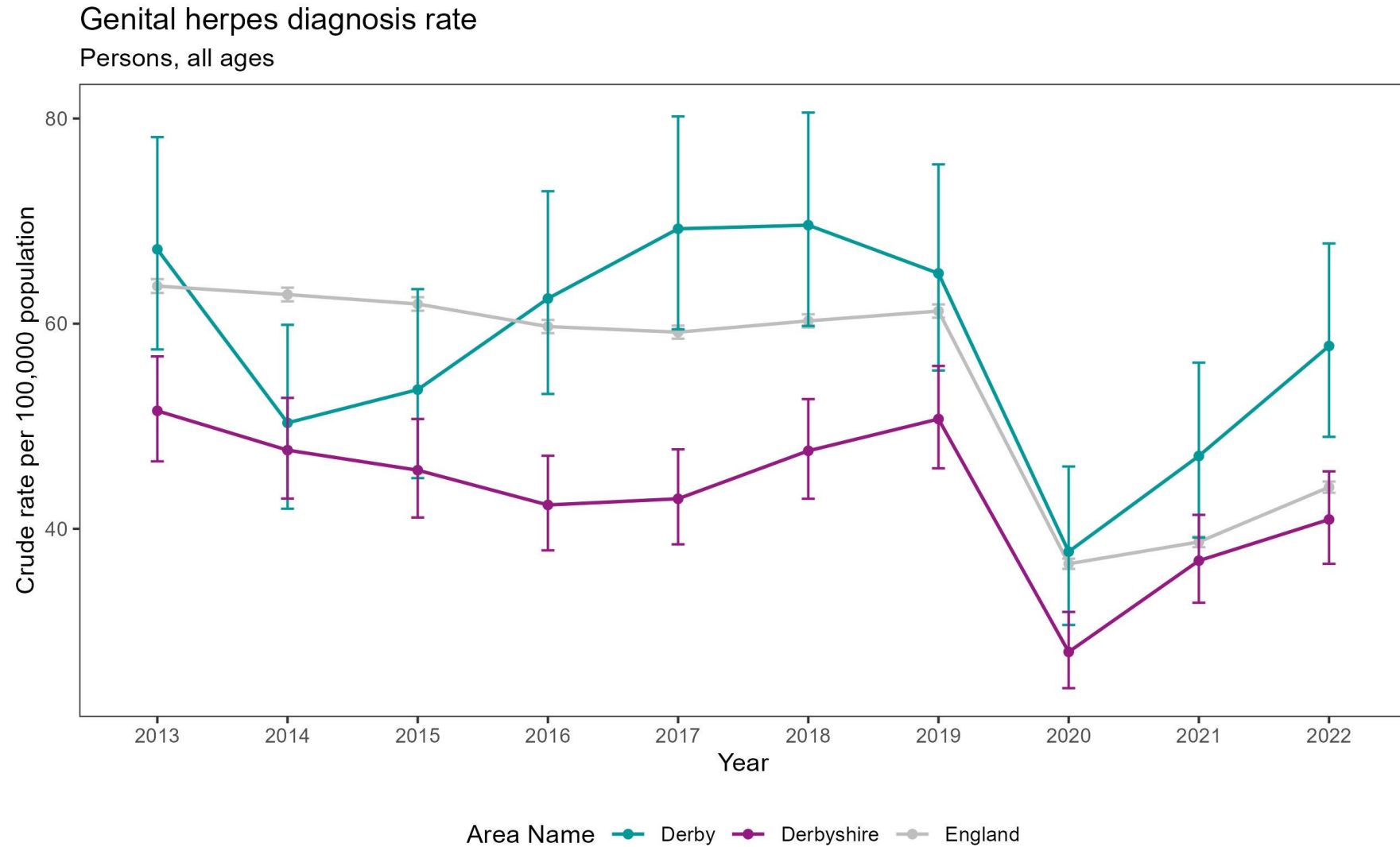


# Genital warts diagnostic rate

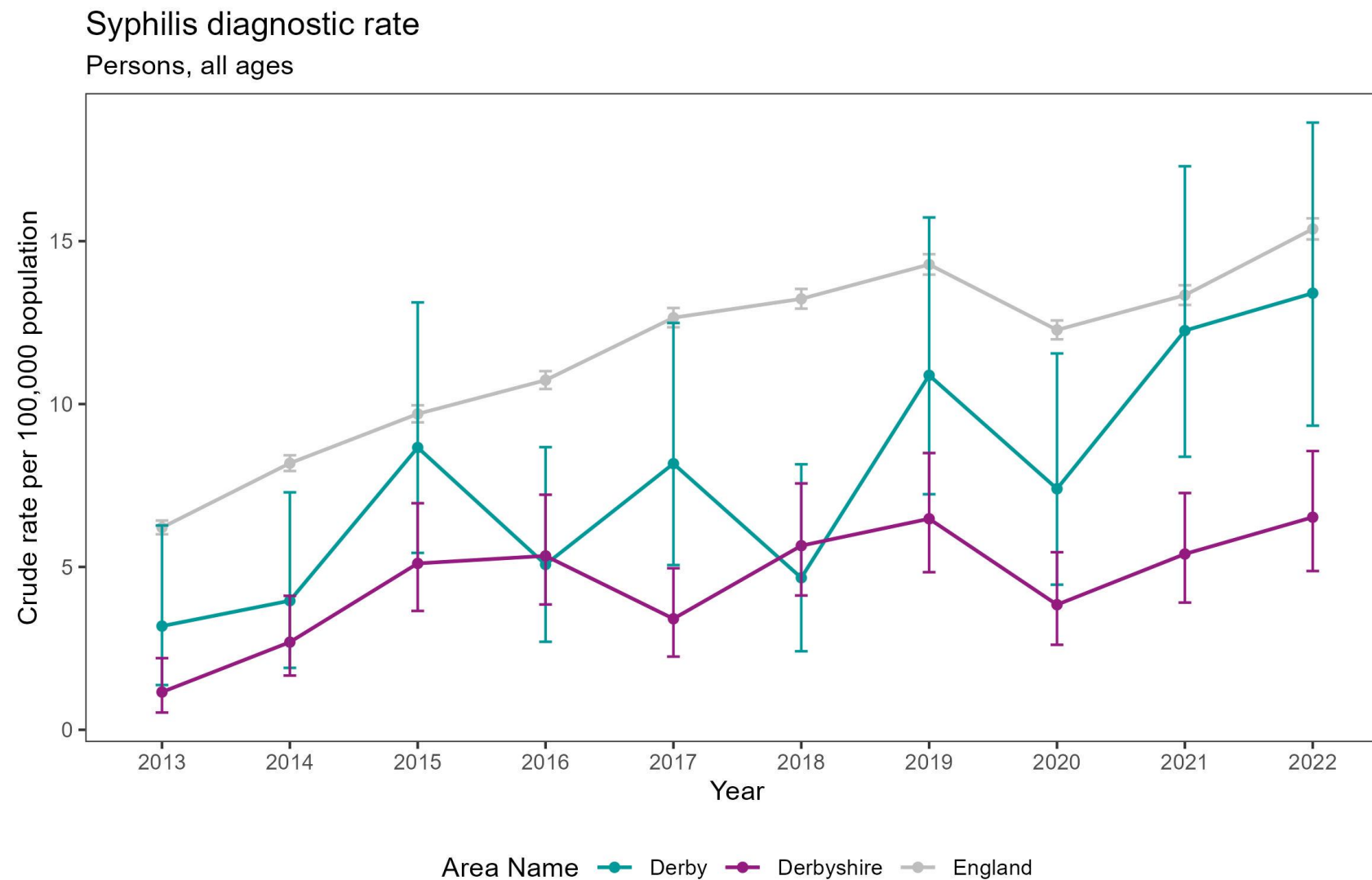




# Genital herpes diagnosis rate



# Syphilis diagnostic rate



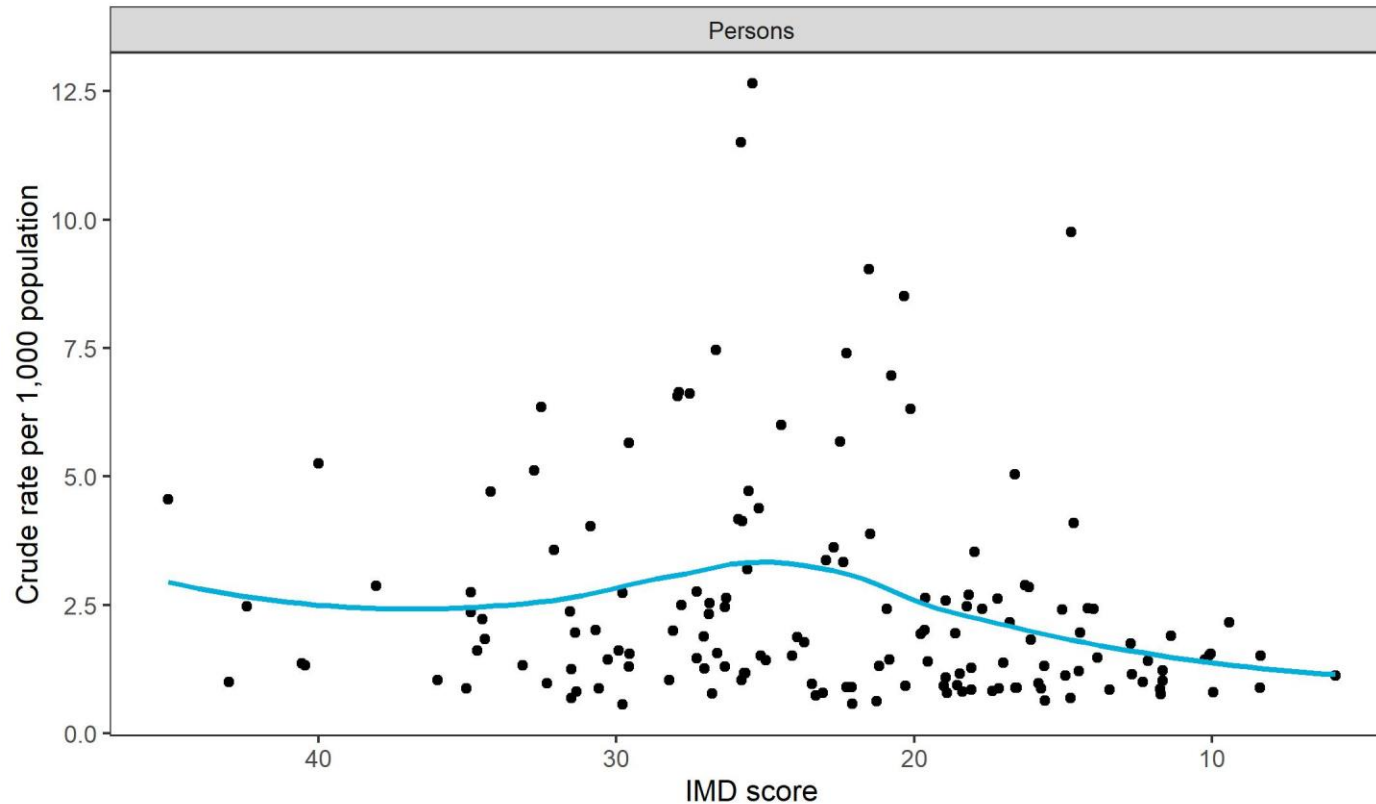
## 2. Human Immunodeficiency Virus (HIV)

- Estimated prevalence of HIV in England
- HIV testing coverage, total (%)
- HIV testing coverage, men (%)
- HIV testing coverage, women (%)
- HIV testing coverage, gay, bisexual and other MSM (%)
- HIV diagnosed prevalence rate / 1,000 aged 15 to 59
- HIV late diagnosis (all CD4 less than 350) (%)
- HIV late diagnosis (all CD4 less than 350) (%) in gay, bisexual and other MSM
- HIV late diagnosis (all CD4 less than 350) (%) in heterosexual men
- HIV late diagnosis (all CD4 less than 350) (%) in heterosexual women
- HIV late diagnosis (all CD4 less than 350) (%) in people who inject drugs
- Prompt antiretroviral therapy (ART) initiation in people newly diagnosed with HIV (%)
- Antiretroviral therapy (ART) coverage in adults accessing HIV care (%)

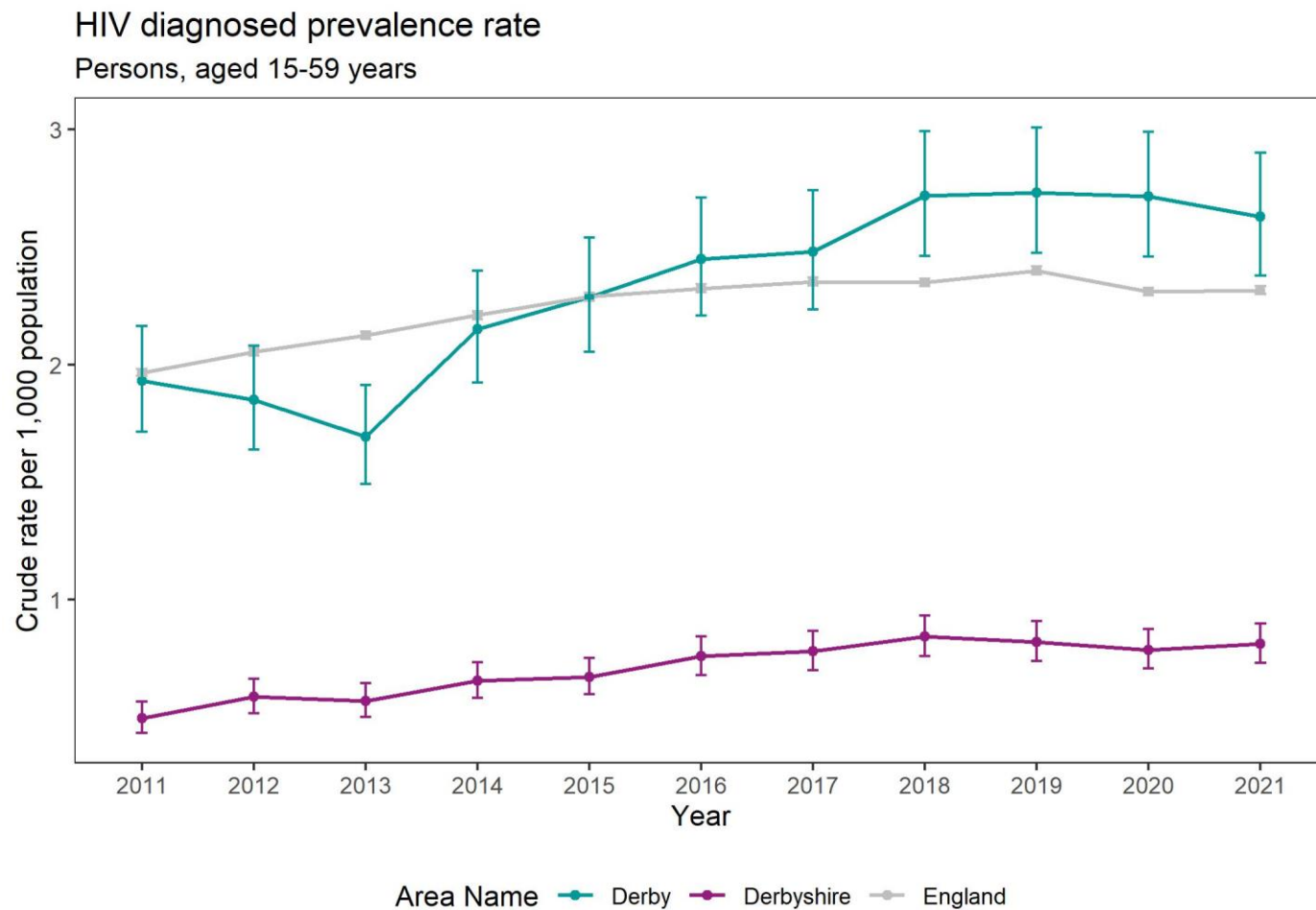
# Prevalence of HIV by IMD – National Data

HIV diagnosed prevalence rate by Index of Multiple Deprivation 2019 score in Upper Tier Local Authorities in England, 2021

Persons, aged 15 to 59 years

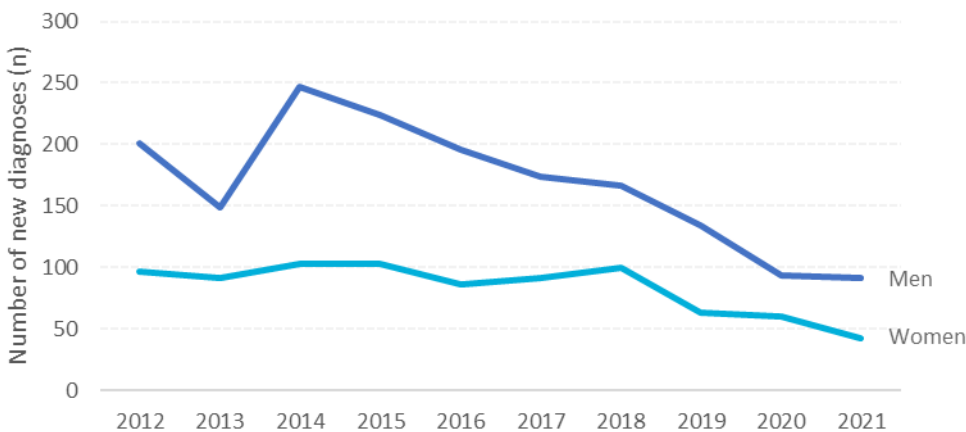


# HIV diagnosed prevalence rate

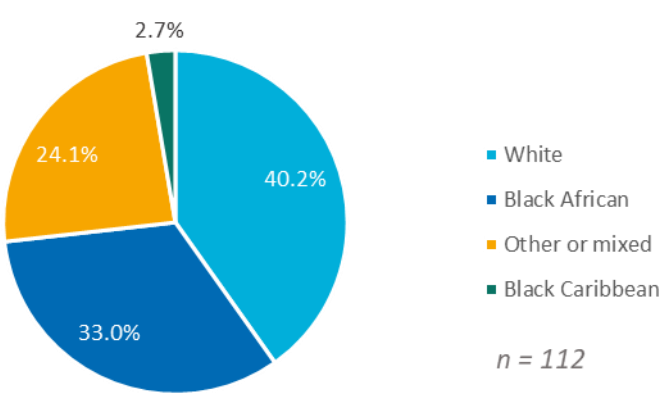


# New HIV diagnoses in the East Midlands

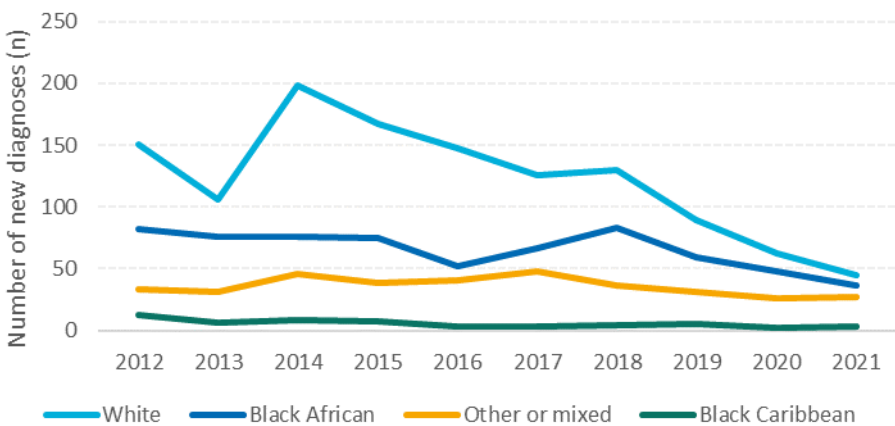
Number of new HIV diagnoses in the East Midlands between 2012-2021 by sex



Proportion of new HIV diagnoses in the East Midlands during 2021 by ethnicity



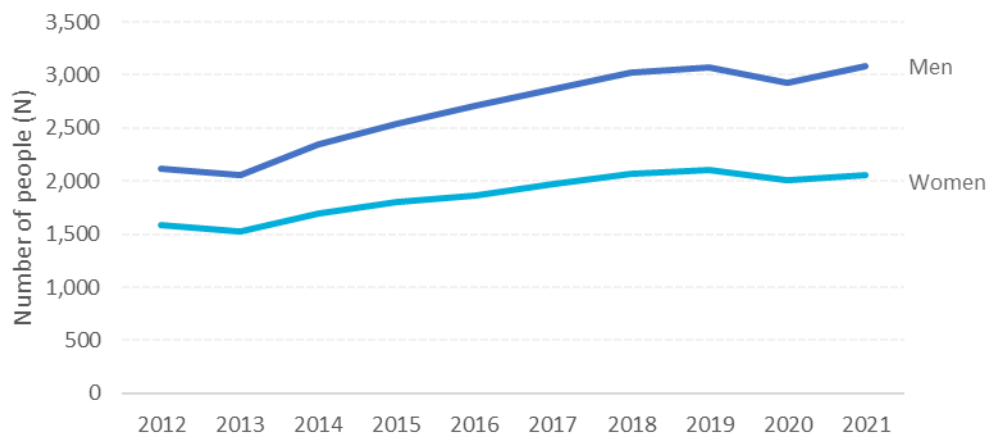
Number of new HIV diagnoses in the East Midlands between 2012-2021 by ethnicity



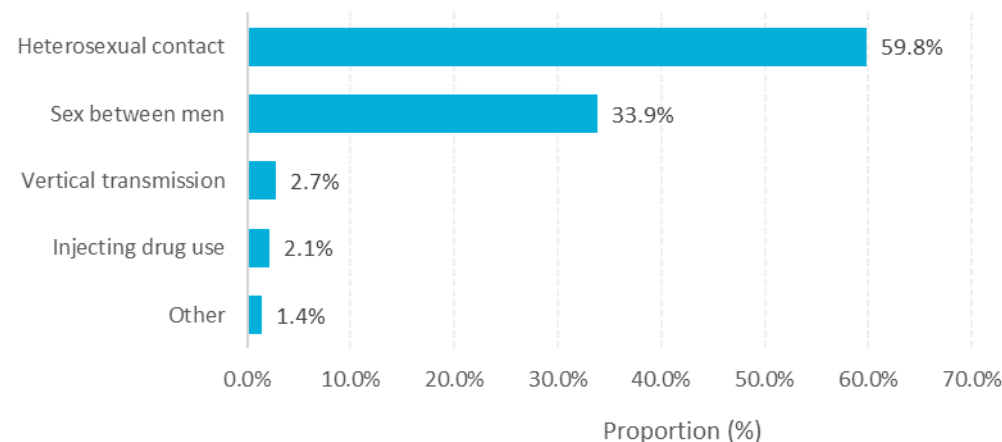
Data sourced from UKHSA HIV annual data tables (2022)

# People seen for HIV care in the UK living in the East Midlands

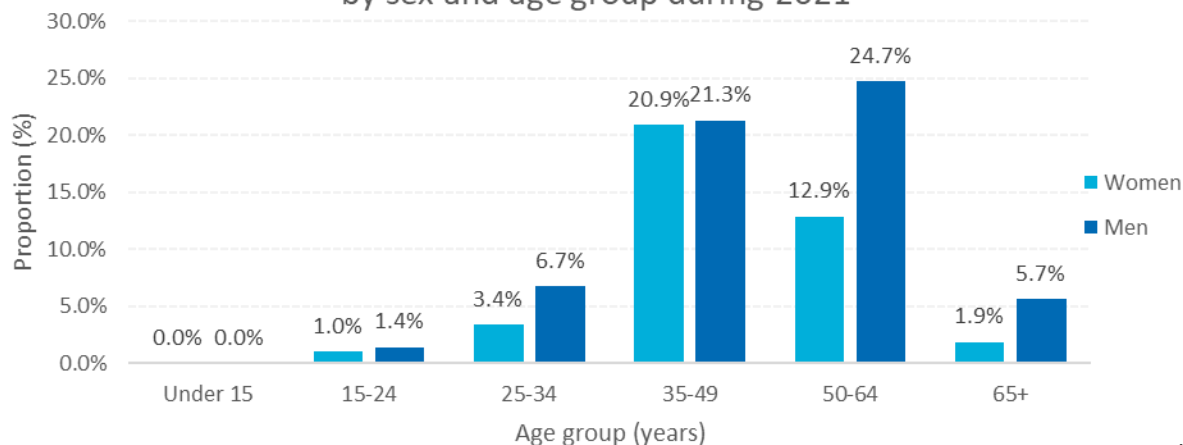
Number of people seen for HIV care in the East Midlands between 2012-2021 by sex



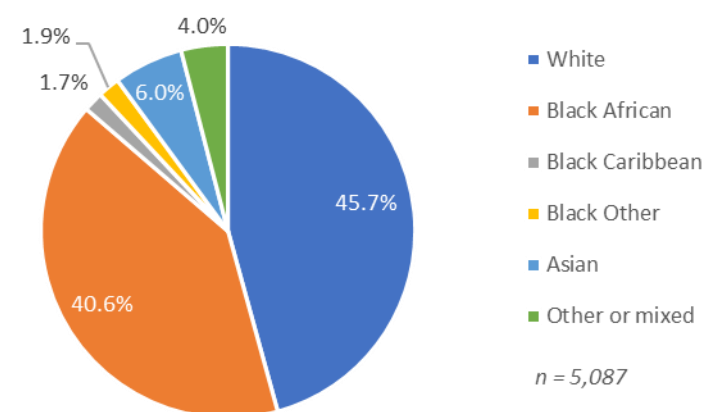
Proportion of people seen for HIV care in the East Midlands by probably exposure category during 2021



Proportion of people seen for HIV care in the East Midlands by sex and age group during 2021

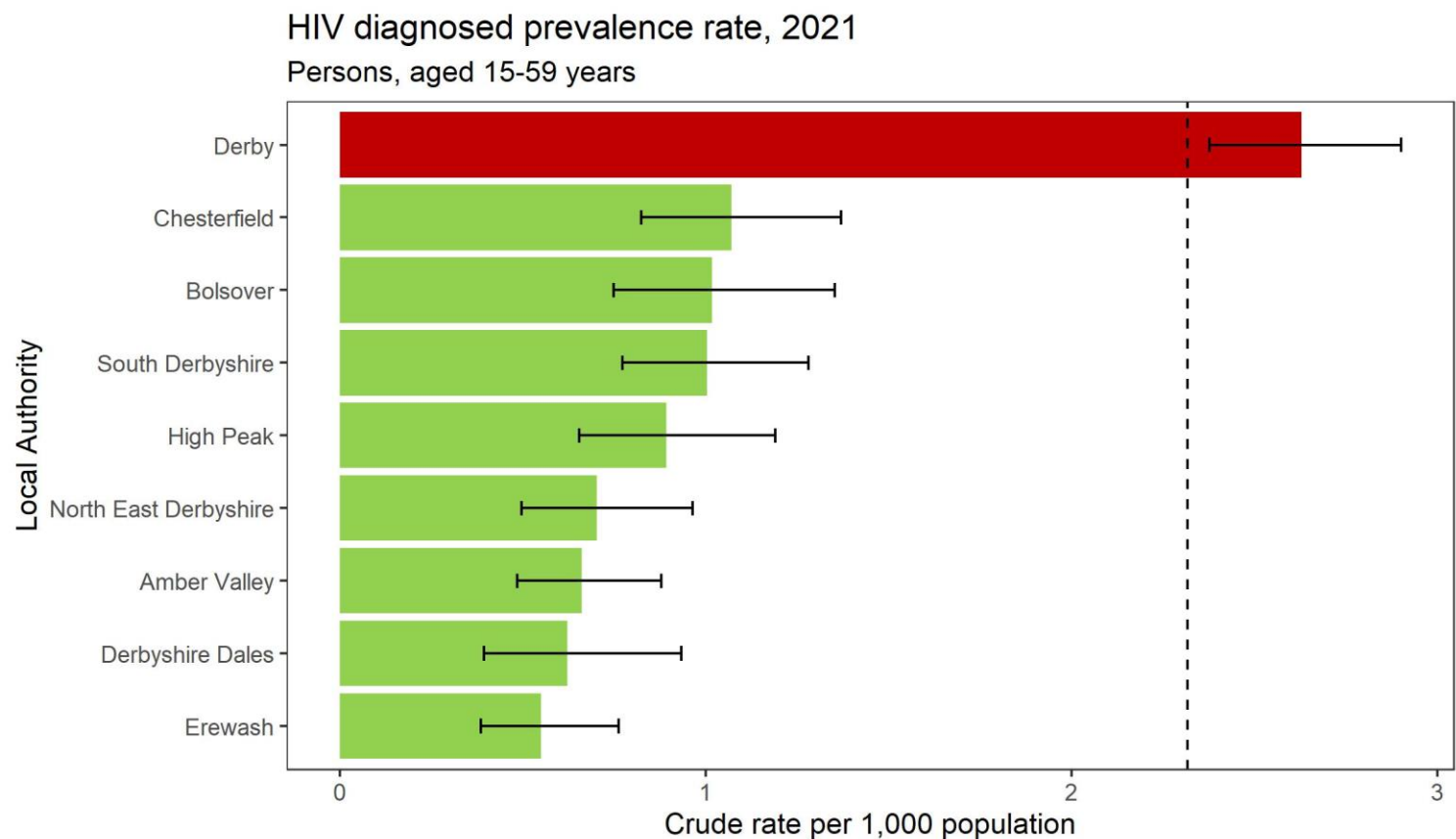


Proportion of people seen for HIV care in the East Midlands during 2021 by ethnic group



Data sourced from UKHSA HIV annual data tables (2022)

# HIV diagnosed prevalence rate



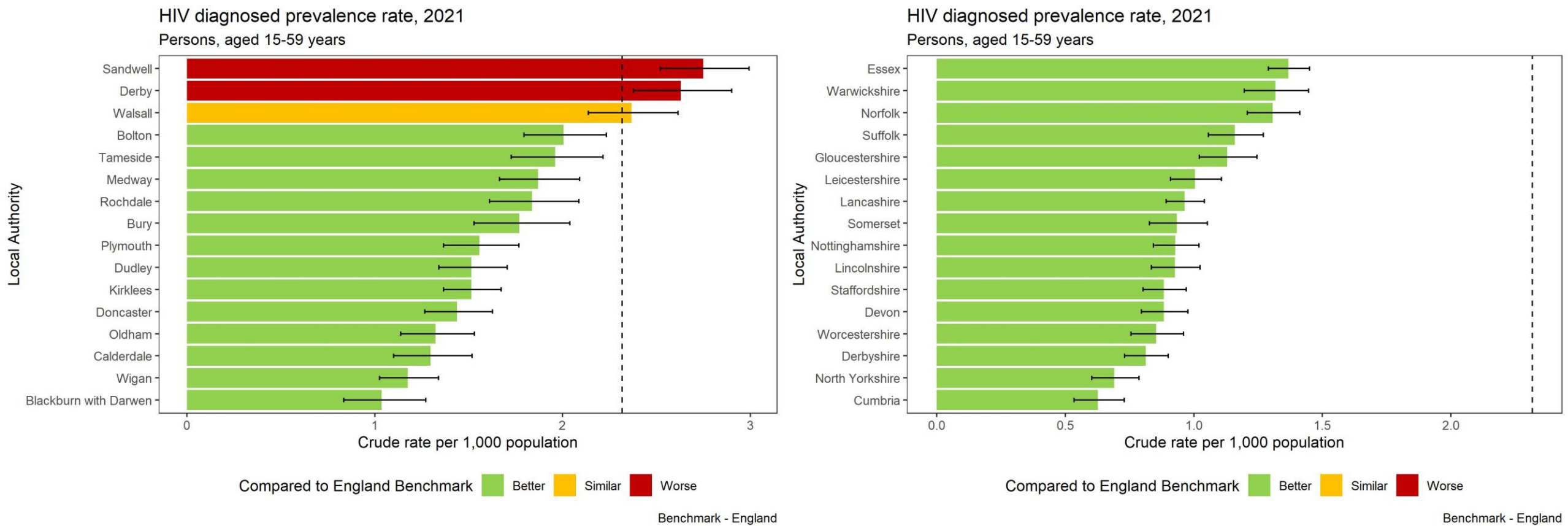
Compared to England Benchmark

Better Similar Worse

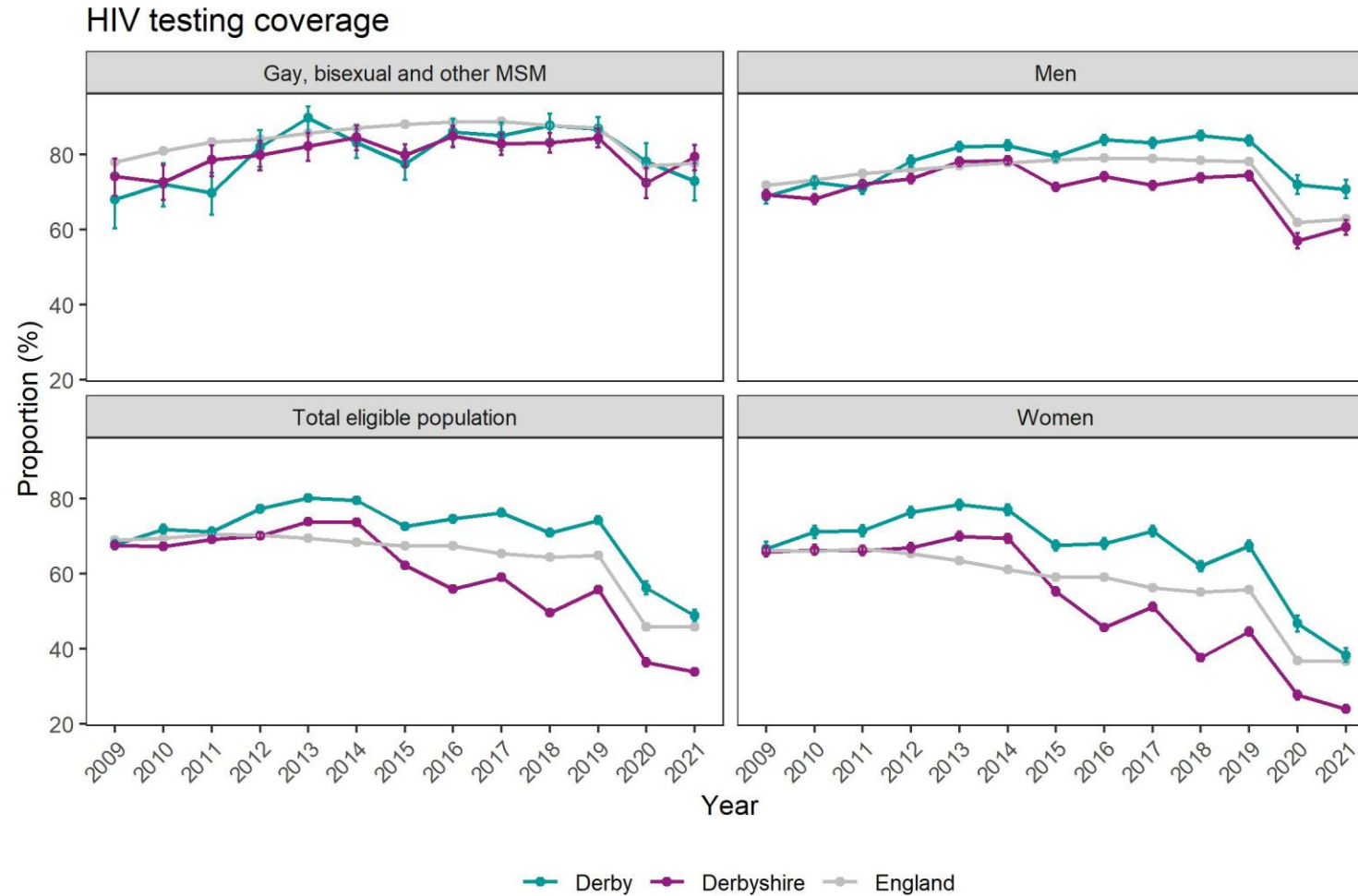
Benchmark - England



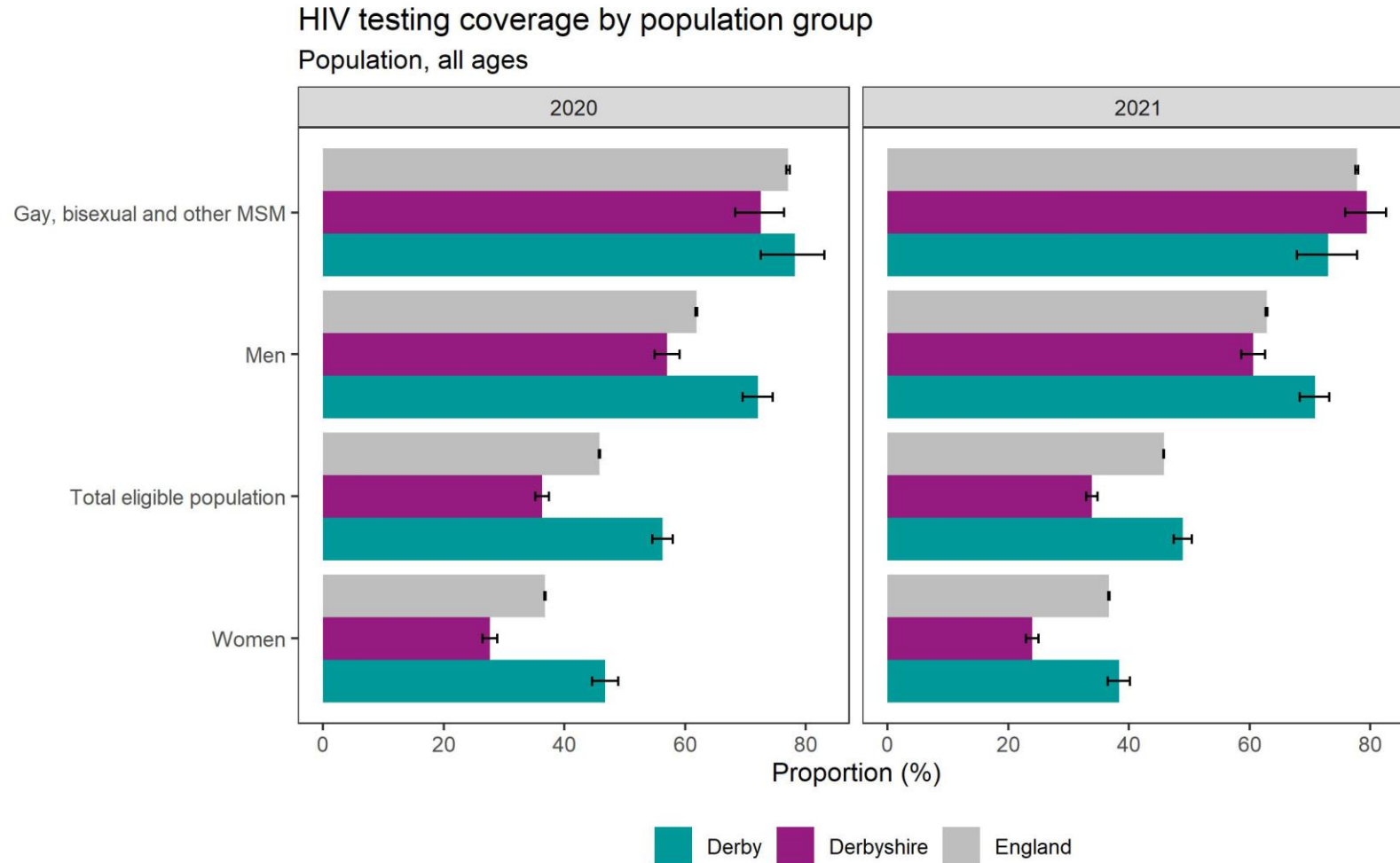
# HIV diagnosed prevalence rate



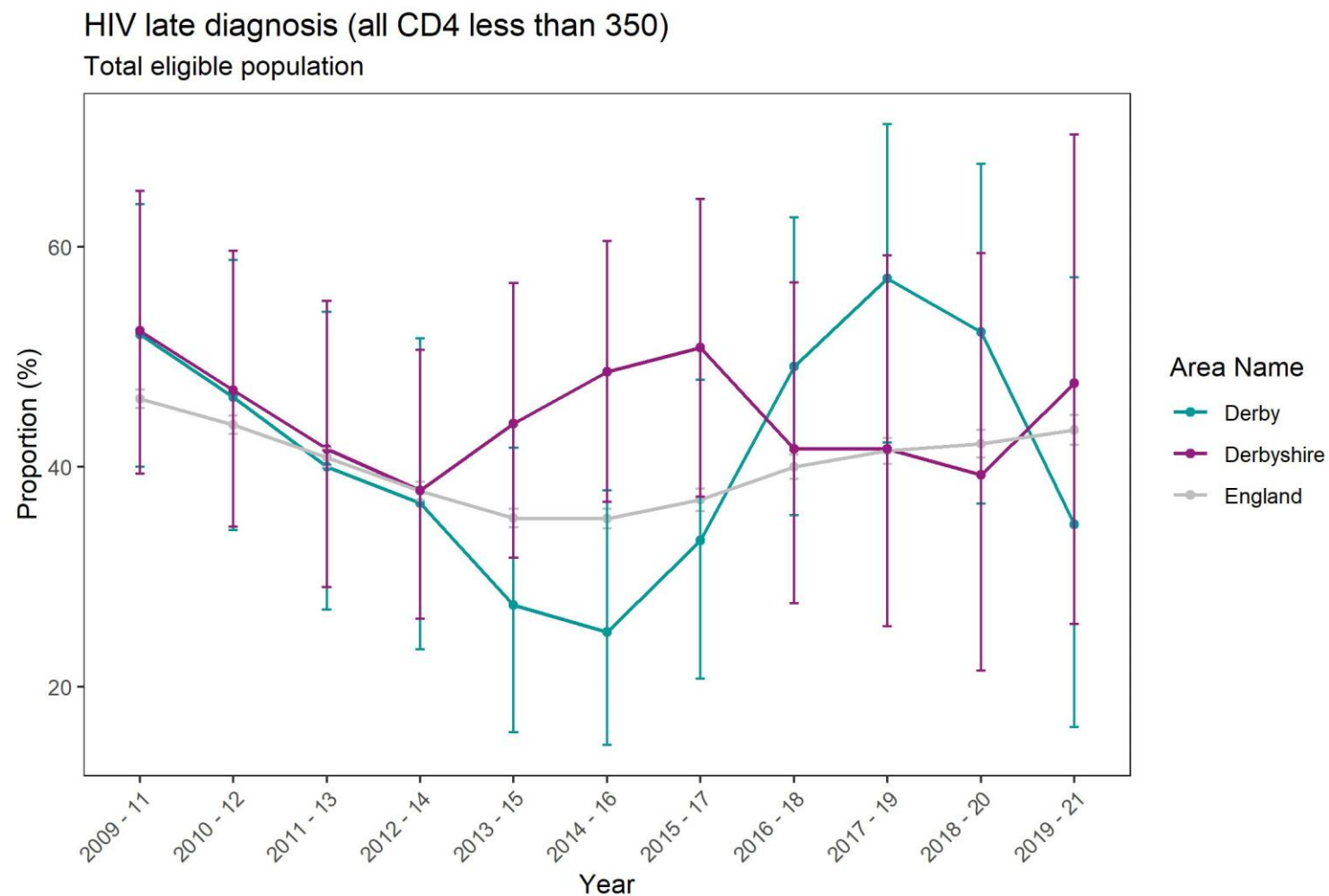
# HIV testing coverage



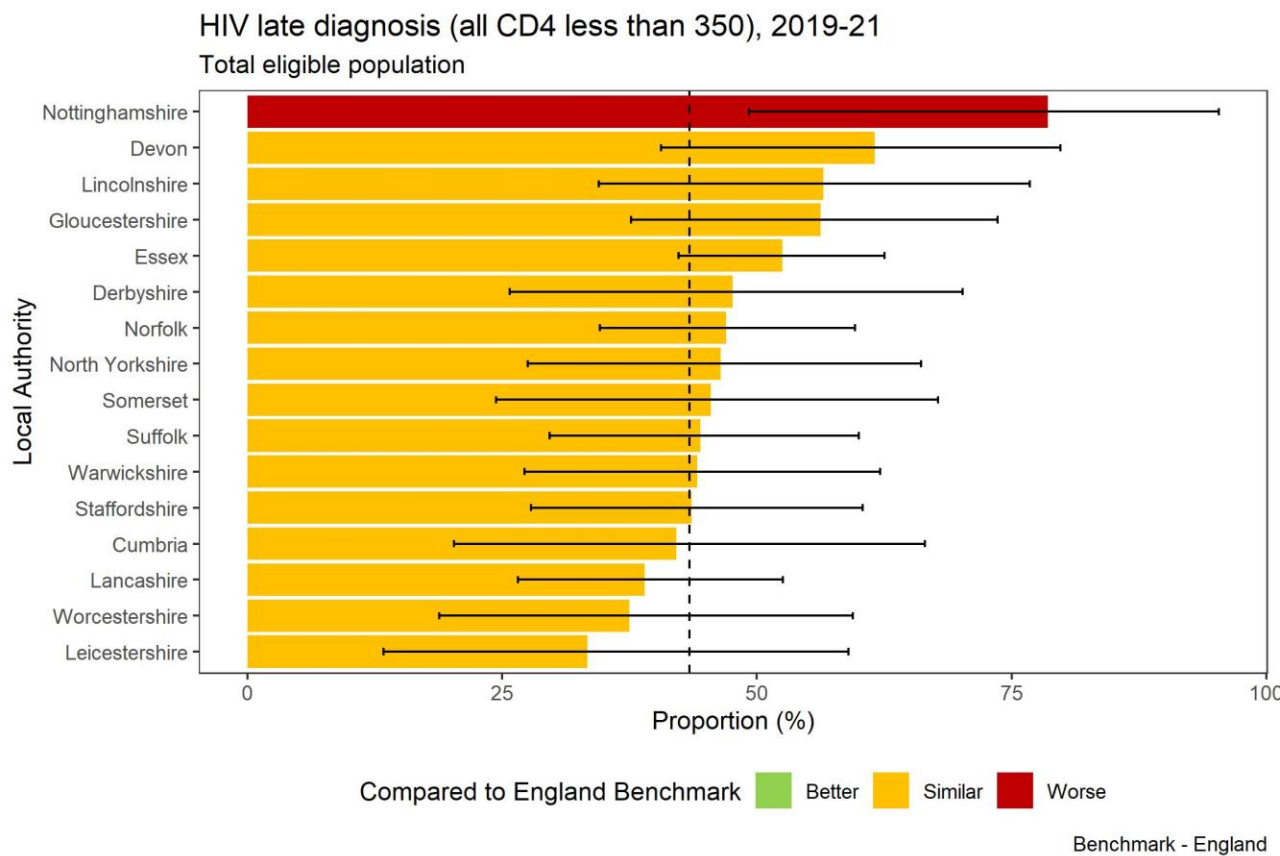
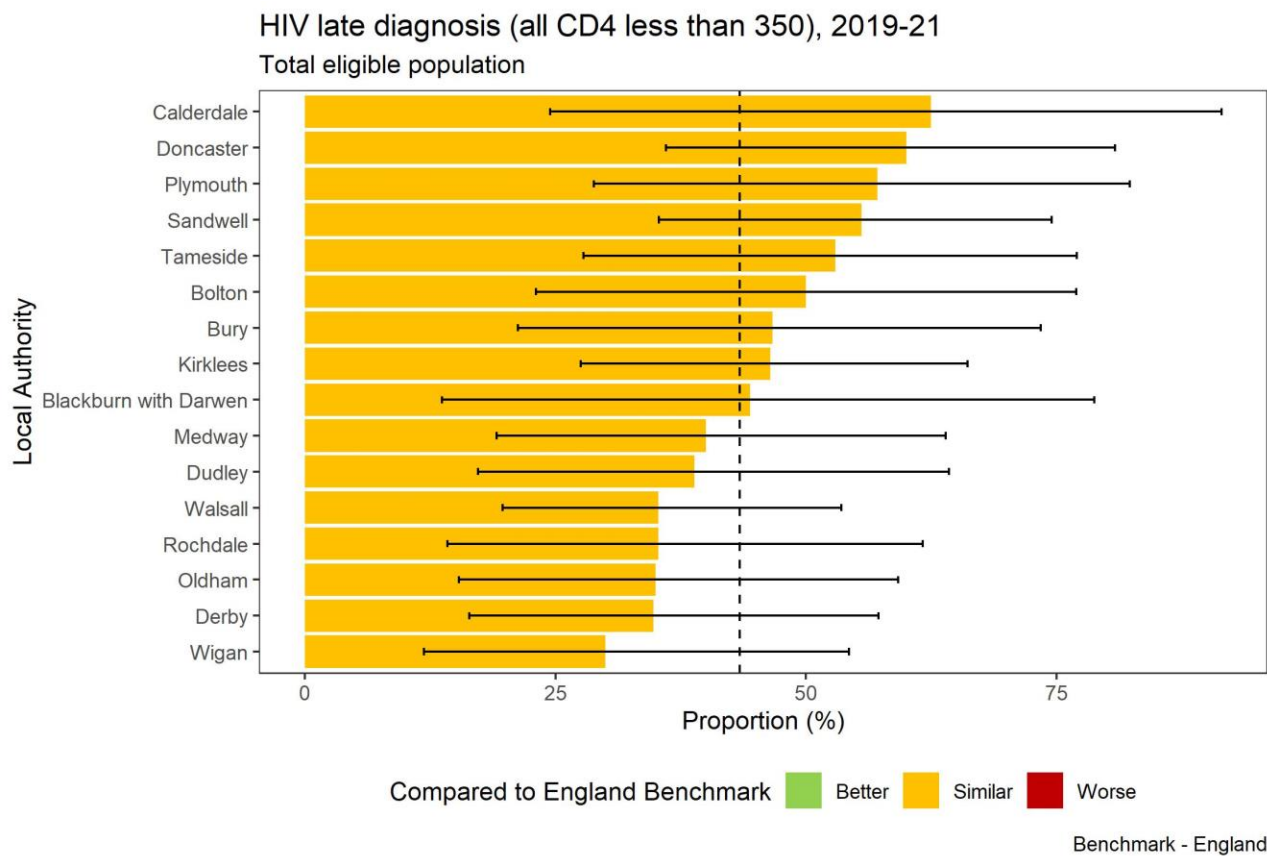
# HIV testing coverage by population group



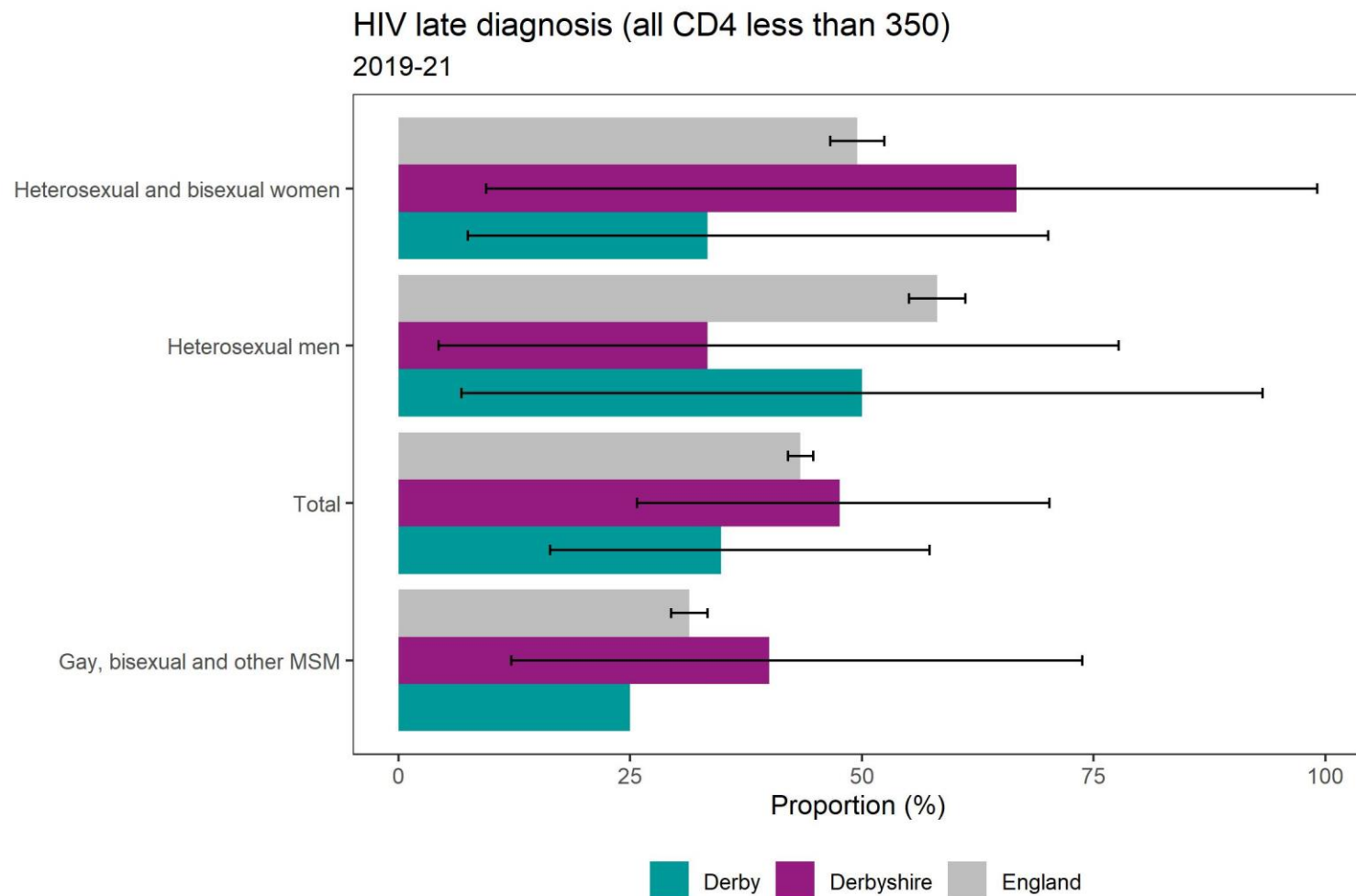
# HIV late diagnosis



# HIV late diagnosis



# HIV late diagnosis

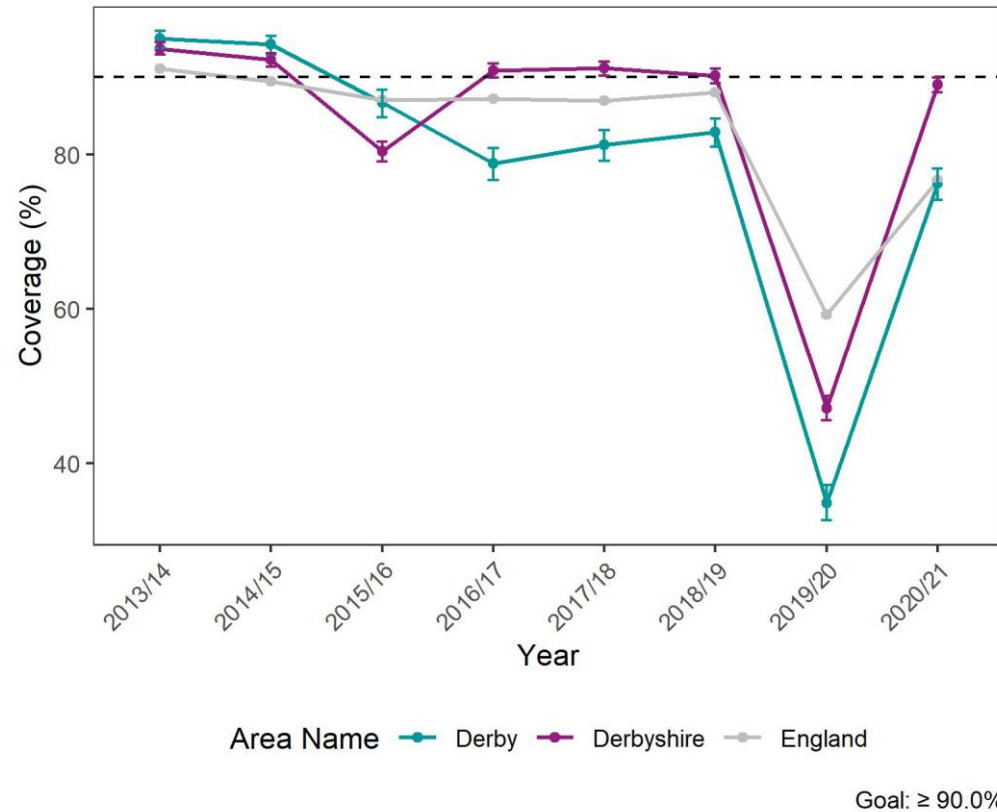


### 3. HPV and Cervical Cancer

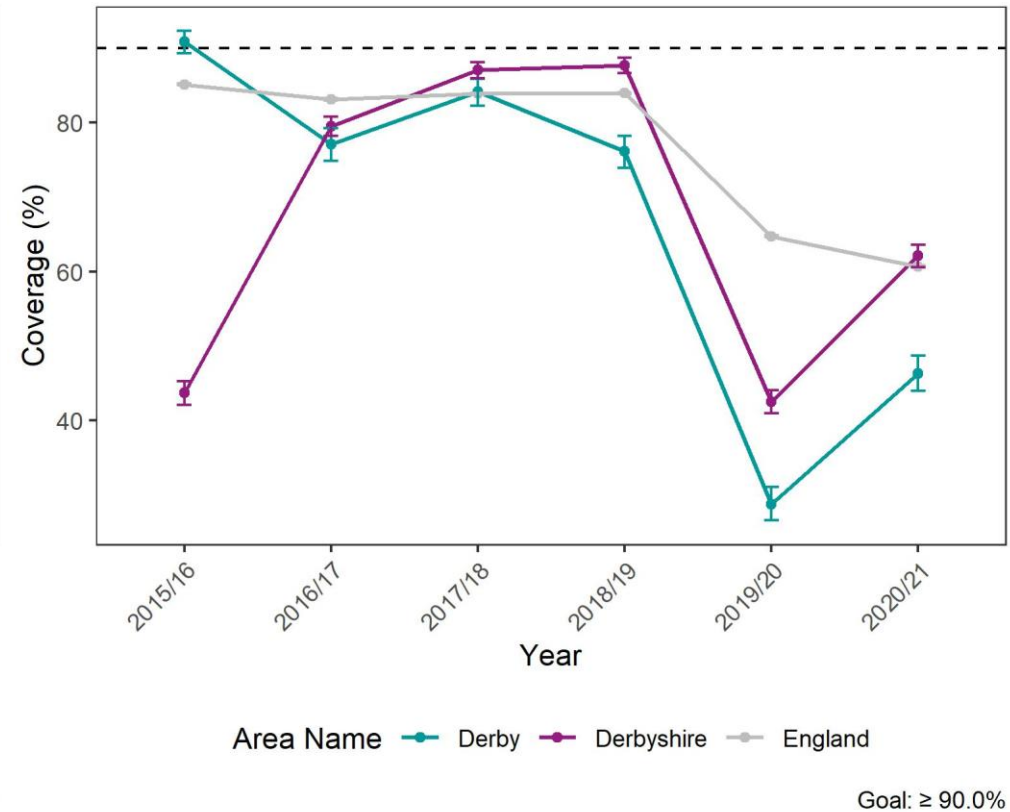
- HPV vaccination coverage
- Cervical cancer screening coverage
- Cervical cancer prevalence

# HPV vaccination coverage – Females

A) HPV vaccination coverage for one dose  
Females, aged 12-13 years

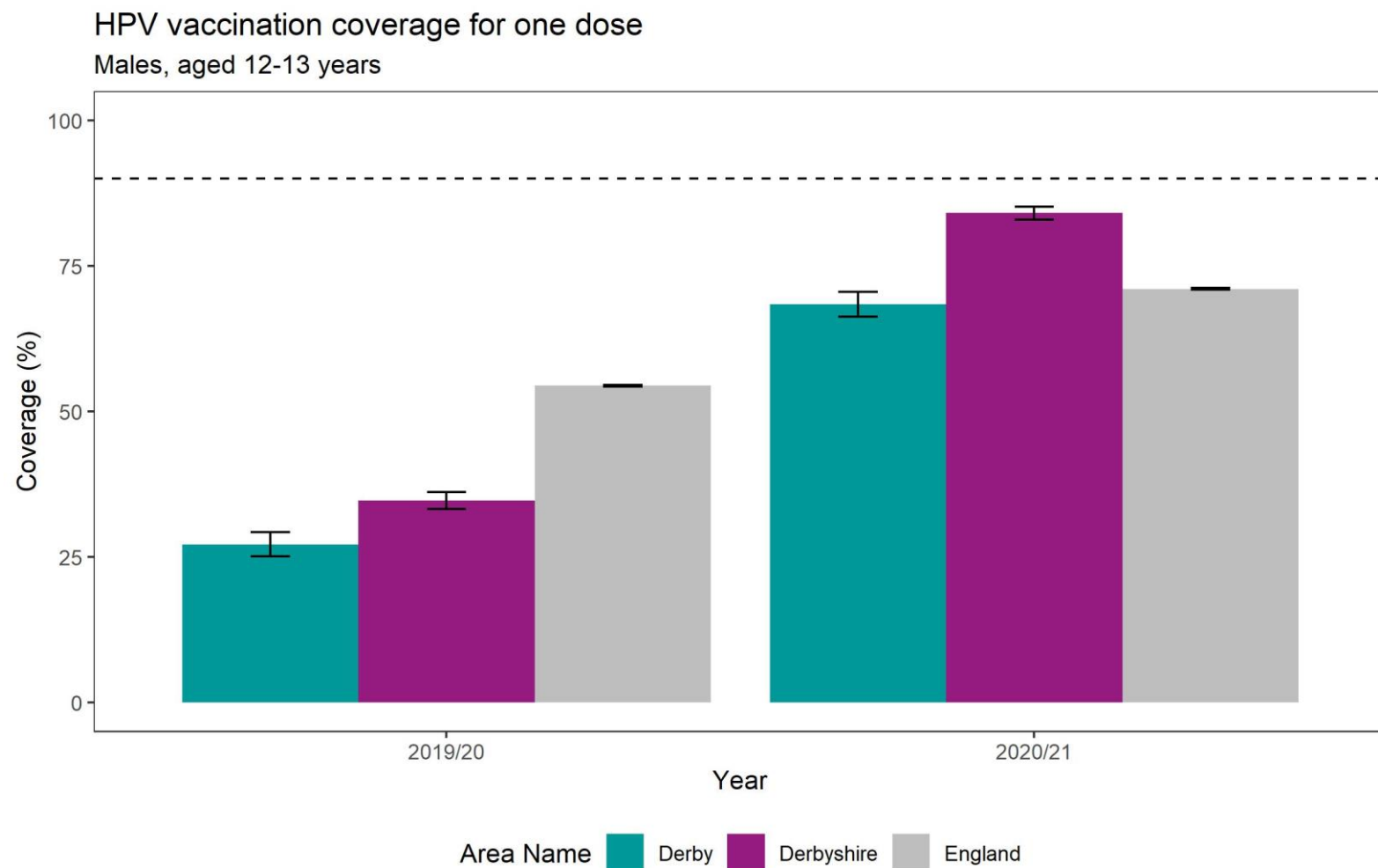


B) HPV vaccination coverage for two doses  
Females, aged 13-14 years





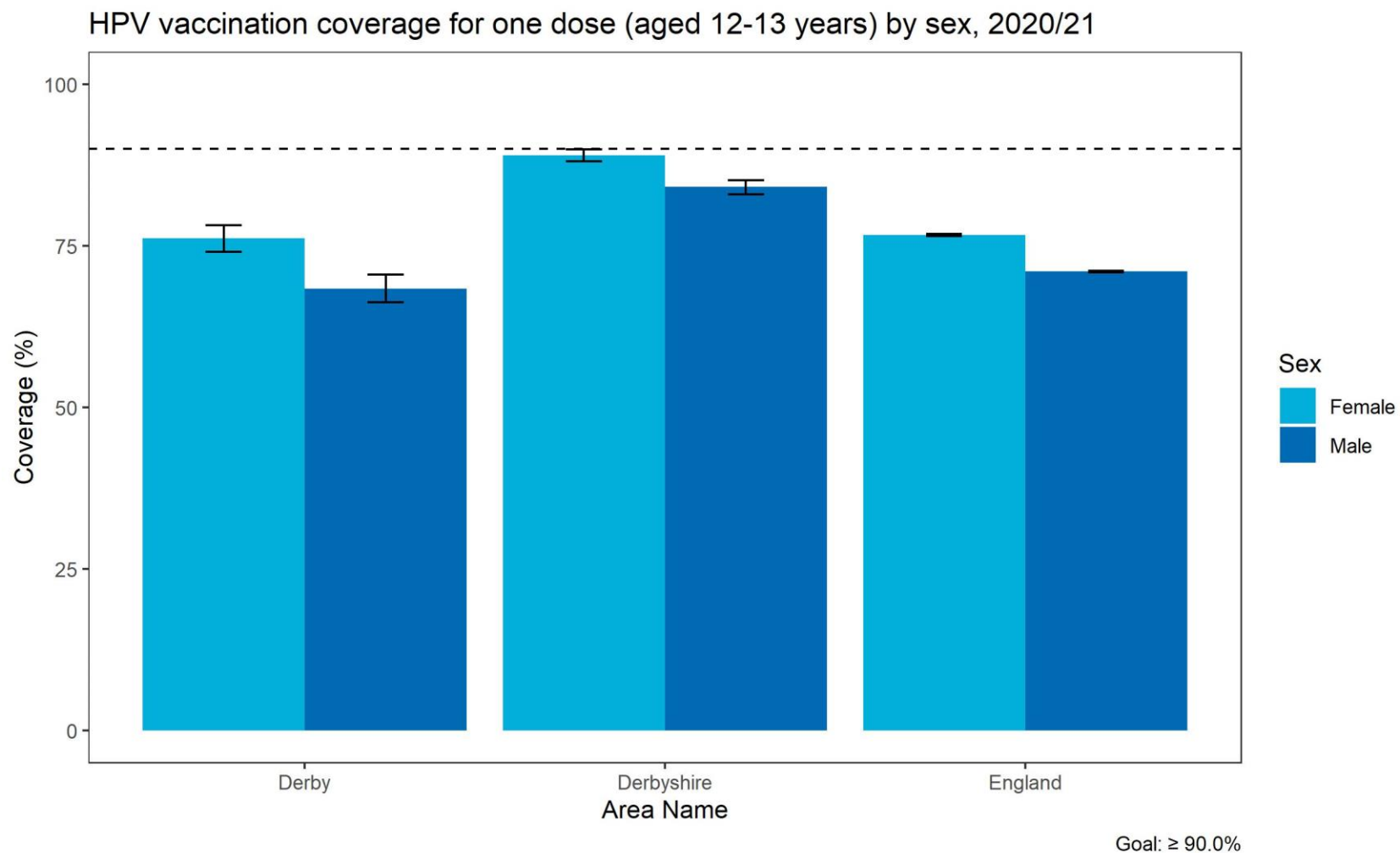
# HPV vaccination coverage – Males (one dose)



Goal: ≥ 90.0%

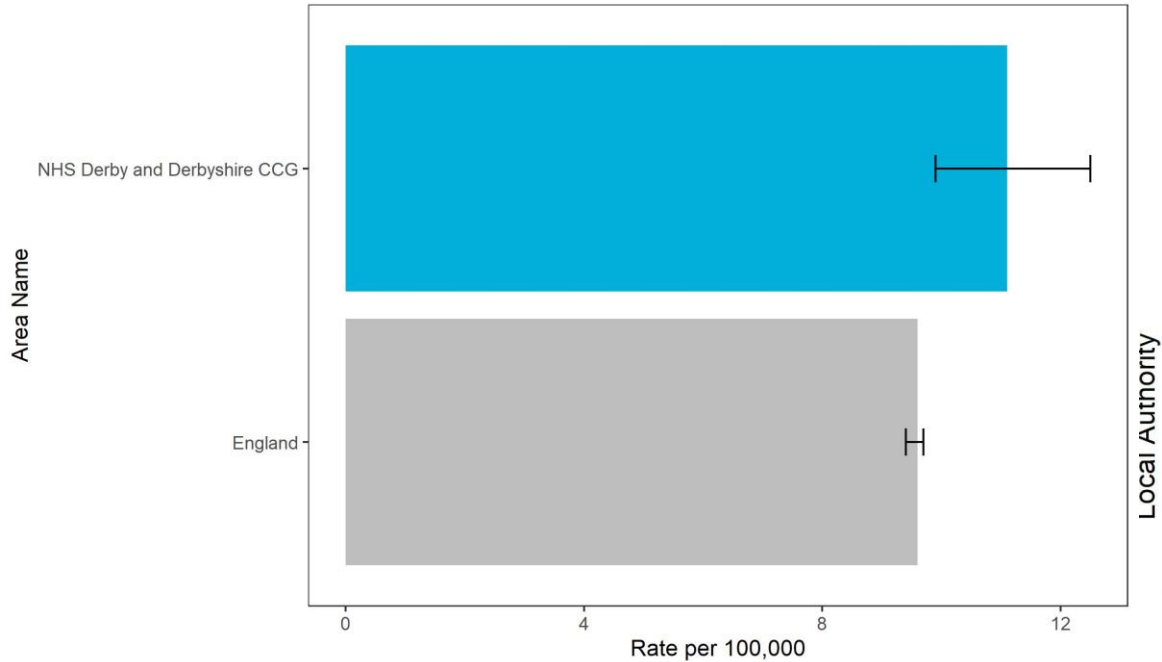
\*From September 2019, 12- to 13-year-old males became eligible for HPV immunisation alongside females, based on JCVI advice.

# HPV vaccination coverage by sex (one dose)

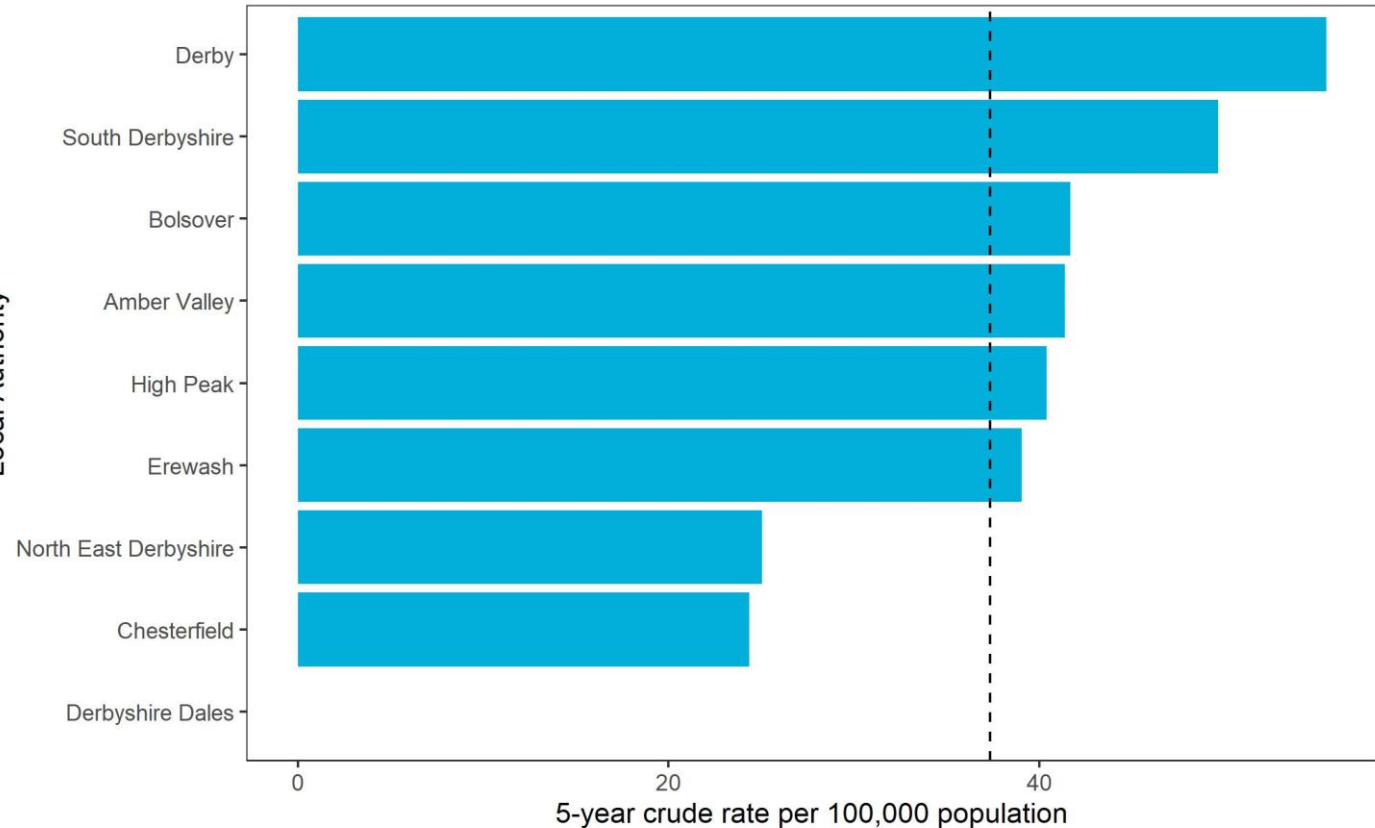


# Cervical cancer prevalence and incidence

Cervical cancer incidence in females, 2015-2019  
5-year age-standardised rate per 100,000



Cervical cancer prevalence, females, 2015-2019

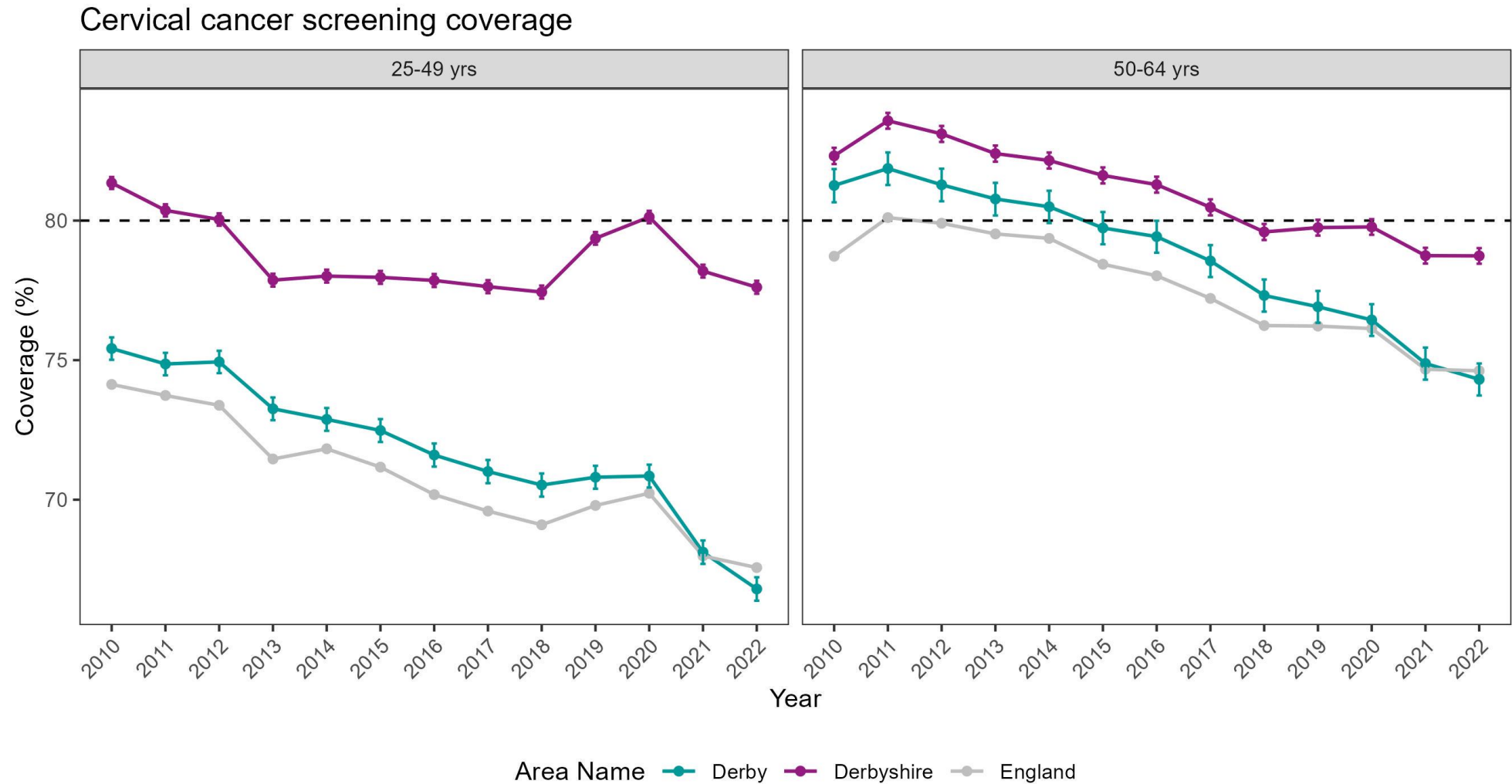


Benchmark - England

CancerData. England Cancer Prevalence Statistics, 2019. 2019. Available from: <https://www.cancerdata.nhs.uk/prevalence> [Accessed 20/07/22].

CancerData. Cancer Incidence. Available from: [https://www.cancerdata.nhs.uk/incidence\\_and\\_mortality](https://www.cancerdata.nhs.uk/incidence_and_mortality) [Accessed 04/08/22].

# Cervical screening coverage



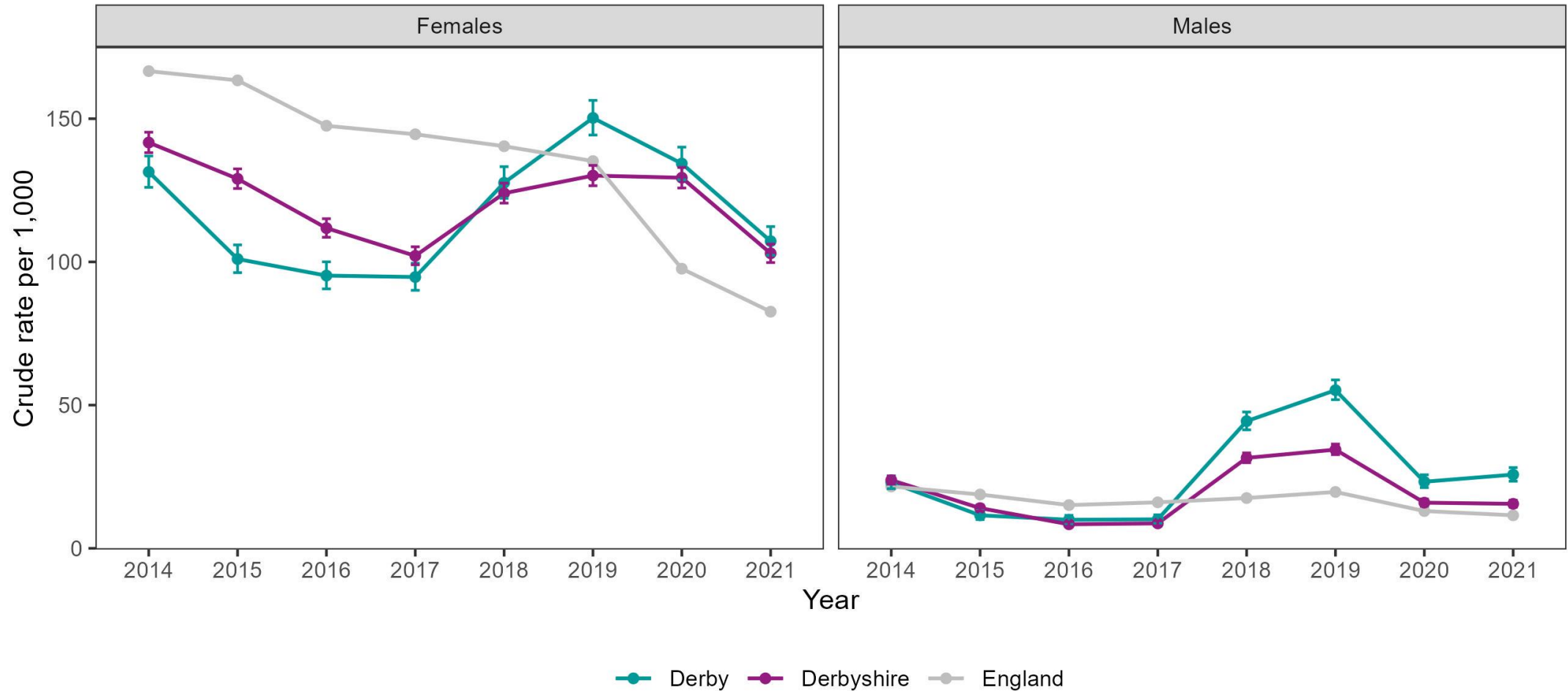
Acceptable performance threshold:  $\geq 80.0\%$

## 4. Contraception

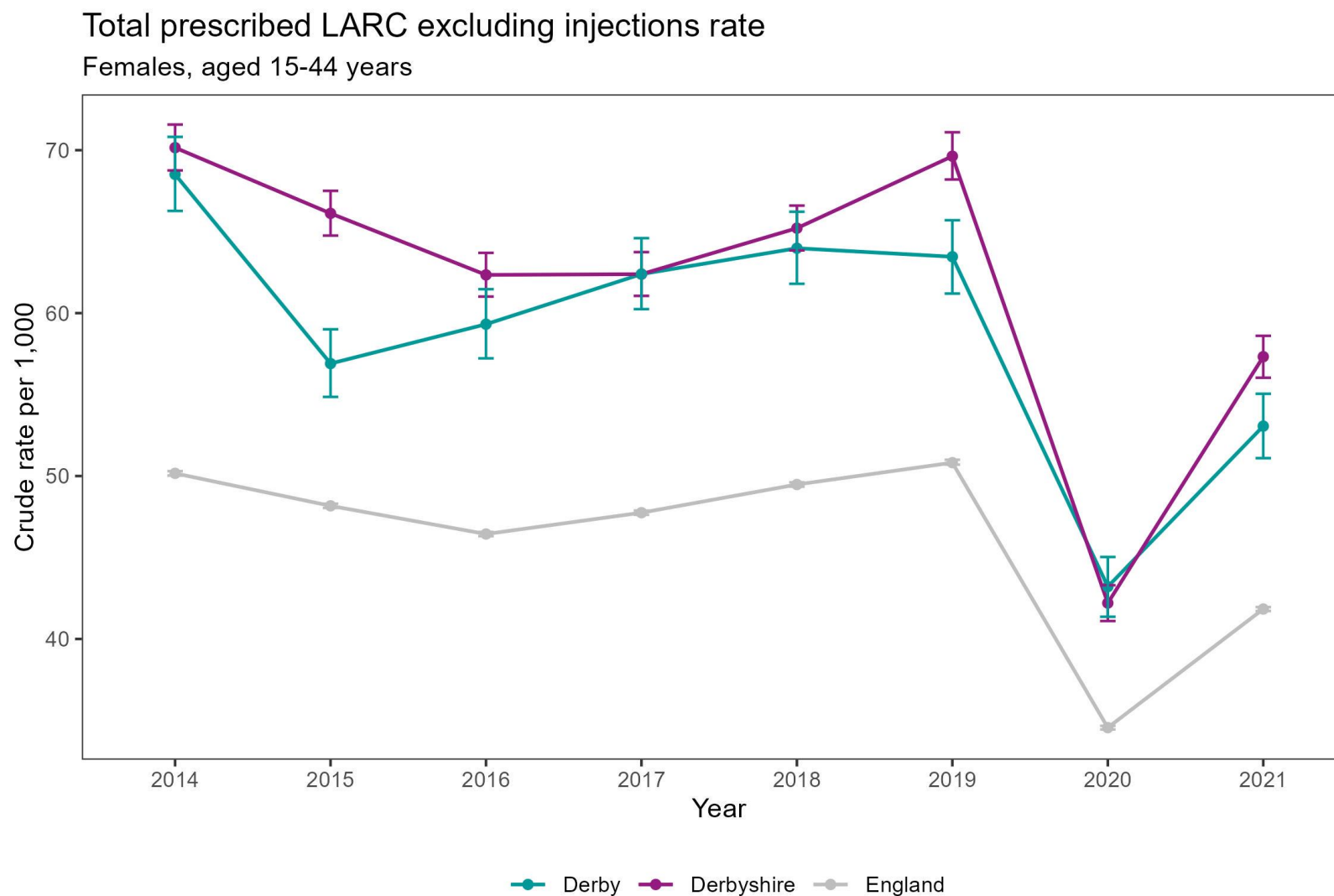
- Total prescribed LARC
- GP prescribed LARC
- SRH Services prescribed LARC
- Women choosing LARC excluding injections at SRH Services
- Main method of contraception at SRH Services
- Activity at SRH Services

# Under 25 attendees at specialist contraceptive services

Unique attendees at specialist contraceptive services  
Population aged 15-24 years



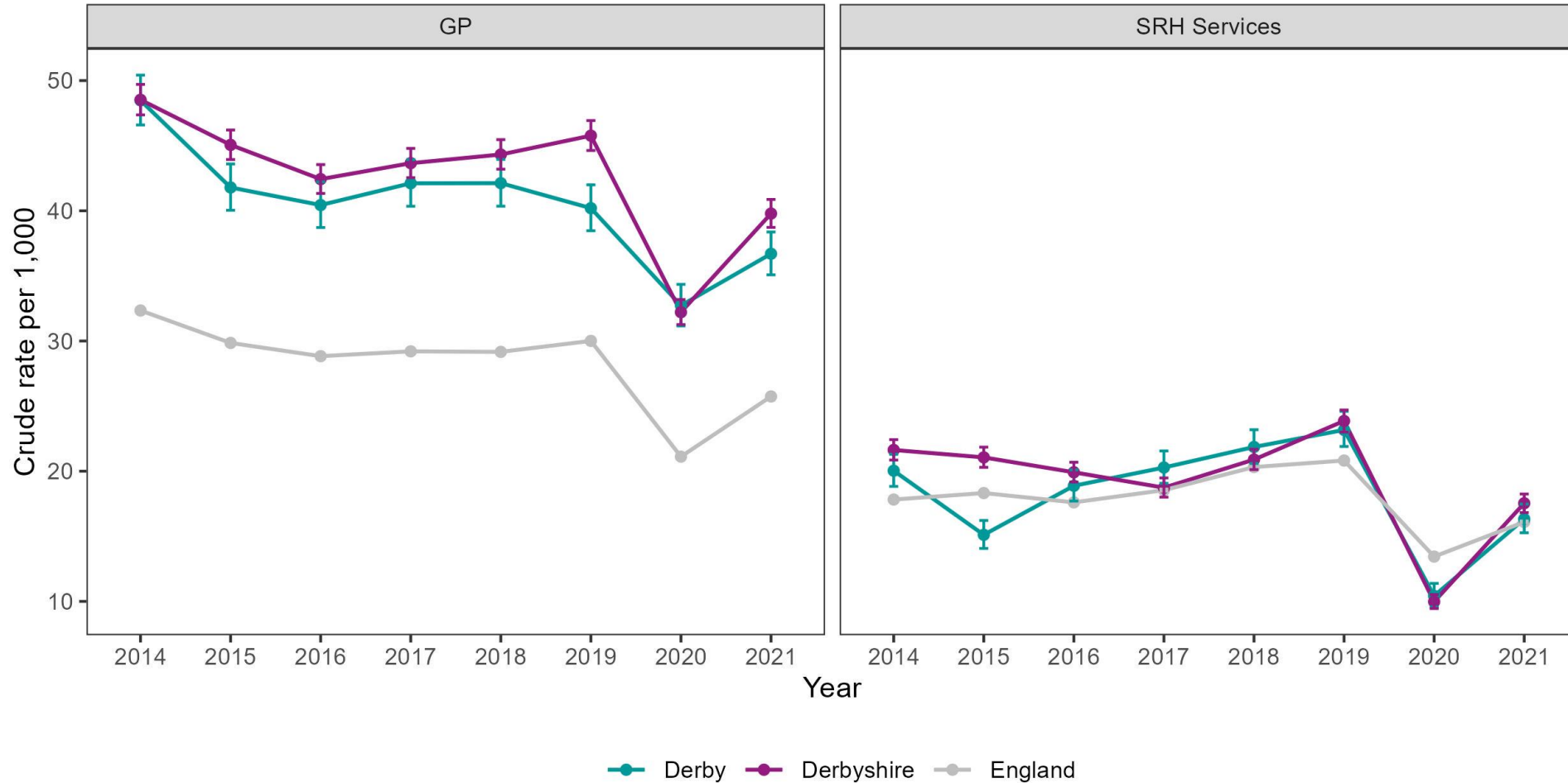
# Total prescribed LARC excluding injections rate



# Prescribed LARC excluding injections rate

## Prescribed LARC excluding injections rate

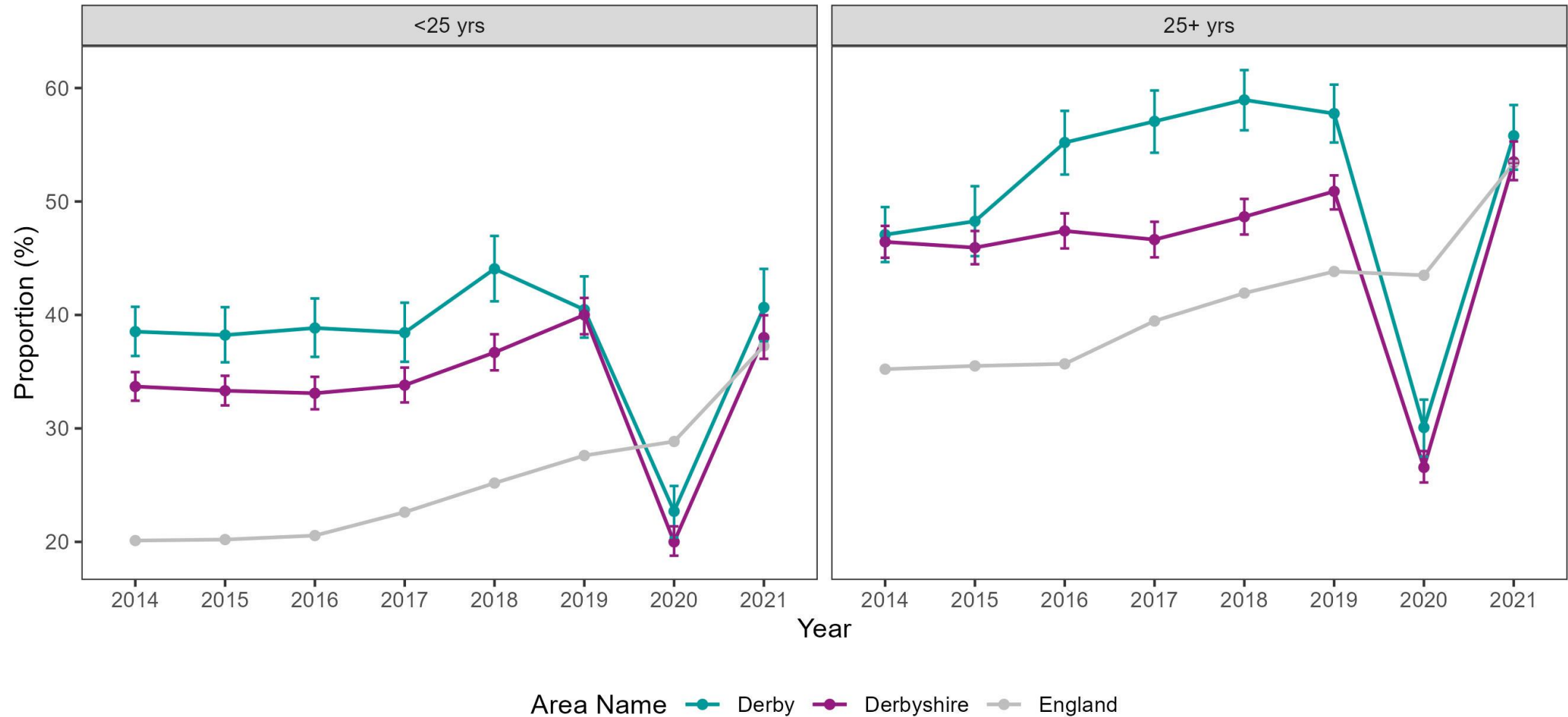
Females, aged 15-44 years



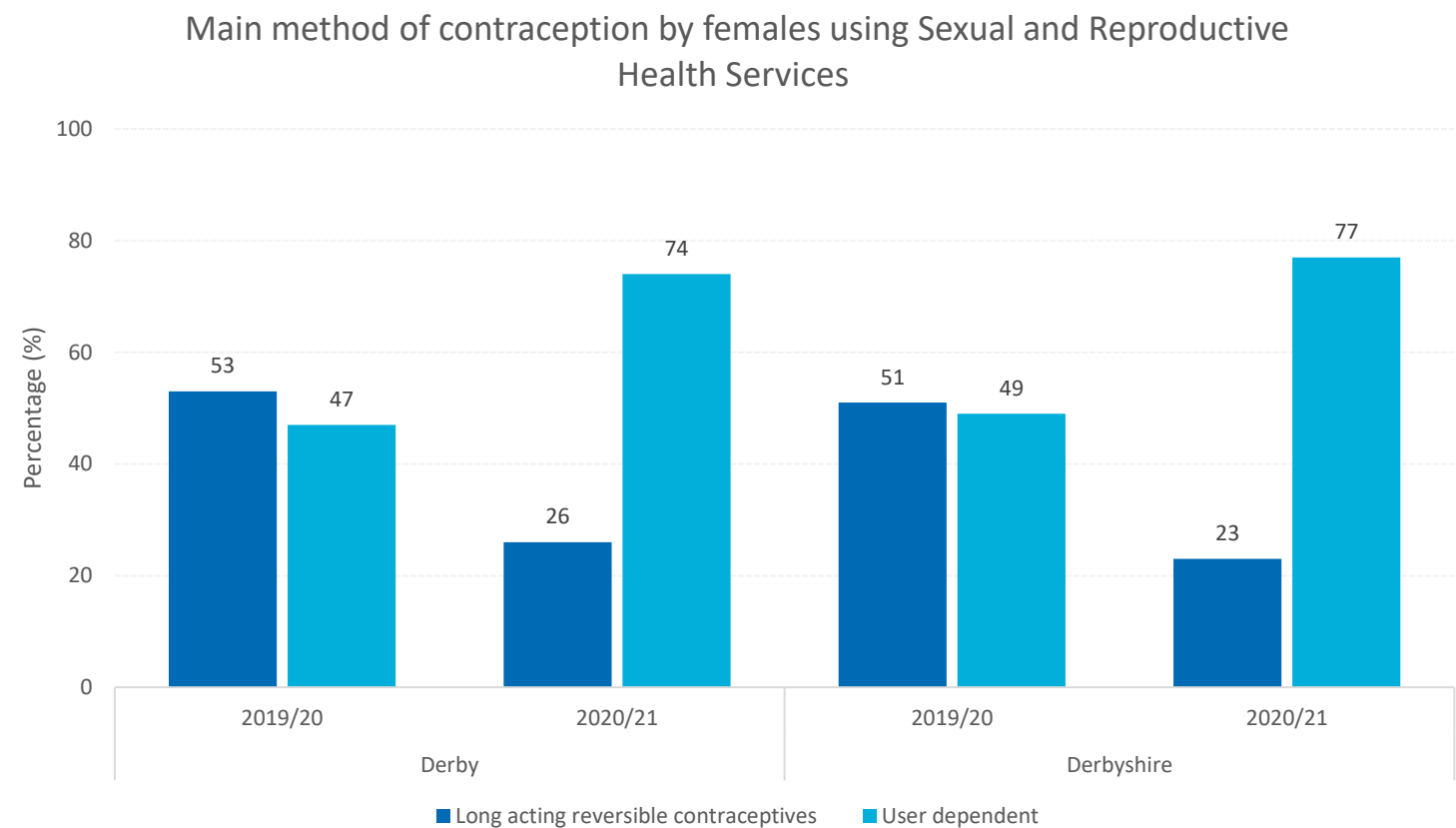


# Women choosing LARC excluding injections at SRH

Percentage of women choosing LARC excluding injections at SRH Services by age



# Activity at Sexual and Reproductive Health Services



Data sourced from SHRAD

# Activity at Sexual and Reproductive Health Services

**Table X:** All activity at Sexual and Reproductive Health Services, by Local Authority of patient residence between 2019/20-2020/21. Data sourced from SHRAD.

Activity type	Derby				Derbyshire			
	2019/20		2020/21		2019/20		2020/21	
	<i>n</i>	%	<i>n</i>	%	<i>n</i>	%	<i>n</i>	%
Contraceptive care (excl. emergency contraception)	4,410	21.6%	4,170	27.8%	12,510	31.9%	13,225	38.3%
STI related care	12,025	58.9%	8,150	54.3%	19,305	49.2%	15,720	45.5%
Emergency contraception	280	1.4%	685	4.6%	420	1.1%	950	2.7%
Sexual health advice	630	3.1%	470	3.1%	1,145	2.9%	1,750	5.1%
Pregnancy related (excl. ultrasound scan)	1,735	8.5%	830	5.5%	2,560	6.5%	1,275	3.7%
Ultrasound scan	25	0.1%	15	0.1%	50	0.1%	35	0.1%
Abortion related	55	0.3%	30	0.2%	75	0.2%	15	0.0%
Cervical screening	90	0.4%	90	0.6%	110	0.3%	55	0.2%
Psychosexual therapy / referral	0	0.0%	0	0.0%	80	0.2%	40	0.1%
Implant removal	660	3.2%	275	1.8%	1,780	4.5%	735	2.1%
IUS removal	130	0.6%	70	0.5%	460	1.2%	230	0.7%
IUD removal	155	0.8%	70	0.5%	280	0.7%	175	0.5%
PMS and menopause related care	0	0.0%	0	0.0%	15	0.0%	0	0.0%
Alcohol brief intervention	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Other	190	0.9%	145	1.0%	445	1.1%	365	1.1%
<b>Total activity</b>	<b>20,385</b>		<b>15,000</b>		<b>39,325</b>		<b>34,570</b>	













Data sourced from SHRAD

## 5. Wider Determinants of Sexual Health

- Index of Multiple Deprivation (IMD) score 2019
- Admission episodes for alcohol-specific conditions in under 18s
- Average attainment 8 score
- Children under 16 years in relative low-income families
- First time entrants to the youth justice system
- Pupil absence
- Violent crime – sexual offences

# Wider determinants

## Wider determinants of sexual health

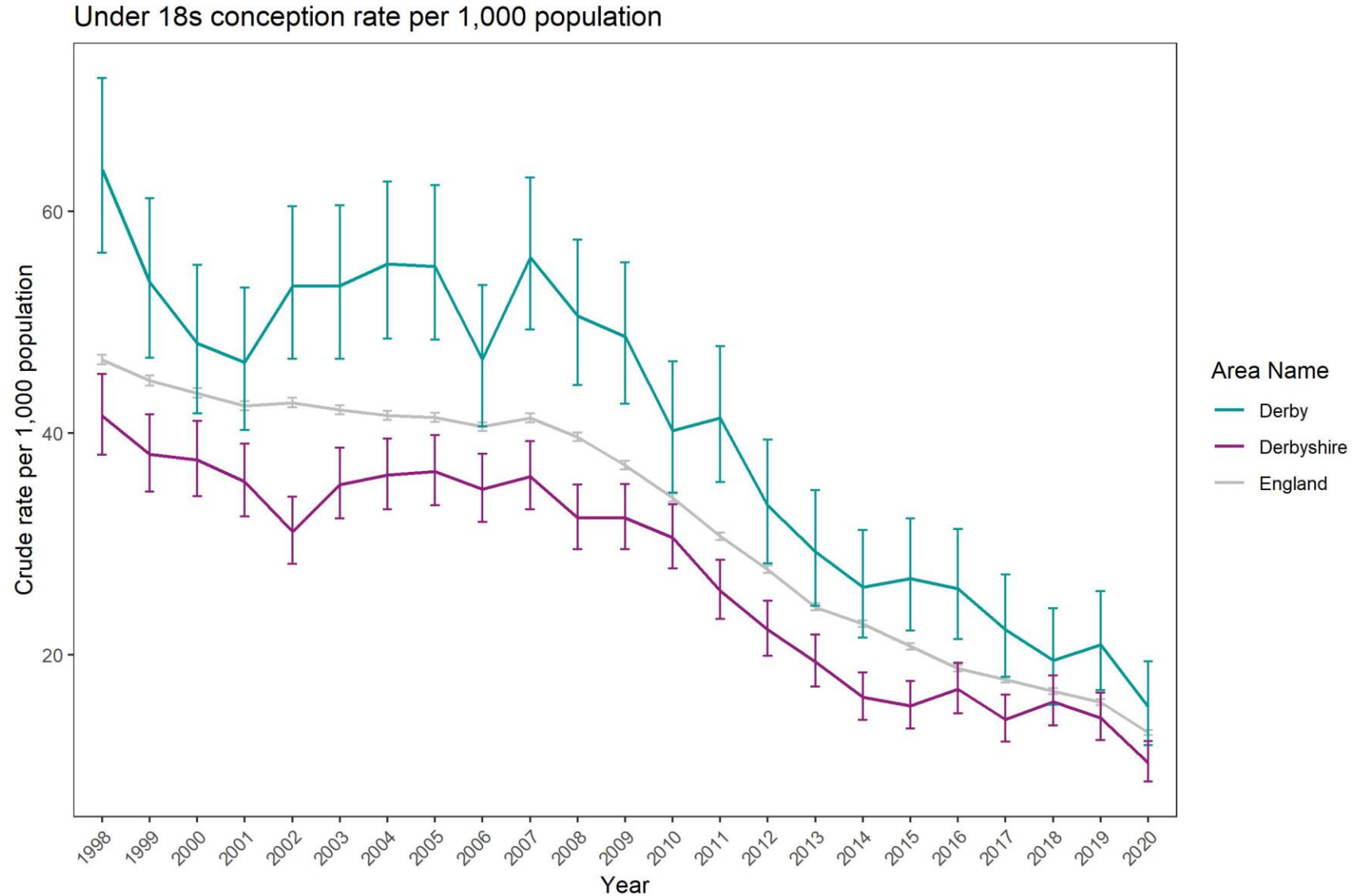
Indicator Name	Derby	Derbyshire	England
IMD Score (2019)	26.3	18.4	21.7
Admission episodes for alcohol-specific conditions in under 18s (rate / 100,000) (2018/19 - 20/21)	13.9 	35.7 	29.3
Average Attainment 8 score (2020/21)	46.1 	49.9 	50.9
Children under 16 years in relative low income families (%) (2020/21)	22.2 	13.4 	18.5
First time entrants to the youth justice system (rate / 100,000) (2021)	248.9 	95.3 	146.9
Pupil absence (%) (2020/21)	4.8 	4.2 	4.6
Violent crime - sexual offences (rate / 1,000 population) (2021/22)	4.6 	2.5 	3.0

Compared to England:  Better  Similar  Worse

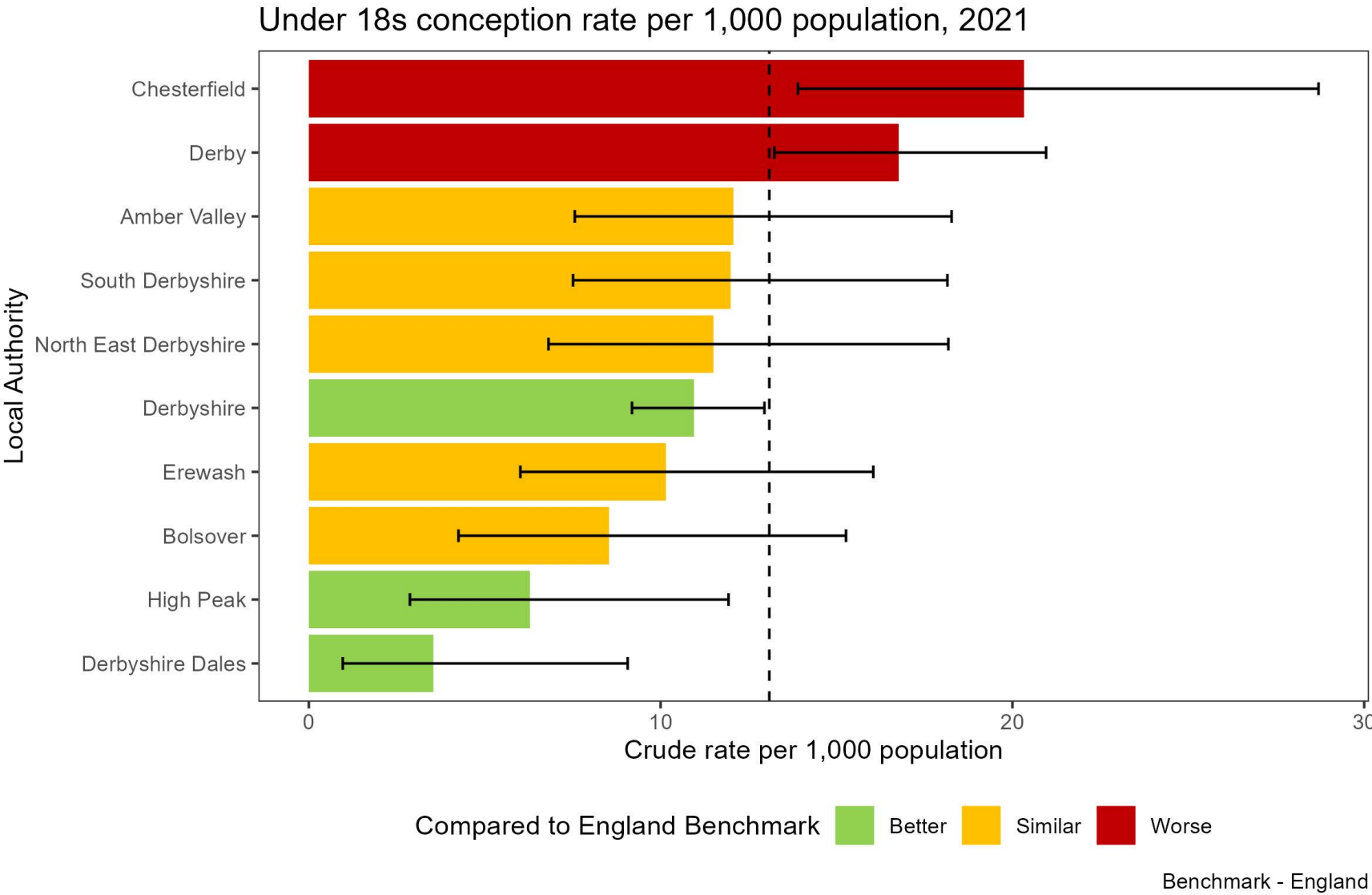
## 6. Reproductive Health

- Under 18s conceptions
- Teenage mothers
- Under 18s conceptions leading to abortion
- Total abortion rate
- Under 25s repeat abortions
- Abortions under 10 weeks

# Under 18s conceptions

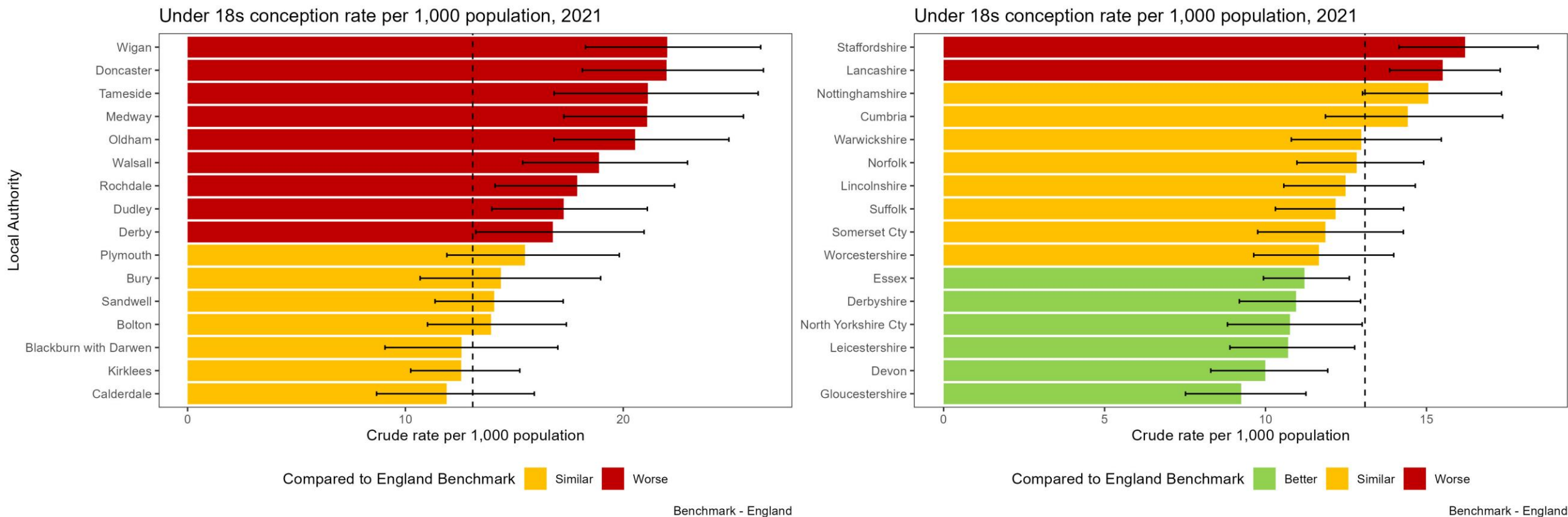


# Under 18s conceptions

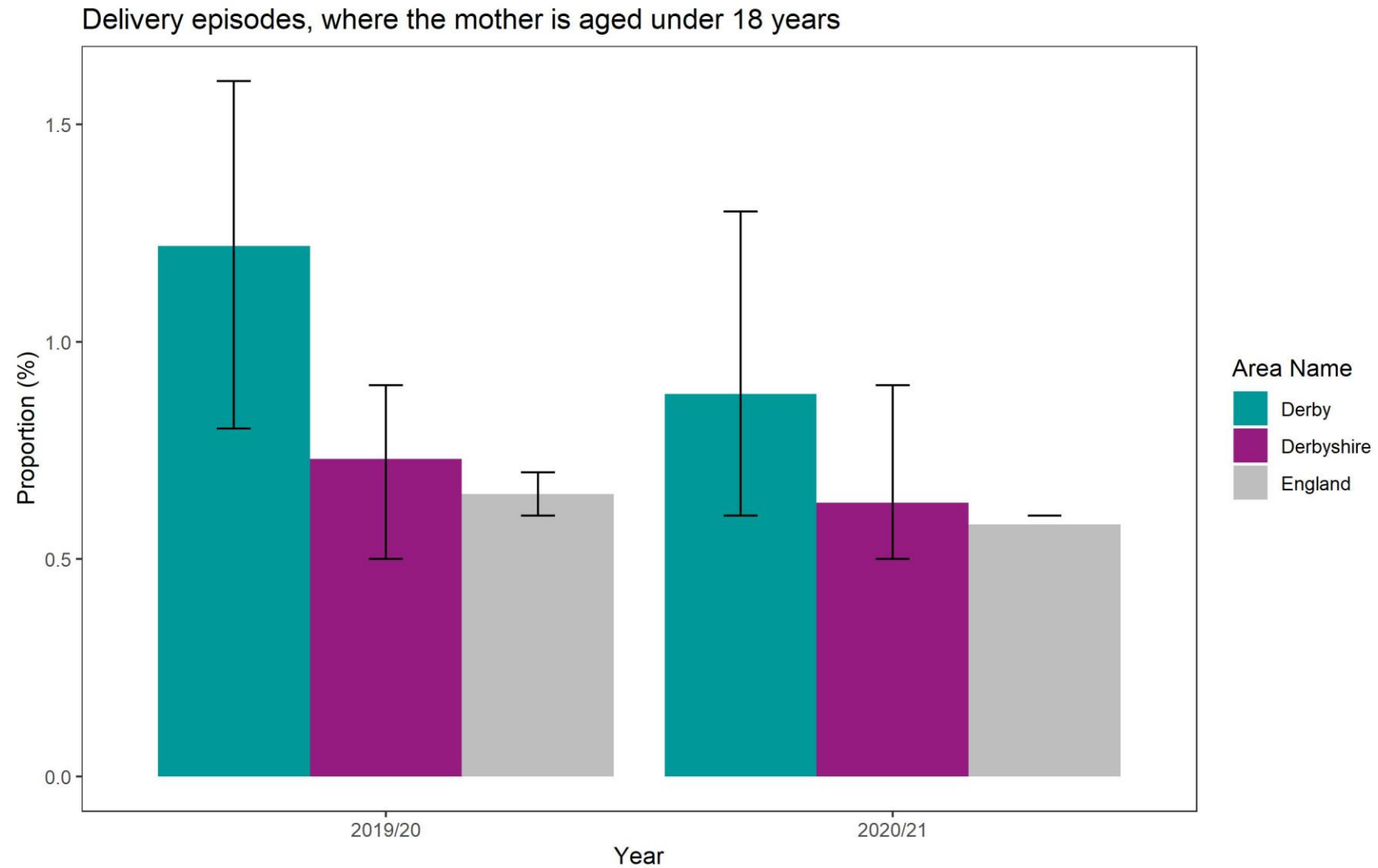




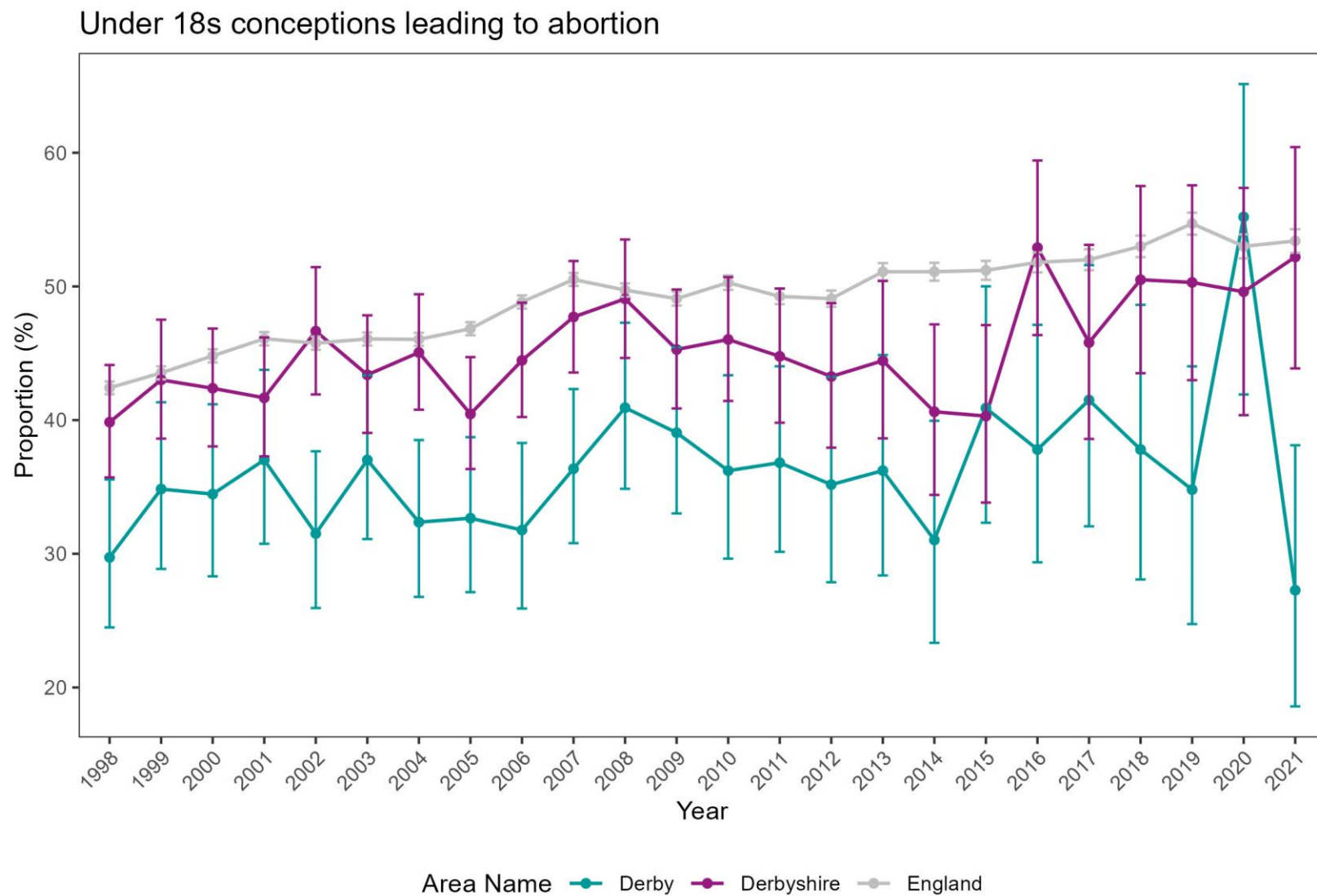
# Under 18s conceptions



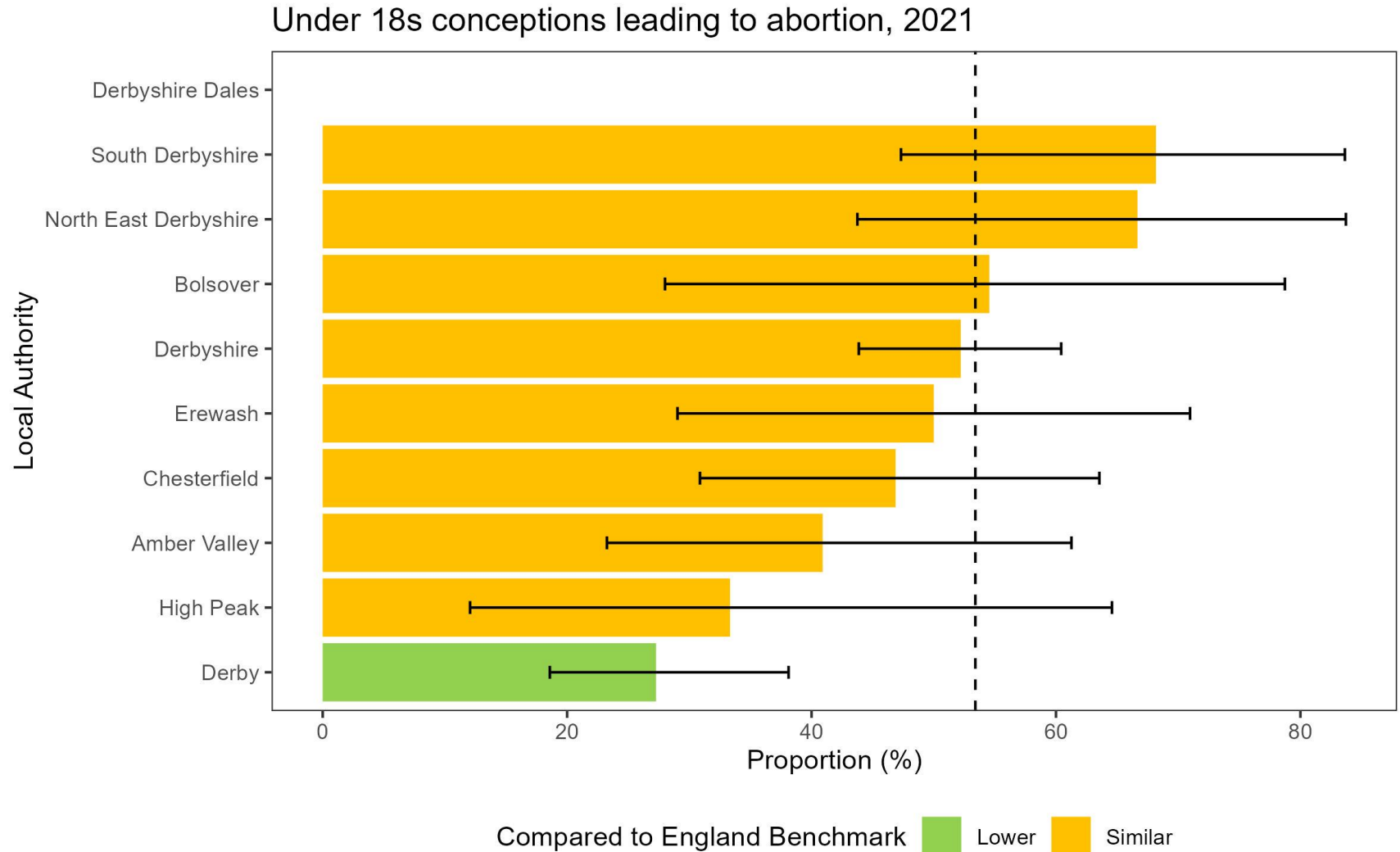
# Teenage mothers



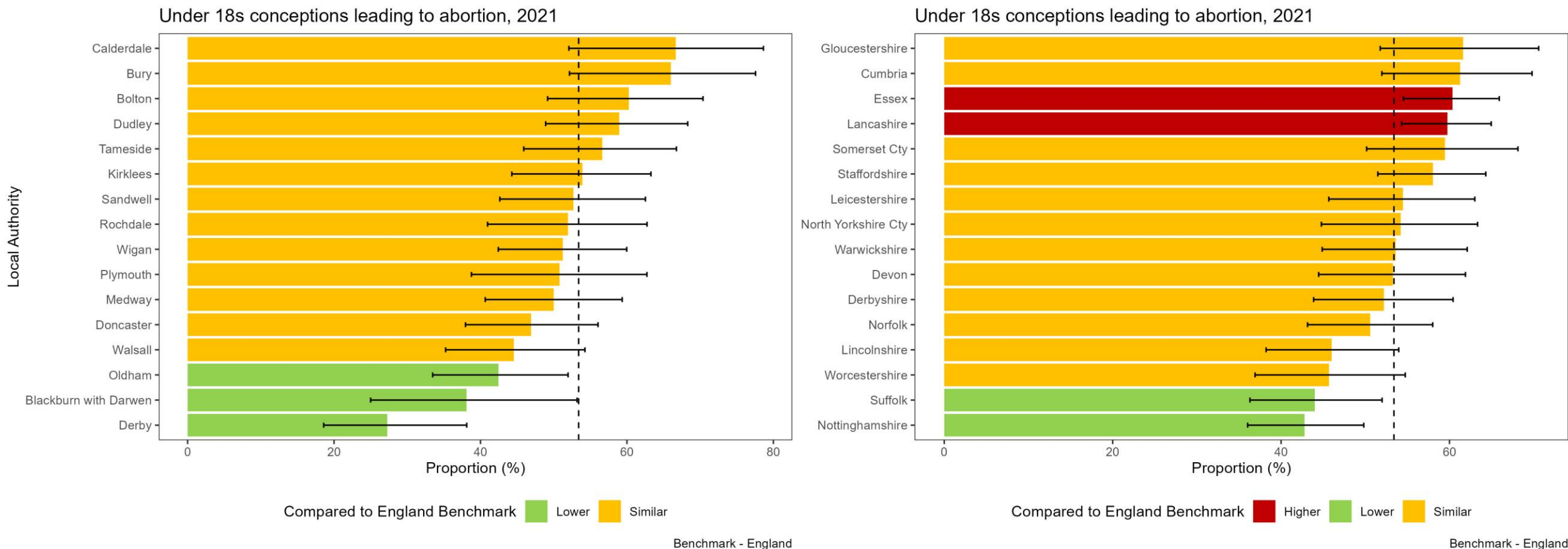
# Under 18s conceptions leading to abortion



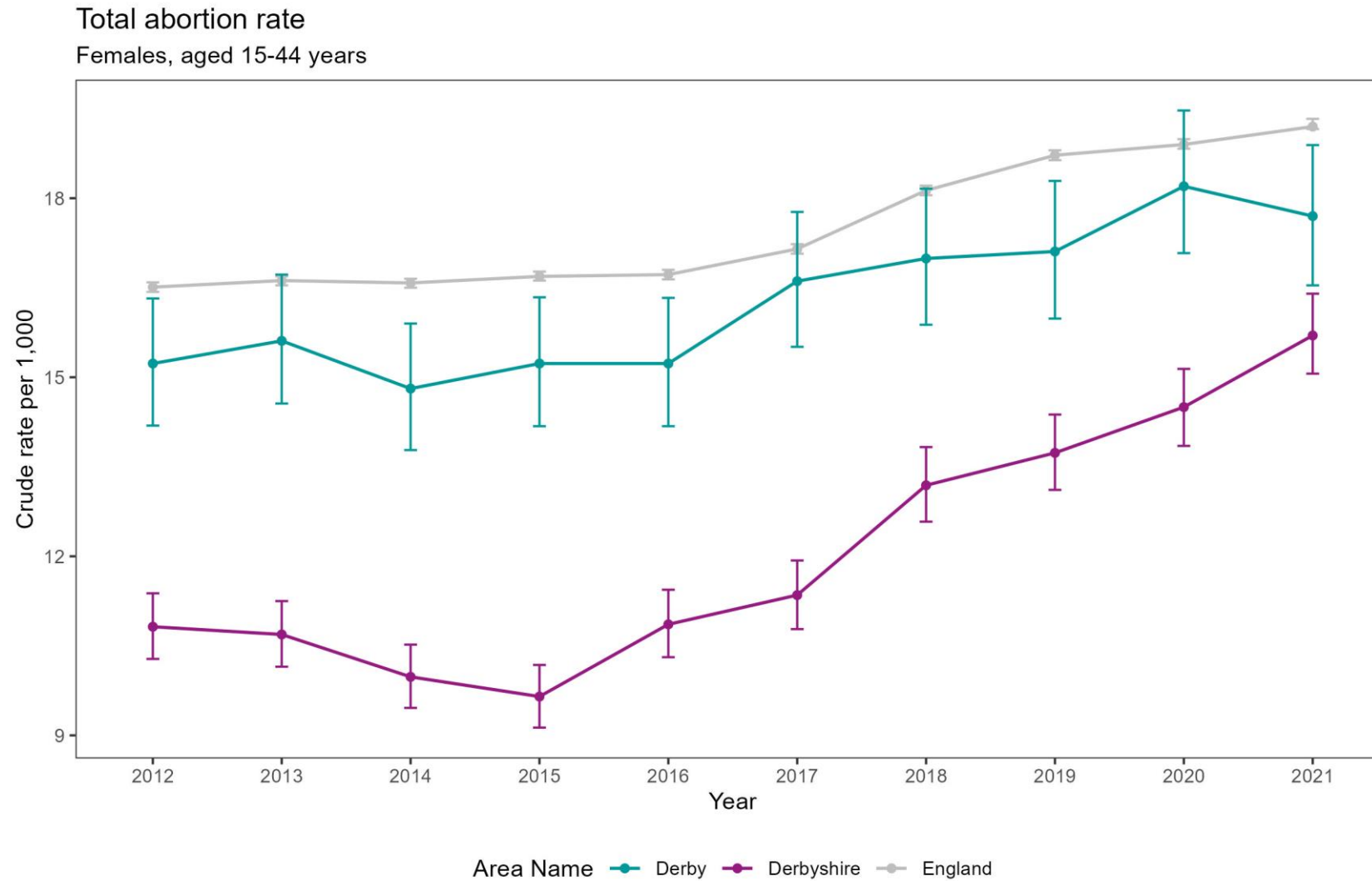
# Under 18s conceptions leading to abortion



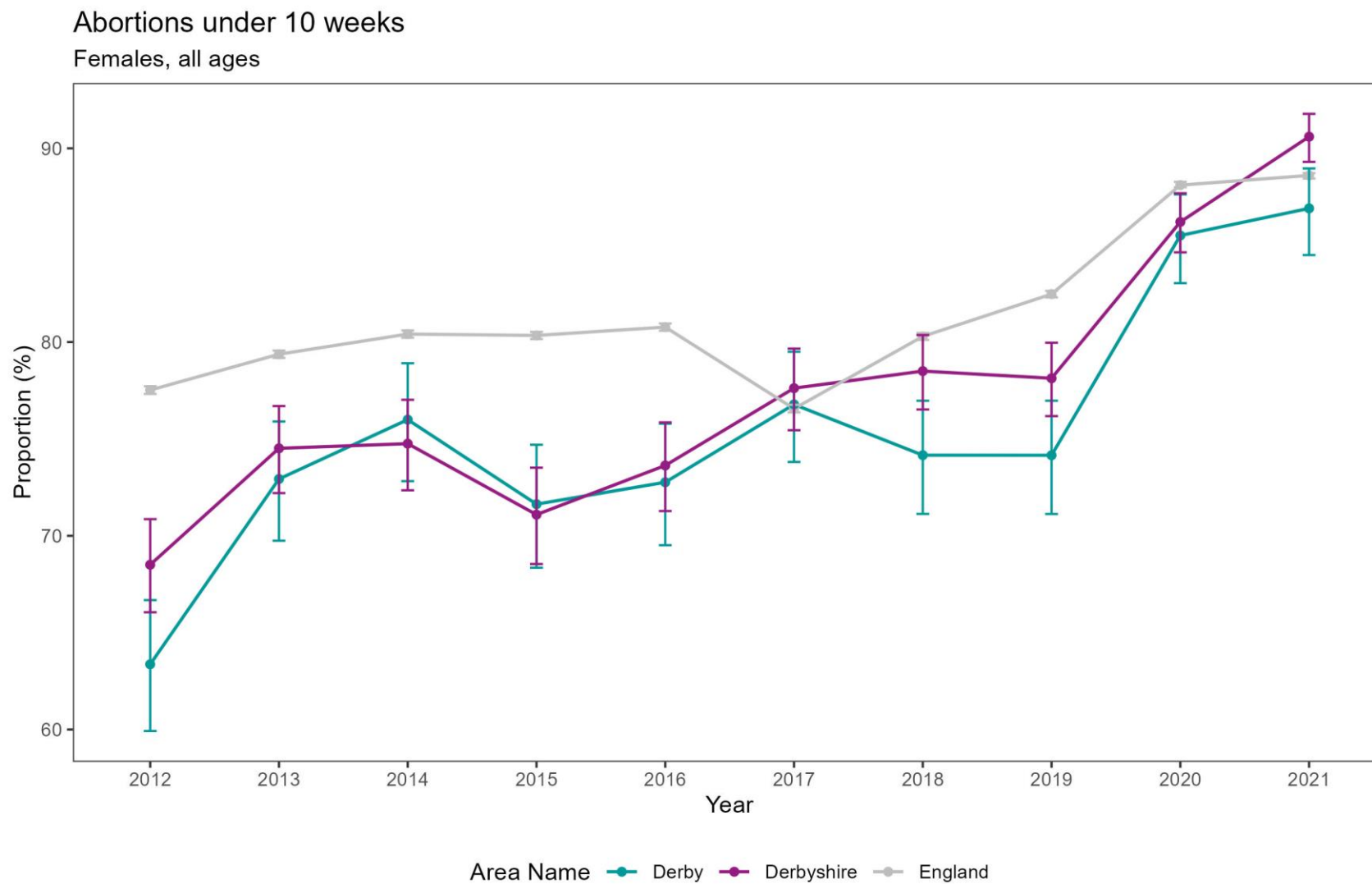
# Under 18s conceptions leading to abortion



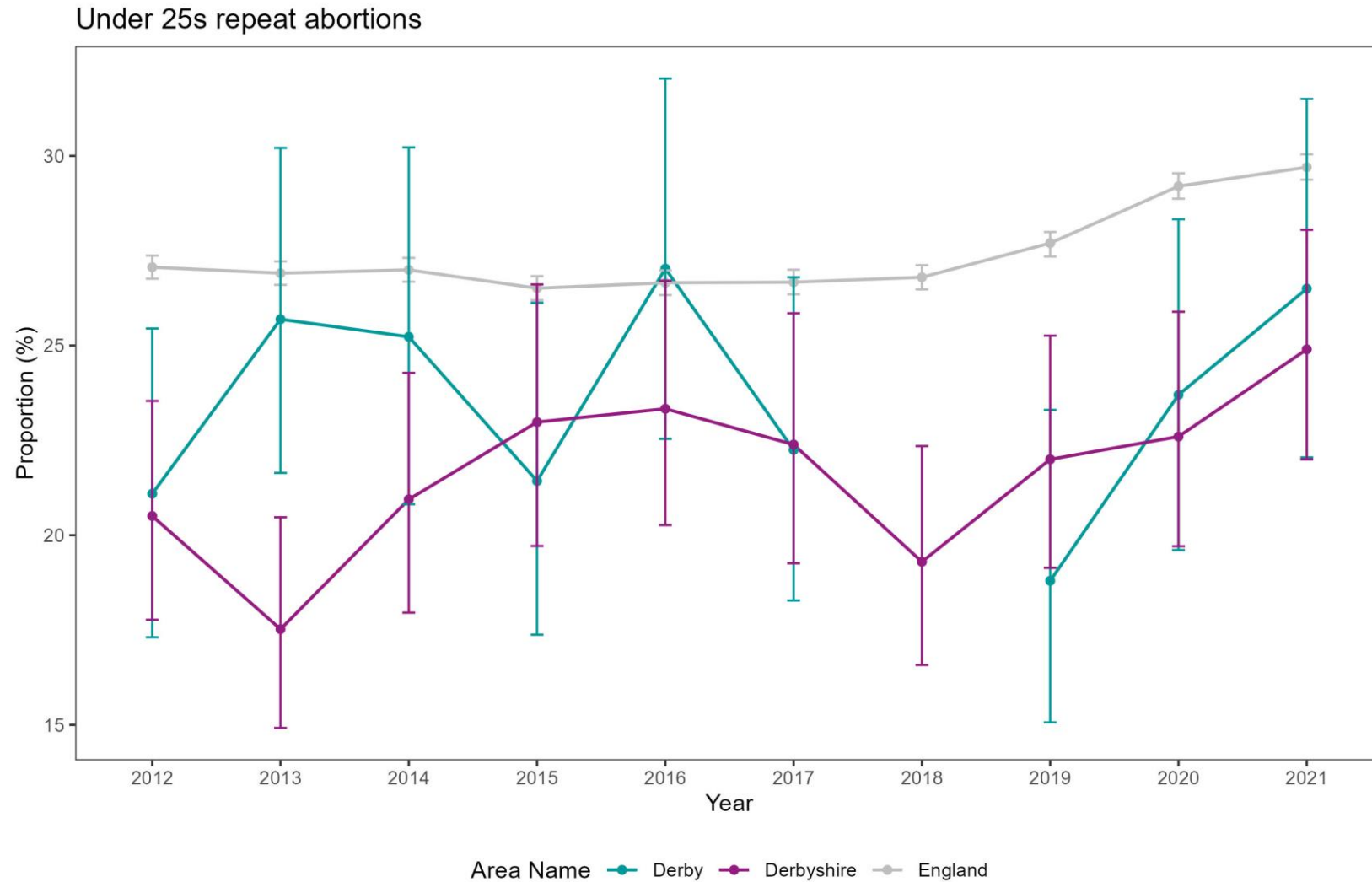
# Total abortion rate



# Abortions under 10 weeks



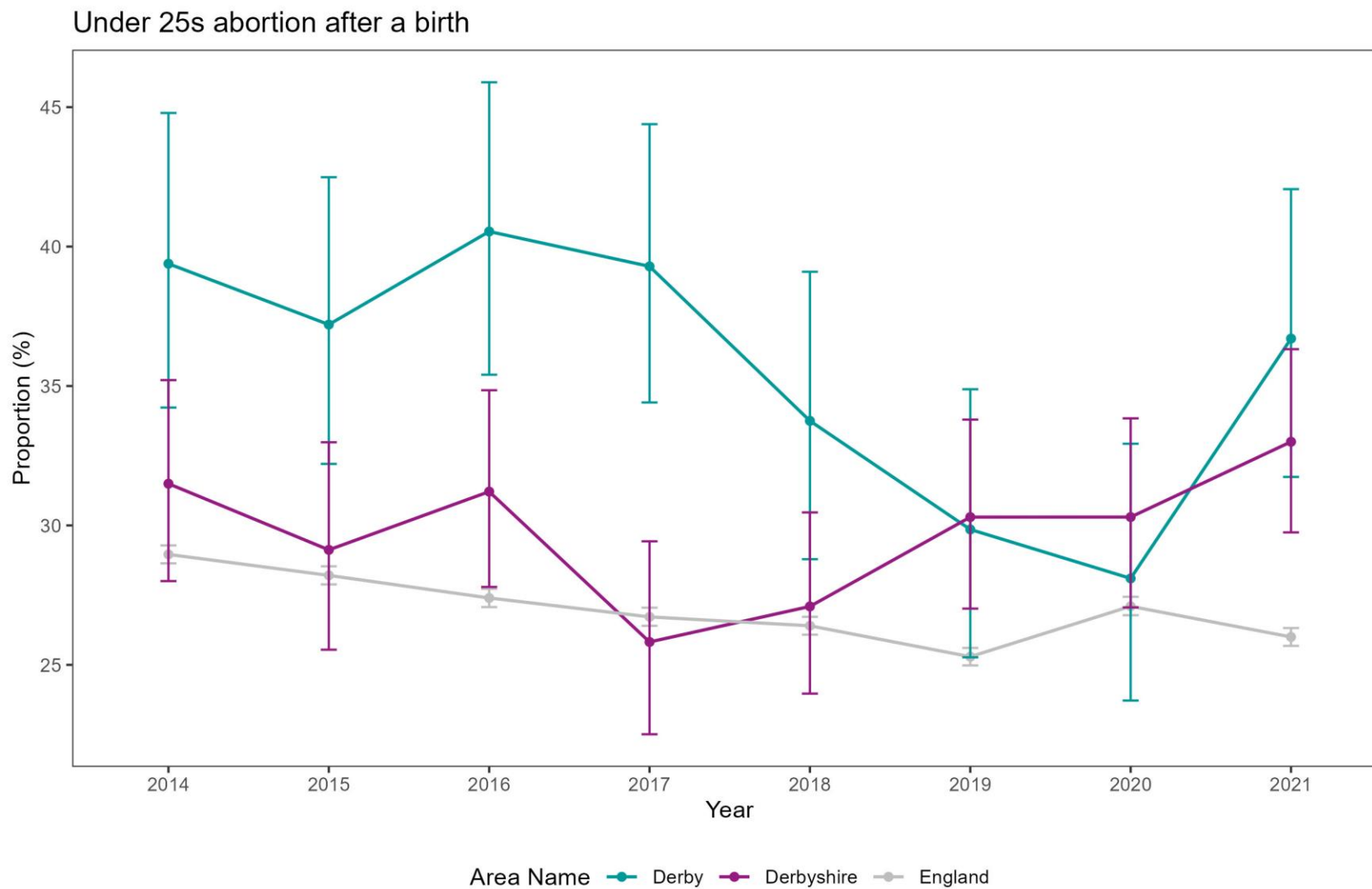
# Under 25s repeat abortions



\*2018 value for Derby suppressed for disclosure control reasons



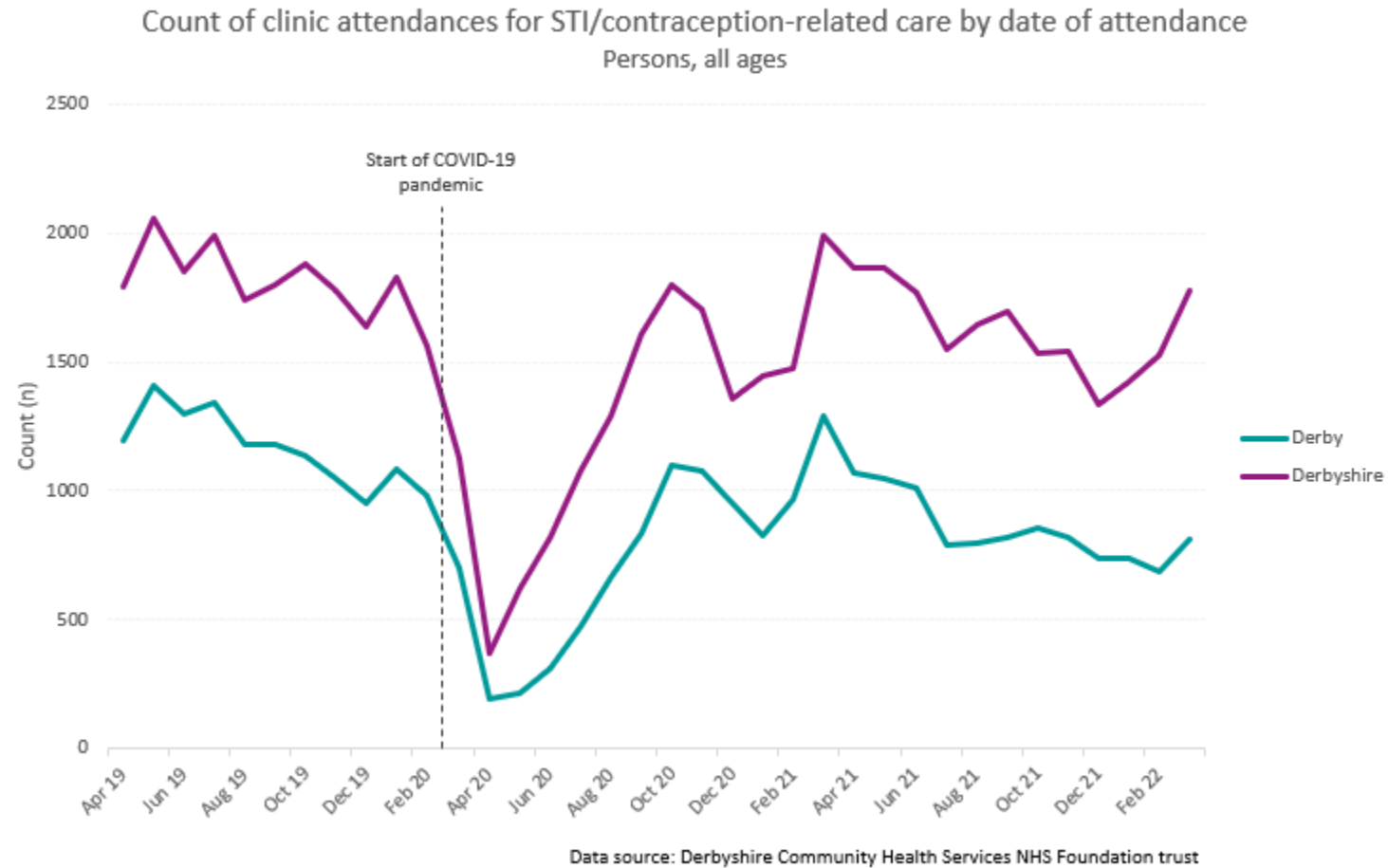
# Under 25s abortion after a birth



# 7. Use of ISHS in Derby and Derbyshire

- ISHS activity
- AP activity
- Demand modelling

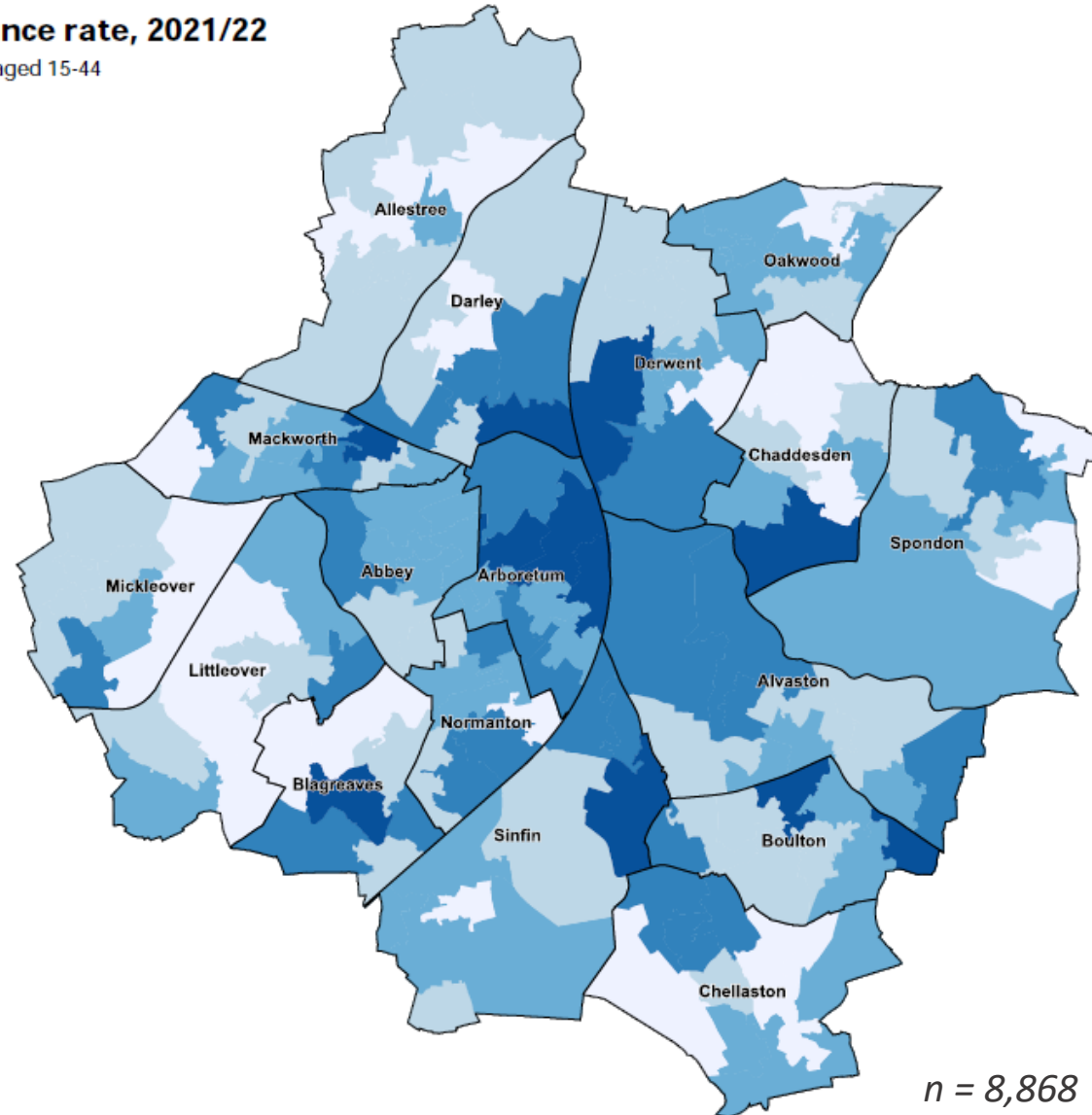
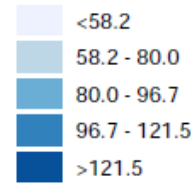
# Activity at ISHS clinics



# Population attending ISHS clinics: 2021/22

## Clinic attendance rate, 2021/22

Per 1,000 population aged 15-44

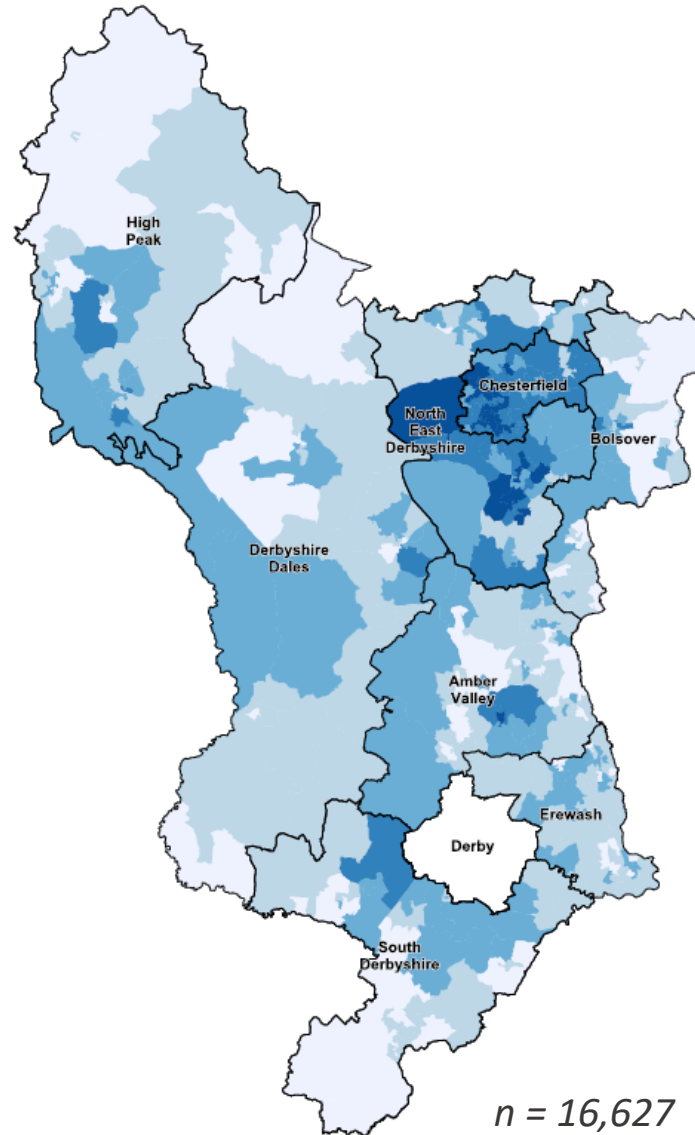
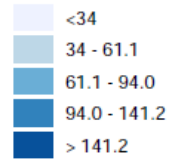


*n* = 8,868

# Population attending ISHS clinics: 2021/22

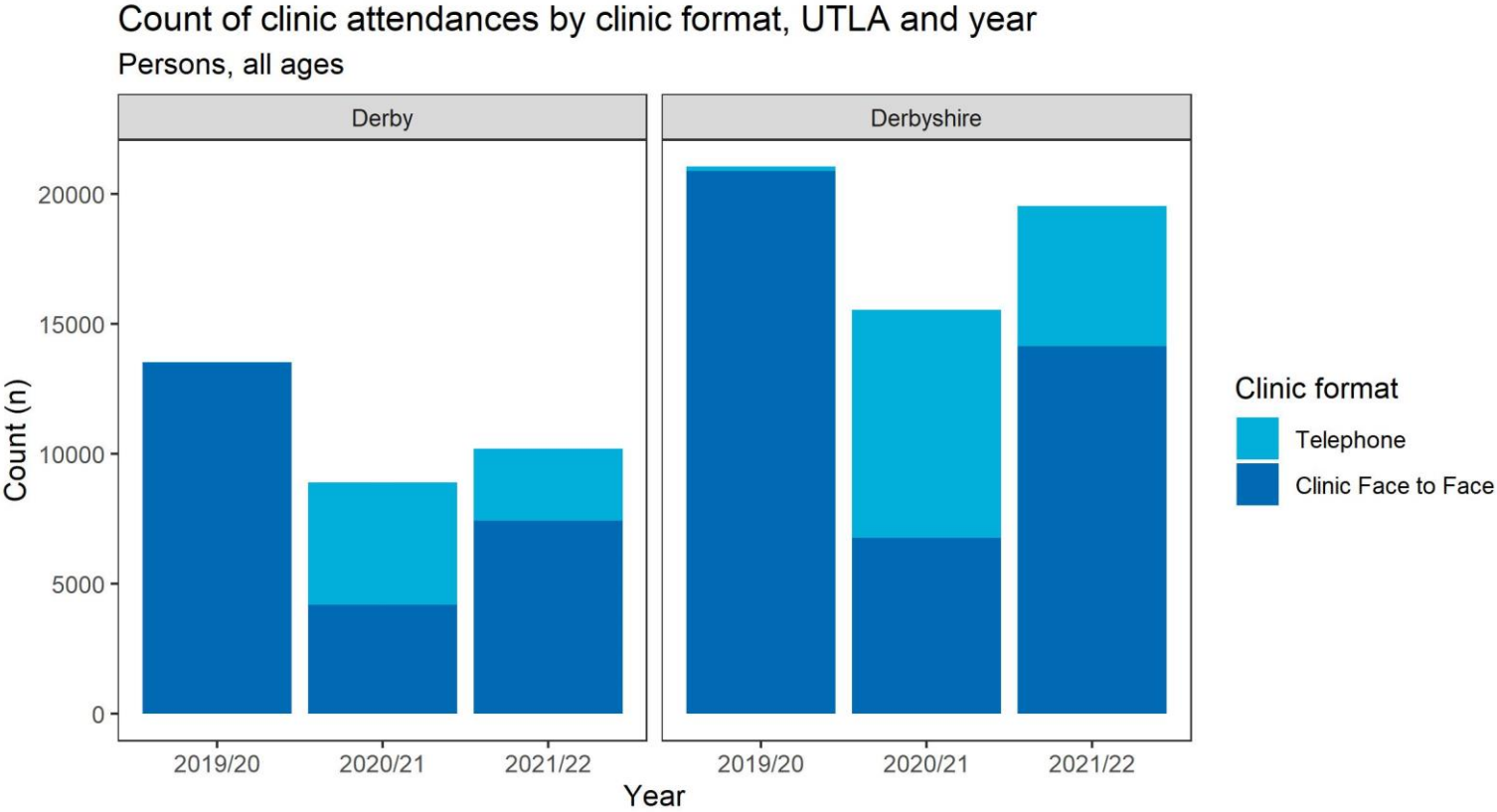
## Clinic attendance rate, 2021/22

Per 1,000 population aged 15-44



$n = 16,627$

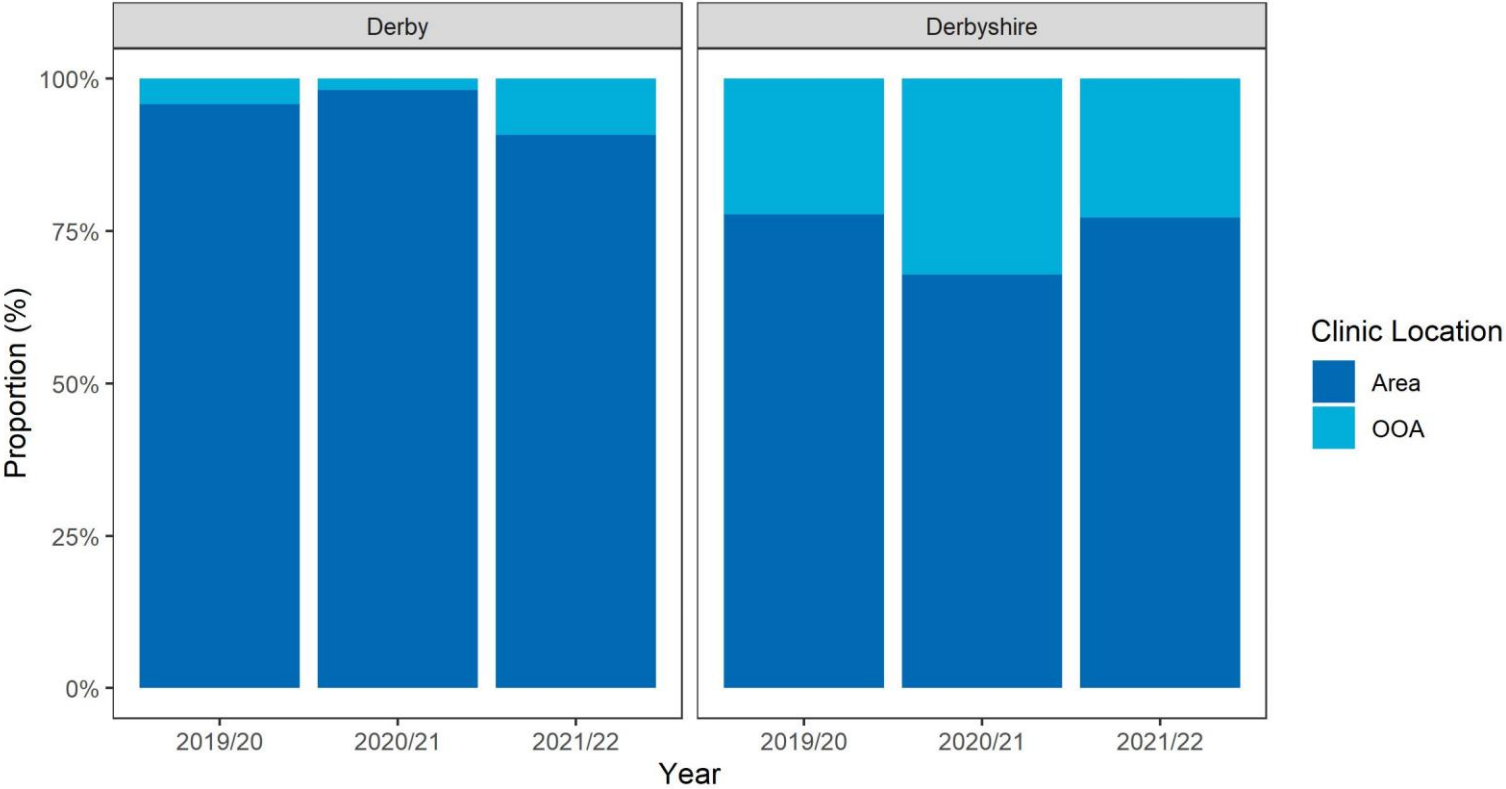
# Activity at ISHS clinics



Data source: Derbyshire Community Health Services NHS Foundation Trust

# Activity at Sexual and Reproductive Health Services

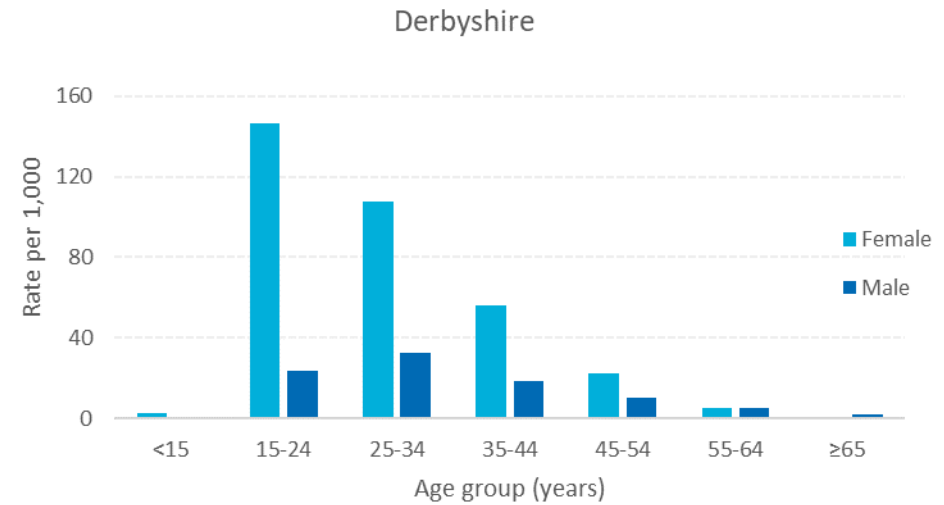
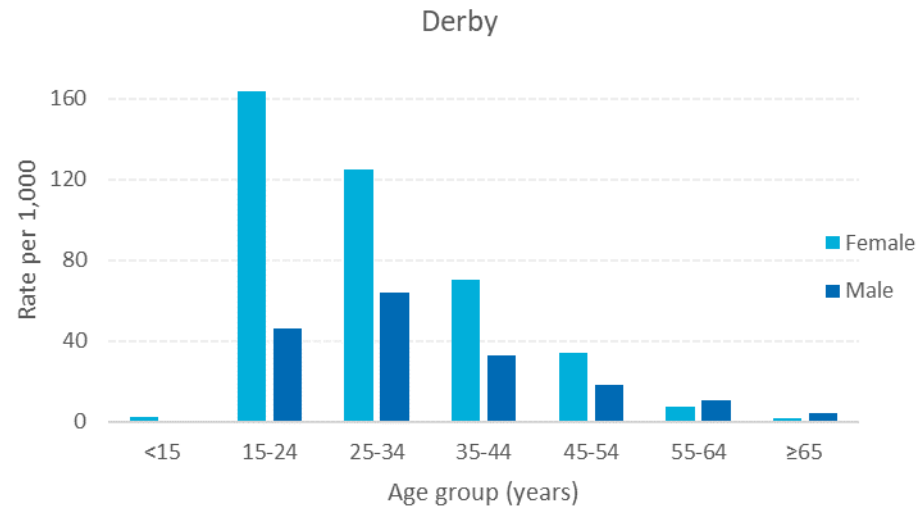
Proportion of face to face clinic attendances in area vs out of area by UTLA and year  
Persons, all ages



Data source: Derbyshire Community Health Services NHS Foundation Trust

# Population attending ISHS clinics: 2021/22

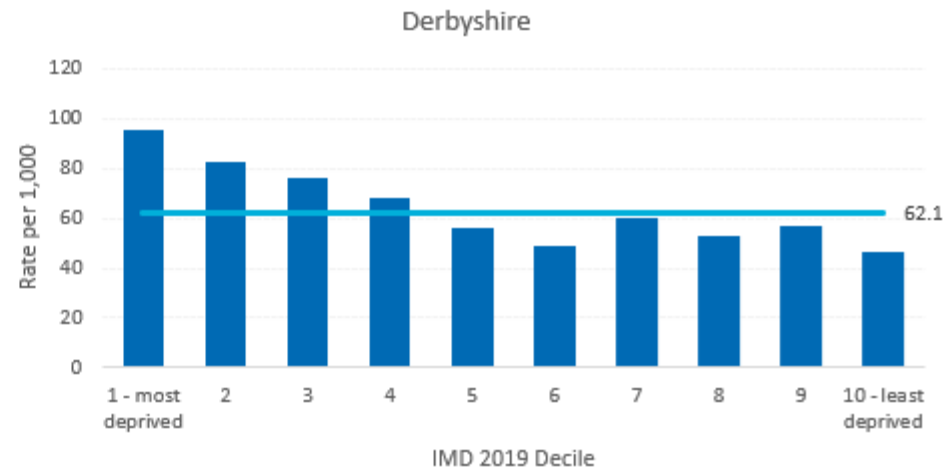
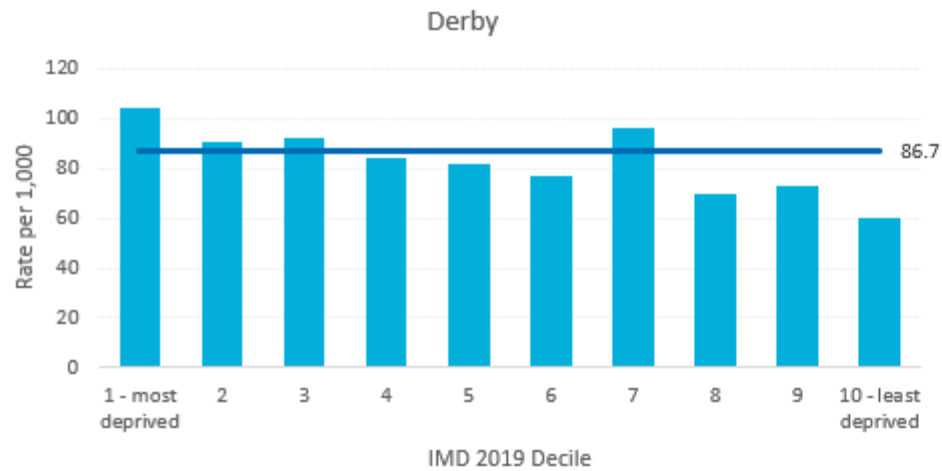
*Rate of population attending ISHS clinic for contraception/STI-related care by sex and age group during 2021/22*





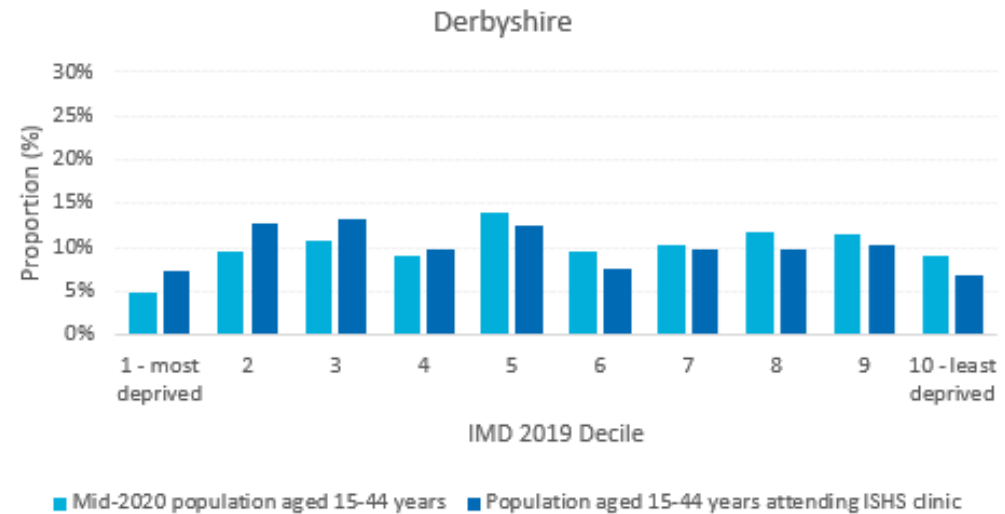
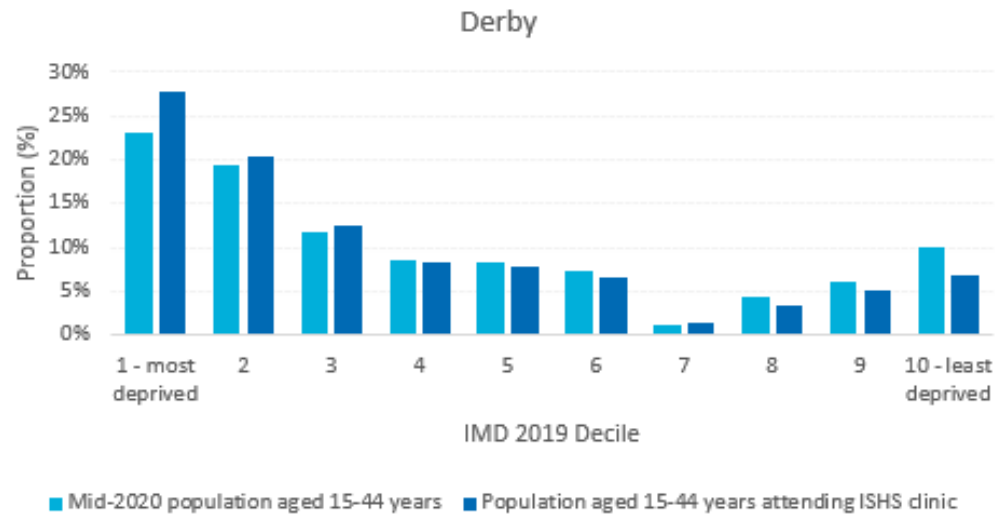
# Population attending ISHS clinics: 2021/22

*Attendance rate at ISHS clinic for contraception/STI-related care in population aged 15-44 years by deprivation decile during 2021/22*



# Population attending ISHS clinics: 2021/22

*Proportion of total population aged 15-44 years and population attending ISHS clinic for contraception/STI-related care aged 15-44 years by deprivation*



# SH24 requested/returned STI tests: 2019/20 – 2021/22

*Rate of SH24 requested/returned ST tests by age group and UTLA between 2019/20 - 2021/22*

