

Happy Birthday Scottish PrEP!



Uptake and STI
epidemiology from
the first year of the
NHS HIV PrEP
programme in
Scotland

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No disclosures

Background

On 1st July 2017 Scotland became the first UK country to launch a fully funded NHS HIV PrEP programme

- Specific eligibility criteria

Novel clinical coding system introduced to enable PrEP monitoring through Scottish National Sexual Health IT System (NaSH)

- Eligibility
- Outcome
- Regimen



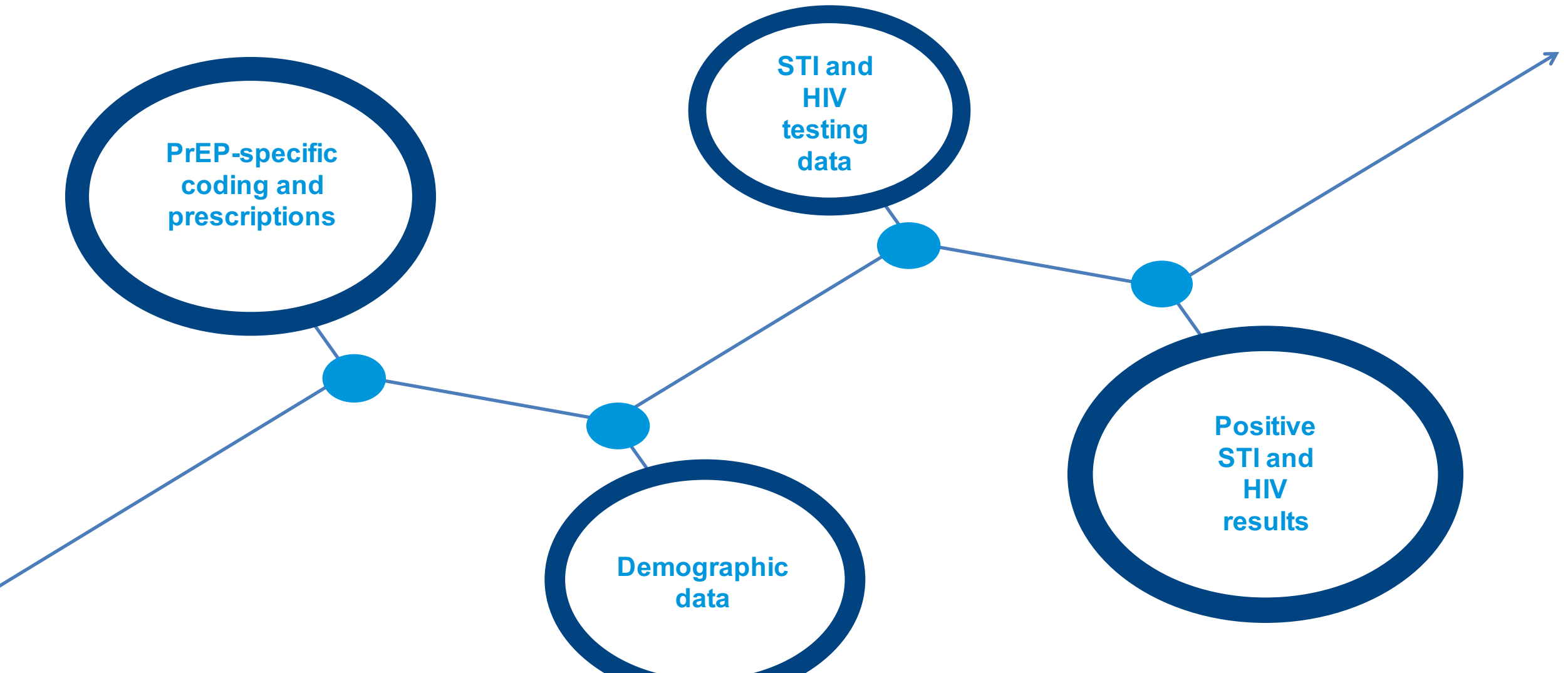
Scottish PrEP monitoring codes

PrEP service code	Description
eligibility codes	PREPe0 PrEP Does not meet NHS eligibility criteria
	PREPe1 PrEP Partner(s) HIV-positive with a detectable viral load
	PREPe2 PrEP Documented bacterial rectal STI in the last 12 months
	PREPe3 PrEP Condomless penetrative anal sex with 2 or more partners in last 12m and risk likely in next 3m
	PREPe4 PrEP Equivalent high risk of HIV acquisition, as agreed with another specialist clinician
regimen	PREPDAY PrEP regimen: starting or continuing DAILY PrEP
	PREPEBD PrEP regimen: starting or continuing EVENT BASED PrEP
outcome	PREPDEF PrEP prescription intended, but not prescribed today
	PREPOWN PrEP continued (through other source)
	PREPDEC PrEP offered and declined
	PREPCON PrEP medically contraindicated
	PREPEND PrEP stopped

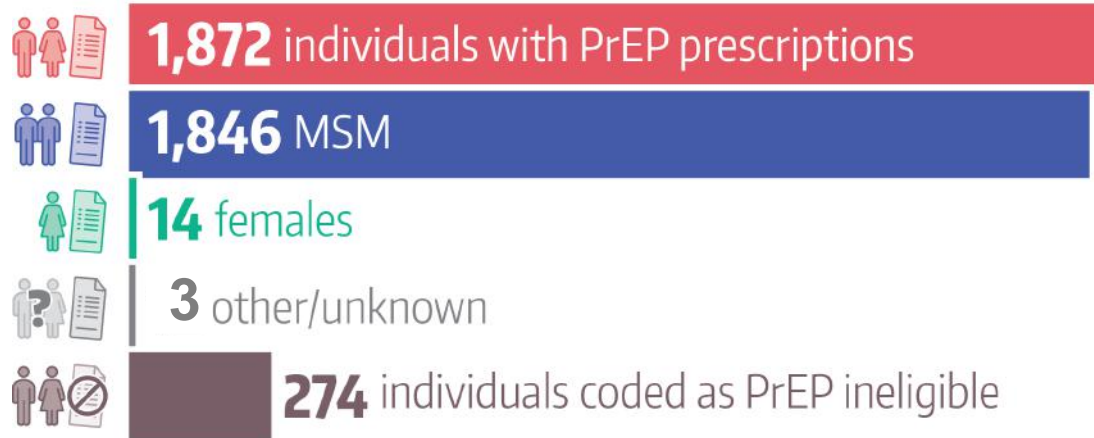


NaSH data sources for Scottish PrEP analysis

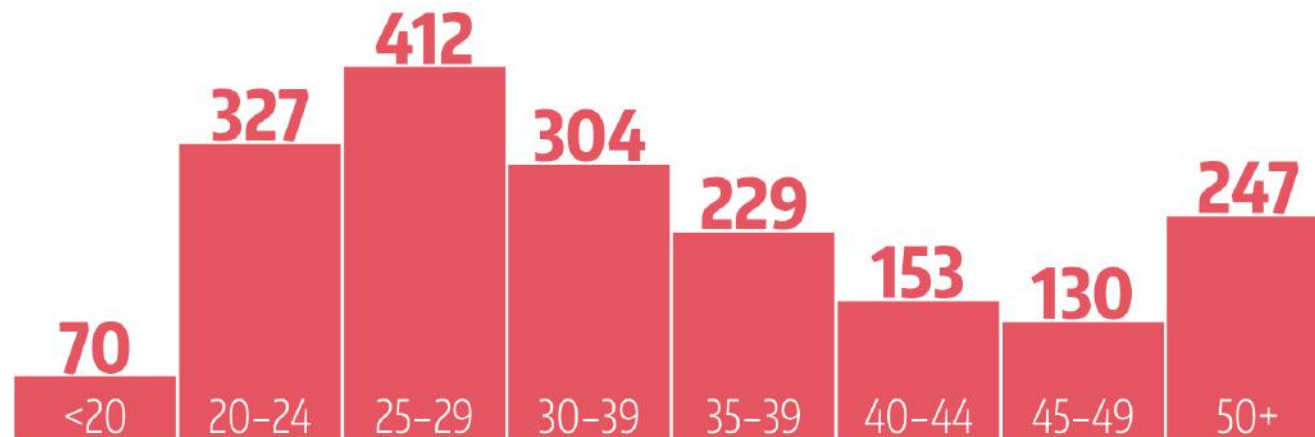
1st July 2017 to 30th June 2018 (inclusive)



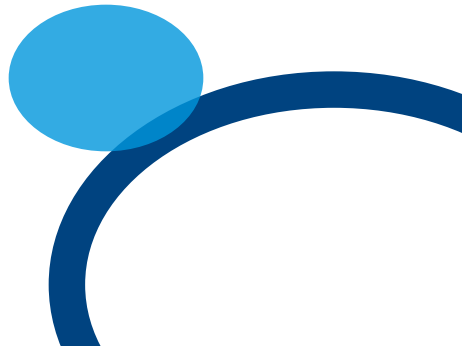
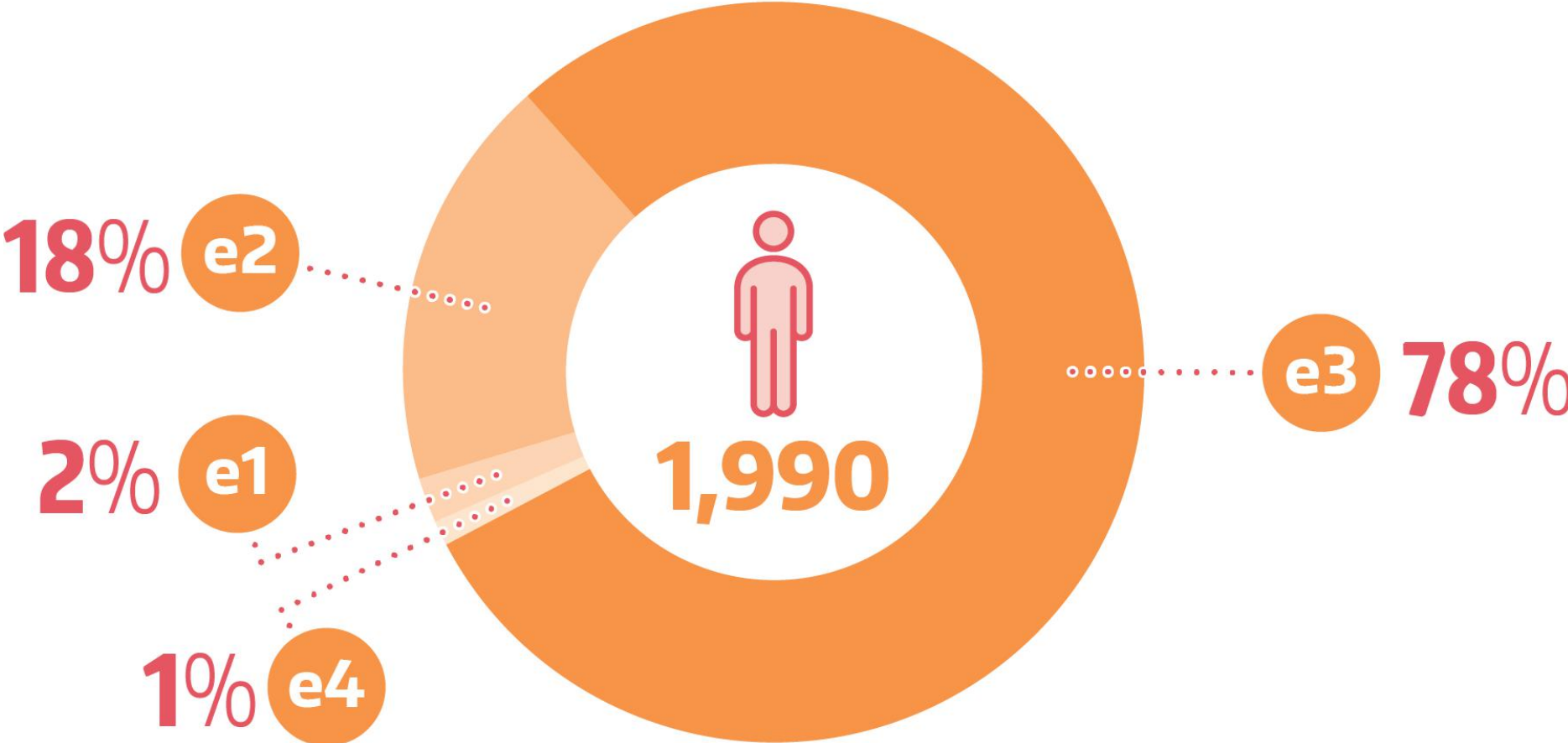
Results



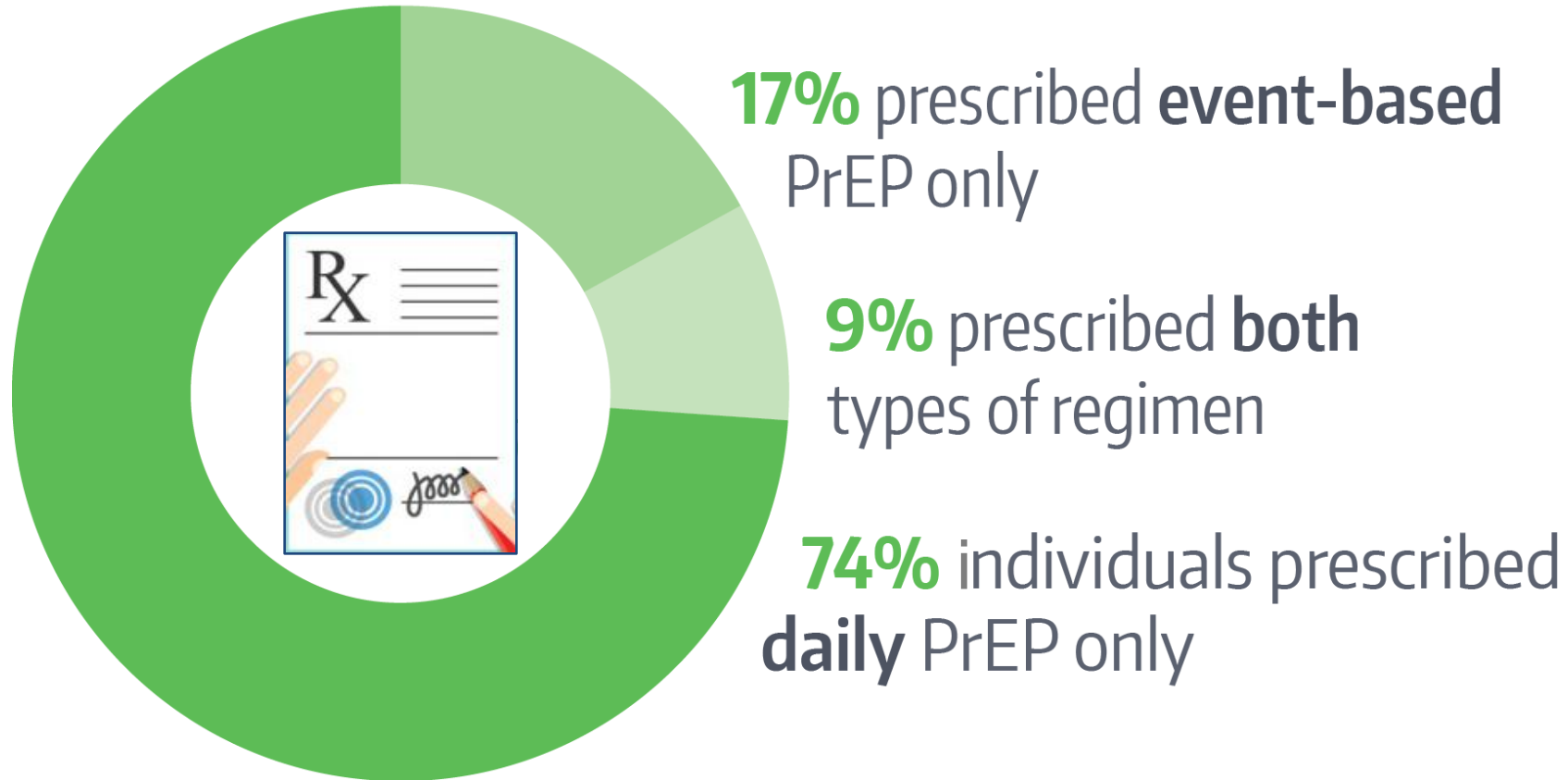
Age of PrEP recipients



Eligibility reasons



Type of PrEP regimen



17% prescribed **event-based** PrEP only

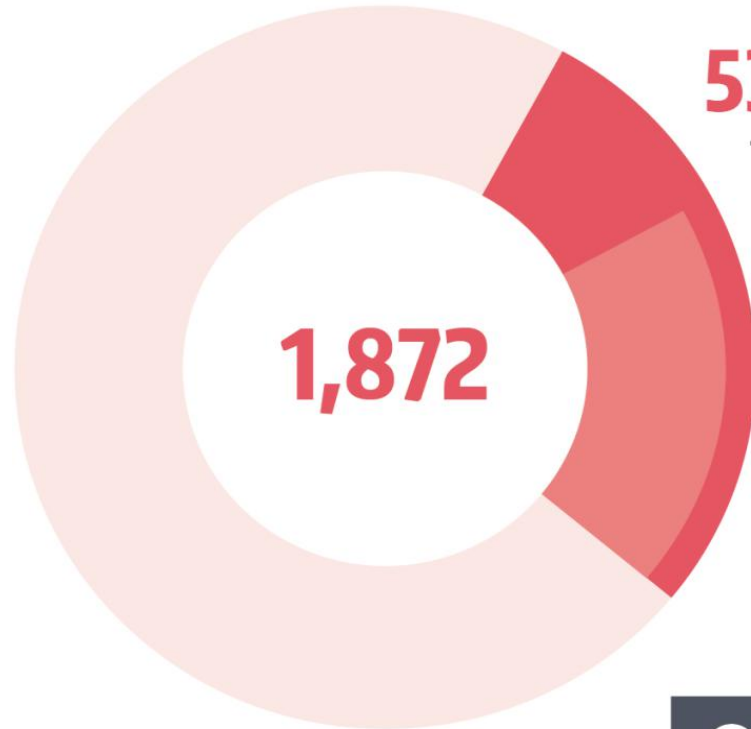
9% prescribed **both** types of regimen

74% individuals prescribed **daily** PrEP only



Service impact

Individuals prescribed PrEP



531 (28%) were attending for the first time in 2 years

356 (19%) had no prior recorded attendance on NaSH i.e. may never have attended clinic before !

! NaSH has been in use for up to 10 years in mainland NHS board clinics



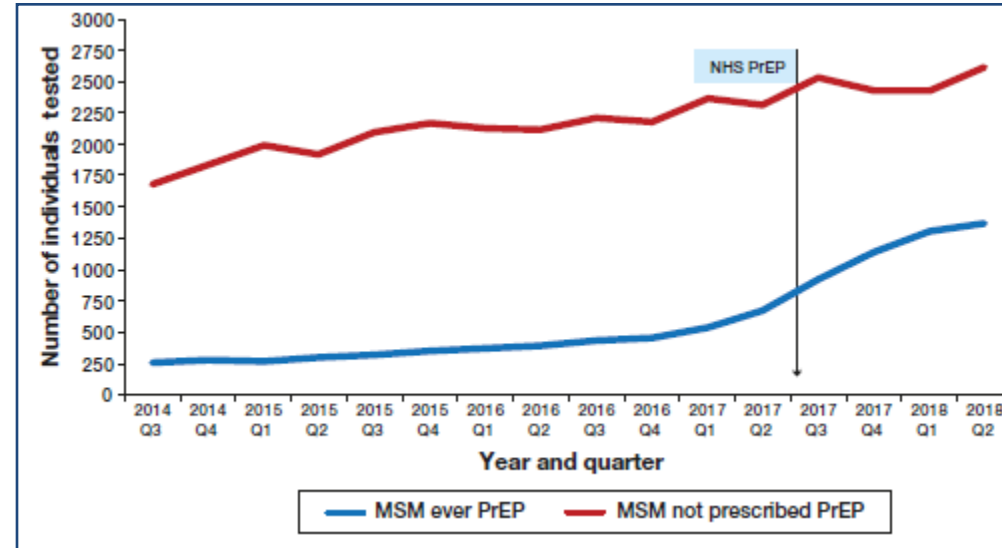
HIV testing and diagnoses

HIV testing

- 32% increase in HIV testing among MSM attending SHS in first year of PrEP

HIV diagnoses

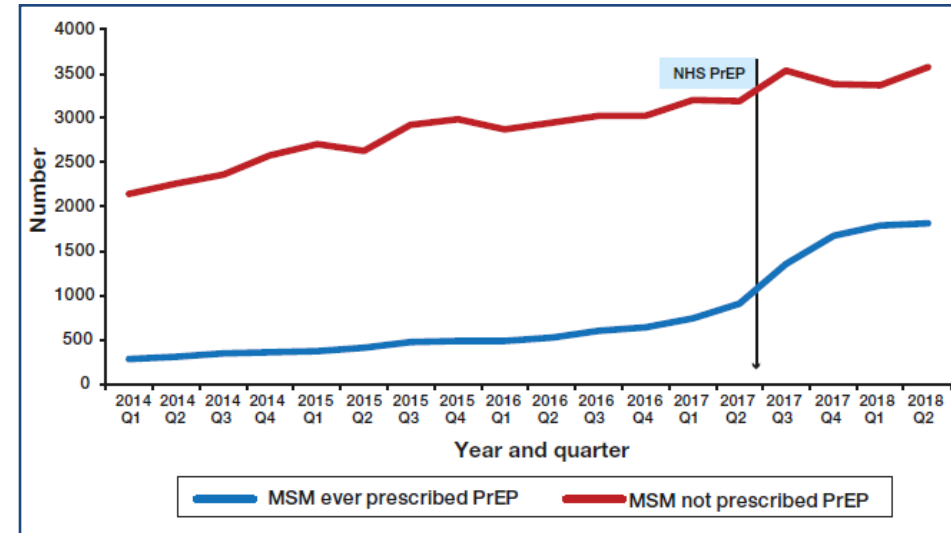
- Of MSM tested for HIV, 4 per 1,000 MSM were newly diagnosed positive in the year prior to NHS PrEP compared to 3 per 1,000 in the first year of PrEP. (Recent infection 1/1000 and 0.9/1000)
- Of the 1,846 MSM ever prescribed PrEP, 2 have become HIV+
- Precise incidence of HIV among MSM following initiation of PrEP still to be calculated to include the variable time of exposure for individuals
 - Many commenced PrEP during July- December 2017 i.e. around 1,000 person years of PrEP exposure; accordingly, the incidence of HIV among this group for first year of PrEP was approximately 2/1000



Gonorrhoea and chlamydia testing and diagnoses

Gonorrhoea testing

- Significant increase in GC (and CT) testing among MSM attending SHS in the first year of PrEP



Gonorrhoea diagnoses

Proportion (%) of GC+ episodes amongst MSM

	PrEP Period							
	2016 Q3	2016 Q4	2017 Q1	2017 Q2	2017 Q3	2017 Q4	2018 Q1	2018 Q2
All MSM	8.4 (7.4-9.4)	9.2 (8.2-10.2)	8.0 (7.1-8.9)	8.6 (7.7-9.6)	8.2 (7.4-9.1)	9.7 (8.8-10.7)	8.5 (7.7-9.4)	7.6 (6.8-8.4)
MSM not on PrEP	7.9 (6.9-9.0)	8.7 (7.6-9.8)	7.6 (6.6-8.6)	8.0 (7.0-9.0)	6.6 (5.8-7.5)	8.3 (7.3-9.3)	7.4 (6.4-8.3)	6.7 (5.8-7.6)
MSM ever prescribed PrEP*	11.2 (8.3-14.0)	11.6 (8.7-14.4)	9.7 (7.2-12.2)	11.1 (8.8-13.5)	13.3 (11.2-15.5)	13.4 (11.4-15.4)	11.1 (9.4-12.8)	9.7 (8.2-11.3)



Summary



- 1872 individuals were prescribed PrEP in Scotland in the first year
 - 99% male, 99% MSM, 78% CAI as eligibility reason
 - Three-quarters preferred a daily PrEP regimen
 - Around one fifth of those prescribed PrEP were likely attending sexual health services for the very first time
- Two people prescribed PrEP have seroconverted for HIV
- HIV and STI testing have increased following the availability of PrEP
 - Baseline rates of GC/CT infections are higher in those ever prescribed PrEP
 - Relative proportions of positive infections unchanged overall – so far...
- Limitations include: missing data, lower numbers of HIV infections in Scotland, deliberately simplistic initial analysis
- In July 2019 the Scottish PrEP programme will be two years old!
 - Future analyses will include ‘time spent on PrEP’, infectious syphilis and hepatitis C diagnoses, service impact



Uptake of HIV PrEP in sexual health services: Scotland, July 2017–June 2018

- 1,872 individuals with PrEP prescriptions
- 1,846 MSM
- 14 females
- 12 other/unknown
- 274 individuals coded as PrEP ineligible

Age of PrEP recipients

Age Group	Number
<20	70
20-24	327
25-29	412
30-39	304
40-44	229
45-49	153
50+	130
50+	247

Roll out of HIV PrEP in sexual health services

Service impact of PrEP

Individuals who were prescribed PrEP

- 1,872 individuals
- 531 (28%) were attending for the first time in 2 years
- 356 (19%) had no prior recorded attendance on NaSH i.e. may never have attended clinic before

NaSH has been in use for up to 10 years in mainland NHS board clinics

PrEP eligibility

Individuals can have as many eligibility codes as apply to them

- e1 PrEP Partner(s) HIV-positive with a detectable viral load
- e2 PrEP Documented bacterial rectal STI in the last 12 months
- e3 PrEP Condomless penetrative anal sex with 2 or more partners in last 12 months and risk likely in next 3 months
- e4 PrEP Equivalent high risk of HIV acquisition, as agreed with another specialist clinician

Total of 1,990 eligibility codes from 1,681 (90%) of those eligible

Proportion of individuals prescribed PrEP by choice of PrEP regimen

- 17% prescribed event-based PrEP only
- 9% prescribed both types of regimen
- 74% individuals prescribed daily PrEP only

1,747 (93% of 1,872)

18% e2, 2% e1, 1% e4, 78% e3

11 Taking PrEP is something I am not ashamed of and I think it's something which... personally think it's a very positive thing to do, because it's a positive action against something which potentially could end your life, and cause serious bother to other people.

Acknowledgements

“Numbers have an important story to tell. They rely on you to give them a voice...”

S Few

- Professor Claudia Estcourt
- Dr Lesley Wallace
- Dr Alan Yeung
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- Mr Duncan McMaster
- Dr Rak Nandwani
- Dr Andy Winter
- Dr Dan Clutterbuck
- Professor David Goldberg
- Members of Scottish PrEPMAR Group