

Using PrEP-to-need ratio to explore intersectional inequities in pre-exposure prophylaxis provision in Wales, UK

Fast-Track Cities 2024

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Background

HIV diagnoses reduced by 45% between 2015 and 2022 in Wales (UKHSA, 2023)



PrEP launched in Wales – 2017 (Pre-exposure prophylaxis for HIV)



Emerging inequities in PrEP provision



Wales was the first UK nation to pledge to end new transmissions of HIV by 2030







Aim: To evaluate equity of access to PrEP using routine data in Wales, 2022

PrEP to Need Ratio (PnR)



N° people prescribed **Prep**

N° people diagnosed with HIV

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Aim: To evaluate equity of access to PrEP using routine data in Wales, 2022

Equity ratio



PnR

PnR

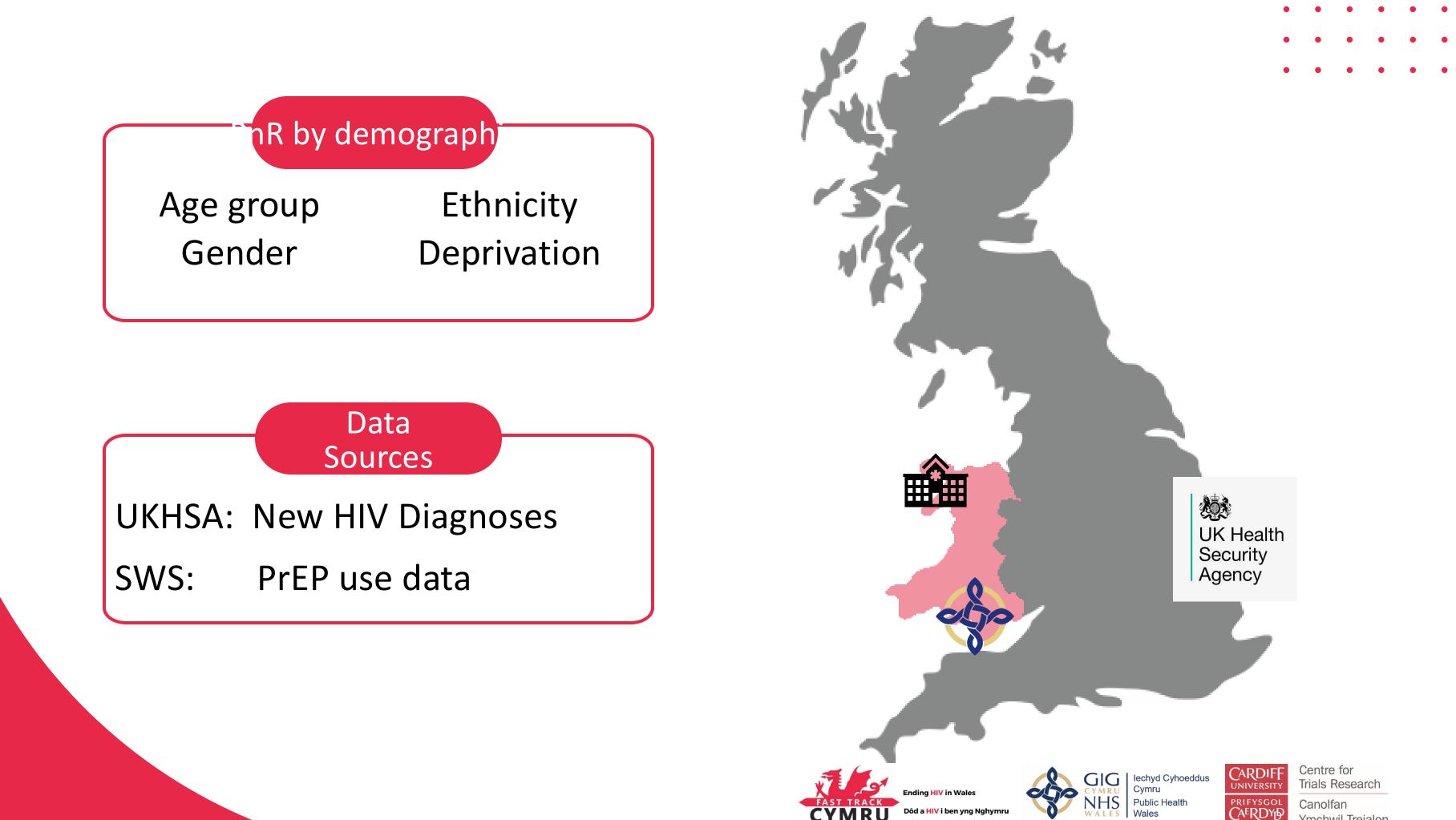
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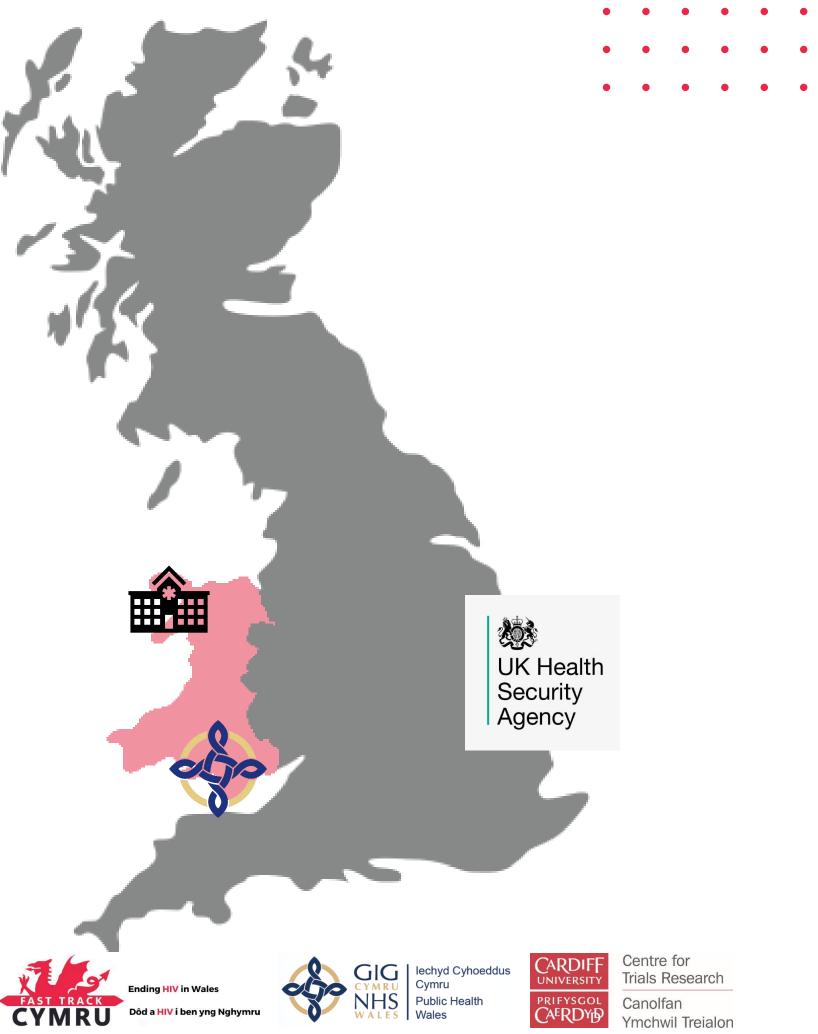


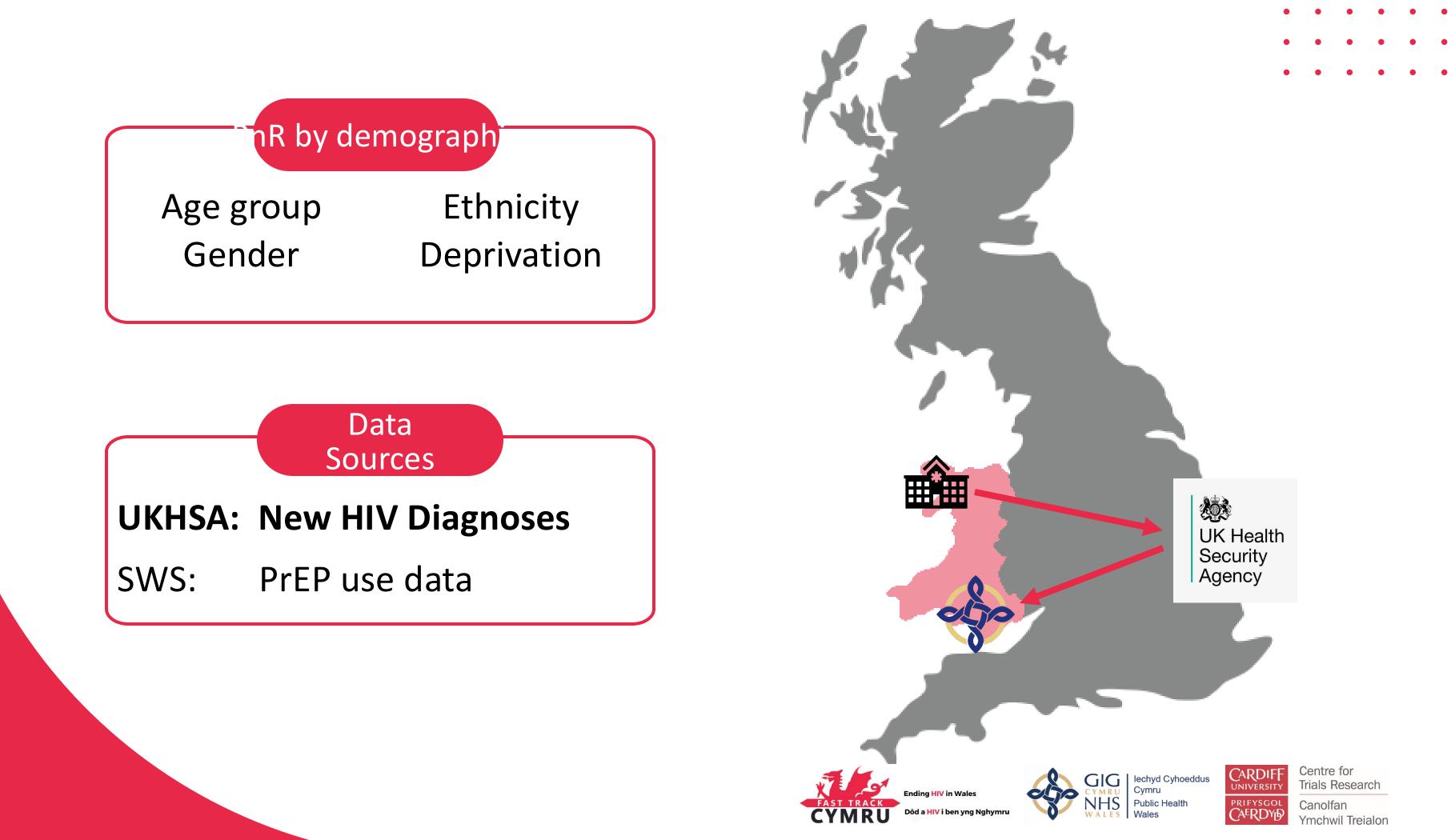
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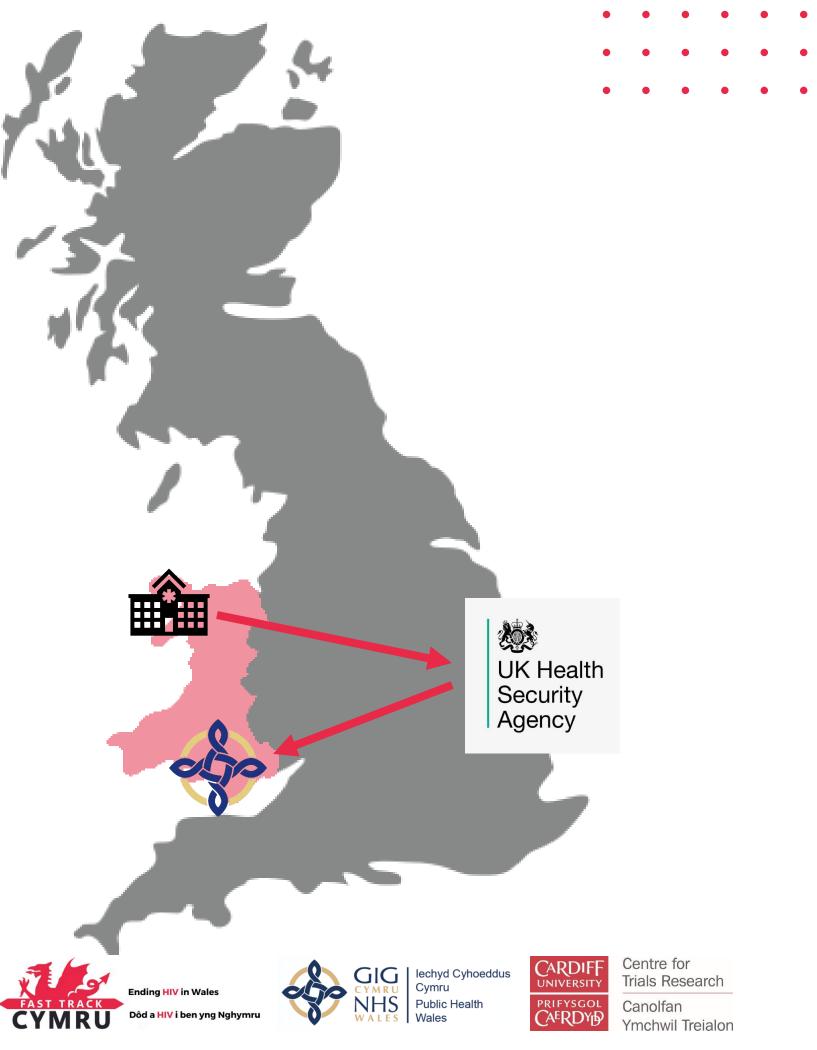


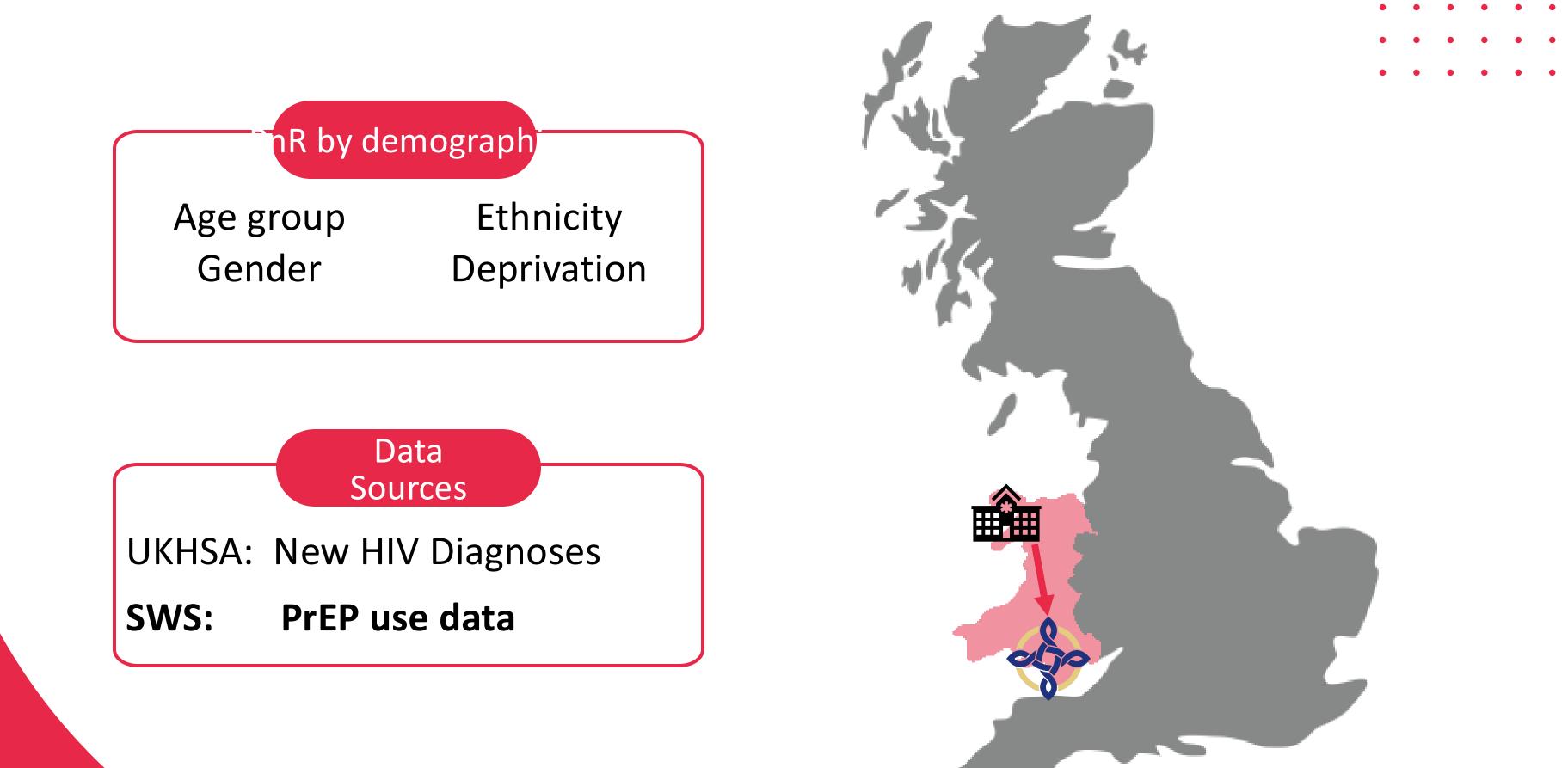
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Results

In Wales, 2022:



2155

People prescribed PrEP

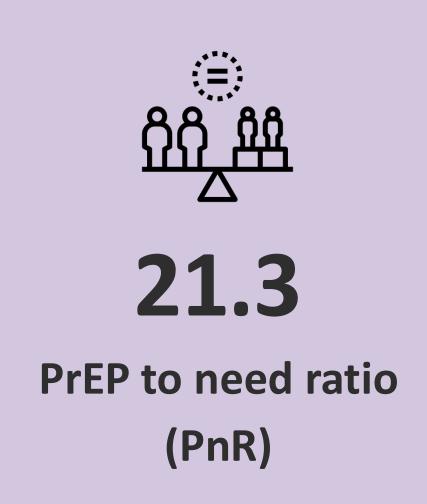


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People newly diagnosed with HIV







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WALESPublic Health
Wales



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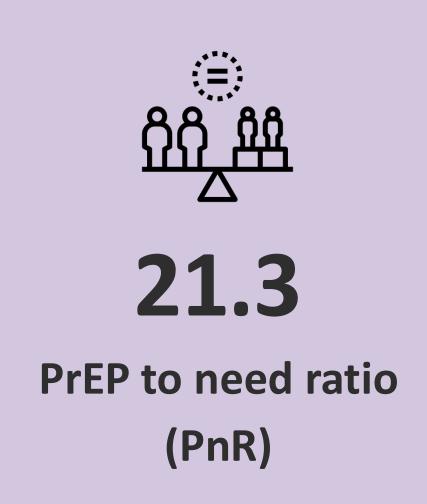


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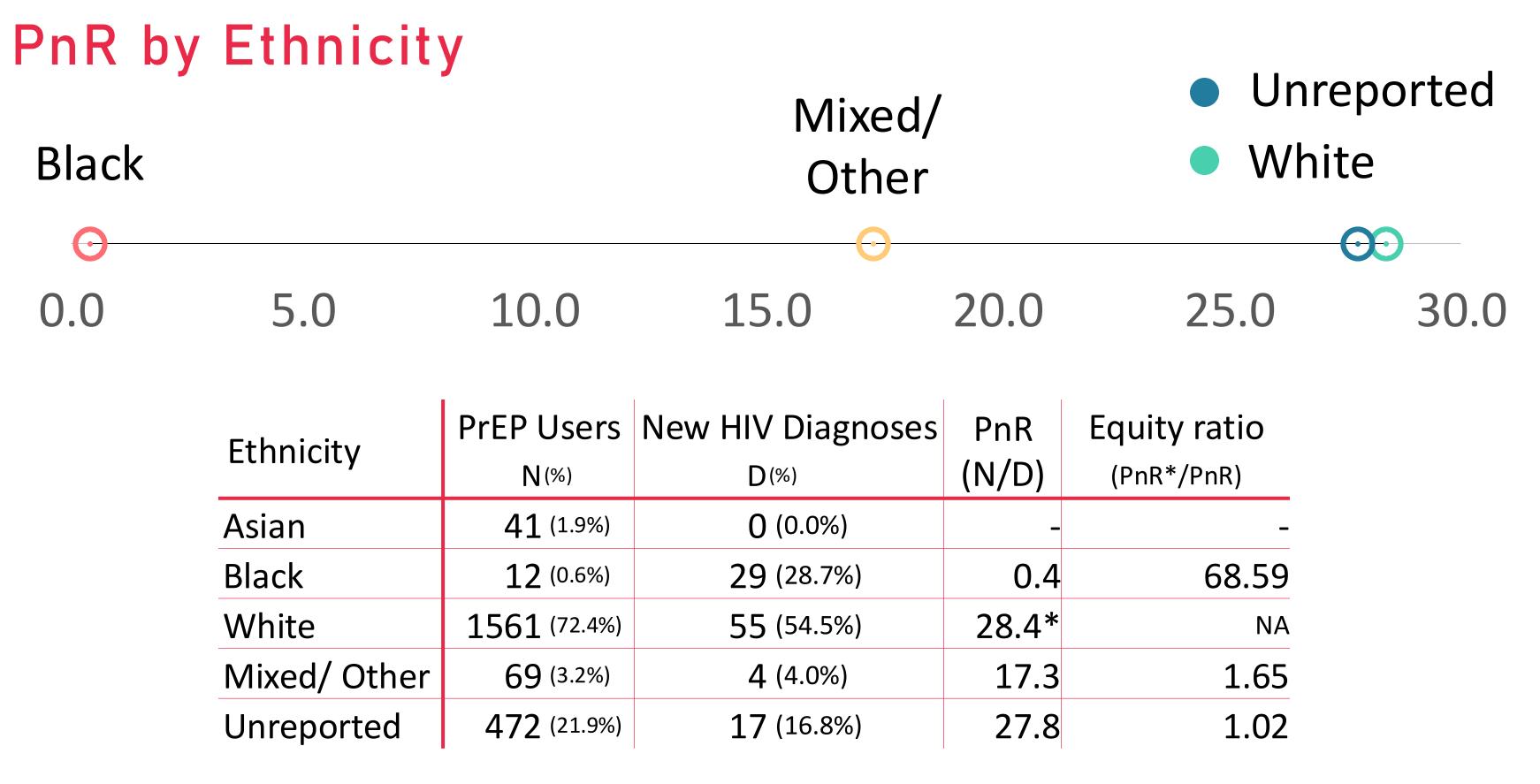
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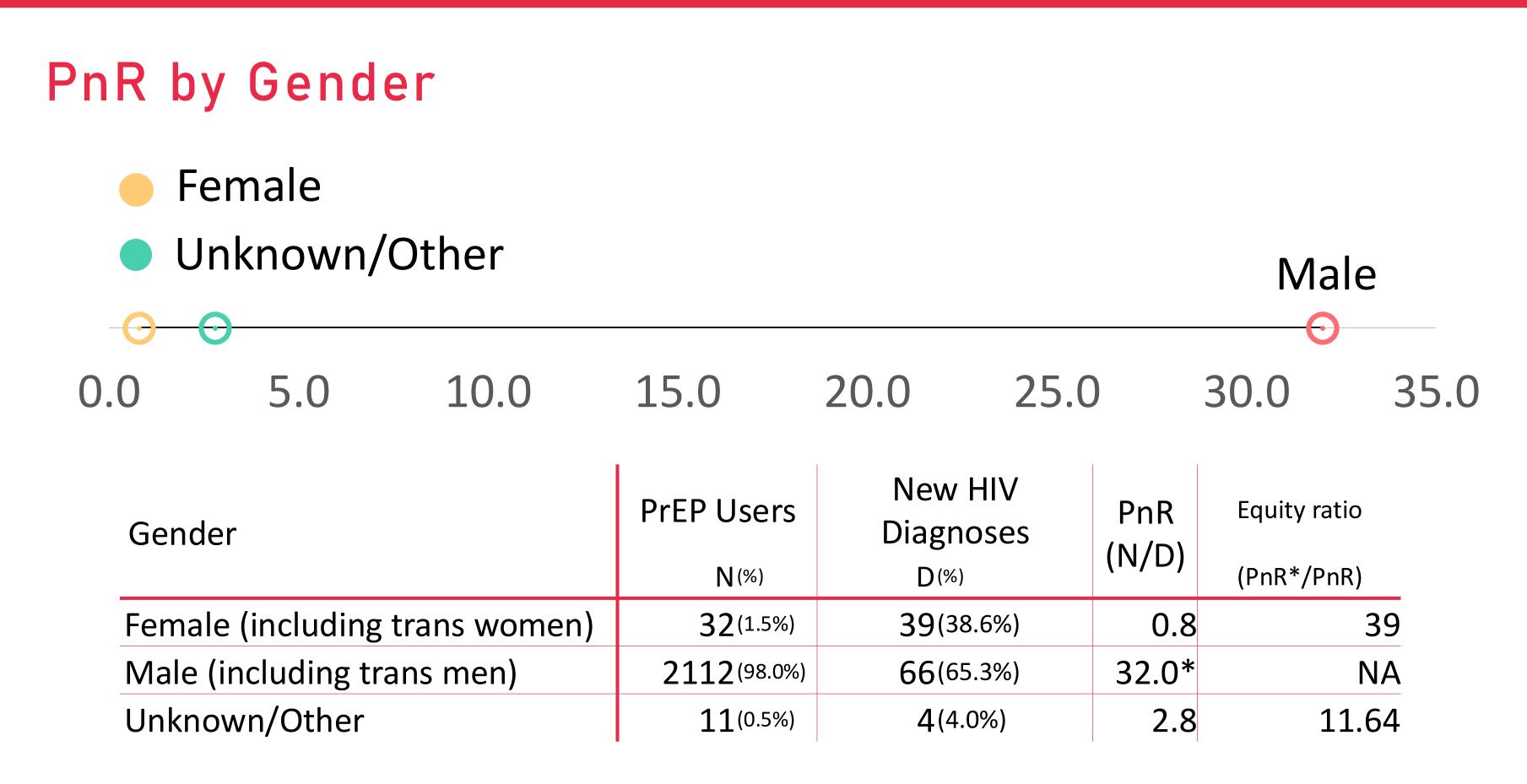
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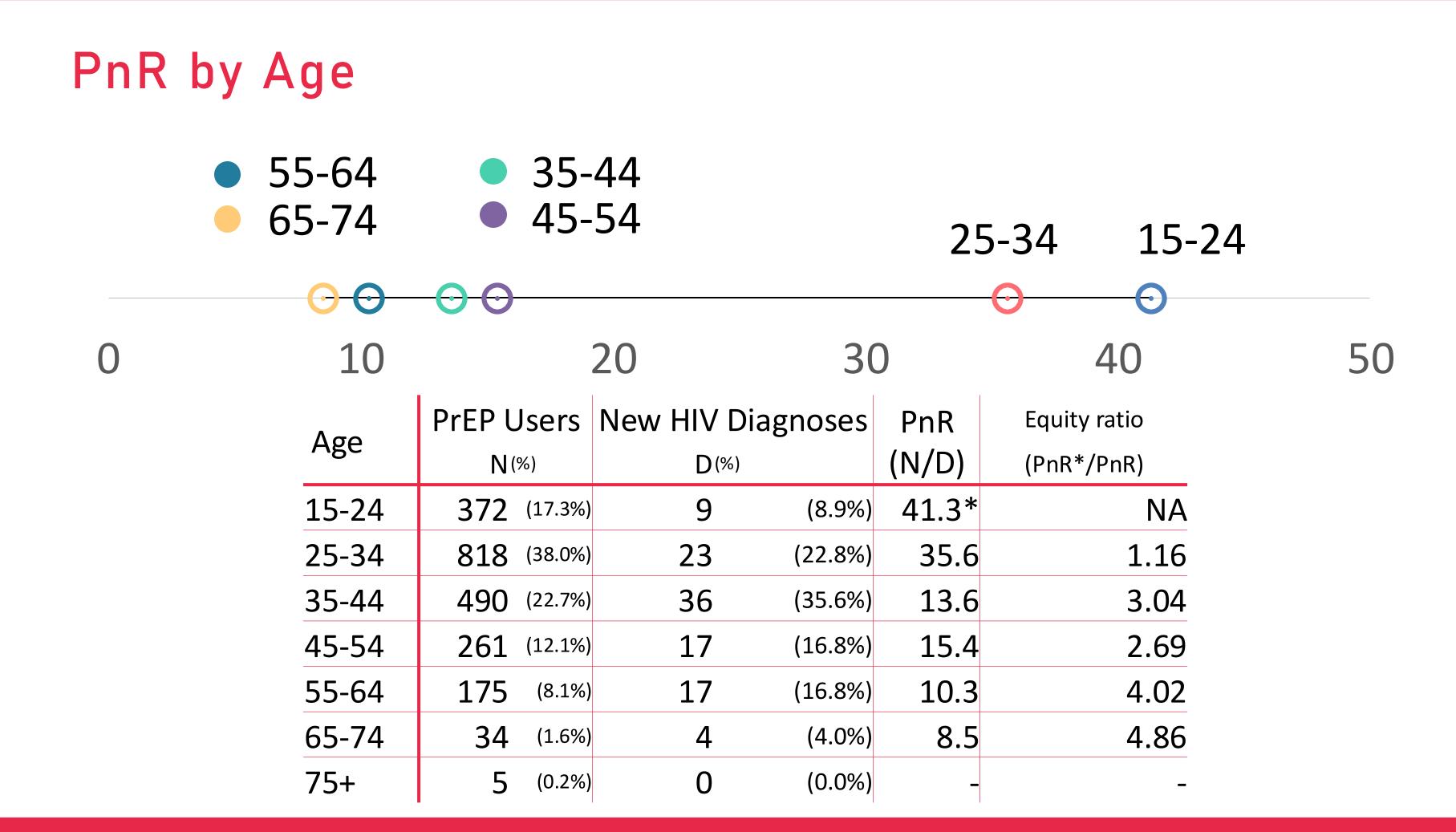
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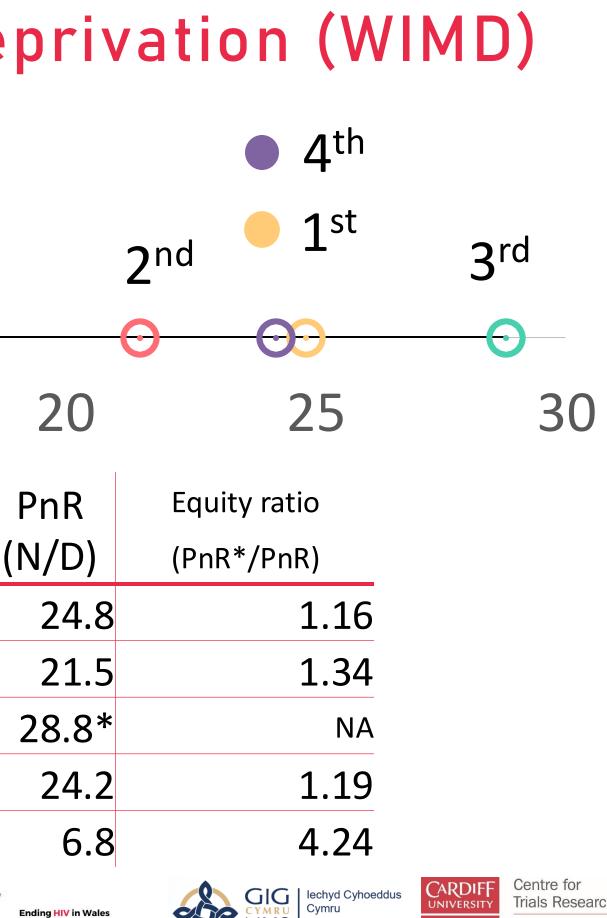
PnR by Welsh Index of Multiple Deprivation (WIMD) Quartiles

Unknown/NA

0

| C | | | |
|---------------------|--------------------------------|-------------------|---|
| 5 | 10 | 15 | |
| WIMD by quartile | PrEP Users N ^(%) | New HIV Diagnoses | (|
| 1 (most deprived) | 595 (27.6%) | 24 (23.8%) | |
| 2 | 537 (24.9%) | 24 (23.8%) | |
| 3 | 489 (22.7%) | 16 (15.8%) | |
| 4 (least deprived) | 412 (19.1%) | 17 (16.8%) | |
| Unknown/NA | 122 (5.7%) | 18 (17.8%) | |





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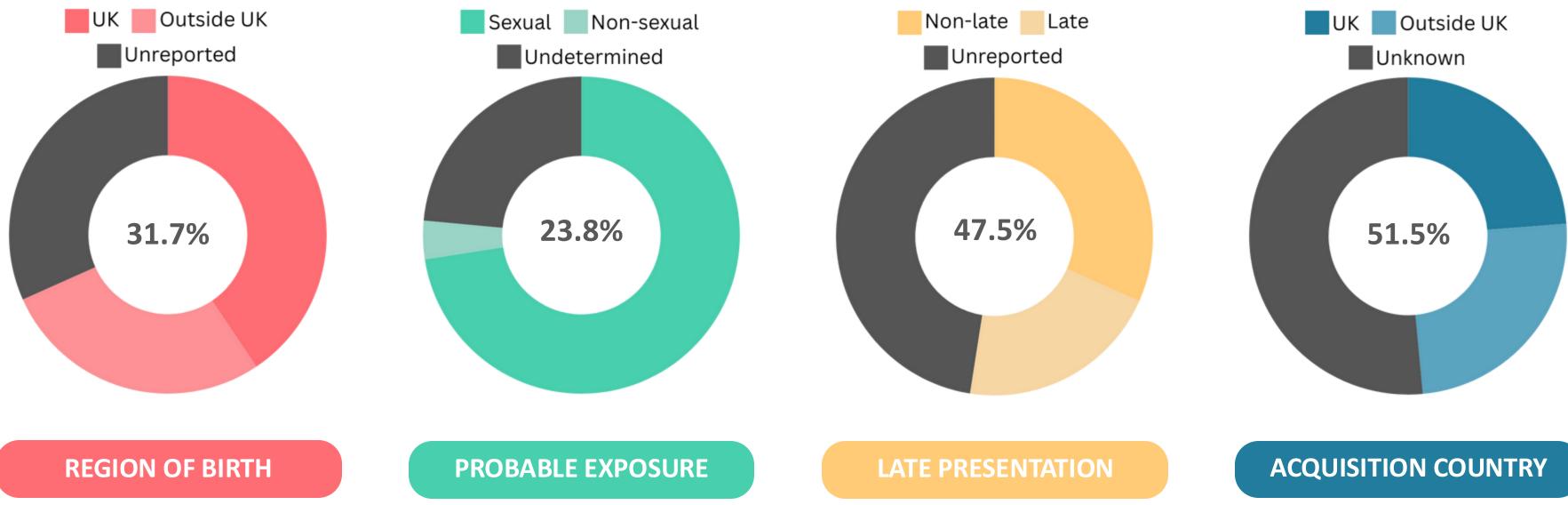


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Sensitivity analyses Strengthening the denominator





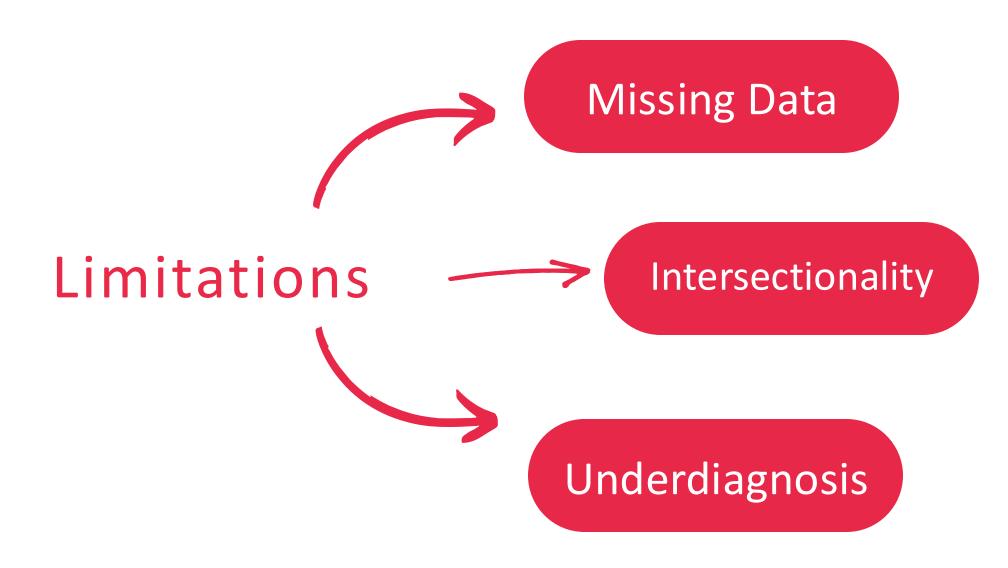
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Implications

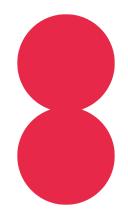
Identified equity gaps

Similar equity patterns – USA & England (Siegler et al, 2018) (Coukan et al, 2024)

Next Steps

Estimated PrEP need

Test and Post users Sexual health clinic users



QUESTIONS?

- UK Health Security Agency. HIV new diagnoses, AIDS, deaths and people in care, country and region tables, United Kingdom. Version 1: 2023.
- Siegler AJ, Mouhanna F, Giler RM, Weiss K, Pembleton E, Guest J, Jones J, Castel A, Yeung H, Kramer M, McCallister S. The prevalence of pre-exposure prophylaxis use and the pre-exposure prophylaxis-to-need ratio in the fourth quarter of 2017, United States. Annals of epidemiology. 2018 Dec
- Coukan F, Sullivan A, Mitchell H, Jaffer S, Williams A, Saunders J, Atchison C, 3 Ward H.

Impact of national commissioning of pre-exposure prophylaxis (PrEP) on equity of access in England: a PrEP-to-need ratio investigation. Sexually Transmitted Infections. 2024 May



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