Current Trends in Children with HIV Diagnosed in the UK and Ireland

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Background

- Incidence of mother-to-child HIV transmission has declined to <0.3% among diagnosed HIV-positive pregnant women delivering in the UK and Ireland (UK/I).
- An increasing proportion of children diagnosed with HIV in the UK/I were born abroad.

Aims

- To describe trends in the characteristics of children at time of HIV diagnosis in the UK/I from 2000-2015.
- To project the number of patients entering/remaining in paediatric HIV care up to 2020 to inform future service needs.

Results

- 1528 children were diagnosed as HIV-infected in UK/I from 2000-2015 (born 1984-2015), 65% were born abroad (Figure 1).
- Children born abroad were older at time of diagnosis (Table 1).
- Age at diagnosis declined over time, irrespective of place of birth
 - **Children born in UK/I:** median age declined from 9mth [IQR: • 3mth, 3y] among those born 2000-05 to 6mth [2mth, 2y] in 2006- 60% 2010 and 3mth [0.5y, 1y] among those born \geq 2010.
 - Children born abroad: median ages were 6y [3y, 9y], 4.7y [2y, 7y] 40% and 3y [2y, 3y] respectively.
- Proportion of children with AIDS at diagnosis declined significantly from 26% in diagnoses 2000-03 to 2% in 2012-15. Proportion with CDC B symptoms also fell from 34% to 11% respectively (*p*<0.001).

Table 1: Characteristics at time of diagnosis by place of birth

	Born UK/I (n=529)	Born abroad (n=999)	<i>p</i> -value
Acquisition: vertical	511 (98%)	858 (97%)	0.14
Sex: female	302 (57%)	502 (51%)	0.02
Ethnicity: Black African	375 (72%)	888 (90%)	<0.001
 Maternal diagnosis Before pregnancy During pregnancy After pregnancy 	(n=497) 35 (7%) 69 (14%) 393 (79%)	(n=824) 12 (2%) 20 (3%) 792 (96%)	<0.001
 Reason for diagnosis Child symptomatic Maternal screening Other family member dx 	(n=520) 202 (38%) 153 (29%) 165 (31%)	(n=934) 399 (40%) 84 (9%) 451 (46%)	<0.001
Median age at diagnosis, years [IQR]	1.4 [0.3,4.9]	8.5 [5.3,11.9]	<0.001
AIDS at diagnosis	128 (24%)	141 (14%)	<0.001

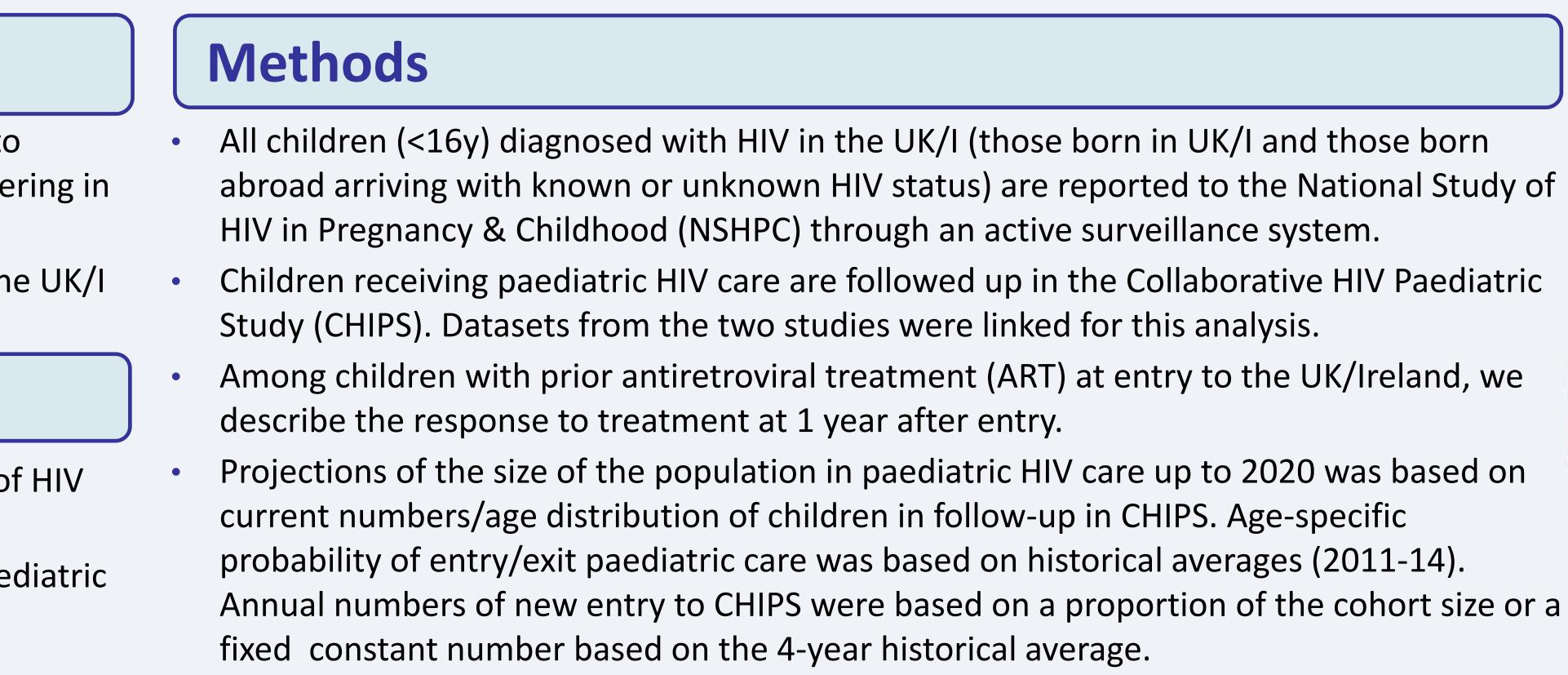
Funding and ethics

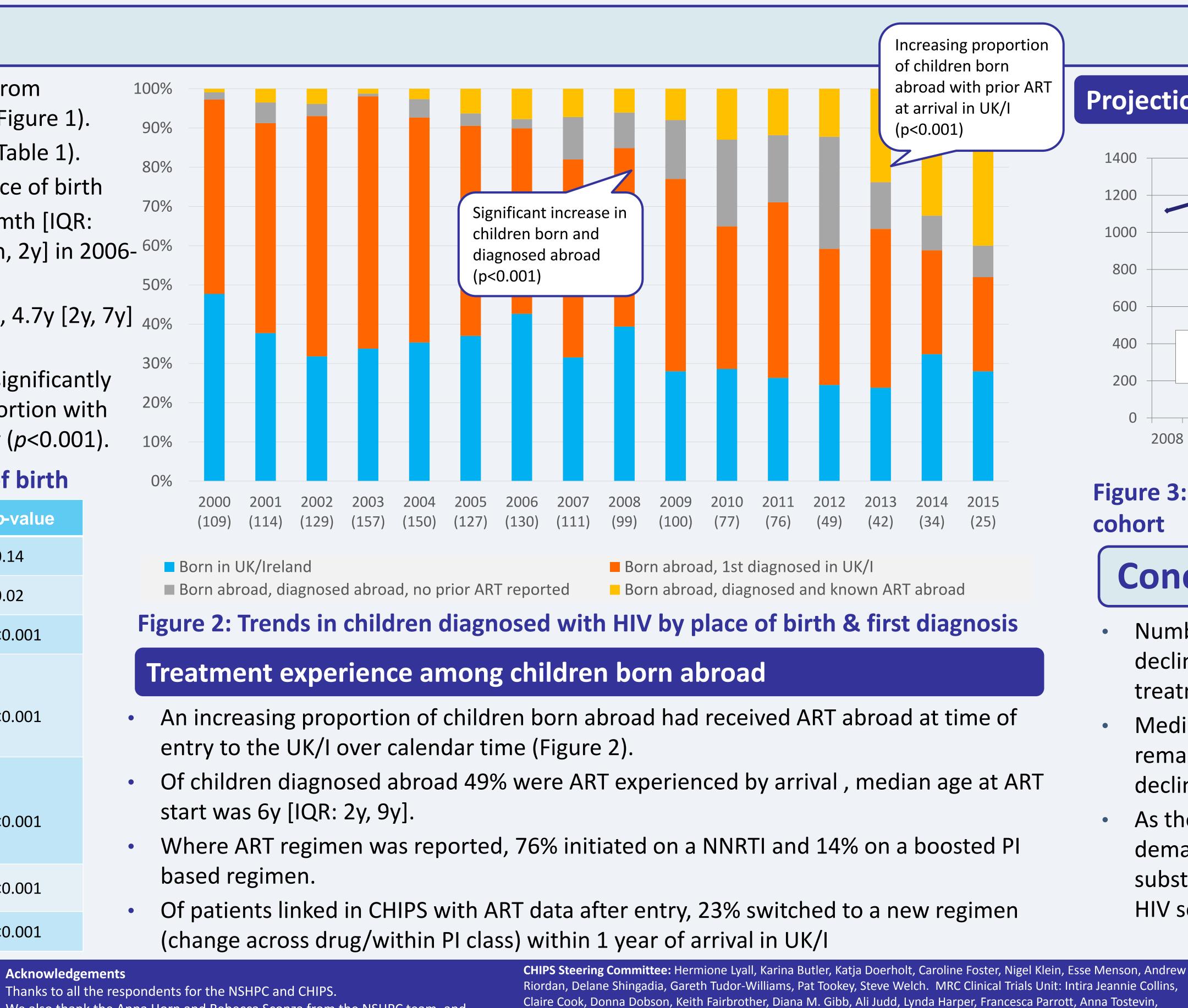
Abbott, and Gilead Sciences.

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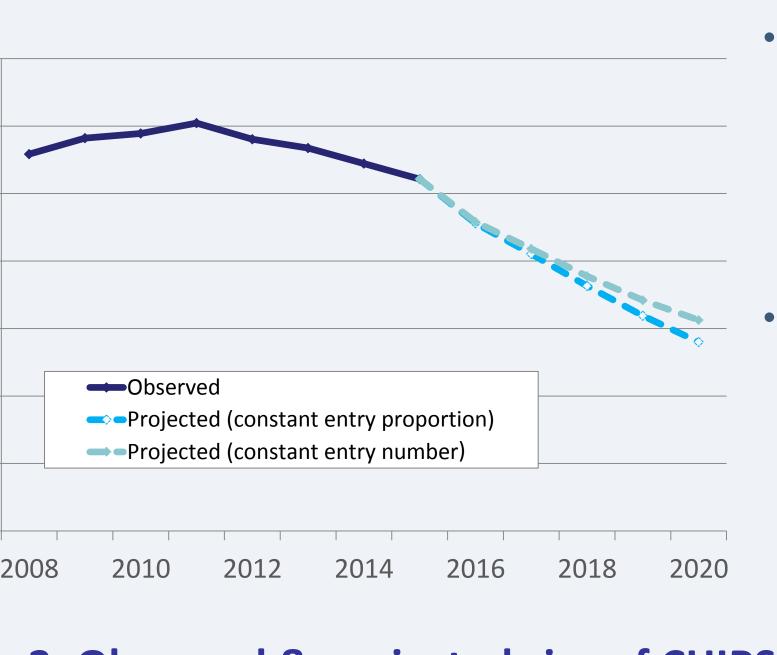




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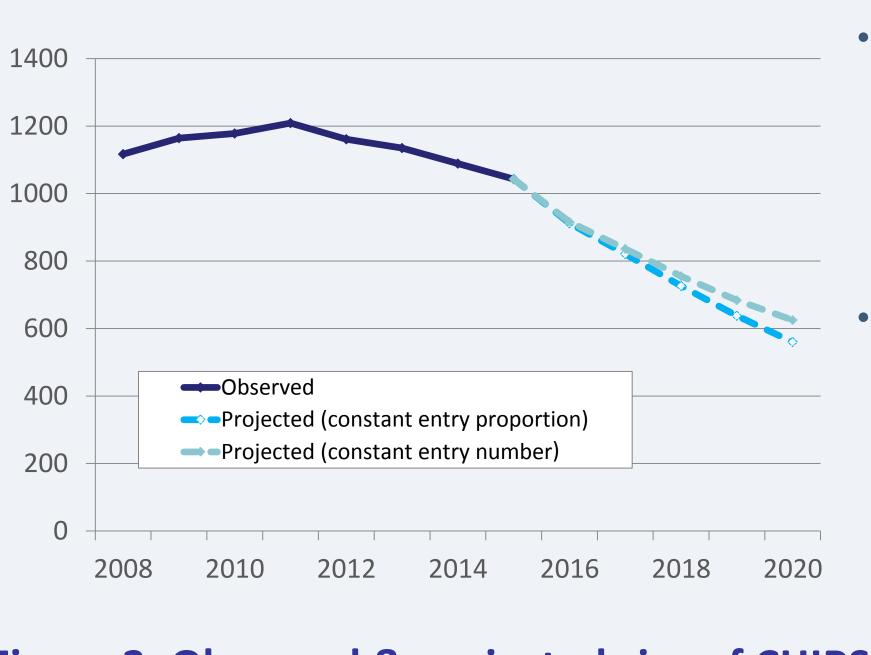


Figure 3: Observed & projected size of CHIPS cohort

born UK/I

diagnose

abroad

525/529

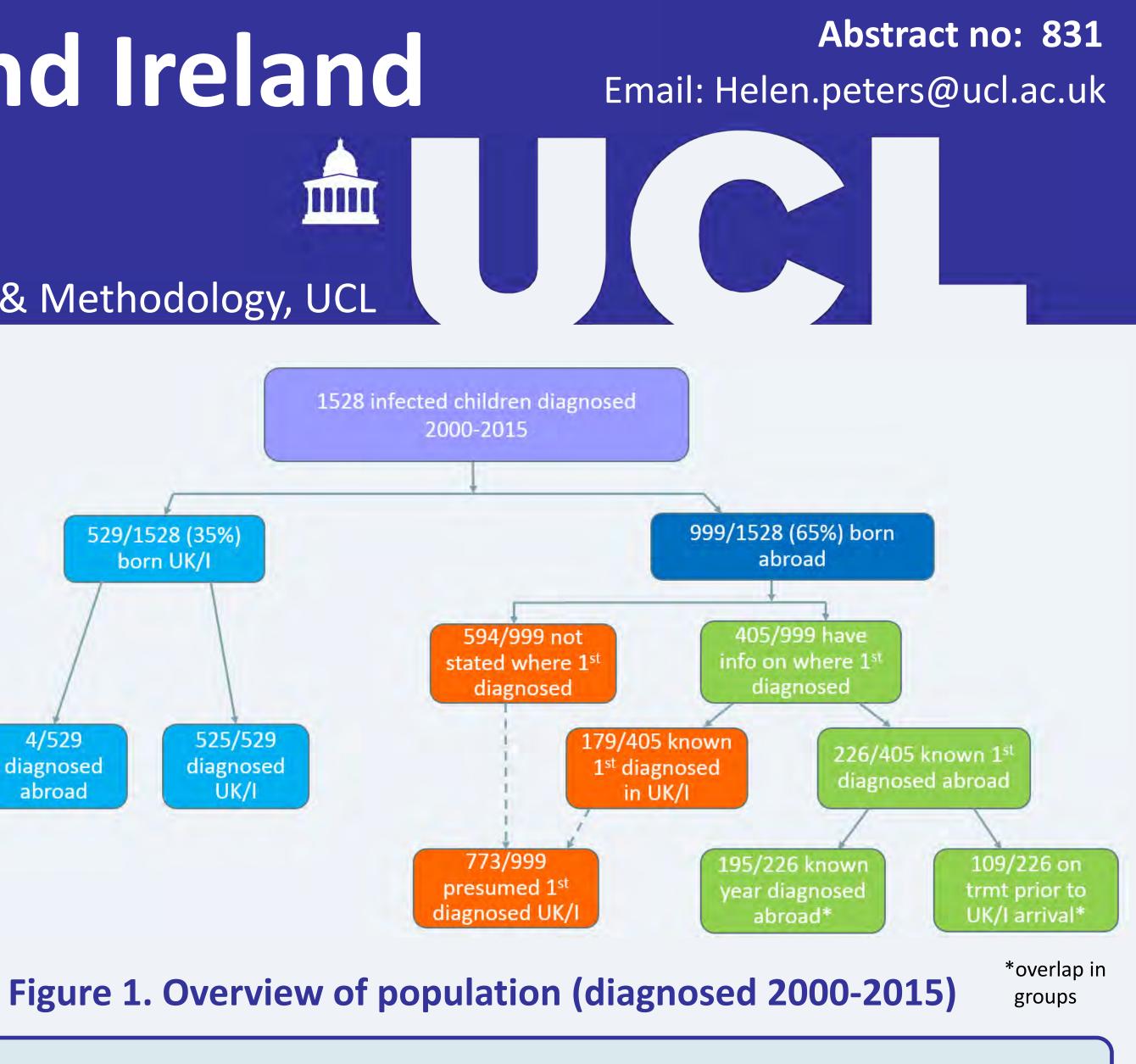
diagnosed

UK/I

Conclusions

- treatment experienced at arrival.
- As the cohort matures and children transition to adult care, the demand for paediatric HIV services is expected to reduce substantially in the next five years while need for adolescent-targeted HIV services will increase.

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Projections of paediatric HIV cohort

- As the CHIPS cohort mature, an increasing proportion of patients are transferring to adult care.
 - Assuming the numbers of new patients entering paediatric HIV care continue to decline or remain at a constant average, it is estimated that the cohort will halve in size by 2020.

• Numbers of newly diagnosed children in the UK & Ireland continue to decline, with increasing proportions of children born abroad and

Median age at diagnosis has decreased significantly, although this remains higher for children born abroad. An encouraging trend is the declining proportion presenting with CDC B/C symptoms.

