Follow-up status of HIV exposed infants in the UK 2012-2019

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BACKGROUND

- The current vertical HIV transmission (VT) rate is <0.3% among diagnosed women living with HIV (WLHIV) in the UK; this rate excludes a few children whose status remains unknown for various reasons
- British HIV Association (BHIVA) 2012-2018 guidelines state that all HIV-exposed infants should be tested at age ≤48 hours, 6 and 12 weeks with antibody testing for seroreversion at age 18-24months ('18-24Ab'). Even if earlier PCR tests are negative, the 18-24Ab remains important as postnatal transmission may occur (NB: 2020 guidelines recommend AB at 22-24months) www.bhiva.org/pregnancy-guidelines
- We describe current paediatric management and the follow-up status of HIV-exposed infants in the UK

METHODS

- The Integrated Screening Outcomes Surveillance Service (ISOSS) conducts surveillance on behalf of the NHS Infectious Diseases in Pregnancy Screening Programme
- ISOSS conducts UK population-level surveillance of all pregnancies in WLWH, their children, plus any children diagnosed <16years
- All HIV-exposed children are followed-up until 18-24 months to determine infection status. Reports are triangulated with laboratory reports from PHE. We report the follow-up status of 6547 HIV-exposed children born 2012-2018, reported by December 2019

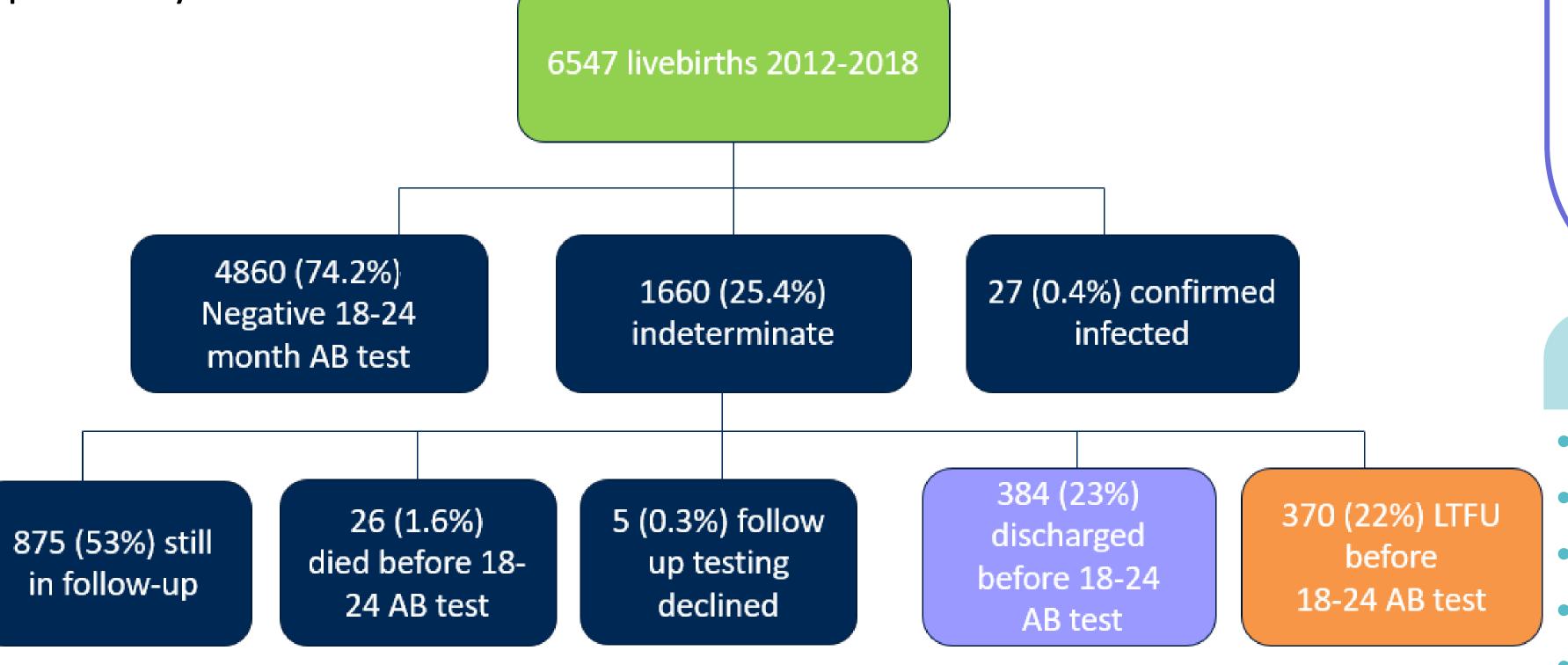


Figure 1: HIV-exposed infants born 2012-2018 in the UK

RESULTS

Overall, 4860 (74%) children were confirmed uninfected based on a negative 18-24Ab; 861 (13%) are indeterminate and in follow-up; 27 (0.4%) were confirmed infected. 370 (5.7%) infants were lost-to-follow-up (LTFU) before 18-24Ab established (Figure 1).

Infants lost to follow-up before 18-24mth AB test

Of the 370 infants LTFU with unknown infection status:

- 67/370 had only a birth PCR test: 16/67 were reported as 'gone abroad'
- 303/370 had 6 or 12 week PCR test: 43/303 were reported as 'gone abroad'

No change over time: 50-80 infants LTFU per year

Table 1: Regional distribution of infants LTFU < '18-24Ab'</th>RegionNo. of infants (%)Midlands & East of England101 (28%)London138 (37%)North58 (16%)South46 (12%)Wales/Scotland/Northern Ireland27 (7%)

Infants discharged before 18-24 month AB test

384/6547 (6%) HIV-exposed infants were discharged under 18 months of age.

- 313/384 (82%) of these were discharged with a negative antibody >18mths

71/384 (18%) infants were discharged based on negative PCRs only:

- 11/71 discharged at under 12 months of age
- 40/71 discharged between 12-18 months of age
- 20/71 discharged without antibody testing

Table 2: Infants discharged based on negative AB <18-24mth

	Region	No. of infants (%)
	Midlands & East of England	74 (23%)
	London	89 (28%)
	North	50 (16%)
	South	62 (20%)
	Wales/Scotland/Northern Ireland	20 (6%)

Increasing number of infants are being discharged per year with negative AB test <18 months of age

- 2012-2015: 30-50 infants/year
- 2016-2017: 60-70 infants/year

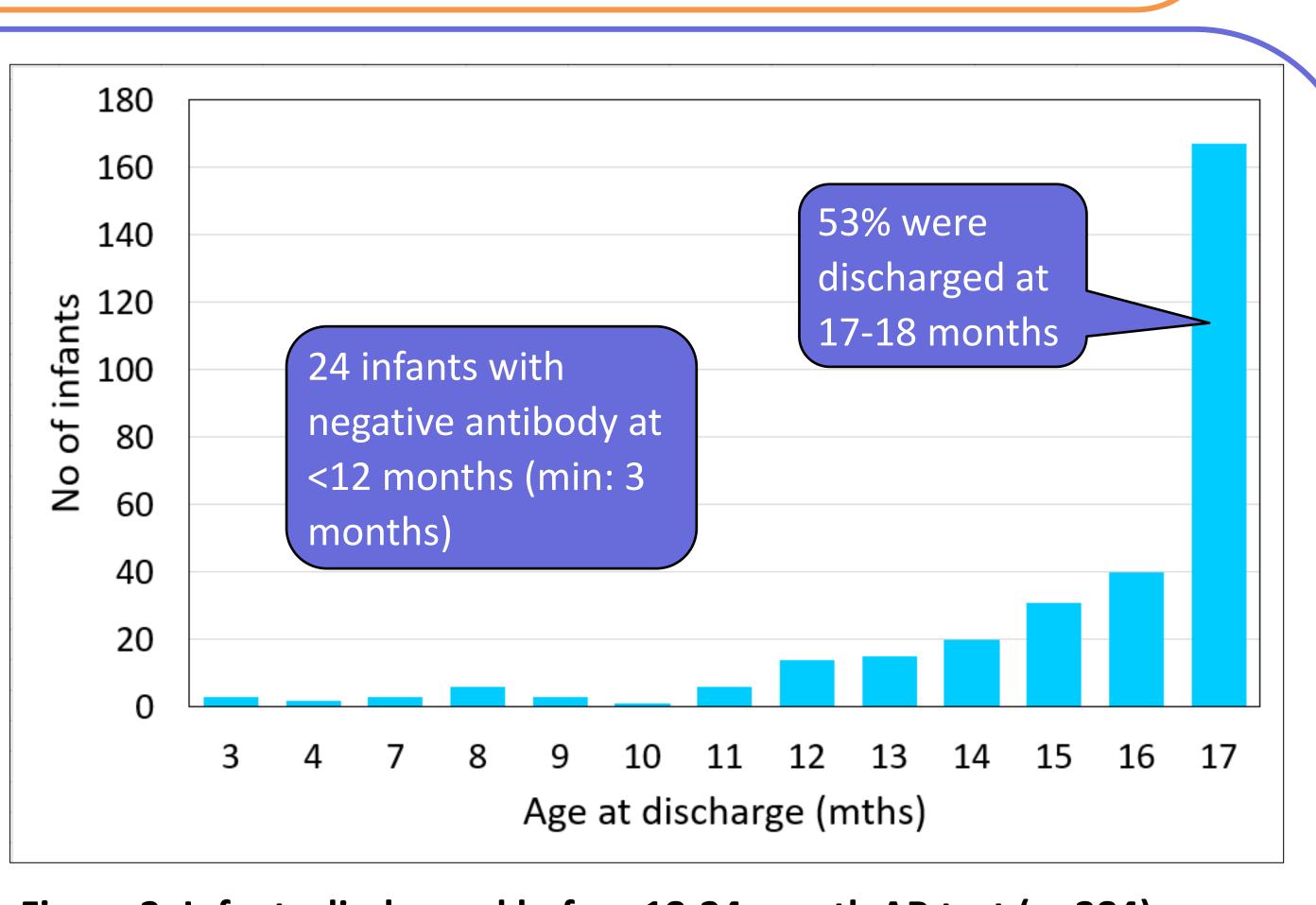


Figure 2: Infants discharged before 18-24 month AB test (n=384)

CONCLUSIONS

- Despite well-established guidelines and pathways for HIV-exposed infants follow-up there remains variation in practice and deviation from BHIVA guidelines
- Findings shown have been highlighted through ISOSS paediatric network and also fed back to BHIVA and guidelines now updated
- ISOSS is uniquely placed to monitor outcomes and practice across units and regions, including the impact of COVID-19 on clinic scheduling and attendance
- Further work is required to investigate possibility of inequalities and/or barriers to care in the lost to follow up group
- Vigilance is required regarding potential postnatal transmission, especially in the era of supported breastfeeding in the UK. Full report to be published 2021

