

2012 Review: (n = 38)**Rollins et al. Sex Trans Infect 2012**Years covered: 1990-2012
→ Studies excluded (n = 7)^A

Studies included in final meta-analysis (n = 30)

2015 Review: (n = 49)**Mahy et al. AIDS 2017**Years covered: 2012-2015
→ Studies excluded (n = 13)^B

Studies included in final meta-analysis (n = 36)

2018 Review: (n = 23)**Stover et al. AIDS 2019**Years covered: 2015-2018
→ Studies excluded (n = 2)^C

Studies included in final meta-analysis (n = 20)

*Previous reviews informed the 2024 review approach***2024 Systematic Review**

1 January 2018 to 8 February 2024

Studies from databases/registers (n = 12,588)

Embase (n=4673)
PubMed (n=3878)
Global Health (n=1859)
CINAHL (n=1311)
CENTRAL (n=770)
World Health Organization (WHO) (n=97)

Duplicates removed (n = 5,858)

Titles and abstracts screened (n = 6,730)

Titles and abstracts excluded (n = 6,306)

Full texts assessed for eligibility (n = 424)

Studies excluded (n = 400)

Primary reason for exclusion:

- Study aggregated heterogeneous groups, primarily on ART use (n=172, 43%)
- Wrong HIV test time, or wrong paediatric age group (n=87, 22%)
- Full text not available (n=56, 14%)
- Wrong study design (n=48, 12%)
- Rate of MTCT not reported (n=32, 8%)
- Birthing persons were co-infected with HIV and another illness (n=5, 1%)

Studies from 2024 review that were extracted and added to the meta-analysis (n = 24)

Total number of studies included in the final 2024 meta-regression (n = 110)**Model 1 (n = 17)**
Untreated WLHIVPrevious review (2018) (n = 15)
Added in 2024 (n = 2)
Region
ESA (n = 9)
WCA (n = 2)
AP (n = 1)
WCENA (n = 2)
MENA (n = 1)
Multiple regions (n = 2)**Model 2 (n = 58)**
Seroconversion and short course PMTCTPrevious review (2018) (n = 53)
Added in 2024 (n = 5)
Region
ESA (n = 41)
WCA (n = 6)
LAC (n = 1)
AP (n = 4)
WCENA (n = 3)
Multiple regions (n = 3)**Model 3 (n = 57)**
Lifelong ART, perinatal VTPrevious review (2018) (n = 39)
Added in 2024 (n = 18)
Region
ESA (n = 23)
WCA (n = 2)
LAC (n = 1)
AP (n = 5)
WCENA (n = 23)
Multiple regions (n = 3)**Model 4 (n = 16)**
Lifelong ART, breastfeeding VTPrevious review (2018) (n = 11)
Added in 2024 (n = 5)
Region
ESA (n = 12)
WCENA (n = 2)
Multiple regions (n = 2)**VLS (n = 15)**
VL at deliveryPrevious review (2018) (n = 11)
Added in 2024 (n = 4)
Region
ESA (n = 3)
AP (n = 1)
WCENA (n = 11)