Baggaley, RF; Owen, BN; Silhol, R; Elmes, J; Anton, P; McGowan, I; van der Straten, A; Shacklett, B; Dang, Q; Swann, EM; +2 more... Bolton, DL; Boily, MC; (2018) Does per-act HIV-1 transmission risk through anal sex vary by gender? An updated systematic review and meta-analysis. American journal of reproductive immunology (New York, NY. e13039. ISSN 1046-7408 DOI: https://doi.org/10.1111/aji.13039

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**2012-2018 updated search**

- Embase, Ovid MEDLINE, Global Health N=6452
- Web of Science N=2788
- Cochrane Library N=349
- CINAHL N=640

- **Removing duplicates**
  - N=5336 titles examined
  - N=351 abstracts examined
  - N=87 full texts examined

- N=87 full texts examined
  - N=8 potentially relevant studies evaluated
  - N=6 studies excluded for non-relevance

- N=8 potentially relevant studies evaluated
  - N=0 potentially relevant studies identified through reference lists

- **N=5 original estimates**
  - DeGruttola [19], Leynaert [20], Vittinghoff [18], Halperin [6], Jin [7]

- **N=7 relevant studies**
  - DeGruttola [19], Leynaert [20], Vittinghoff [18], Halperin [6], Jin [7], Scott [8], Smith [9]

- **N=3 studies excluded**
  - Vittinghoff [18] – superseded by Scott [8]
  - Smith [9] – more comprehensive analysis of same data performed by Scott [8]

- **N=4 included studies**
  - DeGruttola [19], Leynaert [20], Jin [7], Scott [8]

- **N=5 included URAI estimates**
  - DeGruttola [19], Leynaert [20], Jin [7], Scott [8] (2 estimates: pre-HAART and early-ART eras)

- **N=3 included UIAI estimates**
  - Jin [7], Scott [8] (2 estimates: pre-HAART and early-ART eras)

**pre-February 2012 catch-up search**

- N=1412 titles identified and examined
  - N=4985 titles excluded for non-relevance
  - N=264 abstracts excluded for non-relevance
  - N=1 full text examined
  - N=1 study excluded for non-relevance

- N=0 relevant studies found through searching exclusion lists of previous review for estimates involving ART

Figure 1