

HPV Vaccine Effectiveness by Age at Vaccination – Systematic Review

Ellingson MK, Sheikha H, Nyhan K, Oliveira CR, Niccolai LM. Under review at *Human Vaccines & Immunotherapeutics*.

- Conducted a systematic review of HPV vaccine effectiveness studies that included an analysis of HPV vaccine effectiveness by age at vaccine series initiation or completion
- Identified **21 studies** that met the inclusion criteria
- Predominantly retrospective cohort studies using national or regional health registries in high-income countries
- Evaluated numerous HPV-related health outcomes including HPV infection, anogenital warts, cervical abnormalities and cervical cancer

HPV Vaccine Effectiveness by Age at Vaccination – Vaccine-Type HPV Infection

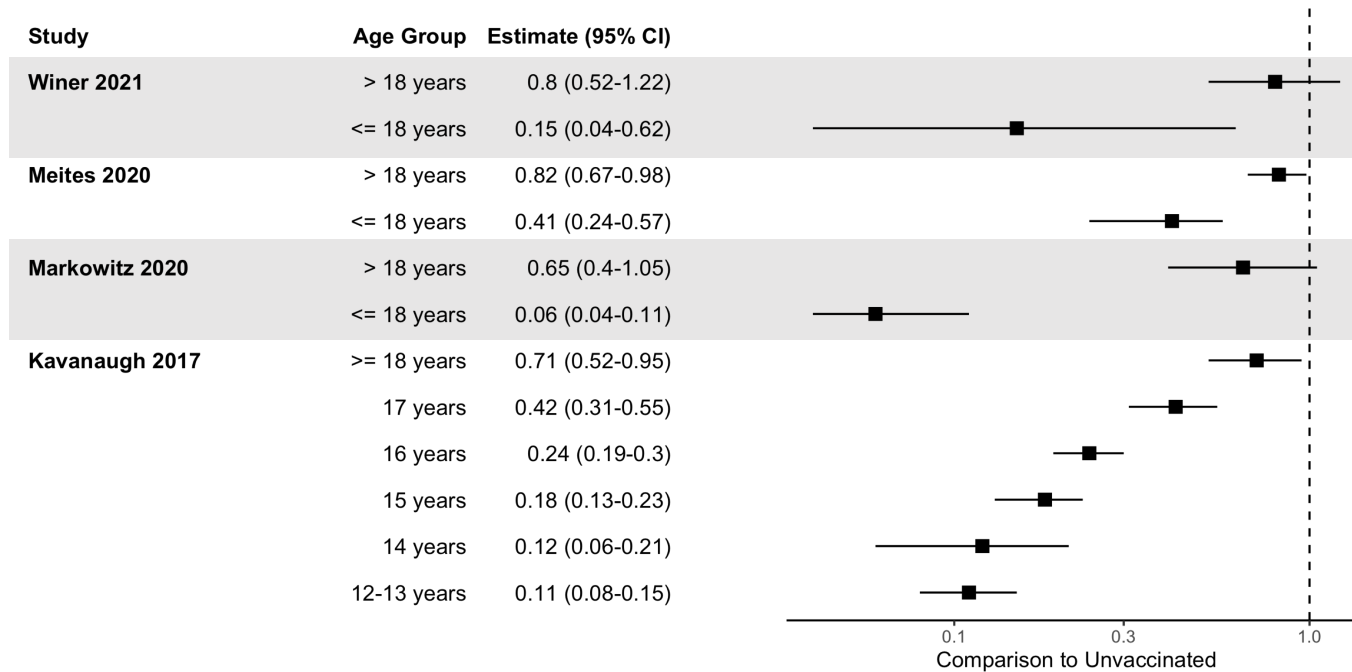


Figure 2. HPV Vaccine Effectiveness against vaccine-type HPV infection by age at vaccine initiation.

Estimates are measures of relative risk. An estimate lower than one (to the left of the dashed line) indicates a protective effect of the vaccine.

HPV Vaccine Effectiveness by Age at Vaccination – Anogenital Warts

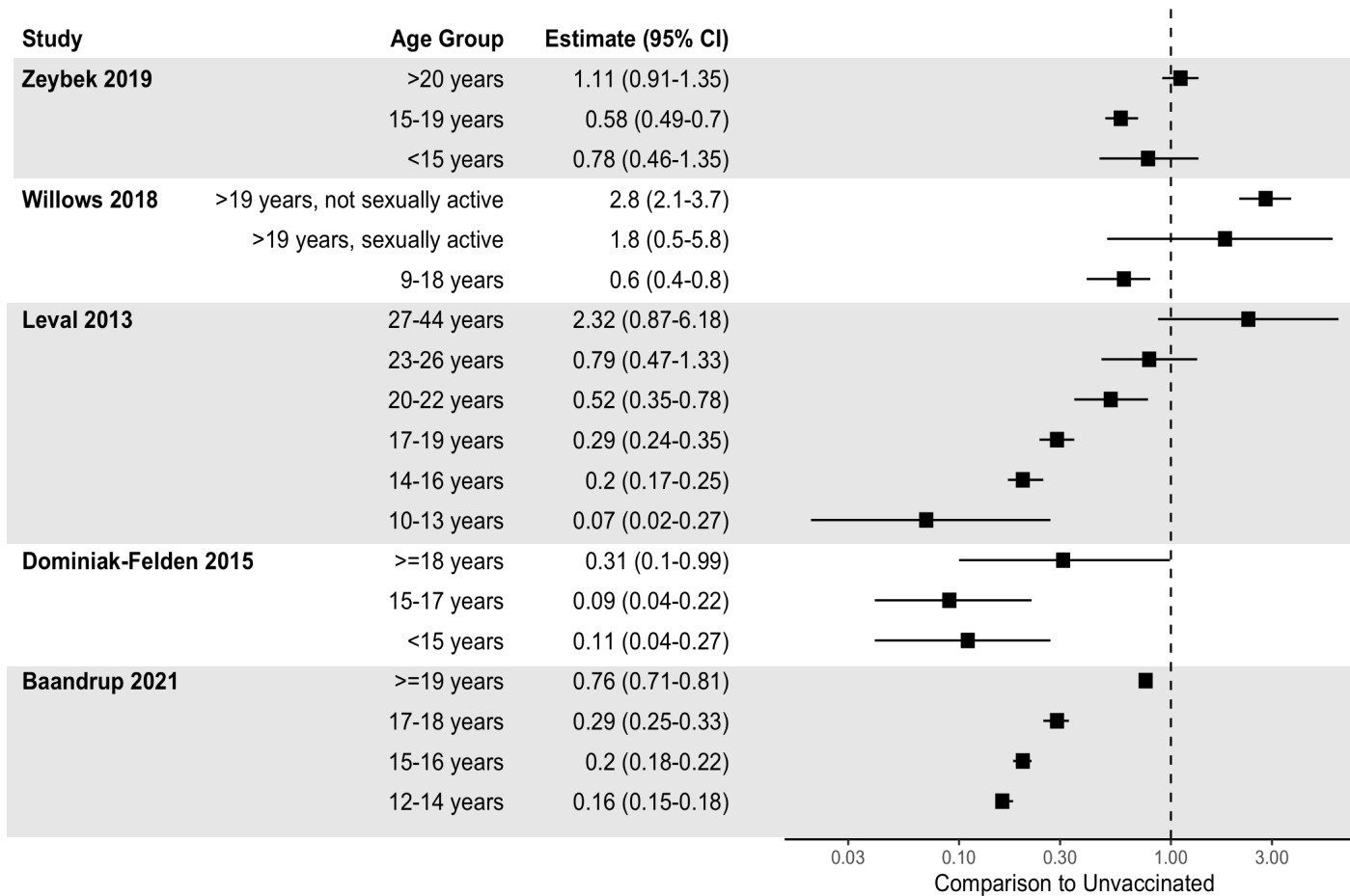


Figure 3. HPV Vaccine Effectiveness against anogenital warts by age at vaccine initiation

Estimates are measures of relative risk. An estimate lower than one (to the left of the dashed line) indicates a protective effect of the vaccine.

HPV Vaccine Effectiveness by Age at Vaccination – Cervical Abnormalities

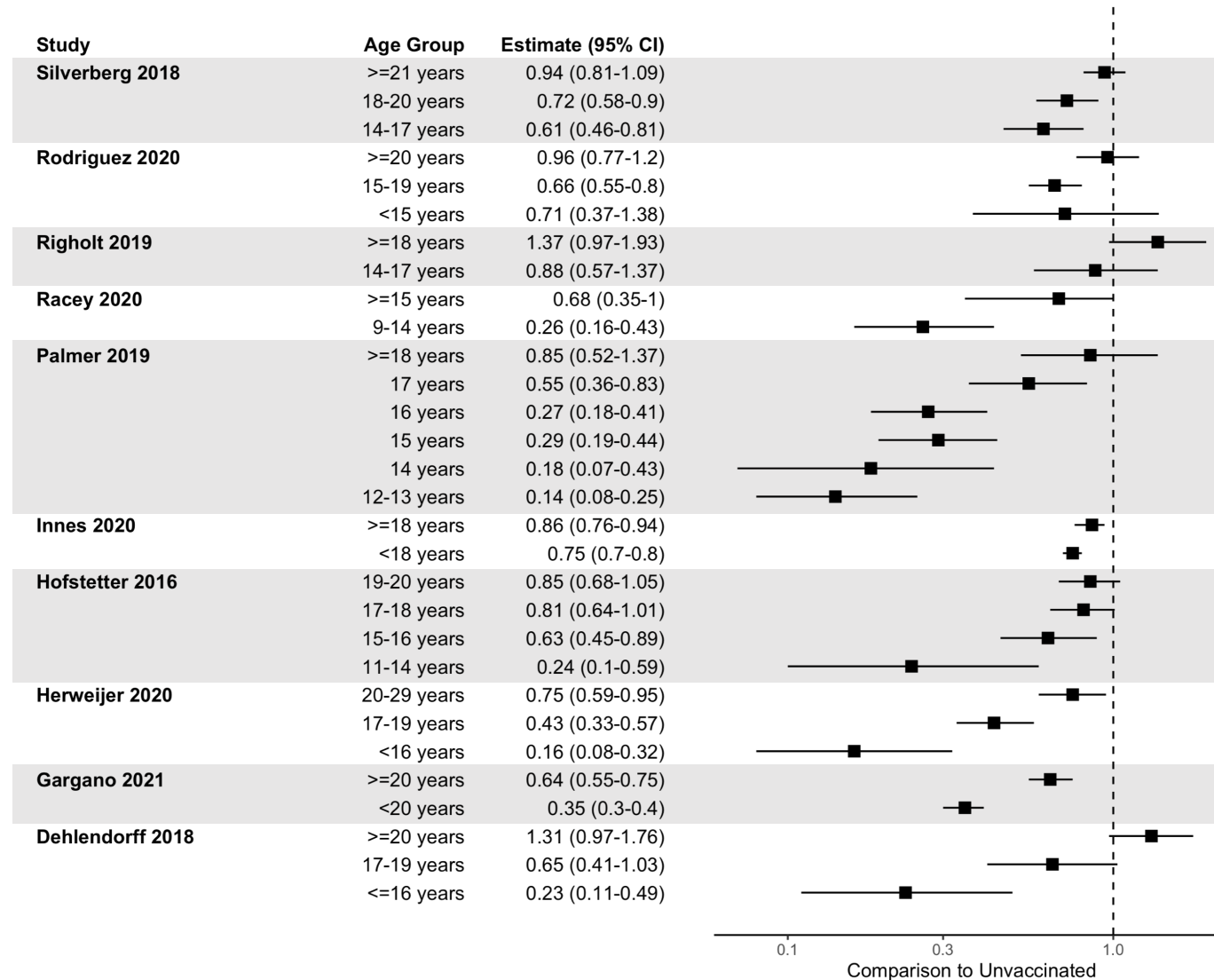


Figure 4. HPV Vaccine Effectiveness against cervical abnormalities (high-grade cervical lesion identified via cytology or histology) by age at vaccine initiation

Estimates are measures of relative risk. An estimate lower than one (to the left of the dashed line) indicates a protective effect of the vaccine.

HPV Vaccine Effectiveness by Age at Vaccination – Cervical Cancer

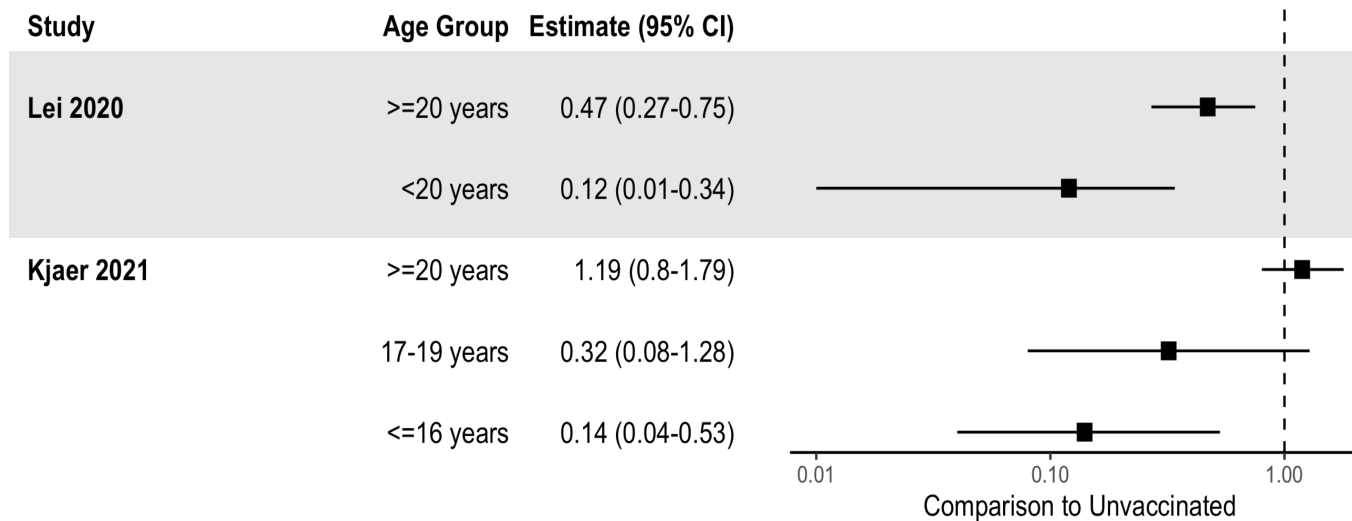


Figure 5. HPV Vaccine Effectiveness against cervical cancer by age at vaccine initiation

Estimates are measures of relative risk. An estimate lower than one (to the left of the dashed line) indicates a protective effect of the vaccine.