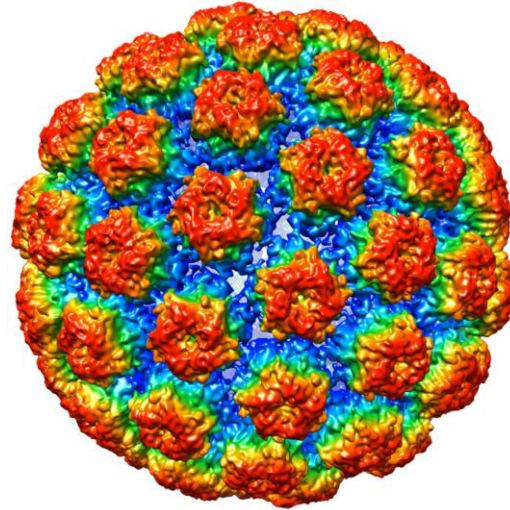


Potential Benefits of HPV HPV Vaccines In Sexually Active Women



John Schiller

Laboratory of Cellular Oncology

National Cancer Institute

schillej@mail.nih.gov

Potential Benefits of HPV HPV Vaccines In Sexually Active Women

- Primary protection from types not yet encountered.
- Secondary protection of transmission to partners.
- Increase herd immunity in the population.
- Reduce risk of progression by preventing auto-inoculation leading to TZ or endocervical infection.
- Neutralize shed virus, reducing transmission from infected women.

Questions to Be Addressed

- Primary protection from types not yet encountered.
Influence of age on preexisting immunity, risk of acquisition, and risk of progression to cancer?
- Secondary protection of transmission to partners.
Will sexual assortment patterns leave some unprotected? SMs?
- Increase herd immunity in the population.
How large an effect? Is a single sweep enough?
- Reduce risk of progression by preventing auto-inoculation leading to TZ or endocervical infection.
Why hasn't this effect been seen in clinical trials?
- Neutralize shed virus, reducing transmission.
Can this benefit be experimentally verified?