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HPV: vaccination, screening and treatment

HPV is a common sexually transmitted infection found worldwide which can lead to serious health effects. While HPV has a high regression rate, if it does progress, it can cause various cancers (i.e. cervical, penile, throat). It is possible to minimize the mal-effects of HPV with tools such as screening, vaccination and treatment. We have developed a series of mathematical models of HPV screening, vaccination and treatment. These include examining the outcomes of screening vs. vaccination programs, comparing different screening programs, as well as, studying the concept of infection vs. re-infection with HPV.