**Title:** PrEP and Porn: Trends in Popularity of Condom-less Pornographic Videos featuring Men having Sex with Men

**Introduction:** Given currently available research on bareback pornography consumption and men who have sex with men (MSM), the degree of primacy of sexually explicit media(SEM) depicting such content is of public health interest. The purpose of this study was to examine whether there is any correlation between condom utilization practices in SEM featuring MSM and consumers’ viewing habits on a major pornographic website before and after the Center for Disease Control (CDC) endorsement of Truvada as pre-exposure prophylaxis (PrEP) on May 14, 2014.

**Methods:** N = 9353 SEM videos from popular pornography website PornHub were scraped from their “Gay” subdomain using the “rvest” package in R for cross-sectional analysis. Videos were then subdivided by PornHub’s own bareback categorization (bareback videos: n = 2354, non-bareback videos: n = 6998) and grouped by upload year (2010 – 2017). Quantile regression was applied to determine the impact of upload year and pre/post-CDC recommendation on the log-transformed one-year imputed viewcount for each video by bareback categorization.

**Results:** Distinct quantile regression solutions for the model demonstrated similar trends for both bareback and non-bareback categorized videos, though different magnitudes of effect. Higher total view counts were observed among videos categorized as bareback except among the earliest uploaded and most unpopular video uploads. Quintile regression coefficients for upload year and CDC-recommendation interaction variables were significant for more popular videos at the p < 0.05 level (tau = 0.6: 0.189, p < 0.001 for bareback, 0.126, p < 0.001 for non-bareback; tau = 0.8: 0.233, p < 0.001 for bareback, 0.113, p < 0.001 for non-bareback).

**Conclusion:** SEM depicting unprotected anal intercourse between MSM has become more popular relative to other video types since 2010. More research is needed to understand how non-clinical factors of gay male sociability and sexuality, including SEM consumption