LACK OF ASSOCIATION OF ANAL SYMPTOMS WITH ANAL HIGH-GRADE SQUAMOUS INTRAEPITHELIAL LESIONS (HSIL), AMONG GAY AND BISEXUAL MEN (GBM) IN THE STUDY OF THE PREVENTON OF ANAL CANCER (SPANC)

<u>Sian L Goddard</u>^{1,2}, I Mary Poynten¹, Kathy Petoumenos¹, Fengyi Jin¹, Richard J Hillman³, Carmella Law³, Jennifer M Roberts⁴, Christopher K Fairley⁵, Suzanne M Garland⁶, Andrew E Grulich¹, David J Templeton^{1,2,7}; on behalf of the SPANC Research Team

¹The Kirby Institute, University of New South Wales, Sydney;
²RPA Sexual Health, Sydney Local Health District, Sydney;
³St Vincent's Hospital, Sydney;
⁴Douglass Hanly Moir Pathology, Sydney;
⁵Melbourne Sexual Health Centre, Melbourne, Australia
⁶Department of Microbiology and Infectious Diseases, Royal Women's Hospital and Murdoch Childrens Research Institute, Melbourne;
⁷Central Clinical School, The University of Sydney, Sydney, Sydney NSW

Background: Whether intra-anal HSIL is associated with symptoms has not been previously investigated.

Methods: SPANC is a community-based cohort of GBM aged ≥35 years. Detailed self-reported anal symptoms were collected in a baseline questionnaire. Anal cytology and high-resolution anoscopy (HRA) (including biopsy of suspected Human Papillomavirus-related lesions) were undertaken. Men negative for any anal squamous intraepithelial lesions (SIL) on cytology and histology were compared with those diagnosed with composite-HSIL (detected on either cytology and/or histology). Univariate logistic regression analyses were performed to assess the association of HSIL with anal symptoms in the previous month.

Results: Of 617 GBM (median age 49 years), 341 (55.4%) reported any anal symptom in the month prior to HRA. The most frequent symptom was "feeling that something was left after a bowel movement" (n=191, 31.0%), followed by anal itch (n=135, 21.9%), anal bleeding (n=119, 19.3%), pain with defaecation (n=76,12.3%), anal lump (n=42, 6.8%), anal tearing (n=33, 5.4%), anal "sores" (n=31,5.1%) and anal discharge (n=22, 3.6%). Composite-HSIL was diagnosed in 228 (37.7%) men and 181 (29.9%) men were negative for SIL. In univariate analyses, there was no significant association between HSIL diagnosis and reporting "feeling something was left after a bowel movement" (OR 0.80, 95% CI 0.52-1.21); anal itch (OR 1.03, 95% CI 0.64-1.66); anal bleeding (OR 0.97, 95% CI 0.59-1.59); pain with defecation (OR 1.00 95% CI 0.56-1.80); anal lump (OR 2.13, 95% CI 0.87-5.22); anal tearing (OR 1.28 95% CI 0.73-2.25); anal sore (OR 1.64, 95% CI 0.60-4.45); anal discharge (OR 1.75, 95% CI 0.48-3.75) or report of any anal symptom in the previous month (OR 0.90, 95% CI 0.61-1.33).

Conclusion: Anal symptoms were commonly reported by SPANC participants. Intraanal HSIL was not associated with any symptom, suggesting that anal symptoms are not a clinically useful marker of the presence of HSIL among GBM.