

Pad - a new self-collection device for human papillomavirus

S R Kim¹, S Y Song, D S Kim, J-W Lee, B-G Kim, D-S Bae, E S Song, H J Joo

Affiliations expand

- PMID: 17362547
- DOI: [10.1258/095646207780132532](https://doi.org/10.1258/095646207780132532)

Abstract

This study was designed to determine the accuracy and agreement of a self-collection method using pad for human papillomavirus (HPV) DNA. One hundred and thirty-four patients at university hospitals voluntarily participated in the accuracy study, and 314 volunteers participated in the agreement study at local clinics. DNA was extracted and amplified using HPV L1 consensus primers designed for the direct sequencing. In the accuracy study, all samples were probed via histological examinations. With regard to the detection of squamous intraepithelial lesion (SIL), self-collection pad sampling displays sensitivity, of 76.9%, and specificity, of 93.3%. Three hundred and fourteen self-collection pad samples and the concurrent physicians' samples showed a 97.8% agreement, with a Kappa value of 0.9200. A new self-collection pad for the detection of HPV DNA appears to constitute an easy, rapid, and convenient alternative method for the cervical cancer screening of many women with the virtue of being incredible readily accessible.