| Author, Year & Quality | Arm | Test Name and Manufacturer | Sample Collection Method | Sample Collected By | Sample Processed By | Sample Interpreted By |
| --- | --- | --- | --- | --- | --- | --- |
| Ronco, 2010119, 127NTCC Phase IIGood | HPV alone | Hybrid Capture 2 (Digene) | Sample of cervical cells taken by a broom-like device (Digene Cervical Sampler) and put in standard transport medium (Digene) used only for HPV testing | NR | NR | NR |
| CC | NR | Sample taken with a plastic Ayre's spatula and cytobrush | NR | Cytoscreeners | Cytoscreeners, cytopathologists or local supervisor |
| Ogilivie, 2017125, 128-130HPV FOCALFair | HPV LBC triage | Digene Hybrid Capture 2 (Qiagen) | Two samples collected w/ ThinPrep broom-like collection device during the initial screening appointment and placed in ThinPrep PreservCyt vial (Hologic); LBC collected first (see CG for details) and the second sample is collected and frozen for future use; aliquot from first specimen used for HPV testing processed w/ Qiagen sample conversion kit | NR | Cytotechnologist | Pathologist |
| LBC HPV triage | ThinPrep PreservCyt (Hologic Inc) | Two samples collected w/ ThinPrep broom-like collection device during the initial screening appointment and placed in ThinPrep PreservCyt vial (Hologic); LBC collected first and the second sample is collected and frozen for future use; all samples processed according to manufacturer's recommendations | NR | Cytotechnologist | Pathologist |
| Leinonen, 2012124FINNISHFair | HPV CC triage | Digene Hybrid Capture 2 (Qiagen) | Two spatular subsamples of the vaginal, cervical, and endocervical smear collected with wooden or plastic Ayre's spatula (cytology); endocervical subsample by placing the tip of the sample cone-shaped cervical sample brush) of the kit to the transport medium after cytological smear | Nurse or midwife | Cytotechnicians | Cytotechnicians or pathologist |
| CC | NR | Cytology smear taken w/ Ayre spatula and a cytobrush; sample prepared on a glass slide according to standard procedures; glass slide subject to routine staining | Nurse or midwife | Cytotechnicians | Cytotechnicians or pathologist |
| Ronco, 2010119, 131, 132NTCC Phase IGood | HPV cotesting | Hybrid Capture 2; ThinPrep (Digene Corporation; Cytyc Corporation) | Cervical cell samples collected using a plastic Ayre's spatula and cytobrush; placed in PreservCyt solution (ThinPrep); one sample used for both LBC preparation and HPV testing. One cytology slide per woman prepared according to manufacturer's instructions; 4 mL of remaining sample processed w/ Digene Sample Conversion Kit followd by HC2 assay | NR | Cytologist | Cytologist; local supervisor or panel of cytologists |
| CC | NR | Cervical cell samples collected using a plastic Ayre's spatula and cytobrush; one slide per woman prepared according to manufacturer's instructions. | NR | Cytologist | Cytologist; local supervisor or panel of cytologists |
| Naucler, 2007118, 135SWEDESCREENFair | HPV cotesting | PCR/GP5+/6+ (NR) | Endocervical and ectocervical samples were taken with a cytologic brush (assume endocervical or Cervex brush from CG description); after a conventional smear had been prepared, the brush was swirled in 1 ml of sterile 0.9% sodium chloride to release the remaining cells for analysis of HPV DNA | Clinical personnel | Laboratory technician | NR |
| CC | NR | Endocervical brush (Stockholm, Gothenburg, Uppsala, and Malmo) or Cervex brush (Umea); conventional smear prepared first | Clinical personnel | NR | NR |
| Kitchener, 2009116, 136-138ARTISTICFair | HPV cotesting | Hybrid Capture 2 (Qiagen) | Cervical samples were collected using the Rovers Cervex-brush cervical sampler (Rovers Medical Devices) [part of the ThinPrep Cytyc kit] and rinsed into a vial containing PreservCyt transport medium; HPV test performed on liquid residue cells of the LBC sampple and read and calculated on the Digene Microplate Luminometer 2000 | NR | NR | Cytoscreener; checked by biomedical scientist or cytopathologist (LBC) |
| LBC | ThinPrep T3000 (Hologic) | Cervical samples were collected using the Rovers Cervex-brush cervical sampler (Rovers Medical Devices) [part of the ThinPrep Cytyc kit] and rinsed into a vial containing PreservCyt transport medium | NR | NR | Cytoscreener; checked by biomedical scientist or cytopathologist (LBC) |
| Rijkaart, 2012120, 133, 134POBASCAMGood | HPV cotesting | PCR/GP5+/6+ (NR) | Taken by GP or assistant using the Cervex-Brush or a cytobrush; after making a conventional smear, cytobrush placed in a vial containing collection medium (5 ml phosphate buffered saline and 0.5% thiomersal) for HPV testing | GP or assistant | NR | NR |
| CC | Cervex-Brush (Rovers) | Taken by GP or assistant using the Cervex-Brush or a cytobrush | GP or assistant | NR | Cytotechnologist and cytopathologist (abnormal only) |

**Abbreviations**: ARTISTIC = A Randomised Trial in Screening to Improve Cytology; CC = conventional cytology; CG = control group; DNA = deoxyribonucleic acid; GP = general practitioner; HC2 = Hybrid Capture 2; HPV = human papillomavirus; hr = high-risk; LBC = liquid-based cytology; mL = milliliter(s); NR = not reported; NTCC = New Technologies for Cervical Cancer Screening; PCR/GP = polymerase chain reaction general primer; POBASCAM = Population Based Screening Study Amsterdam Program ; w/ = with