

Appendix 1: Summary of studies conducted from 1999-2010

Study	Study year; location	Number screened	Age	Screening tests	Follow-up procedure	Histology or cytology location and review	Number biopsied
SPOCCS I	1999; Xiangyuan County, Shanxi Province	1997	35–45	HC2 (self, physician), fluorescence test, LBC, VIA, colposcopy	All women received four-quadrant biopsies and ECC under colposcopy	CICAMS, blinded international review	1997
SPOCCS II	2001–02; Xiangyuan and Yangcheng County, Shanxi Province	8497	35–50	HC2 (self, physician), LBC, VIA, AFB	positive VIA, self-test or physician-test for high-risk HPV, or an abnormal AFB, or a positive Pap test (ASC-US or worse):4-quadrant biopsies and ECC	CICAMS	3253
SPOCCS III-(1)	2006; Xiangyuan County, Shanxi Province	884	16–54	HC2 (self, physician), LBC, VIA	Positive VIA or positive self-HC2 (colposcopy and directed biopsy, ECC if necessary); positive physician-collected HC2 or ASC-H or worse on LBC (colposcopy and 4-quadrant biopsies, ECC if necessary)	CICAMS; blinded international review	185
SPOCCS III-(2)	2006; Beijing	795	16–54	HC2, LBC, VIA	Positive VIA (colposcopy and directed biopsy, ECC if necessary); positive physician-collected HC2 and ASC-US on LBC or ASC-H or worse (colposcopy and 4-quadrant biopsies, ECC if necessary)	Peking University People's Hospital, blinded international and CICAMS review	69
SPOCCS III-(3)	2006; Xinmi, Henan Province	879	16–54	HC2 (self, physician), LBC, VIA	Same as SPOCCS III-(1)	CICAMS, blinded international review (only histology)	164
SPOCCS III-(4)	2006; Yutian County, Xinjiang Uygur Autonomous Region	883	16–54	HC2 (self, physician), LBC, VIA	Same as SPOCCS III-(1)	CICAMS, blinded international review (histology); People's Hospital of Xinjiang Uygur Autonomous Region, blinded CICAMS review (cytology)	138
SPOCCS III-(5)	2007; Shanghai city	774	16–54	HC2, LBC, VIA	Positive VIA (colposcopy and directed biopsy, ECC if necessary); positive physician-collected HC2 or ASC-H or worse (colposcopy and four-quadrant biopsies, ECC if necessary)	Shanghai, blinded international and CICAMS review (for cytology, blinded CICAMS review only)	43
START 2003	2003; Xiangyuan County, Shanxi	2005	30–49	HC2, LBC, VIA	Positive VIA, HC2 positive, or ASC-H or worse on LBC (colposcopy and four-quadrant biopsies and	CICAMS, blinded international review	523

	Province				ECC)		
START 2004	2004; Xiushui County, Jiangxi Province	2499	30–49	HC2, LBC, VIA, VILI, colposcopy	Positive VIA, VILI, or colposcopy (four-quadrant biopsies and ECC); negative VIA or VILI but HC2 positive, or ASC-H or greater on LBC (repeat colposcopy and four-quadrant biopsies and ECC)	Jiangxi, blinded international and CICAMS review	537
START 2005	2005; Wudu County, Gansu Province	2053	30–49	HC2, LBC, VIA, VILI	Positive VIA or VILI (colposcopy and directed biopsy, and ECC if necessary); negative VIA or VILI but HC2 positive, ASC-H or worse on LBC (colposcopy and 4-quadrant biopsies and ECC)	Gansu Cancer Hospital, blinded international and CICAMS review (histology); CICAMS, blinded international review (cytology)	381
START 2006	2006; Qinxian County, Shanxi Province	2500	30–49	HC2, LBC, VIA, VILI, colposcopy	Same as START 2005	CICAMS; blinded international review	559
START 2007	2007; Xiangyuan and Wuxiang County, Shanxi Province	2530	30–54	HC2, careHPV, LBC, VIA, colposcopy	Positive VIA or colposcopy (directed biopsy, and ECC if necessary); negative VIA but HC2 or careHPV positive or ASC-H or worse on LBC (repeat colposcopy and four-quadrant biopsies and ECC if necessary)	CICAMS, blinded international review	691
START-UP	2010; Yangcheng County, Shanxi Province; Xinmi City, Henan Province; Tonggu County, Jiangxi Province	7543	25–65	HC2, careHPV, E6 test, VIA, colposcopy	Positive HC2, careHPV or E6 (positive colposcopy with directed biopsies, and ECC if necessary). Negative colposcopy with random biopsy and ECC); HC2, careHPV and E6 all negative (10% of the negative women undergo 4-quadrants random biopsy and ECC)	CICAMS	3197
IARC-(1)	2005; Shenzhen City, Guangdong Province	1137	15–59	HC2, LBC, VIA, colposcopy	Positive colposcopy (directed biopsy, and ECC if necessary); negative colposcopy, but HC2 positive and ASC-US, or LSIL or worse on LBC (repeat colposcopy with directed biopsies, and ECC if necessary)	Shenzhen, blinded CICAMS review	122
IARC-(2)	2004; Yangcheng County, Shanxi Province	745	15–59	HC2, fluorescence test, LBC, VIA, VILI, colposcopy	Positive colposcopy or fluorescence test (directed biopsy and ECC if necessary); negative colposcopy, but HC2 positive and ASC-US, or LSIL or worse on LBC (follow-up 1 year later)	Yangcheng County Cancer Hospital, blinded international and CICAMS review (for histology, blinded CICAMS review only)	306

IARC-(3)	2005;Shenyang City, Liaoning Province	719	15-59	fluorescence test, LBC, VIA, VILI, colposcopy	Positive VIA, VILI or fluorescence test (directed biopsy and ECC if necessary); negative colposcopy, but ASC-US, LSIL or worse on LBC (repeat colposcopy with random or directed biopsies, and ECC if necessary)	Liaoning Cancer Hospital, CICAMS review	243
FastHPVtrial	2007; Qinxian County, Shanxi Province	818	30–50	HC2, careHPV, LBC, VIA, VILI	Either VIA or VILI or careHPV was positive (colposcopy and directed biopsy, and ECC if necessary); VIA and VILI and careHPV were negative, or colposcopy was negative, but HC2 positive or LSIL or worse on cytology (four-quadrant biopsies, and ECC if necessary)	CICAMS	63
Prevalence survey	2008; Binhai and Jintan County, Xuzhou city, Jiangsu Province	316	18–25	HC2, LBC, VIA	Positive VIA (colposcopy and directed biopsy, and ECC if necessary); negative VIA but ASC-H or worse on LBC (colposcopy and four-quadrant biopsies, and ECC if necessary); negative VIA but HC2 positive and ASC-US or better on LBC (colposcopy and directed biopsy, and ECC if necessary)	CICAMS	40
HC2 trial	2008; Xiangyuan County, Shanxi Province	1059	30–59	HC2, LBC, VIA, VILI	Positive VIA or VILI: directed biopsy, and ECC if necessary; negative VIA or VILI but HC2 positive and ASC-US, or ASC-H or worse on LBC (colposcopy and four-quadrant biopsies, and ECC if necessary); either HC2 positive or ASC-US on LBC (directed biopsy, and ECC if necessary)	CICAMS	145
Total		38633					12656

SPOCCS=Shanxi Province Cervical Cancer Screening Study. HC2=Hybrid Capture 2. LBC=liquid-based cytology. VIA=visual inspection with acetic acid. ECC=endocervical curettage. CICAMS=Cancer Institute and Hospital of the Chinese Academy of Medical Sciences. AFB=Ampersand's fluorescent biomolecular markers. ASC-US=atypical squamous cells of undetermined significance. ASC-H=atypical squamous cells cannot exclude high-grade squamous intraepithelial lesion. VILI=visual inspection with Lugol's iodine. START=Screening Technologies to Advance Rapid Testing. START-UP=Screening Technologies to Advance Rapid Testing—Utility and Program Planning