

Supplementary Table 1. Population Characteristics at baseline

	Eligible women(n=3209)
Age at baseline	
Mean (SD)	46.1 (7.8)
Median (range)	46 (40-52)
Marital status	
Married	3145 (98.0%)
Widowed	48 (1.5%)
Separation	3 (0.1%)
Divorce	13 (0.4%)
Education	
Never	105 (3.3%)
Primary school	588 (18.3%)
Junior school	1537 (47.9%)
Senior school	501 (15.6%)
University and above	478 (14.9%)
Smoking status	
Never	3206 (99.9%)
Current	3 (0.1%)
Drinking status	
Never	2763 (86.1%)
Occasionally	446 (13.9%)
Age at menarche	
Mean (SD)	14.5 (1.6)
Median (range)	14 (13-15)
Contraception measures	
None	822 (25.6%)
Condom	157 (4.9%)
Intrauterine device	675 (21.0%)
Sterilization	1548 (48.3%)
Others	7 (0.2%)
Number of pregnancy	
0	26 (0.8%)
1	314 (9.8%)
2	1217 (37.9%)
3	986 (30.7%)
4	486 (15.2%)
≥5	180 (5.6%)
Age of first pregnancy	
Mean (SD)	22.9 (2.5)
Median (range)	23 (21-24)

Supplementary Table 2. Baseline and Follow up results of different screening strategies

	strategy 1	number	strategy 2	number	strategy 3	number
Baseline						
	HPV tests	3209	Cytology	3209	HPV tests	3209
	Cytology	311	HPV tests	147	Cytology	3209
	Colposcopy	219	Colposcopy	328	Colposcopy	443
	≥CIN2	36	≥CIN2	20	≥CIN2	37
	≥CIN3	22	≥CIN3	15	≥CIN3	22
Follow up 1						
	Needed to be	427	Needed to be	308	Needed to be	650
	Followed up		Followed up		Followed up	
	Loss to follow up	28	Loss to follow up	26	Loss to follow up	45
	Cytology	399	Cytology	282	Cytology	605
	Colposcopy	44	Colposcopy	23	Colposcopy	58
	≥CIN2	4	≥CIN2	2	≥CIN2	3
	≥CIN3	1	≥CIN3	0	≥CIN3	1
Follow up 2						
	Needed to be	395	Needed to be	280	Needed to be	602
	Followed up		Followed up		Followed up	
	Loss to follow up	19	Loss to follow up	16	Loss to follow up	31
	Cytology	376	Cytology	264	Cytology	571
	Colposcopy	20	Colposcopy	9	Colposcopy	21
	≥CIN2	3	≥CIN2	1	≥CIN2	4
	≥CIN3	2	≥CIN3	1	≥CIN3	2
Follow up 3						
	Needed to be	373	Needed to be	263	Needed to be	567
	Followed up		Followed up		Followed up	
	Loss to follow up	30	Loss to follow up	26	Loss to follow up	54
	Cytology	343	Cytology	237	Cytology	513
	Colposcopy	54	Colposcopy	17	Colposcopy	61
	≥CIN2	4	≥CIN2	1	≥CIN2	4
	≥CIN3	4	≥CIN3	1	≥CIN3	4
Total						
	Colposcopy	337	Colposcopy	377	Colposcopy	583
	≥CIN2	47	≥CIN2	24	≥CIN2	49
	≥CIN3	29	≥CIN3	17	≥CIN3	29