

Long term results of follow-up after HPV self-sampling with devices Qvintip and HerSwab in women non-attending cervical screening programme

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SUPPLEMENTARY TABLE 1. Sensitivity, specificity, positive and negative predictive values of human papillomavirus (HPV) test by device groups and sampling modality

Qvintip	Sensitivity (95% CI)	Specificity (95% CI)	PPV (95% CI)	NPV (95% CI)
HPV test on self-sample				
1 year	81.8 (70.89–89.8)	45.5 (30.69–60.0)	69.2 (58.29–78.8)	62.5 (44.19–78.1)
4 years	83.1 (72.69–90.5)	51.3 (34.89–66.7)	75.6 (64.59–84.2)	62.5 (44.19–77.9)
HPV test on gynaecologist sample				
1 year	98.5 (91.09–100.0)	57.8 (42.99–71.7)	77.4 (67.49–85.2)	96.3 (77.89–100.0)
4 years	94.4 (86.49–98.5)	57.5 (41.29–87.3)	79.8 (69.89–87.3)	85.2 (65.59–95.7)
Ratio HPV test on self-sample vs. HPV test on gynaecologist sample				
1 year	0.83	0.79	0.89	0.65
4 years	0.88	0.89	0.95	0.73
HerSwab	Sensitivity (95% CI)	Specificity (95% CI)	PPV (95% CI)	NPV (95% CI)
HPV test on self-sample				
1 year	77.6 (63.89–87.8)	48.9 (34.69–63.4)	61.3 (48.39–72.9)	67.6 (50.09–81.8)
4 year	75.0 (61.39–85.4)	47.7 (33.39–62.8)	62.9 (50.09–74.2)	61.8 (43.99–77.3)
HPV test on gynaecologist sample				
1 year	94.0 (83.39–98.1)	41.7 (27.99–55.8)	62.7 (51.39–73.0)	87.0 (65.49–96.3)
4 year	94.3 (84.49–98.2)	44.4 (30.09–59.2)	66.7 (54.89–76.4)	87.0 (65.49–96.2)
Ratio HPV test on self-sample vs. HPV test on gynaecologist sample				
1 year	0.83	1.17	0.98	0.78
4 years	0.80	1.07	0.94	0.71

CI = confidence interval; NPV = negative predictive value; PPV = positive predictive value

SUPPLEMENTARY TABLE 2. Sensitivity, specificity, positive and negative predictive values of cytology by device groups for cervical intraepithelial neoplasia grade 2 or more (CIN2+)

Pap at cut-off ASC-US+	Sensitivity (95% CI)	Specificity (95% CI)	PPV (95% CI)	NPV (95% CI)
Qvintip				
1 year	72.7 (60.69–82.5)	71.1 (55.89–82.9)	78.7 (66.79–87.7)	64.0 (49.19–76.2)
4 years	71.8 (60.39–81.4)	75.0 (58.59–86.5)	83.6 (72.19–91.5)	60.0 (45.39–72.5)
Qvintip: Ratio HPV test on self-sample vs. Pap at cut-off ASC-US+				
1 year	1.13	0.64	0.88	0.98
4 years	1.16	0.68	0.90	1.04
HerSwab				
1 year	76.0 (61.89–86.4)	50.0 (34.69–63.0)	61.3 (48.59–72.7)	66.7 (48.69–80.4)
4 year	71.7 (58.09–82.7)	46.7 (32.09–61.5)	61.3 (49.09–72.9)	58.3 (41.29–73.7)
HerSwab: Ratio HPV test on self-sample vs. Pap at cut-off ASC-US+				
1 year	1.02	0.98	1.00	1.01
4 year	1.05	1.02	1.03	1.06

ASC-US+ = atypical squamous cells of undetermined significance or more; CI = confidence interval; NPV = negative predictive value; PPV = positive predictive value

Year	Qvintip				HerSwab			
	At risk (n)	Events (n)	Censored (n)	Cumulative incidence (%), 95% CI	At risk (n)	Events (n)	Censored (n)	Cumulative incidence (%), 95% CI

HPV self-sample

Negative	0	32	3	0	9.4 (0.0–18.9)	34	6	0	17.6 (3.8–29.5)
	1	20	9	0	37.5 (18.3–52.2)	23	5	0	32.4 (14.7–46.4)
	2	20	0	0	37.5 (18.3–52.2)	22	1	0	35.3 (17.1–49.5)
	3	20	0	0	37.5 (18.3–52.2)	21	1	0	38.2 (19.5–52.6)
	4	20	0	0	37.5 (18.3–52.2)	19	0	2	38.2 (19.5–52.6)
	5	20	0	0	37.5 (18.3–52.2)	11	0	8	38.2 (19.5–52.6)
Positive	0	78	27	0	34.6 (23.2–44.4)	62	32	0	51.6 (37.4–62.6)
	1	24	27	0	69.2 (57.1–77.9)	24	6	0	61.3 (47.1–71.7)
	2	20	4	0	74.4 (62.6–82.4)	22	1	1	62.9 (48.7–73.2)
	3	19	1	0	75.6 (64.0–83.5)	22	0	0	62.9 (48.7–73.2)
	4	19	0	0	75.6 (64.0–83.5)	22	0	0	62.9 (48.7–73.2)
	5	19	0	0	75.6 (64.0–83.5)	15	0	7	62.9 (48.7–73.2)

HPV gynaecologist

Negative	0	27	0	0	0.0 (0.0–0.0)	23	1	0	4.3 (0.0–12.3)
	1	26	1	0	3.7 (0.0–10.6)	20	2	0	13.0 (0.0–25.8)
	2	24	2	0	11.1 (0.0–22.2)	20	0	0	13.0 (0.0–25.8)
	3	23	1	0	14.8 (0.3–27.2)	20	0	0	13.0 (0.0–25.8)
	4	23	0	0	14.8 (0.3–27.2)	19	0	1	13.0 (0.0–25.8)
	5	23	0	0	14.8 (0.3–27.2)	10	0	9	13.0 (0.0–25.8)
Positive	0	84	30	0	35.7 (24.6–45.2)	75	37	0	49.3 (36.7–59.5)
	1	19	35	0	77.4 (66.4–84.8)	28	10	0	62.7 (49.9–72.2)
	2	17	2	0	79.8 (69.1–86.8)	25	2	1	65.3 (52.7–74.6)
	3	17	0	0	79.8 (69.1–86.8)	24	1	0	66.7 (54.1–75.9)
	4	17	0	0	79.8 (69.1–86.8)	23	0	1	66.7 (54.1–75.9)
	5	17	0	0	79.8 (69.1–86.8)	17	0	6	66.7 (54.1–75.9)