

Evaluation of the training program for p16/Ki-67 dual immunocytochemical staining interpretation for laboratory staff without experience in cervical cytology and immunocytochemistry

Veronika Kloboves Prevodnik, Ziva Pohar Marinsek, Janja Zalar, Hermina Rozina, Nika Kotnik, Tine Jerman, Jerneja Varl, Urska Ivanus

doi: 10.2478/raon-2020-0018

SUPPLEMENTARY TABLE 1. Sensitivity, specificity, negative and positive predictive value of p16/Ki-67 DS results for detecting CIN2+ for students, senior cytotechnologist and reference before and after the additional training

Training	Rewiever	Sensitivity (95% CI), %	Specificity (95% CI), %	PPV (95% CI), %	NPV (95% CI), %
Initial (N = 118)	S1	97.1 (89.9–100.0)	36.7 (23.6–51.0)	68.4 (58.6–77.0)	90.0 (66.7–100.0)
	S2	95.7 (87.9–98.6)	42.9 (28.9–57.1)	70.2 (60.4–78.7)	87.5 (66.7–96.3)
	SC (S1)	97.1 (89.7–100.0)	63.3 (48.9–75.7)	78.8 (69.0–86.6)	93.9 (79.3–100.0)
	SC (S2)	97.1 (89.7–100.0)	63.3 (48.9–75.7)	78.8 (69.0–86.6)	93.9 (79.3–100.0)
	Reference	92.8 (84.1–97.2)	67.3 (52.6–79.5)	80.0 (69.6–87.7)	86.8 (72.2–95.0)
Additional (N = 383)	S1	87.0 (77.6–93.3)	63.7 (58.1–68.9)	37.6 (30.6–45.0)	95.1 (91.3–97.5)
	S2	84.4 (75.0–91.3)	78.8 (74.0–83.1)	50.0 (41.2–58.1)	95.3 (92.0–97.5)
	SC (S1)	84.4 (74.6–91.3)	72.9 (67.7–77.7)	43.9 (35.9–52.0)	94.9 (91.4–97.2)
	SC (S2)	83.1 (73.2–90.4)	72.2 (67.0–76.9)	43.0 (35.1–51.0)	94.4 (90.8–96.9)
	Reference	87.0 (77.5–93.2)	80.4 (75.6–84.5)	52.8 (43.9–61.4)	96.1 (93.1–98.0)

N = number of cases; NPV = negative predictive value; PPV = positive predictive value; S1 = student 1; S2 = student 2; SC (S1) = senior cytotechnologist results obtained during revision of student 1 results; SC (S2) = senior cytotechnologist results obtained during revision of student 2 results; Reference = results of four cytopathologists at the Department of Cytopathology, Institute of Oncology Ljubljana