

Supplementary Materials: HPV-Induced Oropharyngeal Cancer and the Role of the E7 Oncoprotein Detection via Brush Test

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Table S1. Comparing the performance of hr-HPV E7 oncoprotein ELISA in detecting HPV-driven OPC* ($n = 50$).

E7 Oncoprotein OD Cutoff	Overall % Agreement (95% CI)	Sensitivity	Specificity	PPV	NPV
$\geq 0.076^{**}$	64.0 (49.2–77.1)	60.9 (38.5–80.3)	66.7 (46.0–83.5)	60.9 (45.4–74.4)	66.7 (52.9–78.1)
≥ 0.1	64.0 (49.2–77.1)	52.2 (30.6–73.2)	74.1 (53.7–88.9)	63.2 (44.8–78.4)	64.5 (52.9–74.6)
≥ 0.15	66.0 (53.3–80.5)	52.2 (30.6–73.2)	77.8 (57.7–91.4)	66.7 (47.2–81.8)	65.6 (54.4–75.4)
≥ 0.2	68.0 (53.3–80.5)	47.8 (26.8–69.4)	85.2 (66.3–95.8)	73.3 (50.3–88.2)	65.7 (55.7–74.5)
≥ 0.25	66 (51.2–78.8)	43.5 (23.2–65.5)	85.2 (66.3–95.8)	71.4 (47.5–87.4)	63.9 (54.5–72.4)
≥ 0.3	64.0 (49.2–77.1)	34.8 (16.4–57.3)	88.9 (70.8–97.7)	72.7 (44.3–89.9)	61.54(53.4–69.9)

HPV-driven tumor in this study is defined as the co-detection of HPV DNA and p16. ** cutoff provided by the manufacturer. OD = optical density, PPC = positive predictive value, NPV = negative predictive value.



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