

Note: This is Online Supplementary 1 of Kadry HM, Said, NM. Performance of two multiplex flow cytometric assays for antibody detection in Egyptian patients. Afr J Lab Med. 2023;12(1), a2099. <https://doi.org/10.4102/ajlm.v12i1.2099>

Supplementary Table 1. Clinical performance of IIF and Athena Multi-Lyte ANA-II in comparison to EULAR/ACR clinical criteria for anti-dsDNA detection among patients with systemic lupus erythematosus, Zagazig University Hospitals, Zagazig, Al Sharqia, Egypt, May 2020 – April 2022

	IIF	AtheNA Multi-Lyte ANA-II	Combined IIF and AtheNA Multi-Lyte ANA-II
Cut-off	≥1/10 titre	≥120 IU/ML	≥1/10 titre + 120 IU/ML
Sensitivity	38.10%	38.10%	47.6%
(95% CI)	(28.79–48.09%)	(28.79–48.09%)	(37.8–57.6%)
Specificity	96.9%	98.5%	96.9%
(95% CI)	(89.3 - 99.6%)	(91.7–100.00%)	(89.3 - 99.6%)
Positive Predictive Value (95% CI)	95.2% (83.3–98.8%)	97.0% (84.9–99.6%)	96.2% (86.3–99.0%)
Negative Predictive Value (95% CI)	49.2% (45.3–53.4%)	49.2% (45.3–53.4%)	53.4% (48.7–58.0%)
Accuracy	60.6%	61.2%	66.5%
(95% CI)	(52.8–67.9%)	(53.4–68.5%)	(58.8–73.5%)
AUC	0.679	0.737	0.782
(95% CI)	(600–757)	(0.664–0.809)	(0.715–0.849)

IIF: indirect immunofluorescence, AUC: area under the curve, CI: confidence interval, EULAR/ACR: European League Against Rheumatism and the American College of Rheumatology criteria

Supplementary Table 2. Analytical performances of Athena Multi-Lyte AIV and ELISA methods versus IIF as the gold standard for ANCA detection among patients with autoimmune vasculitis attending Zagazig University Hospitals, Zagazig, Al Sharqia, Egypt, between May 2020 and April 2022

	Anti-MPO		Anti-PR3	
	AtheNA Multi-Lyte AIV	ELISA	AtheNA Multi-Lyte AIV	ELISA
Cut-off	≥120 IU/ML	≥5 IU/ML	≥120 IU/ML	≥5 IU/ML
Sensitivity	63.80%	51.6%	100.0%	100.0%
(95% CI)	(48.5% -77.3%)	(36.1%-65.9%)	(71.5–100.00%)	(71.5–100.0%)
Specificity	100.00%	100.0%	100.00%	88.80%
(95% CI)	(93.3%-100.00%)	(93.3%-100.0%)	(95.9–100.00%)	(80.3%-94.5%)
Positive Predictive Value	100.00%	100.00%	100.00%	52.4%
(95% CI)	(74.7–100%)	(69.9–100%)	(51.6–100%)	(38.0%-66.4%)
Negative Predictive Value	75.7%	69.7%	100.00%	100.00%
(95% CI)	(68.1%-82.0%)	(63.2%-75.5%)	(90.9–100%)	(89.9–100.0%)
Accuracy	83.0%	77.00%	100.00%	90.0%
(95% CI)	(74.2%-89.3%)	(67.5%-84.8%)	(96.4–100.00%)	(82.4%-95.1%)

ELISA: enzyme-linked immunosorbent assay, MPO: myeloperoxidase, PR3: proteinase 3, AUC: area under the curve, CI: confidence interval