

ONLINE DEPOSITORY

Online Depository Table A.

Long-term repeatability of BH-nNO, OE-R-nNO and TB-nNO.

	Median (range) number of months between occasions	Mean difference (ppb)	SD	Upper limit of agreement (ppb)	Lower limit of agreement (ppb)
BH-nNO (N=50)	3.0 (0.3 to 48.0)	- 5.1	285.5	280.4	-290.6
OE-R-nNO (N=12)	12.6 (0.6 to 24.3)	-20.3	200.5	180.3	-220.8
TB-nNO (N=36)	12.4 (0.5 to 27.6)	0.4	332.9	332.5	-331.8

Online Depository Table B.

Cut-off values, sensitivity, specificity and AUC calculated from ROC curves for BH-nNO, OE-R-nNO and TB-nNO.

	Cut-off, ppb	Sensitivity, %	Specificity, %	AUC	SE	95% CI
BH-nNO (PCD: N=49, HC: N=45)	175	91.1	100	0.95	0.022	0.888 to 0.986
OE-R-nNO (PCD: N=35, HC: N=30)	242	94.3	100	0.97	0.023	0.895 to 0.996
TB-nNO (PCD: N=54, HC: N=52)	158	94.4	100	0.97	0.019	0.910 to 0.991

Online Depository Table C.

Consecutive referrals. Comparison of median (95% CI for the median)) levels of BH-nNO, OE-R-nNO and TB-nNO in discrimination between PCD and non-PCD among 117 patients consecutively referred for PCD work. Numbers are unequal because of different demands to cooperation.

	Referrals without PCD	Referrals with PCD	P-value, two-tailed (Wilcoxon rank test)
BH-nNO	681 (115 to 1287) ppb, n=46	53 (10 to 540) ppb, n=12	P<0.0001
OE-R-nNO	502 (416 to 626) ppb, n=30	21 (4 to 168) ppb, n=6	P<0.001
TB-nNO	269 (17 to 1282) ppb, n=83	41 (6 to 355) ppb, n= 14	P<0.0001

Online Depository Table D.

Consecutive referrals. Sensitivity, specificity, positive predictive value (PPV) and negative predictive value (NPV) when applying cut-off values derived from sub-study 2, in the 117 patients referred for PCD work up. Numbers are unequal because of different demands to cooperation.

	Cut off (ppb)	False positive rate	False negative rate	Sensitivity	Specificity	PPV	NPV
BH-nNO (N=58)	175	2/58 (3.4%)	1/58 (1.7%)	0.92	0.96	0.85	0.98
OE-R-nNO (N=37)	242	2/37 (8.9%)	0/37 (0%)	1.0	0.94	0.75	1.0
TB-nNO (N=97)	158	17/97 (17.5%)	1/97 (1.0%)	0.93	0.80	0.43	0.99