

Title: Contact activation of coagulation in newly inserted indwelling catheters

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Supplementary Table S1

Overview of haemostatic assays*

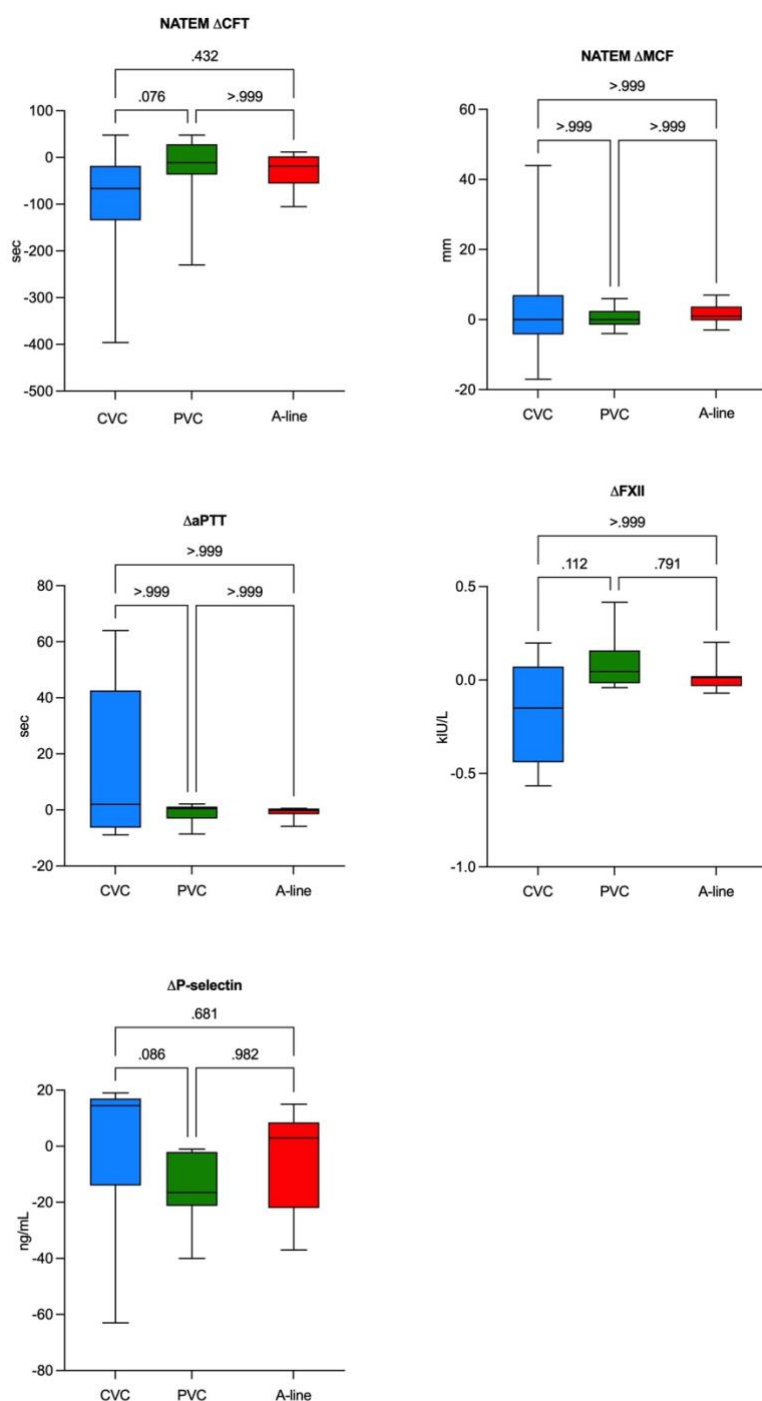
Haemostatic assay	Reference interval	CVC ¹ Sample 1	CVC Sample 2	<i>P</i> value	PVC ² Sample 1	PVC Sample 2	<i>P</i> value	A-line ³ Sample 1	A-line Sample 2	<i>P</i> value
NATEM CT ⁴ , sec	300-1000	149 (94-222)	562 (496-702)	.002	466 (437-583)	489 (463-610)	.16	626 (496-692)	642 (566-736)	.32
NATEM CFT ⁵ , sec	150-700	65 (50-90)	137 (104-194)	.01	119 (101-179)	134 (104-161)	.75	107 (94-176)	150 (103-206)	.04
NATEM α -angle, °	30-70	77 (73-80)	64 (49-70)	.01	67 (58-70)	64 (63-70)	.79	69 (58-72)	65 (54-70)	.08
NATEM MCF ⁶ , mm	40-65	66 (55-77)	66 (52-75)	.85	60 (55-68)	59 (54-68)	.63	61 (55-71)	59 (54-69)	.16
PT-INR ⁷ , INR	0.9-1.2	0.9 (0.8-1.1)	1.0 (0.9-1.2)	.002	1.0 (0.9-1.1)	1.0 (1.0-1.2)	.04	1.0 (0.9-1.1)	1.0 (0.9-1.1)	.19
aPTT ⁸ , sec	26-33	28 (21-74)	28 (23-32)	.28	24 (22-28)	26 (23-29)	.85	23 (22-26)	25 (23-26)	.48
Factor VII, kIU/L	0.7-1.5	1.2 (0.8-1.7)	0.8 (0.7-1.4)	.002	1.0 (0.8-1.2)	0.9 (0.7-1.1)	.03	1.1 (0.8-1.2)	1.1 (0.8-1.2)	.08
Factor XII, kIU/L	0.6-1.5	0.8 (0.7-1.1)	1.0 (0.9-1.2)	.16	1.1 (0.7-1.5)	1.0 (0.7-1.2)	.10	1.0 (0.8-1.4)	1.0 (0.8-1.4)	.77
TAT ⁹ , µg/L	1.0-4.1	64 (35-245)	8.6 (5.9-22)	.002	4.1 (2.6-8.7)	6.4 (2.4-9.6)	.92	2.3 (1.0-21)	2.2 (1.0-4.5)	.25
P-Selectin, ng/mL	0-40	34 (22-37)	22 (20-33)	.63	19 (14-24)	33 (25-41)	.002	30 (26-55)	38 (22-60)	.54

*Results presented as median (IQR). ¹Central venous catheter, ²Peripheral venous catheter, ³Arterial line, ⁴Clotting time, ⁵Clot formation time, ⁶Maximum clot firmness,

⁷Prothrombin time international normalised ratio, ⁸Activated partial thromboplastin time, ⁹Thrombin–antithrombin complex

Supplementary Fig. S1

Box plots depicting the Dunn's multiple comparisons test of the three catheter groups for clot formation time (CFT), maximum clot firmness (MCF), activated partial thromboplastin time (aPTT), Factor XII (FXII) and P-selectin. Whiskers represent min/max values. Abbreviations: CVC = central venous catheter, PVC = peripheral venous catheter, A-line = arterial catheter.



Supplementary Fig. S2

Box plots of the results from the sensitivity analysis of central venous catheter (CVC) samples with two patients excluded due to visible clot formation in Sample 1. Whiskers represent min/max values. Abbreviations: CT = clotting time, CFT = clot formation time, MCF = maximum clot firmness, PT-INR = prothrombin time international normalised ratio, aPTT = activated partial thromboplastin time, FVII = factor VII, FXII = factor XII, TAT = thrombin-antithrombin complex, PVC = peripheral venous catheter, A-line = arterial catheter.

