

## Summary statistics - quantitative results

(Groups: manufacturer of kit)

Filter: minimal size of the groups n = 5

## EQA round: HKG2/20 - Haemocoagulation Tests

Deadline: 19.06.2020

RoM = robust average	AV = assigned value	Dmax = acceptable percent difference
SD = standard deviation	CRV = certified reference value	LL = lower limit
CV = coefficient of variation	RV = reference value	UL = upper limit
Ntot = total number of participants	CVE = consensus value from experts	Neva = number of evaluated participants
Nout = number of results excluded before calculation	CVP = consensus value from all participants	Nsuc = number of successful participants
	CVPG = consensus value from participants groups	Srel = success (relative)
	U <sub>AV</sub> = expanded uncertainty of the assigned value (k = 2)	

Test	[unit]	Comparability						AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>	
		RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>										
<b>(170) APTT - ratio</b>					290								284	274	96%	
Samples and groups	[-]															
<b>Sample A</b>		1,03	0,086	8,3	290								284	283	100%	
(38) IL; (253) IL APTT-SP		0,890	0,04	4,5	27	0	CVPG	0,89	0,019	20%	0,712	1,07			27	
(38) IL; (256) IL SynthASil		1,13	0,051	4,5	10	0	CVPG	1,13	0,039	20%	0,904	1,36			10	
(94) Stago; (260) Stago PTT Automate		0,991	0,047	4,7	17	0	CVPG	0,991	0,028	20%	0,792	1,19			17	
(94) Stago; (265) Stago Cephascreen		1,04	0,047	4,5	17	0	CVPG	1,04	0,028	20%	0,832	1,25			17	
(149) Siemens (BN, Dimension); (240) Siemens (Dade) Actin FS		1,00	0,043	4,3	82	0	CVPG	1	0,011	20%	0,8	1,2			82	
(149) Siemens (BN, Dimension); (241) Siemens (Dade) Actin FSL		1,02	0,031	3,1	25	0	CVPG	1,02	0,015	20%	0,816	1,23			25	
(149) Siemens (BN, Dimension); (242) Siemens (Dade) Pathromtin SL		1,13	0,054	4,7	56	0	CVPG	1,13	0,016	20%	0,904	1,36			56	
(175) DIAGON; (257) Diagon Dia-PTT-Liquid		1,07	0,088	8,3	19	0	CVPG	1,07	0,050	20%	0,856	1,29			19	
(175) DIAGON; (269) Diagon DIA-PTT		0,890	0,12	13	6	0	CVPG	0,89	0,17	20%	0,712	1,07			6	
(179) Siemens; (240) Siemens (Dade) Actin FS		1,02	0,022	2,2	6	0	CVPG	1	0,011	20%	0,8	1,2			6	
(193) HYPHEN BioMed; (266) Hyphen BioMed CEPHEN		1,01	0,041	4,0	11	0	CVPG	1,01	0,030	20%	0,808	1,22			11	
Other					14	0									8	
								1x 46/999, 1x 51/270, 3x 63/242, 2x 64/248, 1x 94/259, 1x 166/248, 1x 179/241, 4x 179/242								
<b>Sample B</b>		1,60	0,23	15	290								284	275	97%	
(38) IL; (253) IL APTT-SP		1,38	0,056	4,1	27	0	CVPG	1,38	0,026	20%	1,1	1,66			27	
(38) IL; (256) IL SynthASil		1,42	0,063	4,4	10	0	CVPG	1,42	0,049	20%	1,13	1,71			10	
(94) Stago; (260) Stago PTT Automate		1,60	0,13	7,8	17	0	CVPG	1,6	0,075	20%	1,28	1,92			17	
(94) Stago; (265) Stago Cephascreen		1,58	0,11	6,7	17	0	CVPG	1,58	0,063	20%	1,26	1,9			17	
(149) Siemens (BN, Dimension); (240) Siemens (Dade) Actin FS		1,48	0,11	7,7	82	0	CVPG	1,49	0,029	20%	1,19	1,79			82	
(149) Siemens (BN, Dimension); (241) Siemens (Dade) Actin FSL		1,63	0,11	7,0	25	0	CVPG	1,63	0,053	20%	1,3	1,96			25	
(149) Siemens (BN, Dimension); (242) Siemens (Dade) Pathromtin SL		1,97	0,13	6,5	56	0	CVPG	1,97	0,039	20%	1,57	2,37			56	
(175) DIAGON; (257) Diagon Dia-PTT-Liquid		1,54	0,17	11	19	0	CVPG	1,54	0,095	20%	1,23	1,85			19	
(175) DIAGON; (269) Diagon DIA-PTT		1,43	0,12	8,1	6	0	CVPG	1,43	0,16	20%	1,14	1,72			6	
(179) Siemens; (240) Siemens (Dade) Actin FS		1,51	0,059	3,9	6	0	CVPG	1,49	0,029	20%	1,19	1,79			6	
(193) HYPHEN BioMed; (266) Hyphen BioMed CEPHEN		1,54	0,067	4,4	11	0	CVPG	1,54	0,050	20%	1,23	1,85			11	
Other					14	0									8	
								1x 46/999, 1x 51/270, 3x 63/242, 2x 64/248, 1x 94/259, 1x 166/248, 1x 179/241, 4x 179/242								
<b>(171) Fibrinogen</b>	[g/L]				222								222	210	95%	
Samples and groups																
<b>Sample A</b>		2,78	0,19	6,7	222		CVP	2,78	0,031	25%	2,08	3,48	222	220	99%	
(38) IL		2,78	0,24	8,6	33	0									33	
(94) Stago		2,84	0,14	4,8	23	0									23	
(149) Siemens (BN, Dimension)		2,77	0,16	5,7	119	0									119	
(175) DIAGON		2,83	0,28	9,9	24	0									24	
(179) Siemens		2,58	0,089	3,4	9	0									9	
(193) HYPHEN BioMed		2,70	0,089	3,3	5	0									5	
Other					9	0									9	
								1x 46, 1x 51, 2x 63, 1x 100, 4x 159								
<b>Sample B</b>		1,14	0,094	8,3	222		CVP	1,14	0,016	25%	0,855	1,43	222	212	95%	
(38) IL		1,23	0,085	6,9	33	0									33	
(94) Stago		1,21	0,072	5,9	23	0									23	
(149) Siemens (BN, Dimension)		1,12	0,076	6,8	119	0									119	
(175) DIAGON		1,07	0,13	12	24	0									24	
(179) Siemens		1,07	0,045	4,2	9	0									9	
(193) HYPHEN BioMed		1,16	0,03	2,6	5	0									5	
Other					9	0									9	
								1x 46, 1x 51, 2x 63, 1x 100, 4x 159								
<b>(177) Antithrombin</b>	[%]				156								156	150	96%	
Samples and groups																
<b>Sample A</b>		93,4	5,0	5,3	156		CVP	93,4	0,98	18%	76,5	111	156	156	100%	
(38) IL		96,3	3,8	3,9	29	0									29	
(94) Stago		92,6	6,4	6,9	15	0									15	
(149) Siemens (BN, Dimension)		92,3	4,1	4,4	76	0									76	
(175) DIAGON		99,4	5,0	5,0	14	0									14	
(179) Siemens		92,2	4,9	5,3	8	0									8	
(193) HYPHEN BioMed		92,0	5,9	6,4	8	0									8	

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## EQA round: HKG2/20 - Haemocoagulation Tests

Deadline: 19.06.2020

Test	[unit]	RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	Comparability						N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>
							AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL				
<b>(177) Antithrombin</b>					156								156	150	96%
--- Samples and groups ---	[%]														
<b>Sample A</b>		93,4	5,0	5,3	156		CVP	93,4	0,98	18%	76,5	111	156	156	100%
Other					6	0							6		
							1x 46, 1x 60, 2x 63, 1x 100, 1x 159								
<b>Sample B</b>		38,7	4,2	11	156		CVP	38,7	0,82	25%	29	48,4	156	150	96%
(38) IL		38,8	3,2	8,3	29	0							29		
(94) Stago		38,5	4,3	11	15	0							15		
(149) Siemens (BN, Dimension)		38,2	4,1	11	76	0							76		
(175) DIAGON		44,2	7,5	17	14	0							14		
(179) Siemens		36,8	2,1	5,6	8	0							8		
(193) HYPHEN BioMed		38,4	6,4	17	8	0							8		
Other					6	0							6		
							1x 46, 1x 60, 2x 63, 1x 100, 1x 159								
<b>(172) Prothrombin test (INR)</b>					296								296	281	95%
--- Samples and groups ---	[-]														
<b>Sample A</b>		1,03	0,054	5,3	296		CVP	1,03	0,077	20%	0,824	1,24	296	294	99%
(38) IL		1,01	0,043	4,3	37	0							37		
(94) Stago		1,05	0,061	5,8	38	0							38		
(149) Siemens (BN, Dimension)		1,02	0,047	4,6	165	0							165		
(175) DIAGON		1,11	0,066	5,9	26	0							26		
(179) Siemens		1,01	0,048	4,8	13	0							13		
Other					17	0							17		
							3x 46, 2x 51, 2x 63, 3x 64, 2x 100, 1x 166, 4x 999								
<b>Sample B</b>		1,67	0,16	9,6	296		CVP	1,67	0,064	20%	1,49	2,25	296	282	95%
(3) Coagulometr (trom. rabbit br.); (94) Stago		1,88	0,13	7,1	30	0	CVPG	1,87	0,064	20%	1,49	2,25	30		
(3) Coagulometr (trom. rabbit br.); (175) DIAGON		2,05	0,22	11	19	0	CVPG	1,87	0,064	20%	1,49	2,25	19		
(38) IL		1,71	0,088	5,2	36	0	CVP	1,62	0,019	20%	1,29	1,95	36		
(94) Stago		1,83	0,23	13	8	0	CVP	1,62	0,019	20%	1,29	1,95	8		
(149) Siemens (BN, Dimension)		1,60	0,095	5,9	162	0	CVP	1,62	0,019	20%	1,29	1,95	162		
(175) DIAGON		2,04	0,082	4,0	7	0	CVP	1,62	0,019	20%	1,29	1,95	7		
(179) Siemens		1,57	0,079	5,0	13	0	CVP	1,62	0,019	20%	1,29	1,95	13		
Other					21	0							21		
							1x 3/38, 3x 3/46, 2x 3/51, 3x 3/64, 2x 3/100, 3x 3/149, 1x 3/166, 4x 3/999, 2x 63								
<b>(179) Prothrombin test (ratio)</b>					296								296	285	96%
--- Samples and groups ---	[-]														
<b>Sample A</b>		1,03	0,053	5,1	296		CVP	1,03	0,075	20%	0,824	1,24	296	296	100%
(38) IL		1,01	0,045	4,4	37	0							37		
(94) Stago		1,05	0,059	5,6	37	0							37		
(149) Siemens (BN, Dimension)		1,02	0,046	4,5	164	0							164		
(175) DIAGON		1,12	0,059	5,2	26	0							26		
(179) Siemens		1,01	0,051	5,0	14	0							14		
Other					18	0							18		
							2x 27, 3x 46, 2x 51, 2x 63, 2x 64, 2x 100, 1x 166, 4x 999								
<b>Sample B</b>		1,63	0,15	9,0	296		CVP	1,63	0,021	20%	1,3	1,96	296	285	96%
(38) IL		1,71	0,098	5,7	37	0							37		
(94) Stago		1,82	0,14	7,6	37	0							37		
(149) Siemens (BN, Dimension)		1,56	0,086	5,5	164	0							164		
(175) DIAGON		1,84	0,14	7,8	26	0							26		
(179) Siemens		1,57	0,087	5,5	14	0							14		
Other					18	0							18		
							2x 27, 3x 46, 2x 51, 2x 63, 2x 64, 2x 100, 1x 166, 4x 999								
<b>(173) Thrombin time (time)</b>					131								103	103	100%
--- Samples and groups ---	[s]														
<b>Sample A</b>		15,3	1,5	9,7	131								103	103	100%
(3) Thrombin units: 1,5 IU/mL (NIH); (94) Stago		15,8	0,37	2,3	11	0	CVPG	15,8	0,27	20%	12,6	19	11		
(5) Thrombin units: 2,5 IU/mL (NIH); (149) Siemens (BN, Dimension)		14,5	0,54	3,7	60	0	CVPG	14,5	0,17	20%	11,6	17,4	60		
(5) Thrombin units: 2,5 IU/mL (NIH); (179) Siemens		14,7	1,1	7,6	8	0	CVPG	14,7	0,85	20%	11,7	17,7	8		
(6) Thrombin units: 3 IU/mL (NIH); (38) IL		16,1	0,43	2,7	17	0	CVPG	16,1	0,25	20%	12,8	19,4	17		
(7) Thrombin units: 5 IU/mL (NIH); (175) DIAGON		20,5	1,5	7,2	7	0	CVPG	20,5	1,4	20%	16,4	24,6	7		
Other					28	0							0		
							1x 1/63, 1x 1/126, 4x 1/149, 4x 1/175, 2x 1/179, 1x 2/94, 1x 2/193, 1x 2/999, 4x 3/149, 1x 4/159, 1x 6/149, 1x 6/998, 2x 7/38, 2x 99/38, 1x 99/46, 1x 99/100								
<b>Sample B</b>		18,1	4,4	25	131								103	103	100%
(3) Thrombin units: 1,5 IU/mL (NIH); (94) Stago		16,9	0,49	2,9	11	0	CVPG	16,9	0,36	20%	13,5	20,3	11		
(5) Thrombin units: 2,5 IU/mL (NIH); (149) Siemens (BN, Dimension)		15,5	0,77	5,0	60	0	CVPG	15,5	0,24	20%	12,4	18,6	60		
(5) Thrombin units: 2,5 IU/mL (NIH); (179) Siemens		15,9	1,4	8,9	8	0	CVPG	15,9	1,1	20%	12,7	19,1	8		
(6) Thrombin units: 3 IU/mL (NIH); (38) IL		25,2	1,1	4,4	17	0	CVPG	25,2	0,66	20%	20,1	30,3	17		

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Test	[unit]	RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	Comparability						N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>
							AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL				
<b>(173) Thrombin time (time)</b>					131							103	103	100%	
Samples and groups	[s]														
<b>Sample B</b>		18,1	4,4	25	131							103	103	100%	
(7) Thrombin units: 5 IU/mL (NIH); (175) DIAGON		23,7	2,9	12	7	0	CVPG	23,7	2,8	20%	18,9	28,5	7		
Other					28	1							0		
								1x 1/63, 1x 1/126, 4x 1/149, 4x 1/175, 2x 1/179, 1x 2/94, 1x 2/193, 1x 2/999, 4x 3/149, 1x 4/159, 1x 6/149, 1x 6/998, 2x 7/38, 2x 99/38, 1x 99/46, 1x 99/100							
<b>(174) Thrombin time (ratio)</b>					109							90	86	96%	
Samples and groups	[-]														
<b>Sample A</b>		0,971	0,093	9,6	109							90	88	98%	
(3) Thrombin units: 1,5 IU/mL (NIH); (94) Stago		0,930	0,042	4,5	11	0	CVPG	0,93	0,031	20%	0,744	1,12	11		
(3) Thrombin units: 1,5 IU/mL (NIH); (149) Siemens (BN, Dimension)		1,02	0,074	7,3	5	0	CVPG	1,02	0,21	20%	0,816	1,23	5		
(5) Thrombin units: 2,5 IU/mL (NIH); (149) Siemens (BN, Dimension)		0,925	0,046	5,0	46	0	CVPG	0,925	0,017	20%	0,74	1,11	46		
(5) Thrombin units: 2,5 IU/mL (NIH); (179) Siemens		0,895	0,052	5,8	6	0	CVPG	0,895	0,073	20%	0,716	1,08	6		
(6) Thrombin units: 3 IU/mL (NIH); (38) IL		1,11	0,068	6,1	15	0	CVPG	1,11	0,043	20%	0,888	1,34	15		
(7) Thrombin units: 5 IU/mL (NIH); (175) DIAGON		1,02	0,052	5,1	7	0	CVPG	1,02	0,050	20%	0,816	1,23	7		
Other					19	0							0		
								1x 1/126, 1x 1/149, 4x 1/175, 1x 2/94, 1x 2/193, 1x 2/999, 1x 4/159, 1x 6/51, 1x 6/149, 1x 6/998, 2x 7/38, 2x 99/38, 1x 99/46, 1x 99/100							
<b>Sample B</b>		1,09	0,18	16	109							90	88	98%	
(3) Thrombin units: 1,5 IU/mL (NIH); (94) Stago		0,994	0,062	6,3	11	0	CVPG	0,994	0,046	20%	0,795	1,2	11		
(3) Thrombin units: 1,5 IU/mL (NIH); (149) Siemens (BN, Dimension)		1,10	0,052	4,7	5	0	CVPG	1,1	0,15	20%	0,88	1,32	5		
(5) Thrombin units: 2,5 IU/mL (NIH); (149) Siemens (BN, Dimension)		0,985	0,047	4,7	46	0	CVPG	0,985	0,017	20%	0,788	1,19	46		
(5) Thrombin units: 2,5 IU/mL (NIH); (179) Siemens		0,955	0,052	5,4	6	0	CVPG	0,955	0,073	20%	0,764	1,15	6		
(6) Thrombin units: 3 IU/mL (NIH); (38) IL		1,75	0,11	6,4	15	0	CVPG	1,75	0,070	20%	1,4	2,1	15		
(7) Thrombin units: 5 IU/mL (NIH); (175) DIAGON		1,17	0,056	4,7	7	0	CVPG	1,17	0,054	20%	0,936	1,41	7		
Other					19	0							0		
								1x 1/126, 1x 1/149, 4x 1/175, 1x 2/94, 1x 2/193, 1x 2/999, 1x 4/159, 1x 6/51, 1x 6/149, 1x 6/998, 2x 7/38, 2x 99/38, 1x 99/46, 1x 99/100							

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End of report

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