

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

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 _{AV} = expanded uncertainty of the assigned value (k = 2)	

Test	[unit]	Comparability					Comparability							
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}
(170) APTT - ratio					290							284	274	96%
Samples and groups	[-]													
Sample A		1,03	0,086	8,3	290							284	283	100%
(38) IL; (253) IL APTT-SP		0,888	0,04	4,5	26	0	CVPG	0,89	0,019	20%	0,712	1,07		26
(38) IL; (256) IL SynthASil		1,11	0,015	1,3	9	0	CVPG	1,13	0,039	20%	0,904	1,36		9
(63) Sysmex; (240) Siemens (Dade) Actin FS		1,00	0,043	4,3	72	0	CVPG	1	0,011	20%	0,8	1,2		72
(63) Sysmex; (241) Siemens (Dade) Actin FSL		1,01	0,028	2,8	20	0	CVPG	1,02	0,015	20%	0,816	1,23		20
(63) Sysmex; (242) Siemens (Dade) Pathromtin SL		1,13	0,052	4,6	57	0	CVPG	1,13	0,016	20%	0,904	1,36		57
(63) Sysmex; (257) Diagon Dia-PTT-Liquid		1,09	0,10	9,1	12	0	CVPG	1,07	0,050	20%	0,856	1,29		12
(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		1,05	0,044	4,2	16	0	CVPG	1,04	0,028	20%	0,832	1,25		16
(149) Siemens (BN, Dimension); (240) Siemens (Dade) Actin FS		1,00	0,055	5,5	12	0	CVPG	1	0,011	20%	0,8	1,2		12
(149) Siemens (BN, Dimension); (241) Siemens (Dade) Actin FSL		1,04	0,022	2,1	6	0	CVPG	1,02	0,015	20%	0,816	1,23		6
(175) DIAGON; (257) Diagon Dia-PTT-Liquid		1,05	0,067	6,4	7	0	CVPG	1,07	0,050	20%	0,856	1,29		7
Other					36	0								30
														1x 5/240, 1x 12/256, 1x 27/242, 1x 27/248, 1x 27/265, 1x 27/269, 1x 38/240, 1x 38/266, 1x 46/266, 1x 46/999, 1x 51/253, 1x 51/270, 3x 63/266, 4x 63/269, 1x 94/242, 1x 94/259...
Sample B		1,60	0,23	15	290							284	275	97%
(38) IL; (253) IL APTT-SP		1,38	0,055	4,0	26	0	CVPG	1,38	0,026	20%	1,1	1,66		26
(38) IL; (256) IL SynthASil		1,42	0,045	3,1	9	0	CVPG	1,42	0,049	20%	1,13	1,71		9
(63) Sysmex; (240) Siemens (Dade) Actin FS		1,48	0,11	7,4	72	0	CVPG	1,49	0,029	20%	1,19	1,79		72
(63) Sysmex; (241) Siemens (Dade) Actin FSL		1,63	0,11	7,0	20	0	CVPG	1,63	0,053	20%	1,3	1,96		20
(63) Sysmex; (242) Siemens (Dade) Pathromtin SL		1,97	0,13	6,4	57	0	CVPG	1,97	0,039	20%	1,57	2,37		57
(63) Sysmex; (257) Diagon Dia-PTT-Liquid		1,56	0,19	12	12	0	CVPG	1,54	0,095	20%	1,23	1,85		12
(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		1,59	0,099	6,2	16	0	CVPG	1,58	0,063	20%	1,26	1,9		16
(149) Siemens (BN, Dimension); (240) Siemens (Dade) Actin FS		1,55	0,17	11	12	0	CVPG	1,49	0,029	20%	1,19	1,79		12
(149) Siemens (BN, Dimension); (241) Siemens (Dade) Actin FSL		1,63	0,095	5,8	6	0	CVPG	1,63	0,053	20%	1,3	1,96		6
(175) DIAGON; (257) Diagon Dia-PTT-Liquid		1,51	0,14	9,4	7	0	CVPG	1,54	0,095	20%	1,23	1,85		7
Other					36	0								30
														1x 5/240, 1x 12/256, 1x 27/242, 1x 27/248, 1x 27/265, 1x 27/269, 1x 38/240, 1x 38/266, 1x 46/266, 1x 46/999, 1x 51/253, 1x 51/270, 3x 63/266, 4x 63/269, 1x 94/242, 1x 94/259...
(171) Fibrinogen					222							222	210	95%
Samples and groups	[g/L]													
Sample A		2,78	0,19	6,7	222		CVP	2,78	0,031	25%	2,08	3,48		222
(38) IL		2,77	0,23	8,2	32	0								32
(63) Sysmex		2,76	0,19	6,7	135	0								135
(94) Stago		2,82	0,15	5,4	29	0								29
(149) Siemens (BN, Dimension)		2,78	0,14	5,1	12	0								12
(175) DIAGON		2,79	0,096	3,5	7	0								7
Other					7	0								7
														1x 12, 1x 46, 1x 51, 2x 179, 2x 999
Sample B		1,14	0,094	8,3	222		CVP	1,14	0,016	25%	0,855	1,43		222
(38) IL		1,22	0,085	6,9	32	0								32
(63) Sysmex		1,11	0,078	7,0	135	0								135
(94) Stago		1,21	0,073	6,0	29	0								29
(149) Siemens (BN, Dimension)		1,09	0,16	14	12	0								12
(175) DIAGON		1,13	0,096	8,6	7	0								7
Other					7	0								7
														1x 12, 1x 46, 1x 51, 2x 179, 2x 999
(177) Antithrombin					156							156	150	96%
Samples and groups	[%]													
Sample A		93,4	5,0	5,3	156		CVP	93,4	0,98	18%	76,5	111		156
(38) IL		96,3	3,9	4,1	28	0								28
(63) Sysmex		92,6	4,6	5,0	92	0								92
(94) Stago		92,0	6,9	7,5	17	0								17
(149) Siemens (BN, Dimension)		94,8	9,7	10	7	0								7
(175) DIAGON		98,4	0,740	7,5	6	0								6
Other					6	0								6
														1x 12, 1x 46, 1x 58, 1x 179, 1x 193, 1x 999

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EQA round: HKG2/20 - Haemocoagulation Tests

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Test	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability								
							AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}	
Sample B		38,7	4,2	11	156		CVP	38,7	0,82	25%	29	48,4	156	150	96%
(38) IL		38,6	3,1	8,0	28	0									28
(63) Sysmex		38,4	4,2	11	92	0									92
(94) Stago		38,5	4,4	11	17	0									17
(149) Siemens (BN, Dimension)		41,6	10	25	7	0									7
(175) DIAGON		42,0	8,9	21	6	0									6
Other					6	0									6
															1x 12, 1x 46, 1x 58, 1x 179, 1x 193, 1x 999
(172) Prothrombin test (INR)					296								296	281	95%
Samples and groups	[-]														
Sample A		1,03	0,054	5,3	296		CVP	1,03	,0077	20%	0,824	1,24	296	294	99%
(27) Behnk Electronic		1,03	0,045	4,3	5	0									5
(38) IL		1,00	0,043	4,2	35	0									35
(63) Sysmex		1,02	0,052	5,1	167	0									167
(94) Stago		1,05	0,065	6,2	38	0									38
(149) Siemens (BN, Dimension)		1,03	0,053	5,2	27	0									27
(175) DIAGON		1,10	0,037	3,4	7	0									7
(999) another manufacturer		1,03	0,013	1,2	6	0									6
Other					11	0									11
															1x 5, 1x 12, 4x 46, 2x 51, 1x 125, 2x 179
Sample B		1,67	0,16	9,6	296								296	282	95%
(3) Coagulometr (trom. rabbit br.); (63) Sysmex		1,98	0,30	15	17	0	CVPG	1,87	0,064	20%	1,49	2,25			17
(3) Coagulometr (trom. rabbit br.); (94) Stago		1,88	0,14	7,5	28	0	CVPG	1,87	0,064	20%	1,49	2,25			28
(3) Coagulometr (trom. rabbit br.); (175) DIAGON		2,04	0,045	2,2	5	0	CVPG	1,87	0,064	20%	1,49	2,25			5
(3) Coagulometr (trom. rabbit br.); (999) another manufacturer		1,65	0,13	8,1	5	0	CVPG	1,87	0,064	20%	1,49	2,25			5
(38) IL		1,71	0,081	4,7	34	0	CVP	1,62	0,019	20%	1,29	1,95			34
(63) Sysmex		1,59	0,088	5,6	150	0	CVP	1,62	0,019	20%	1,29	1,95			150
(94) Stago		1,82	0,22	12	10	0	CVP	1,62	0,019	20%	1,29	1,95			10
(149) Siemens (BN, Dimension)		1,68	0,16	9,8	26	0	CVP	1,62	0,019	20%	1,29	1,95			26
Other					21	0									21
															4x 3/27, 1x 3/38, 4x 3/46, 2x 3/51, 1x 3/125, 1x 3/149, 1x 5, 1x 12, 1x 27, 2x 175, 2x 179, 1x 999
(179) Prothrombin test (ratio)					296								296	285	96%
Samples and groups	[-]														
Sample A		1,03	0,053	5,1	296		CVP	1,03	,0075	20%	0,824	1,24	296	296	100%
(38) IL		1,00	0,044	4,3	35	0									35
(63) Sysmex		1,02	0,052	5,1	167	0									167
(94) Stago		1,05	0,061	5,8	39	0									39
(149) Siemens (BN, Dimension)		1,02	0,064	6,3	26	0									26
(175) DIAGON		1,08	0,027	2,5	7	0									7
(999) another manufacturer		1,03	0,014	1,4	6	0									6
Other					16	0									16
															1x 5, 1x 12, 3x 27, 4x 46, 2x 51, 1x 64, 1x 125, 3x 179
Sample 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	0,093	5,4	35	0									35
(63) Sysmex		1,57	0,099	6,3	167	0									167
(94) Stago		1,81	0,15	8,0	39	0									39
(149) Siemens (BN, Dimension)		1,60	0,13	8,3	26	0									26
(175) DIAGON		1,75	0,033	1,9	7	0									7
(999) another manufacturer		1,61	0,19	12	6	0									6
Other					16	0									16
															1x 5, 1x 12, 3x 27, 4x 46, 2x 51, 1x 64, 1x 125, 3x 179
(173) Thrombin time (time)					131								103	103	100%
Samples and groups	[s]														
Sample A		15,3	1,5	9,7	131								103	103	100%
(3) Thrombin units: 1,5 IU/mL (NIH); (94) Stago; (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); (63) Sysmex		14,5	0,51	3,5	57	0	CVPG	14,5	0,17	20%	11,6	17,4			57
(5) Thrombin units: 2,5 IU/mL (NIH); (179) Siemens; (63) Sysmex		14,8	0,96	6,5	7	0	CVPG	14,7	0,85	20%	11,7	17,7			7
(6) Thrombin units: 3 IU/mL (NIH); (38) IL; (38) IL		16,1	0,43	2,7	17	0	CVPG	16,1	0,25	20%	12,8	19,4			17
Other					39	0									11
															1x 1/63/63, 1x 1/126/149, 4x 1/149/63, 2x 1/175/63, 2x 1/175/175, 2x 1/179/63, 1x 2/94/94, 1x 2/193/94, 1x 2/999/999, 2x 3/149/63, 1x 3/149/94, 1x 3/149/149, 1x 4/159/94...
Sample B		18,1	4,4	25	131								103	103	100%
(3) Thrombin units: 1,5 IU/mL (NIH); (94) Stago; (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); (63) Sysmex		15,5	0,70	4,5	57	0	CVPG	15,5	0,24	20%	12,4	18,6			57
(5) Thrombin units: 2,5 IU/mL (NIH); (179) Siemens; (63) Sysmex		15,9	1,4	8,9	7	0	CVPG	15,9	1,1	20%	12,7	19,1			7

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Test	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability						N _{eva}	N _{suc}	S _{rel}
							AV	U _{AV}	D _{max}	LL	UL				
(173) Thrombin time (time)					131								103	103	100%
Samples and groups	[s]														
Sample B		18,1	4,4	25	131								103	103	100%
(6) Thrombin units: 3 IU/mL (NIH); (38) IL; (38) IL		25,2	1,1	4,4	17	0	CVPG	25,2	0,66	20%	20,1	30,3	17		
Other					39	1							11		
								1x 1/63/63, 1x 1/126/149, 4x 1/149/63, 2x 1/175/63, 2x 1/175/175, 2x 1/179/63, 1x 2/94/94, 1x 2/193/94, 1x 2/999/999, 2x 3/149/63, 1x 3/149/94, 1x 3/149/149, 1x 4/159/94...							
(174) Thrombin time (ratio)					109								90	86	96%
Samples and groups	[-]														
Sample A		0,971	0,093	9,6	109								90	88	98%
(3) Thrombin units: 1,5 IU/mL (NIH); (94) Stago; (94) Stago		0,930	0,042	4,5	11	0	CVPG	0,93	0,031	20%	0,744	1,12	11		
(5) Thrombin units: 2,5 IU/mL (NIH); (149) Siemens (BN, Dimension); (63) Sysmex		0,926	0,043	4,6	43	0	CVPG	0,925	0,017	20%	0,74	1,11	43		
(5) Thrombin units: 2,5 IU/mL (NIH); (179) Siemens; (63) Sysmex		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; (38) IL		1,11	0,068	6,1	15	0	CVPG	1,11	0,043	20%	0,888	1,34	15		
Other					34	0							15		
								1x 1/126/149, 1x 1/149/63, 2x 1/175/63, 2x 1/175/175, 1x 2/94/94, 1x 2/193/94, 1x 2/999/999, 3x 3/149/63, 1x 3/149/94, 1x 3/149/149, 1x 4/159/94, 3x 5/149/149, 1x							
Sample B		1,09	0,18	16	109								90	88	98%
(3) Thrombin units: 1,5 IU/mL (NIH); (94) Stago; (94) Stago		0,994	0,062	6,3	11	0	CVPG	0,994	0,046	20%	0,795	1,2	11		
(5) Thrombin units: 2,5 IU/mL (NIH); (149) Siemens (BN, Dimension); (63) Sysmex		0,985	0,044	4,5	43	0	CVPG	0,985	0,017	20%	0,788	1,19	43		
(5) Thrombin units: 2,5 IU/mL (NIH); (179) Siemens; (63) Sysmex		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; (38) IL		1,75	0,11	6,4	15	0	CVPG	1,75	0,070	20%	1,4	2,1	15		
Other					34	0							15		
								1x 1/126/149, 1x 1/149/63, 2x 1/175/63, 2x 1/175/175, 1x 2/94/94, 1x 2/193/94, 1x 2/999/999, 3x 3/149/63, 1x 3/149/94, 1x 3/149/149, 1x 4/159/94, 3x 5/149/149, 1x							

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End of report

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