

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of the groups n = 5

EQA round: HKG4/21 - Haemocoagulation Tests

Deadline: 19.11.2021

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 the 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								
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}	
(170) APTT - ratio					306							295	288	98%	
----- Samples and groups -----	----- [-] -----														
Sample A		1,10	0,084	7,7	306							295	294	100%	
(38) IL; (253) IL APTT-SP		0,951	0,052	5,4	22	0	CVPG	0,952	0,026	20%	0,761	1,15	22		
(38) IL; (256) IL SynthASil		1,14	0,052	4,6	9	0	CVPG	1,13	0,036	20%	0,904	1,36	9		
(63) Sysmex; (240) Siemens (Dade) Actin FS		1,15	0,046	4,0	77	0	CVPG	1,14	0,013	20%	0,912	1,37	77		
(63) Sysmex; (241) Siemens (Dade) Actin FSL		1,01	0,035	3,5	22	0	CVPG	1,01	0,017	20%	0,808	1,22	22		
(63) Sysmex; (242) Siemens (Dade) Pathromtin SL		1,15	0,047	4,1	70	0	CVPG	1,15	0,012	20%	0,92	1,38	70		
(63) Sysmex; (246) Mindray APTT Reagent		0,995	0,037	3,7	5	0	CVPG	0,995	0,046	20%	0,796	1,2	5		
(94) Stago; (260) Stago PTT Automate		1,05	0,043	4,1	16	0	CVPG	1,05	0,026	20%	0,84	1,26	16		
(94) Stago; (265) Stago Cephascreen		1,06	0,048	4,5	15	0	CVPG	1,05	0,030	20%	0,84	1,26	15		
(149) Siemens (Dade, BN, Dimension); (240) Siemens (Dade) Actin FS		1,12	0,062	5,6	13	0	CVPG	1,14	0,013	20%	0,912	1,37	13		
(149) Siemens (Dade, BN, Dimension); (241) Siemens (Dade) Actin FSL		1,04	0,022	2,1	5	0	CVPG	1,01	0,017	20%	0,808	1,22	5		
(149) Siemens (Dade, BN, Dimension); (242) Siemens (Dade) Pathromtin SL		1,14	0,04	3,5	10	0	CVPG	1,15	0,012	20%	0,92	1,38	10		
(175) DIAGON; (257) Diagon Dia-PTT-Liquid		1,09	0,037	3,4	5	0	CVPG	1,09	0,046	20%	0,872	1,31	5		
Other					37	0							26		
								2x 12/256, 1x 27/265, 1x 27/269, 1x 38/266, 1x 38/999, 1x 46/266, 1x 46/999, 1x 51/253, 1x 51/270, 4x 63/257, 1x 63/266, 2x 63/269, 1x 94/242, 2x 94/259, 2x 94/266, 1x 175/269...					295	289	98%
Sample B		2,45	0,44	18	306										
(38) IL; (253) IL APTT-SP		2,09	0,12	5,7	22	0	CVPG	2,09	0,059	20%	1,67	2,51	22		
(38) IL; (256) IL SynthASil		2,03	0,096	4,8	9	0	CVPG	2,04	0,087	20%	1,63	2,45	9		
(63) Sysmex; (240) Siemens (Dade) Actin FS		2,36	0,11	4,8	77	0	CVPG	2,37	0,034	20%	1,89	2,85	77		
(63) Sysmex; (241) Siemens (Dade) Actin FSL		1,87	0,13	6,8	22	0	CVPG	1,88	0,058	20%	1,5	2,26	22		
(63) Sysmex; (242) Siemens (Dade) Pathromtin SL		3,01	0,16	5,2	70	0	CVPG	3	0,043	20%	2,4	3,6	70		
(63) Sysmex; (246) Mindray APTT Reagent		2,37	0,17	7,2	5	0	CVPG	2,32	0,13	20%	1,85	2,79	5		
(94) Stago; (260) Stago PTT Automate		2,23	0,088	3,9	16	0	CVPG	2,23	0,054	20%	1,78	2,68	16		
(94) Stago; (265) Stago Cephascreen		2,11	0,14	6,8	15	0	CVPG	2,11	0,081	20%	1,68	2,54	15		
(149) Siemens (Dade, BN, Dimension); (240) Siemens (Dade) Actin FS		2,48	0,21	8,6	13	0	CVPG	2,37	0,034	20%	1,89	2,85	13		
(149) Siemens (Dade, BN, Dimension); (241) Siemens (Dade) Actin FSL		1,97	0,067	3,4	5	0	CVPG	1,88	0,058	20%	1,5	2,26	5		
(149) Siemens (Dade, BN, Dimension); (242) Siemens (Dade) Pathromtin SL		2,98	0,11	3,7	10	1	CVPG	3	0,043	20%	2,4	3,6	10		
(175) DIAGON; (257) Diagon Dia-PTT-Liquid		2,72	0,045	1,6	5	0	CVPG	2,62	0,25	20%	2,09	3,15	5		
Other					37	0							26		
								2x 12/256, 1x 27/265, 1x 27/269, 1x 38/266, 1x 38/999, 1x 46/266, 1x 46/999, 1x 51/253, 1x 51/270, 4x 63/257, 1x 63/266, 2x 63/269, 1x 94/242, 2x 94/259, 2x 94/266, 1x 175/269...					295	289	98%
(171) Fibrinogen					237							237	229	97%	
----- Samples and groups -----	----- [g/L] -----														
Sample A		3,25	0,22	6,8	237		CVP	3,25	0,035	25%	2,43	4,07	237	233	98%
(38) IL		3,28	0,19	5,8	28	0							28		
(63) Sysmex		3,25	0,22	6,7	144	0							144		
(94) Stago		3,30	0,15	4,5	28	0							28		
(149) Siemens (Dade, BN, Dimension)		3,36	0,39	12	16	0							16		
(175) DIAGON		2,98	0,27	9,0	6	0							6		
(177) Mindray		3,09	0,29	9,4	5	0							5		
Other					10	0							10		
								2x 12, 1x 46, 1x 51, 4x 179, 2x 999							
Sample B		1,43	0,14	10	237		CVP	1,43	0,023	25%	1,07	1,79	237	231	97%
(38) IL		1,54	0,094	6,1	28	0							28		
(63) Sysmex		1,37	0,10	7,6	144	0							144		
(94) Stago		1,57	0,085	5,5	28	0							28		
(149) Siemens (Dade, BN, Dimension)		1,52	0,29	19	16	0							16		
(175) DIAGON		1,46	0,082	5,6	6	0							6		
(177) Mindray		1,50	0,12	7,9	5	0							5		
Other					10	0							10		
								2x 12, 1x 46, 1x 51, 4x 179, 2x 999							
(177) Antithrombin					171							171	162	95%	
----- Samples and groups -----	----- [%] -----														
Sample A		106	5,1	4,9	171		CVP	106	0,96	18%	86,9	126	171	170	99%

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of the groups n = 5

EQA round: HKG4/21 - Haemocoagulation Tests

Deadline: 19.11.2021

Test	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability						N _{eva}	N _{suc}	S _{rel}	
							AV	U _{AV}	D _{max}	LL	UL					
(177) Antithrombin					171								171	162	95%	
Samples and groups	[%]															
Sample A		106	5,1	4,9	171		CVP	106	0,96	18%	86,9	126	171	170	99%	
(38) IL		106	4,9	4,6	27	0							27			
(63) Sysmex		105	4,9	4,6	96	0							96			
(94) Stago		107	6,3	5,9	19	0							19			
(149) Siemens (Dade, BN, Dimension)		102	4,8	4,7	11	0							11			
(175) DIAGON		105	3,9	3,7	5	0							5			
Other					13	0							13			
							2x 12, 1x 46, 1x 58, 1x 162, 4x 177, 2x 179, 1x 193, 1x 999									
Sample B		55,0	4,5	8,2	171		CVP	55	0,85	18%	45,1	64,9	171	162	95%	
(38) IL		53,5	3,5	6,6	27	0							27			
(63) Sysmex		54,1	3,7	6,9	96	0							96			
(94) Stago		60,8	3,3	5,4	19	0							19			
(149) Siemens (Dade, BN, Dimension)		52,9	4,6	8,6	11	0							11			
(175) DIAGON		57,0	2,9	5,1	5	0							5			
Other					13	0							13			
							2x 12, 1x 46, 1x 58, 1x 162, 4x 177, 2x 179, 1x 193, 1x 999									
(172) Prothrombin test (INR)					315								306	295	96%	
Samples and groups	[-]															
Sample A		1,03	0,052	5,1	315		CVP	1,03	,0072	20%	0,824	1,24	315	314	100%	
(27) Behnk Electronic		1,01	0,0070	7,4	5	0							5			
(38) IL		1,04	0,064	6,1	32	0							32			
(63) Sysmex		1,03	0,051	4,9	181	0							181			
(94) Stago		1,01	0,033	3,3	37	0							37			
(149) Siemens (Dade, BN, Dimension)		1,02	0,061	6,0	31	0							31			
(175) DIAGON		1,07	0,022	2,1	6	0							6			
(177) Mindray		1,07	0,015	1,4	5	0							5			
(179) Siemens		1,04	0,037	3,6	5	0							5			
(999) another manufacturer		0,965	0,14	15	6	0							6			
Other					7	0							7			
							2x 12, 4x 46, 1x 51									
Sample B		2,94	0,30	10	315								306	295	96%	
(27) Behnk Electronic		3,00	0,31	10	5	0	CVP	2,96	0,040	20%	2,36	3,56	5			
(38) IL		2,63	0,13	4,9	32	0	CVP	2,96	0,040	20%	2,36	3,56	32			
(63) Sysmex		3,00	0,23	7,7	177	0	CVP	2,96	0,040	20%	2,36	3,56	177			
(94) Stago		3,03	0,21	6,9	37	0	CVP	2,96	0,040	20%	2,36	3,56	37			
(149) Siemens (Dade, BN, Dimension)		3,10	0,41	13	31	0	CVP	2,96	0,040	20%	2,36	3,56	31			
(175) DIAGON		2,87	0,58	20	6	0	CVP	2,96	0,040	20%	2,36	3,56	6			
(179) Siemens		3,27	0,42	13	5	0	CVP	2,96	0,040	20%	2,36	3,56	5			
(999) another manufacturer		2,79	0,35	12	6	0	CVP	2,96	0,040	20%	2,36	3,56	6			
(177) Mindray; (177) Mindray		1,92	0,082	4,3	5	0	CVPG	1,92	0,10	20%	1,53	2,31	0			
Other					11	0							7			
							2x 12, 4x 46, 1x 51, 4x 177/63									
(179) Prothrombin test (ratio)					313								304	291	96%	
Samples and groups	[-]															
Sample A		1,03	0,051	4,9	313		CVP	1,03	,0070	20%	0,824	1,24	313	312	100%	
(38) IL		1,04	0,062	6,0	32	0							32			
(63) Sysmex		1,03	0,051	5,0	180	0							180			
(94) Stago		1,01	0,031	3,1	37	0							37			
(149) Siemens (Dade, BN, Dimension)		1,02	0,059	5,8	31	0							31			
(175) DIAGON		1,03	0,052	5,1	6	0							6			
(177) Mindray		1,07	0,015	1,4	5	0							5			
(179) Siemens		1,03	0,032	3,1	5	0							5			
(999) another manufacturer		0,967	0,12	13	6	0							6			
Other					11	0							11			
							2x 12, 4x 27, 4x 46, 1x 51									
Sample B		2,86	0,27	9,5	313								304	292	96%	
(38) IL		2,65	0,14	5,4	32	0	CVP	2,87	0,036	20%	2,29	3,45	32			
(63) Sysmex		2,94	0,23	8,0	176	0	CVP	2,87	0,036	20%	2,29	3,45	176			
(94) Stago		2,84	0,18	6,3	37	0	CVP	2,87	0,036	20%	2,29	3,45	37			
(149) Siemens (Dade, BN, Dimension)		2,97	0,30	10	31	0	CVP	2,87	0,036	20%	2,29	3,45	31			
(175) DIAGON		2,72	0,26	9,6	6	0	CVP	2,87	0,036	20%	2,29	3,45	6			
(179) Siemens		3,02	0,31	10	5	0	CVP	2,87	0,036	20%	2,29	3,45	5			
(999) another manufacturer		2,67	0,48	18	6	0	CVP	2,87	0,036	20%	2,29	3,45	6			
(177) Mindray; (177) Mindray		1,95	0,089	4,6	5	0	CVPG	1,95	0,11	20%	1,56	2,34	0			
Other					15	0							11			
							2x 12, 4x 27, 4x 46, 1x 51, 4x 177/63									
(173) Thrombin time (time)					153								134	128	96%	
Samples and groups	[s]															
Sample A		16,9	1,9	11	153								134	131	98%	
(3) Thrombin units: 1,5 IU/mL (NIH); (94) Stago; (94) Stago		18,1	0,81	4,5	16	0	CVPG	18,1	0,50	20%	14,4	21,8	16			
(5) Thrombin units: 2,5 IU/mL (NIH); (149) Siemens (Dade, BN, Dimension); (63) Sysmex		15,9	1,2	7,8	73	0	CVPG	15,8	0,33	20%	12,6	19	73			

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Deadline: 19.11.2021

Test	[unit]						Comparability								
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}	
(173) Thrombin time (time)					153							134	128	96%	
Samples and groups	[s]														
Sample A		16,9	1,9	11	153							134	131	98%	
(5) Thrombin units: 2,5 IU/mL (NIH); (149) Siemens (Dade, BN, Dimension); (149) Siemens (Dade, BN, Dimension); (63) Sysmex		15,2	0,67	4,4	6	0	CVPG	15,8	0,33	20%	12,6	19		6	
(6) Thrombin units: 3 IU/mL (NIH); (38) IL; (38) IL		17,7	0,89	5,0	19	0	CVPG	17,9	0,56	20%	14,3	21,5		19	
Other					39	0								20	
								1x 1/38/12, 1x 1/126/149, 3x 1/149/63, 1x 1/149/149, 1x 1/175/0, 1x 1/175/175, 1x 1/179/63, 1x 2/149/63, 1x 2/193/94, 4x 3/149/63, 1x 3/149/94, 1x 3/149/149, 1x							
Sample B		20,6	5,3	26	153							134	130	97%	
(3) Thrombin units: 1,5 IU/mL (NIH); (94) Stago; (94) Stago		23,5	0,75	3,2	16	0	CVPG	23,5	0,46	20%	18,8	28,2		16	
(5) Thrombin units: 2,5 IU/mL (NIH); (149) Siemens (Dade, BN, Dimension); (63) Sysmex		17,1	1,0	6,0	73	0	CVPG	17,1	0,29	20%	13,6	20,6		73	
(5) Thrombin units: 2,5 IU/mL (NIH); (149) Siemens (Dade, BN, Dimension); (149) Siemens (Dade, BN, Dimension); (149) Siemens (Dade, BN, Dimension); (63) Sysmex		17,1	0,67	3,9	6	0	CVPG	17,1	0,29	20%	13,6	20,6		6	
(6) Thrombin units: 3 IU/mL (NIH); (38) IL; (38) IL		29,9	1,3	4,5	19	0	CVPG	30,1	0,82	20%	24	36,2		19	
Other					39	0								20	
								1x 1/38/12, 1x 1/126/149, 3x 1/149/63, 1x 1/149/149, 1x 1/175/0, 1x 1/175/175, 1x 1/179/63, 1x 2/149/63, 1x 2/193/94, 4x 3/149/63, 1x 3/149/94, 1x 3/149/149, 1x							
(174) Thrombin time (ratio)					135							119	115	97%	
Samples and groups	[-]														
Sample A		1,04	0,10	10	135							119	117	98%	
(3) Thrombin units: 1,5 IU/mL (NIH); (94) Stago; (94) Stago		1,01	0,056	5,5	15	0	CVPG	1,01	0,035	20%	0,808	1,22		15	
(5) Thrombin units: 2,5 IU/mL (NIH); (149) Siemens (Dade, BN, Dimension); (63) Sysmex		0,992	0,072	7,2	65	0	CVPG	0,993	0,021	20%	0,794	1,2		65	
(6) Thrombin units: 3 IU/mL (NIH); (38) IL; (38) IL		1,20	0,097	8,1	17	0	CVPG	1,21	0,060	20%	0,968	1,46		17	
Other					38	0								22	
								1x 1/38/12, 1x 1/126/149, 2x 1/149/63, 1x 1/175/0, 1x 1/175/175, 1x 2/94/94, 1x 2/149/63, 1x 2/193/94, 3x 3/149/63, 1x 3/149/94, 1x 3/149/149, 3x 5/149/149, 1x 5/149/179, 2x 5/179/							
Sample B		1,24	0,26	21	135							119	115	97%	
(3) Thrombin units: 1,5 IU/mL (NIH); (94) Stago; (94) Stago		1,32	0,071	5,3	15	0	CVPG	1,32	0,045	20%	1,05	1,59		15	
(5) Thrombin units: 2,5 IU/mL (NIH); (149) Siemens (Dade, BN, Dimension); (63) Sysmex		1,07	0,072	6,7	65	0	CVPG	1,07	0,021	20%	0,856	1,29		65	
(6) Thrombin units: 3 IU/mL (NIH); (38) IL; (38) IL		2,01	0,17	8,2	17	0	CVPG	2,03	0,10	20%	1,62	2,44		17	
Other					38	0								22	
								1x 1/38/12, 1x 1/126/149, 2x 1/149/63, 1x 1/175/0, 1x 1/175/175, 1x 2/94/94, 1x 2/149/63, 1x 2/193/94, 3x 3/149/63, 1x 3/149/94, 1x 3/149/149, 3x 5/149/149, 1x 5/149/179, 2x 5/179/							

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End of report

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