Summary statistics - quantitative results

(Groups: measurement principle, manufacturer of instrument)

Filter: minimal size of groups n = 5

EQA round: HKG4/17 - Haemocoagulation Tests

Dead line: 17.11.2017

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]	RoM	SD	CV [%]	N_{tot}	N_{out}	Comparability: AV	U_{AV}	D_{max}	LL	UL	N_{eva}	N_{suc}	S_{rel}
(170) APTT - ratio [-]				318							307	290	94%
Samples and groups													
Sample A	2,09	0,43	21	318							307	290	94%
(1) Coagulometer; (38) IL; (253) IL APTT-SP	1,80	0,10	5,8	29	0	CVPG 1,79	0,048	20%	1,43	2,15	29		
(1) Coagulometer; (51) Technoclone; (270) Technoclone Dapttin	1,60	0,11	7,0	5	0	CVPG 1,6	0,16	20%	1,28	1,92	5		
(1) Coagulometer; (63) Sysmex; (240) Siemens (Dade) Actin FS	1,97	0,11	5,6	77	0	CVPG 1,98	0,032	20%	1,58	2,38	77		
(1) Coagulometer; (63) Sysmex; (241) Siemens (Dade) Actin FSL	1,53	0,091	5,9	23	0	CVPG 1,54	0,045	20%	1,23	1,85	23		
(1) Coagulometer; (63) Sysmex; (242) Siemens (Dade) Pathromtin SL	2,85	0,16	5,6	50	1	CVPG 2,84	0,059	20%	2,27	3,41	50		
(1) Coagulometer; (63) Sysmex; (257) Diagon Dia-PTT-Liquid	2,24	0,33	15	11	0	CVPG 2,2	0,24	20%	1,76	2,64	11		
(1) Coagulometer; (63) Sysmex; (269) Diagon DIA-PTT	2,06	0,31	15	11	0	CVPG 2,03	0,21	20%	1,62	2,44	11		
(1) Coagulometer; (94) Stago; (260) Stago PTT Automate	2,10	0,12	5,7	20	0	CVPG 2,12	0,067	20%	1,69	2,55	20		
(1) Coagulometer; (94) Stago; (265) Stago Cephascreen	1,99	0,086	4,3	12	0	CVPG 1,97	0,075	20%	1,57	2,37	12		
(1) Coagulometer; (149) Siemens (Dade); (240) Siemens (Dade) Actin	2,11	0,21	9,8	15	0	CVPG 1,98	0,032	20%	1,58	2,38	15		
(1) Coagulometer; (149) Siemens (Dade); (241) Siemens (Dade) Actin	1,50	0,18	12	8	0	CVPG 1,54	0,045	20%	1,23	1,85	8		
(1) Coagulometer; (149) Siemens (Dade); (242) Siemens (Dade) Pathromtin SL	2,84	0,38	13	10	0	CVPG 2,84	0,059	20%	2,27	3,41	10		
Other				47	0						36		
						1x 1/5/240, 4x 1/12/256, 1x 1/27/242, 1x 1/27/245, 2x 1/27/260, 1x 1/27/265, 2x 1/27/269, 1x 1/27/270, 1x 1/27/271, 3x 1/38/256, 1x 1/38/266, 1x 1/51/253, 2x 1/63/252, 1x 1/63/260.							
Sample B	0,982	0,087	8,8	318							307	303	99%
(1) Coagulometer; (38) IL; (253) IL APTT-SP	0,859	0,04	4,6	29	0	CVPG 0,862	0,018	20%	0,689	1,04	29		
(1) Coagulometer; (51) Technoclone; (270) Technoclone Dapttin	0,920	0,015	1,6	5	0	CVPG 0,925	0,031	20%	0,74	1,11	5		
(1) Coagulometer; (63) Sysmex; (240) Siemens (Dade) Actin FS	0,984	0,033	3,4	77	0	CVPG 0,982	,0089	20%	0,785	1,18	77		
(1) Coagulometer; (63) Sysmex; (241) Siemens (Dade) Actin FSL	0,918	0,048	5,3	23	0	CVPG 0,913	0,025	20%	0,73	1,1	23		
(1) Coagulometer; (63) Sysmex; (242) Siemens (Dade) Pathromtin SL	1,11	0,057	5,1	50	1	CVPG 1,11	0,019	20%	0,888	1,34	50		
(1) Coagulometer; (63) Sysmex; (257) Diagon Dia-PTT-Liquid	1,01	0,072	7,1	11	0	CVPG 1	0,058	20%	0,8	1,2	11		
(1) Coagulometer; (63) Sysmex; (269) Diagon DIA-PTT	0,967	0,10	11	11	0	CVPG 0,966	0,067	20%	0,772	1,16	11		
(1) Coagulometer; (94) Stago; (260) Stago PTT Automate	0,979	0,05	5,1	20	0	CVPG 0,981	0,029	20%	0,784	1,18	20		
(1) Coagulometer; (94) Stago; (265) Stago Cephascreen	0,975	0,031	3,2	12	0	CVPG 0,971	0,024	20%	0,776	1,17	12		
(1) Coagulometer; (149) Siemens (Dade); (240) Siemens (Dade) Actin	0,975	0,055	5,6	15	0	CVPG 0,982	,0089	20%	0,785	1,18	15		
(1) Coagulometer; (149) Siemens (Dade); (241) Siemens (Dade) Actin	0,915	0,082	8,9	8	0	CVPG 0,913	0,025	20%	0,73	1,1	8		
(1) Coagulometer; (149) Siemens (Dade); (242) Siemens (Dade) Pathromtin SL	1,06	0,11	10	10	0	CVPG 1,11	0,019	20%	0,888	1,34	10		
Other				47	0						36		
						1x 1/5/240, 4x 1/12/256, 1x 1/27/242, 1x 1/27/245, 2x 1/27/260, 1x 1/27/265, 2x 1/27/269, 1x 1/27/270, 1x 1/27/271, 3x 1/38/256, 1x 1/38/266, 1x 1/51/253, 2x 1/63/252, 1x 1/63/260.							
(171) Fibrinogen [g/L]				252							252	241	96%
Samples and groups													
Sample A	1,44	0,16	11	252		CVP 1,44	0,025	25%	1,08	1,8	252	245	97%
(1) Coagulometer; (38) IL	1,59	0,10	6,5	28	0						28		
(1) Coagulometer; (51) Technoclone	1,38	0,17	12	6	0						6		
(1) Coagulometer; (63) Sysmex	1,37	0,11	7,9	153	0						153		
(1) Coagulometer; (94) Stago	1,57	0,12	7,6	29	0						29		
(1) Coagulometer; (149) Siemens (Dade)	1,48	0,20	13	20	0						20		
Other				16	0						16		
						4x 1/12, 4x 1/27, 1x 1/165, 2x 1/175, 3x 1/999, 1x 3/149, 1x 99/149							
Sample B	3,14	0,28	8,8	252		CVP 3,14	0,043	25%	2,35	3,93	252	246	98%
(1) Coagulometer; (38) IL	3,35	0,18	5,4	28	0						28		
(1) Coagulometer; (51) Technoclone	3,80	0,26	6,8	6	0						6		
(1) Coagulometer; (63) Sysmex	3,04	0,23	7,6	153	0						153		
(1) Coagulometer; (94) Stago	3,24	0,18	5,5	29	0						29		
(1) Coagulometer; (149) Siemens (Dade)	3,17	0,26	8,2	20	0						20		

Summary statistics - quantitative results

(Groups: measurement principle, manufacturer of instrument)

Filter: minimal size of groups n = 5

EQA round: HKG4/17 - Haemocoagulation Tests

Dead line: 17.11.2017

Test [unit]	RoM	SD	CV [%]	N_{tot}	N_{out}	Comparability	AV	U_{AV}	D_{max}	LL	UL	N_{eva}	N_{suc}	S_{rel}
(171) Fibrinogen [g/L]				252								252	241	96%
Samples and groups														
Sample B	3,14	0,28	8,8	252		CVP	3,14	0,043	25%	2,35	3,93	252	246	98%
Other				16	0							16		
						4x 1/12, 4x 1/27, 1x 1/165, 2x 1/175, 3x 1/999, 1x 3/149, 1x 99/149								
(177) Antithrombin [%]				179								179	173	97%
Samples and groups														
Sample A	58,5	4,0	6,8	179		CVP	58,5	0,73	25%	43,8	73,2	179	174	97%
(1) Coagulometer; (63) Sysmex	60,5	9,3	15	7	0							7		
(4) Chromogenous substrat; (38) IL	57,8	4,5	7,8	20	0							20		
(4) Chromogenous substrat; (63) Sysmex	58,4	3,7	6,3	101	0							101		
(4) Chromogenous substrat; (94) Stago	60,9	3,3	5,3	18	0							18		
(4) Chromogenous substrat; (149) Siemens (Dade)	56,5	3,6	6,4	15	0							15		
Other				18	2							18		
						2x 0/0, 1x 1/38, 1x 1/51, 1x 1/94, 4x 4/12, 2x 4/51, 1x 4/58, 1x 4/60, 1x 4/165, 2x 4/175, 1x 4/193, 1x 4/999								
Sample B	112	5,9	5,2	179		CVP	112	1,1	18%	91,8	133	179	176	98%
(1) Coagulometer; (63) Sysmex	112	4,2	3,8	7	0							7		
(4) Chromogenous substrat; (38) IL	115	5,7	5,0	20	0							20		
(4) Chromogenous substrat; (63) Sysmex	113	5,9	5,2	101	0							101		
(4) Chromogenous substrat; (94) Stago	111	6,0	5,4	18	0							18		
(4) Chromogenous substrat; (149) Siemens (Dade)	110	5,2	4,8	15	0							15		
Other				18	2							18		
						2x 0/0, 1x 1/38, 1x 1/51, 1x 1/94, 4x 4/12, 2x 4/51, 1x 4/58, 1x 4/60, 1x 4/165, 2x 4/175, 1x 4/193, 1x 4/999								
(172) Prothrombin test (INR) [-]				325								325	313	96%
Samples and groups														
Sample A	2,93	0,30	10	325		CVP	2,93	0,041	20%	2,34	3,52	325	315	97%
(1) Coagulometr (trom. human plac.); (63) Sysmex	2,98	0,19	6,4	143	0							143		
(1) Coagulometr (trom. human plac.); (149) Siemens (Dade)	3,07	0,25	8,2	33	0							33		
(2) Coagulometr (trom. human rec.); (38) IL	2,47	0,13	5,2	31	0							31		
(2) Coagulometr (trom. human rec.); (63) Sysmex	2,85	0,34	12	13	0							13		
(2) Coagulometr (trom. human rec.); (94) Stago	2,72	0,22	8,2	12	0							12		
(3) Coagulometr (trom. rabbit br.); (27) Behnk Electronic	3,06	0,65	21	8	0							8		
(3) Coagulometr (trom. rabbit br.); (51) Technoclone	2,52	0,33	13	6	0							6		
(3) Coagulometr (trom. rabbit br.); (63) Sysmex	3,07	0,37	12	24	0							24		
(3) Coagulometr (trom. rabbit br.); (94) Stago	3,08	0,19	6,2	26	0							26		
(3) Coagulometr (trom. rabbit br.); (999) another manufacturer	2,87	0,36	13	6	0							6		
Other				23	0							23		
						1x 1/5, 2x 1/27, 1x 1/80, 2x 1/94, 1x 1/165, 2x 1/999, 4x 2/12, 3x 2/149, 1x 2/175, 1x 3/38, 1x 3/125, 2x 3/149, 1x 3/175, 1x 99/175								
Sample B	0,992	0,049	4,9	325		CVP	0,992	,0066	20%	0,793	1,2	325	321	99%
(1) Coagulometr (trom. human plac.); (63) Sysmex	0,992	0,043	4,4	143	0							143		
(1) Coagulometr (trom. human plac.); (149) Siemens (Dade)	1,00	0,047	4,7	33	0							33		
(2) Coagulometr (trom. human rec.); (38) IL	0,987	0,037	3,7	31	0							31		
(2) Coagulometr (trom. human rec.); (63) Sysmex	1,00	0,025	2,5	13	0							13		
(2) Coagulometr (trom. human rec.); (94) Stago	1,04	0,042	4,0	12	0							12		
(3) Coagulometr (trom. rabbit br.); (27) Behnk Electronic	1,03	0,13	12	8	0							8		
(3) Coagulometr (trom. rabbit br.); (51) Technoclone	1,01	0,13	13	6	0							6		
(3) Coagulometr (trom. rabbit br.); (63) Sysmex	1,01	0,083	8,2	24	0							24		
(3) Coagulometr (trom. rabbit br.); (94) Stago	0,970	0,023	2,4	26	0							26		
(3) Coagulometr (trom. rabbit br.); (999) another manufacturer	0,940	0,089	9,5	6	0							6		
Other				23	0							23		
						1x 1/5, 2x 1/27, 1x 1/80, 2x 1/94, 1x 1/165, 2x 1/999, 4x 2/12, 3x 2/149, 1x 2/175, 1x 3/38, 1x 3/125, 2x 3/149, 1x 3/175, 1x 99/175								
(179) Prothrombin test (ratio) [-]				322								322	307	95%
Samples and groups														
Sample A	2,82	0,34	12	322		CVP	2,82	0,046	20%	2,25	3,39	322	308	96%

Summary statistics - quantitative results

(Groups: measurement principle, manufacturer of instrument)

Filter: minimal size of groups n = 5

EQA round: HKG4/17 - Haemocoagulation Tests

Dead line: 17.11.2017

Test [unit]	RoM	SD	CV [%]	N_{tot}	N_{out}	Comparability AV	U_{AV}	D_{max}	LL	UL	N_{eva}	N_{suc}	S_{rel}
(179) Prothrombin test (ratio) [-]				322							322	307	95%
Samples and groups													
Sample A	2,82	0,34	12	322		CVP 2,82	0,046	20%	2,25	3,39	322	308	96%
(1) Coagulometr (trom. human plac.); (63) Sysmex	2,99	0,21	7,0	143	1						143		
(1) Coagulometr (trom. human plac.); (149) Siemens (Dade)	3,02	0,17	5,6	32	0						32		
(2) Coagulometr (trom. human rec.); (38) IL	2,42	0,13	5,2	31	0						31		
(2) Coagulometr (trom. human rec.); (63) Sysmex	2,90	0,38	13	13	0						13		
(2) Coagulometr (trom. human rec.); (94) Stago	2,89	0,31	11	12	0						12		
(3) Coagulometr (trom. rabbit br.); (27) Behnk Electronic	2,68	0,21	7,7	8	0						8		
(3) Coagulometr (trom. rabbit br.); (51) Technoclone	2,47	0,33	13	6	0						6		
(3) Coagulometr (trom. rabbit br.); (63) Sysmex	2,64	0,27	10	22	0						22		
(3) Coagulometr (trom. rabbit br.); (94) Stago	2,43	0,14	5,6	26	0						26		
(3) Coagulometr (trom. rabbit br.); (999) another manufacturer	2,72	0,27	10	6	0						6		
Other				23	0						23		
					1x 1/5, 2x 1/27, 1x 1/80, 2x 1/94, 1x 1/165, 2x 1/999, 4x 2/12, 3x 2/149, 1x 2/175, 1x 3/38, 1x 3/125, 2x 3/149, 2x 3/175								
Sample B	0,991	0,048	4,8	322		CVP 0,991	,0065	20%	0,792	1,19	322	321	100%
(1) Coagulometr (trom. human plac.); (63) Sysmex	0,990	0,044	4,5	143	0						143		
(1) Coagulometr (trom. human plac.); (149) Siemens (Dade)	0,995	0,046	4,6	32	0						32		
(2) Coagulometr (trom. human rec.); (38) IL	0,984	0,036	3,6	31	0						31		
(2) Coagulometr (trom. human rec.); (63) Sysmex	1,00	0,027	2,7	13	0						13		
(2) Coagulometr (trom. human rec.); (94) Stago	1,04	0,045	4,3	12	0						12		
(3) Coagulometr (trom. rabbit br.); (27) Behnk Electronic	1,02	0,10	10	8	0						8		
(3) Coagulometr (trom. rabbit br.); (51) Technoclone	1,01	0,13	13	6	0						6		
(3) Coagulometr (trom. rabbit br.); (63) Sysmex	1,03	0,073	7,1	22	0						22		
(3) Coagulometr (trom. rabbit br.); (94) Stago	0,974	0,019	1,9	26	0						26		
(3) Coagulometr (trom. rabbit br.); (999) another manufacturer	0,950	0,074	7,8	6	0						6		
Other				23	0						23		
					1x 1/5, 2x 1/27, 1x 1/80, 2x 1/94, 1x 1/165, 2x 1/999, 4x 2/12, 3x 2/149, 1x 2/175, 1x 3/38, 1x 3/125, 2x 3/149, 2x 3/175								

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End of report

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