

Summary statistics - quantitative results

(Groups: measurement principle, manufacturer of kit)

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]	Comparability					N _{eva}	N _{suc}	S _{rel}						
		RoM	SD	CV [%]	N _{tot}	N _{out}				AV	U _{AV}	D _{max}	LL	UL	
(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		1,79	0,11	6,0	31	0	CVPG	1,79	0,048	20%	1,43	2,15	31		
(1) Coagulometer; (38) IL; (256) IL SynthASil		1,98	0,045	2,2	6	0	CVPG	1,98	0,043	20%	1,58	2,38	6		
(1) Coagulometer; (51) Technoclone; (270) Technoclone Dapttin		1,60	0,11	7,0	6	0	CVPG	1,6	0,16	20%	1,28	1,92	6		
(1) Coagulometer; (94) Stago; (260) Stago PTT Automate		2,12	0,13	6,2	23	0	CVPG	2,12	0,067	20%	1,69	2,55	23		
(1) Coagulometer; (94) Stago; (265) Stago Cephascreen		1,97	0,11	5,6	13	0	CVPG	1,97	0,075	20%	1,57	2,37	13		
(1) Coagulometer; (149) Siemens (Dade); (240) Siemens (Dade) Actin		1,98	0,13	6,4	94	0	CVPG	1,98	0,032	20%	1,58	2,38	94		
(1) Coagulometer; (149) Siemens (Dade); (241) Siemens (Dade) Actin		1,54	0,10	6,7	31	0	CVPG	1,54	0,045	20%	1,23	1,85	31		
(1) Coagulometer; (149) Siemens (Dade); (242) Siemens (Dade) Pathromtin SL		2,83	0,19	6,6	60	1	CVPG	2,84	0,059	20%	2,27	3,41	60		
(1) Coagulometer; (175) DIAGON; (257) Diagon Dia-PTT-Liquid		2,20	0,33	15	12	0	CVPG	2,2	0,24	20%	1,76	2,64	12		
(1) Coagulometer; (175) DIAGON; (269) Diagon DIA-PTT		2,03	0,36	18	18	0	CVPG	2,03	0,21	20%	1,62	2,44	18		
(1) Coagulometer; (193) HYPHEN BioMed; (266) Hyphen BioMed CEPHEN		2,26	0,16	7,2	9	0	CVPG	2,26	0,20	20%	1,8	2,72	9		
Other					15	0							4		
								1x 1/5/271, 1x 1/12/256, 1x 1/63/240, 2x 1/63/242, 2x 1/64/248, 1x 1/80/245, 2x 1/94/259, 1x 1/94/999, 2x 1/100/252, 1x 1/149/262, 1x 1/175/999							
Sample B		0,982	0,087	8,8	318		307	303	99%						
(1) Coagulometer; (38) IL; (253) IL APTT-SP		0,862	0,041	4,8	31	0	CVPG	0,862	0,018	20%	0,689	1,04	31		
(1) Coagulometer; (38) IL; (256) IL SynthASil		1,01	0,007	0,74	6	0	CVPG	1	0,014	20%	0,8	1,2	6		
(1) Coagulometer; (51) Technoclone; (270) Technoclone Dapttin		0,925	0,022	2,4	6	0	CVPG	0,925	0,031	20%	0,74	1,11	6		
(1) Coagulometer; (94) Stago; (260) Stago PTT Automate		0,981	0,057	5,8	23	0	CVPG	0,981	0,029	20%	0,784	1,18	23		
(1) Coagulometer; (94) Stago; (265) Stago Cephascreen		0,971	0,035	3,6	13	0	CVPG	0,971	0,024	20%	0,776	1,17	13		
(1) Coagulometer; (149) Siemens (Dade); (240) Siemens (Dade) Actin		0,983	0,037	3,7	94	0	CVPG	0,982	0,089	20%	0,785	1,18	94		
(1) Coagulometer; (149) Siemens (Dade); (241) Siemens (Dade) Actin		0,913	0,056	6,1	31	0	CVPG	0,913	0,025	20%	0,73	1,1	31		
(1) Coagulometer; (149) Siemens (Dade); (242) Siemens (Dade) Pathromtin SL		1,11	0,063	5,7	60	1	CVPG	1,11	0,019	20%	0,888	1,34	60		
(1) Coagulometer; (175) DIAGON; (257) Diagon Dia-PTT-Liquid		1,00	0,081	8,1	12	0	CVPG	1	0,058	20%	0,8	1,2	12		
(1) Coagulometer; (175) DIAGON; (269) Diagon DIA-PTT		0,966	0,12	12	18	0	CVPG	0,966	0,067	20%	0,772	1,16	18		
(1) Coagulometer; (193) HYPHEN BioMed; (266) Hyphen BioMed CEPHEN		0,980	0,03	3,0	9	0	CVPG	0,98	0,037	20%	0,784	1,18	9		
Other					15	0							4		
								1x 1/5/271, 1x 1/12/256, 1x 1/63/240, 2x 1/63/242, 2x 1/64/248, 1x 1/80/245, 2x 1/94/259, 1x 1/94/999, 2x 1/100/252, 1x 1/149/262, 1x 1/175/999							
(171) Fibrinogen					252		252	241	96%						
Samples and groups	[g/L]														
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	31	0							31		
(1) Coagulometer; (51) Technoclone		1,38	0,17	12	7	0							7		
(1) Coagulometer; (94) Stago		1,56	0,10	6,5	24	0							24		
(1) Coagulometer; (149) Siemens (Dade)		1,36	0,10	7,7	140	0							140		
(1) Coagulometer; (159) Grifols		1,61	0,21	13	6	0							6		
(1) Coagulometer; (175) DIAGON		1,48	0,15	10	26	0							26		
(1) Coagulometer; (193) HYPHEN BioMed		1,47	0,20	14	8	0							8		
Other					10	0							10		
								1x 1/12, 3x 1/63, 4x 1/100, 1x 3/175, 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	0,17	5,1	31	0							31		
(1) Coagulometer; (51) Technoclone		3,79	0,27	7,2	7	0							7		
(1) Coagulometer; (94) Stago		3,26	0,21	6,3	24	0							24		
(1) Coagulometer; (149) Siemens (Dade)		3,03	0,22	7,4	140	0							140		
(1) Coagulometer; (159) Grifols		3,30	0,30	9,2	6	0							6		
(1) Coagulometer; (175) DIAGON		3,10	0,31	9,9	26	0							26		

Summary statistics - quantitative results

(Groups: measurement principle, manufacturer of kit)

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						N _{eva}	N _{suc}	S _{rel}
							AV	U _{AV}	D _{max}	LL	UL				
(171) Fibrinogen	[g/L]				252								252	241	96%
Sample B		3,14	0,28	8,8	252		CVP	3,14	0,043	25%	2,35	3,93	252	246	98%
(1) Coagulometer; (193) HYPHEN BioMed		3,30	0,50	15	8	0							8		
Other					10	0							10		
															1x 1/12, 3x 1/63, 4x 1/100, 1x 3/175, 1x 99/149
(177) Antithrombin	[%]				179								179	173	97%
Sample A		58,5	4,0	6,8	179		CVP	58,5	0,73	25%	43,8	73,2	179	174	97%
(4) Chromogenous substrat; (38) IL		57,6	4,5	7,8	23	0							23		
(4) Chromogenous substrat; (94) Stago		61,2	3,2	5,2	13	0							13		
(4) Chromogenous substrat; (149) Siemens (Dade)		57,8	3,5	6,0	94	0							94		
(4) Chromogenous substrat; (175) DIAGON		59,6	3,9	6,5	10	0							10		
(4) Chromogenous substrat; (193) HYPHEN BioMed		59,5	4,2	7,1	14	0							14		
Other					25	2							25		
															2x 0/0, 1x 1/38, 1x 1/51, 1x 1/60, 1x 1/94, 3x 1/149, 3x 1/175, 1x 4/12, 3x 4/51, 2x 4/60, 2x 4/63, 2x 4/100, 1x 4/102, 1x 4/159, 1x 4/179
Sample B		112	5,9	5,2	179		CVP	112	1,1	18%	91,8	133	179	176	98%
(4) Chromogenous substrat; (38) IL		114	5,8	5,1	23	0							23		
(4) Chromogenous substrat; (94) Stago		112	5,5	5,0	13	0							13		
(4) Chromogenous substrat; (149) Siemens (Dade)		112	5,4	4,8	94	0							94		
(4) Chromogenous substrat; (175) DIAGON		114	8,8	7,7	10	0							10		
(4) Chromogenous substrat; (193) HYPHEN BioMed		114	8,6	7,5	14	0							14		
Other					25	2							25		
															2x 0/0, 1x 1/38, 1x 1/51, 1x 1/60, 1x 1/94, 3x 1/149, 3x 1/175, 1x 4/12, 3x 4/51, 2x 4/60, 2x 4/63, 2x 4/100, 1x 4/102, 1x 4/159, 1x 4/179
(172) Prothrombin test (INR)	[-]				325								325	313	96%
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.); (149) Siemens (Dade)		3,00	0,21	6,9	172	0							172		
(1) Coagulometr (trom. human plac.); (175) DIAGON		3,12	0,21	6,7	7	0							7		
(2) Coagulometr (trom. human rec.); (38) IL		2,47	0,12	4,9	36	0							36		
(2) Coagulometr (trom. human rec.); (94) Stago		2,78	0,18	6,4	10	0							10		
(2) Coagulometr (trom. human rec.); (149) Siemens (Dade)		2,87	0,29	10	16	0							16		
(3) Coagulometr (trom. rabbit br.); (51) Technoclone		2,52	0,33	13	7	0							7		
(3) Coagulometr (trom. rabbit br.); (94) Stago		3,11	0,22	7,0	29	0							29		
(3) Coagulometr (trom. rabbit br.); (175) DIAGON		3,16	0,28	9,0	24	0							24		
Other					24	0							24		
															2x 1/63, 1x 1/80, 2x 1/94, 1x 1/179, 1x 2/12, 1x 2/175, 1x 3/5, 1x 3/38, 2x 3/64, 3x 3/100, 4x 3/149, 1x 3/166, 1x 3/193, 2x 3/999, 1x 99/175
Sample B		0,992	0,049	4,9	325		CVP	0,992	0,066	20%	0,793	1,2	325	321	99%
(1) Coagulometr (trom. human plac.); (149) Siemens (Dade)		0,993	0,042	4,3	172	0							172		
(1) Coagulometr (trom. human plac.); (175) DIAGON		1,03	0,19	19	7	0							7		
(2) Coagulometr (trom. human rec.); (38) IL		0,985	0,039	3,9	36	0							36		
(2) Coagulometr (trom. human rec.); (94) Stago		1,05	0,021	2,0	10	0							10		
(2) Coagulometr (trom. human rec.); (149) Siemens (Dade)		0,995	0,027	2,7	16	0							16		
(3) Coagulometr (trom. rabbit br.); (51) Technoclone		1,01	0,13	13	7	0							7		
(3) Coagulometr (trom. rabbit br.); (94) Stago		0,967	0,025	2,5	29	0							29		
(3) Coagulometr (trom. rabbit br.); (175) DIAGON		1,03	0,086	8,4	24	0							24		
Other					24	0							24		
															2x 1/63, 1x 1/80, 2x 1/94, 1x 1/179, 1x 2/12, 1x 2/175, 1x 3/5, 1x 3/38, 2x 3/64, 3x 3/100, 4x 3/149, 1x 3/166, 1x 3/193, 2x 3/999, 1x 99/175
(179) Prothrombin test (ratio)	[-]				322								322	307	95%
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.); (149) Siemens (Dade)		3,00	0,19	6,5	172	1							172		
(1) Coagulometr (trom. human plac.); (175) DIAGON		2,63	0,21	7,9	6	0							6		
(2) Coagulometr (trom. human rec.); (38) IL		2,42	0,12	5,1	36	0							36		

Summary statistics - quantitative results

(Groups: measurement principle, manufacturer of kit)

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%	
(2) Coagulometr (trom. human rec.); (94) Stago		2,99	0,21	6,9	10	0							10			
(2) Coagulometr (trom. human rec.); (149) Siemens (Dade)		2,90	0,32	11	16	0							16			
(3) Coagulometr (trom. rabbit br.); (51) Technoclone		2,47	0,33	13	7	0							7			
(3) Coagulometr (trom. rabbit br.); (94) Stago		2,45	0,15	6,1	29	0							29			
(3) Coagulometr (trom. rabbit br.); (175) DIAGON		2,64	0,19	7,4	24	0							24			
Other					22	0							22			
								2x 1/63, 1x 1/80, 2x 1/94, 1x 1/179, 1x 2/12, 1x 2/175, 1x 3/5, 1x 3/38, 2x 3/64, 3x 3/100, 3x 3/149, 1x 3/166, 1x 3/193, 2x 3/999								
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.); (149) Siemens (Dade)		0,990	0,044	4,5	172	0							172			
(1) Coagulometr (trom. human plac.); (175) DIAGON		0,997	0,049	4,9	6	0							6			
(2) Coagulometr (trom. human rec.); (38) IL		0,983	0,036	3,6	36	0							36			
(2) Coagulometr (trom. human rec.); (94) Stago		1,05	0,024	2,2	10	0							10			
(2) Coagulometr (trom. human rec.); (149) Siemens (Dade)		0,996	0,029	2,9	16	0							16			
(3) Coagulometr (trom. rabbit br.); (51) Technoclone		1,01	0,13	13	7	0							7			
(3) Coagulometr (trom. rabbit br.); (94) Stago		0,972	0,02	2,0	29	0							29			
(3) Coagulometr (trom. rabbit br.); (175) DIAGON		1,03	0,079	7,7	24	0							24			
Other					22	0							22			
								2x 1/63, 1x 1/80, 2x 1/94, 1x 1/179, 1x 2/12, 1x 2/175, 1x 3/5, 1x 3/38, 2x 3/64, 3x 3/100, 3x 3/149, 1x 3/166, 1x 3/193, 2x 3/999								

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End of report

Printed: 01.12.2017