

EQA round: T21/23 - Blood Count and Reticulocytes (study)

Deadline: 8.9.2023

Setup: groups - measuring system; minimal size of the groups n = 5

RoM = robust average	AV = assigned value	D _{max} = acceptable difference
SD = standard deviation	CVP = consensus of all participants	LL = lower limit
CV = coefficient of variation	CVPG = consensus of the participants' groups	UL = upper limit
N _{tot} = total number of the results	U _{AV} = expanded uncertainty of the assigned value (k = 2)	N _{eva} = number of the results assessed
N _{out} = number of the results removed before calculation		N _{suc} = number of successful results
		S _{rel} = relative success

Test Sample Group	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability					N _{eva}	N _{suc}	S _{rel} [%]	
							AV	U _{AV}	D _{max}	LL	UL				
(150) WBC	[·10 ⁹ /L]				97							97	96	99	
Sample X		4,13	0,15	3,6	97		CVP	4,13	0,037	15%	3,51	4,75	97	97	100
(737) Siemens Advia 120, 2120, 2120i		3,79	0,022	0,59	5	0							5		
(771) MINDRAY BC 6xxx series		4,11	0,14	3,4	17	0							17		
(772) Sysmex XN series		4,17	0,13	3,1	54	0							54		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		4,04	0,16	4	11	0							11		
Other					10	0							10		
								1x 749, 4x 763, 3x 765, 2x 999							
Vzorek Y		4,14	0,15	3,7	97		CVP	4,14	0,038	15%	3,51	4,77	97	96	99
(737) Siemens Advia 120, 2120, 2120i		3,99	0,3	7,6	5	0							5		
(771) MINDRAY BC 6xxx series		4,13	0,1	2,5	17	0							17		
(772) Sysmex XN series		4,2	0,13	3	54	0							54		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,96	0,12	3	11	0							11		
Other					10	0							10		
								1x 749, 4x 763, 3x 765, 2x 999							
(151) RBC	[·10 ¹² /L]				97							97	96	99	
Sample X		3,68	0,057	1,6	97		CVP	3,68	0,014	7%	3,42	3,94	97	97	100
(737) Siemens Advia 120, 2120, 2120i		3,77	0,015	0,39	5	0							5		
(771) MINDRAY BC 6xxx series		3,7	0,087	2,4	17	0							17		
(772) Sysmex XN series		3,66	0,042	1,1	54	0							54		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,71	0,059	1,6	11	0							11		
Other					10	0							10		
								1x 749, 4x 763, 3x 765, 2x 999							
Vzorek Y		3,68	0,051	1,4	97		CVP	3,68	0,013	7%	3,42	3,94	97	96	99
(737) Siemens Advia 120, 2120, 2120i		3,73	0,007	0,2	5	0							5		
(771) MINDRAY BC 6xxx series		3,68	0,09	2,4	17	0							17		
(772) Sysmex XN series		3,67	0,037	1	54	0							54		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,71	0,057	1,5	11	0							11		
Other					10	0							10		
								1x 749, 4x 763, 3x 765, 2x 999							
(152) Haemoglobin	[g/L]				97							97	97	100	
Sample X		117	1,8	1,5	97		CVP	117	0,44	6%	109	125	97	97	100
(737) Siemens Advia 120, 2120, 2120i		121	0,74	0,62	5	0							5		
(771) MINDRAY BC 6xxx series		118	1,7	1,5	17	0							17		
(772) Sysmex XN series		117	1,3	1,1	54	0							54		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		118	0,88	0,75	11	0							11		
Other					10	0							10		
								1x 749, 4x 763, 3x 765, 2x 999							
Vzorek Y		117	1,9	1,6	97		CVP	117	0,47	6%	109	125	97	97	100
(737) Siemens Advia 120, 2120, 2120i		120	0,74	0,62	5	0							5		
(771) MINDRAY BC 6xxx series		118	1,8	1,5	17	0							17		
(772) Sysmex XN series		116	1,4	1,2	54	0							54		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		118	0,94	0,8	11	0							11		
Other					10	0							10		
								1x 749, 4x 763, 3x 765, 2x 999							
(153) HCT	[-]				97							97	95	98	
Sample X		0,365	0,008	2,1	97		CVP	0,365	0,002	10%	0,328	0,402	97	96	99
(737) Siemens Advia 120, 2120, 2120i		0,375	0,002	0,59	5	0							5		
(771) MINDRAY BC 6xxx series		0,361	0,011	2,9	17	0							17		
(772) Sysmex XN series		0,367	0,007	1,8	54	0							54		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,362	0,011	2,9	11	0							11		
Other					10	0							10		
								1x 749, 4x 763, 3x 765, 2x 999							
Vzorek Y		0,365	0,009	2,4	97		CVP	0,365	0,002	10%	0,328	0,402	97	96	99
(737) Siemens Advia 120, 2120, 2120i		0,374	0,003	0,8	5	0							5		
(771) MINDRAY BC 6xxx series		0,36	0,012	3,2	17	0							17		
(772) Sysmex XN series		0,367	0,007	1,9	54	0							54		

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Test Sample Group	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability					N _{eva}	N _{suc}	S _{rel} [%]	
							AV	U _{AV}	D _{max}	LL	UL				
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,361	0,009	2,4	11	0							11		
Other					10	0							10		
							1x 749, 4x 763, 3x 765, 2x 999								
(154) MCV	[fL]				97								97	97	100
Sample X		99,2	1,8	1,9	97		CVP	99,2	0,46	10%	89,2	110	97	97	100
(737) Siemens Advia 120, 2120, 2120i		100	1,1	1,1	5	0							5		
(771) MINDRAY BC 6xxx series		97,7	2,3	2,4	17	0							17		
(772) Sysmex XN series		100	1,3	1,3	54	0							54		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		97,3	1,4	1,4	11	0							11		
Other					10	0							10		
							1x 749, 4x 763, 3x 765, 2x 999								
Vzorek Y		99,2	1,8	1,8	97		CVP	99,2	0,45	10%	89,2	110	97	97	100
(737) Siemens Advia 120, 2120, 2120i		100	1	1	5	0							5		
(771) MINDRAY BC 6xxx series		97,8	2,1	2,2	17	0							17		
(772) Sysmex XN series		100	1,4	1,4	54	0							54		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		97,2	1,4	1,4	11	0							11		
Other					10	0							10		
							1x 749, 4x 763, 3x 765, 2x 999								
(155) Platelets	[·10⁹/L]				97								97	93	96
Sample X		242	14	5,8	97		CVP	242	3,5	18%	198	286	97	95	98
(737) Siemens Advia 120, 2120, 2120i		225	12	5,3	5	0							5		
(771) MINDRAY BC 6xxx series		242	19	7,9	17	0							17		
(772) Sysmex XN series		245	11	4,3	54	0							54		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		238	8,2	3,4	11	0							11		
Other					10	0							10		
							1x 749, 4x 763, 3x 765, 2x 999								
Vzorek Y		241	16	6,5	97		CVP	241	3,9	18%	197	285	97	94	97
(737) Siemens Advia 120, 2120, 2120i		219	8,9	4,1	5	0							5		
(771) MINDRAY BC 6xxx series		241	21	8,8	17	0							17		
(772) Sysmex XN series		245	11	4,3	54	0							54		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		240	11	4,5	11	0							11		
Other					10	0							10		
							1x 749, 4x 763, 3x 765, 2x 999								
(156) RDW	[%]				95								95	95	100
Sample X		14,2	0,35	2,4	95								95	95	100
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		15	0,25	1,7	11	0	CVPG	15	0,19	10%	13,5	16,5	11		
(63) Sysmex; (772) Sysmex XN series		14,2	0,18	1,2	54	0	CVPG	14,2	0,058	10%	12,7	15,7	54		
(177) Mindray; (771) MINDRAY BC 6xxx series		13,9	0,34	2,4	17	0	CVPG	13,8	0,18	10%	12,4	15,2	17		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		14,1	0,15	1,1	5	0	CVPG	14,1	0,42	10%	12,6	15,6	5		
Other					8	0							8		
							3x 1/763, 3x 1/765, 1x 63/749, 1x 177/999								
Vzorek Y		14,2	0,33	2,3	95								95	95	100
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		15	0,41	2,7	11	0	CVPG	15	0,3	10%	13,5	16,5	11		
(63) Sysmex; (772) Sysmex XN series		14,2	0,17	1,2	54	0	CVPG	14,2	0,058	10%	12,7	15,7	54		
(177) Mindray; (771) MINDRAY BC 6xxx series		13,9	0,39	2,8	17	0	CVPG	13,9	0,21	10%	12,5	15,3	17		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		14	0,074	0,53	5	0	CVPG	14	0,21	10%	12,6	15,4	5		
Other					8	0							8		
							3x 1/763, 3x 1/765, 1x 63/749, 1x 177/999								
(157) MPV	[fL]				95								89	89	100
Sample X		10,3	0,64	6,2	95								89	89	100
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		8,93	0,41	4,6	11	0	CVPG	8,93	0,3	18%	7,32	10,6	11		
(63) Sysmex; (772) Sysmex XN series		10,6	0,28	2,7	54	0	CVPG	10,6	0,092	18%	8,69	12,6	54		
(177) Mindray; (771) MINDRAY BC 6xxx series		10,2	0,44	4,4	17	0	CVPG	10,1	0,26	18%	8,28	12	17		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		11,3	0,74	6,6	5	0	CVPG	11,3	2,1	18%	9,26	13,4	5		
Other					8	0							2		
							3x 1/763, 3x 1/765, 1x 63/749, 1x 177/999								
Vzorek Y		10,3	0,62	6	95								89	89	100

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Test Sample Group	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability					N _{eva}	N _{suc}	S _{rel} [%]	
							AV	U _{AV}	D _{max}	LL	UL				
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		8,94	0,43	4,8	11	0	CVPG	8,94	0,32	18%	7,33	10,6	11		
(63) Sysmex; (772) Sysmex XN series		10,6	0,26	2,4	54	0	CVPG	10,6	0,084	18%	8,69	12,6	54		
(177) Mindray; (771) MINDRAY BC 6xxx series		10,2	0,4	4	17	0	CVPG	10,1	0,25	18%	8,28	12	17		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		11,2	0,82	7,3	5	0	CVPG	11,2	2,3	18%	9,18	13,3	5		
Other					8	0							2		
(158) PDW [%]	[%]				2								0		
Sample X													0		
Other					2	0							0		
Vzorek Y													0		
Other					2	0							0		
(165) PDW [fL]	[fL]				55								55	54	98
Sample X		12,1	0,85	7	55								55	54	98
(63) Sysmex; (772) Sysmex XN series		12,1	0,85	7	54	0	CVPG	12,1	0,28	15%	10,2	14	54		
Other					1	0							1		
Vzorek Y		12,1	0,65	5,4	55								55	55	100
(63) Sysmex; (772) Sysmex XN series		12,1	0,64	5,3	54	0	CVPG	12,1	0,21	15%	10,2	14	54		
Other					1	0							1		
(166) PDW [-]	[-]				18								18	18	100
Sample X		16,4	0,13	0,8	18								18	18	100
(177) Mindray; (771) MINDRAY BC 6xxx series		16,3	0,12	0,71	17	0	CVPG	16,4	0,076	15%	13,9	18,9	17		
Other					1	0							1		
Vzorek Y		16,4	0,15	0,95	18								18	18	100
(177) Mindray; (771) MINDRAY BC 6xxx series		16,4	0,14	0,86	17	0	CVPG	16,4	0,089	15%	13,9	18,9	17		
Other					1	0							1		
(129) Immature platelet fraction	[%]				33								30	26	87
Sample X		3,16	1,1	33	33								30	28	93
(63) Sysmex; (772) Sysmex XN series		3,83	1	27	15	0	CVPG	3,83	0,66	40%	2,29	5,37	15		
(177) Mindray; (771) MINDRAY BC 6xxx series		2,45	0,7	29	15	0	CVPG	2,45	0,44	40%	1,47	3,43	15		
Other					3	0							0		
Vzorek Y		3,18	1,1	35	33								30	26	87
(63) Sysmex; (772) Sysmex XN series		3,79	0,98	26	15	0	CVPG	3,79	0,62	40%	2,27	5,31	15		
(177) Mindray; (771) MINDRAY BC 6xxx series		2,43	0,7	29	15	0	CVPG	2,43	0,44	40%	1,45	3,41	15		
Other					3	0							0		
(160) Neutrophiles	[·10 ⁹ /L]				96								96	92	96
Sample X		1,96	0,1	5,2	96		CVP	1,96	0,026	25%	1,47	2,45	96	93	97
(737) Siemens Advia 120, 2120, 2120i		1,77	0,059	3,4	5	0							5		
(771) MINDRAY BC 6xxx series		2,05	0,089	4,3	17	0							17		
(772) Sysmex XN series		1,95	0,074	3,8	53	0							53		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		2,02	0,14	6,8	11	0							11		
Other					10	2							10		
Vzorek Y		1,97	0,11	5,6	96		CVP	1,97	0,028	25%	1,47	2,47	96	92	96
(737) Siemens Advia 120, 2120, 2120i		1,89	0,089	4,7	5	0							5		
(771) MINDRAY BC 6xxx series		2,05	0,062	3	17	0							17		
(772) Sysmex XN series		1,96	0,087	4,4	53	0							53		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		1,95	0,15	7,4	11	0							11		
Other					10	2							10		
(161) Lymphocytes	[·10 ⁹ /L]				96								96	92	96
Sample X		1,64	0,082	5	96		CVP	1,64	0,021	25%	1,23	2,05	96	93	97
(737) Siemens Advia 120, 2120, 2120i		1,47	0,067	4,6	5	0							5		
(771) MINDRAY BC 6xxx series		1,61	0,064	4	17	0							17		
(772) Sysmex XN series		1,65	0,06	3,6	53	0							53		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		1,57	0,085	5,4	11	0							11		
Other					10	0							10		

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							AV	U _{AV}	D _{max}	LL	UL				
Vzorek Y		1,65	0,089	5,4	96		CVP	1,65	0,022	25%	1,23	2,07	96	92	96
(737) Siemens Advia 120, 2120, 2120i		1,46	0,13	8,7	5	0							5		
(771) MINDRAY BC 6xxx series		1,63	0,053	3,2	17	0							17		
(772) Sysmex XN series		1,67	0,056	3,4	53	0							53		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		1,52	0,13	8,8	11	0							11		
Other					10	0							10		
								1x 749, 4x 763, 3x 765, 2x 999							
(162) Monocytes	[·10 ⁹ /L]				96								96	92	96
Sample X		0,367	0,067	18	96		CVP	0,367	0,017	50%	0,183	0,551	96	94	98
(737) Siemens Advia 120, 2120, 2120i		0,36	0,03	8,3	5	0							5		
(771) MINDRAY BC 6xxx series		0,294	0,031	10	17	0							17		
(772) Sysmex XN series		0,406	0,034	8,3	53	0							53		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,32	0,06	19	11	0							11		
Other					10	0							10		
								1x 749, 4x 763, 3x 765, 2x 999							
Vzorek Y		0,371	0,073	20	96		CVP	0,371	0,018	50%	0,185	0,557	96	94	98
(737) Siemens Advia 120, 2120, 2120i		0,375	0,052	14	5	0							5		
(771) MINDRAY BC 6xxx series		0,293	0,025	8,4	17	0							17		
(772) Sysmex XN series		0,414	0,039	9,3	53	0							53		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,314	0,066	21	11	0							11		
Other					10	0							10		
								1x 749, 4x 763, 3x 765, 2x 999							
(163) Eosinophils	[·10 ⁹ /L]				96								96	95	99
Sample X		0,103	0,014	13	96		CVP	0,103	0,003	50%	0,051	0,155	96	95	99
(737) Siemens Advia 120, 2120, 2120i		0,095	0,022	23	5	0							5		
(771) MINDRAY BC 6xxx series		0,11	0,013	12	17	0							17		
(772) Sysmex XN series		0,102	0,012	12	53	0							53		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,099	0,009	8,9	11	0							11		
Other					10	0							10		
								1x 749, 4x 763, 3x 765, 2x 999							
Vzorek Y		0,104	0,015	14	96		CVP	0,104	0,004	50%	0,052	0,156	96	96	100
(737) Siemens Advia 120, 2120, 2120i		0,095	0,037	39	5	0							5		
(771) MINDRAY BC 6xxx series		0,115	0,013	11	17	0							17		
(772) Sysmex XN series		0,103	0,012	12	53	0							53		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,094	0,013	13	11	0							11		
Other					10	0							10		
								1x 749, 4x 763, 3x 765, 2x 999							
(164) Basophiles	[·10 ⁹ /L]				96								96	93	97
Sample X		0,048	0,016	33	96		CVP	0,048	0,004	asym.	0	0,124	96	94	98
(737) Siemens Advia 120, 2120, 2120i		0,03	0	0	5	0							5		
(771) MINDRAY BC 6xxx series		0,045	0,03	68	17	0							17		
(772) Sysmex XN series		0,051	0,009	17	53	0							53		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,041	0,044	110	11	0							11		
Other					10	0							10		
								1x 749, 4x 763, 3x 765, 2x 999							
Vzorek Y		0,049	0,018	38	96		CVP	0,049	0,005	asym.	0	0,125	96	95	99
(737) Siemens Advia 120, 2120, 2120i		0,035	0,022	63	5	0							5		
(771) MINDRAY BC 6xxx series		0,045	0,023	52	17	0							17		
(772) Sysmex XN series		0,054	0,011	21	53	0							53		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,031	0,034	110	11	0							11		
Other					10	0							10		
								1x 749, 4x 763, 3x 765, 2x 999							
(138) Reticulocyte count (Microscope)	[·10 ⁹ /L]				10								10	8	80
Sample X													10	9	90
(0) not specified		58,5	15	26	10	0	CVP	58,5	12	45%	32,1	84,9	10		
Vzorek Y													10	8	80
(0) not specified		53,2	17	33	10	0	CVP	53,2	13	45%	29,2	77,2	10		
(120) Reticulocyte count (Analyser)	[·10 ⁹ /L]				93								93	78	84
Sample X		57,8	13	23	93		CVP	57,8	3,3	45%	31,7	83,9	93	81	87
(771) MINDRAY BC 6xxx series		80	12	14	17	0							17		
(772) Sysmex XN series		58	4,6	8	54	0							54		

EQA round: T21/23 - Blood Count and Reticulocytes (study)

Deadline: 8.9.2023

Setup: groups - measuring system; minimal size of the groups n = 5

Test Sample Group	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability					N _{eva}	N _{suc}	S _{rel} [%]			
							AV	U _{AV}	D _{max}	LL	UL						
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		40,7	8,7	21	11	0									11		
Other					11	0									11		
							3x 737, 1x 749, 4x 763, 3x 765										
Vzorek Y		57,7	13	23	93		CVP	57,7	3,3	45%	31,7	83,7	93	82	88		
(771) MINDRAY BC 6xxx series		76,6	13	17	17	0							17				
(772) Sysmex XN series		58,4	5	8,6	54	0							54				
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		40,5	9,7	24	11	0							11				
Other					11	0							11				
							3x 737, 1x 749, 4x 763, 3x 765										
(126) Immature reticulocyte fraction	[%]				69								62	54	87		
Sample X		9,61	2,9	30	69								62	56	90		
(771) MINDRAY BC 6xxx series		7,36	1,9	26	15	0	CVP	9,3	0,8	45%	5,11	13,5	15				
(772) Sysmex XN series		9,88	2,3	23	43	0	CVP	9,3	0,8	45%	5,11	13,5	43				
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		31	3	9,6	8	3	CVP	9,3	0,8	45%	5,11	13,5	1				
Other					3	0							3				
							1x 749, 2x 763										
Vzorek Y		9,52	2,6	27	69								62	55	89		
(771) MINDRAY BC 6xxx series		7,6	2,2	28	15	0	CVP	9,25	0,71	45%	5,08	13,5	15				
(772) Sysmex XN series		9,64	2	21	43	0	CVP	9,25	0,71	45%	5,08	13,5	43				
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		35,5	2,2	6,3	8	3	CVP	9,25	0,71	45%	5,08	13,5	1				
Other					3	0							3				
							1x 749, 2x 763										
(127) Mean reticulocyte volume	[fL]				15								15	15	100		
Sample X		106	5,7	5,4	15		CVP	106	3,6	10%	95,4	117	15	15	100		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		107	5,4	5	11	0							11				
Other					4	0							4				
							1x 737, 3x 771										
Vzorek Y		106	5	4,7	15		CVP	106	3,1	10%	95,4	117	15	15	100		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		106	4,7	4,4	11	0							11				
Other					4	0							4				
							1x 737, 3x 771										
(128) Mean amount of hemoglobin in reticulocytes	[pg]				72								67	62	93		
Sample X		34,6	2,1	6,2	72								67	63	94		
(63) Sysmex; (772) Sysmex XN series		35,6	0,98	2,8	51	0	CVPG	35,6	0,34	10%	32	39,2	51				
(177) Mindray; (771) MINDRAY BC 6xxx series		29,9	2,3	7,7	15	0	CVPG	29,9	1,5	10%	26,9	32,9	15				
Other					6	0							1				
							2x 1/763, 1x 63/749, 3x 179/737										
Vzorek Y		34,6	2,1	6,1	72								67	62	93		
(63) Sysmex; (772) Sysmex XN series		35,6	0,86	2,4	51	0	CVPG	35,6	0,3	10%	32	39,2	51				
(177) Mindray; (771) MINDRAY BC 6xxx series		30	2,3	7,5	15	0	CVPG	30	1,4	10%	27	33	15				
Other					6	0							1				
							2x 1/763, 1x 63/749, 3x 179/737										