

General Clinical Chemistry, Serum A Round 5, 2020

Specimen

Please find enclosed lyophilized human serum sample ST-MAY-20; 5 mL.

Caution

Quality control specimens derived from human blood must be handled with the same care as patient samples, i.e. as potential transmitters of serious diseases. The specimens are found to be HBsAg, HCVAb and HIVAgAb negative when tested with licensed reagents, but no known test method can offer complete assurance that the specimens will not transmit these or other infectious diseases.

Parameters

Please see page 3.

Storage and use

The unopened lyophilized serum A (ST-MAY-20) can be stored in a refrigerator. Open the vial carefully to prevent escape of dried material. Add 5 mL of high-grade room temperature laboratory water and immediately close the vial and let stand, protected from light, for about half an hour until all the material is completely dissolved. Invert the vial several times in order to dissolve any material adhering to the stopper. The reconstituted sample can be stored 7 days at +8°C.

After all the serum has dissolved take samples for bilirubin, ionized calcium (Ca-Ion), alkaline phosphatase (ALP) and creatine phosphokinase (CK). Place the aliquots in a stoppered tube and store in the dark at +2 - +8°C.

Result reporting and methods

From the first round of 2020, method information will be given in Labscala. The device, reagent, method, chemical principle and unit are given in the device registry. The reagent manufacturer is selected as the method. We kindly ask you to verify that your method information in LabScala is correct. If necessary, contact Labquality if you cannot find the correct device or reagent in LabScala. An example of the view in the device registry is given on the page two of this instruction letter.

Results from three different devices can be report using same client code if there is enough sample material. Results on a paper sheet are not accepted.

ST-MAY-20, LQ723620051



LQ723620051

2020-05-04

INSTRUCTIONS

Product no. 1072,1072S
LQ723620051/UK

If the kit is incomplete or contains damaged specimens, please report immediately to info@labquality.fi

The results should be reported via LabScala no later than
On the last day of the month.

Inquiries

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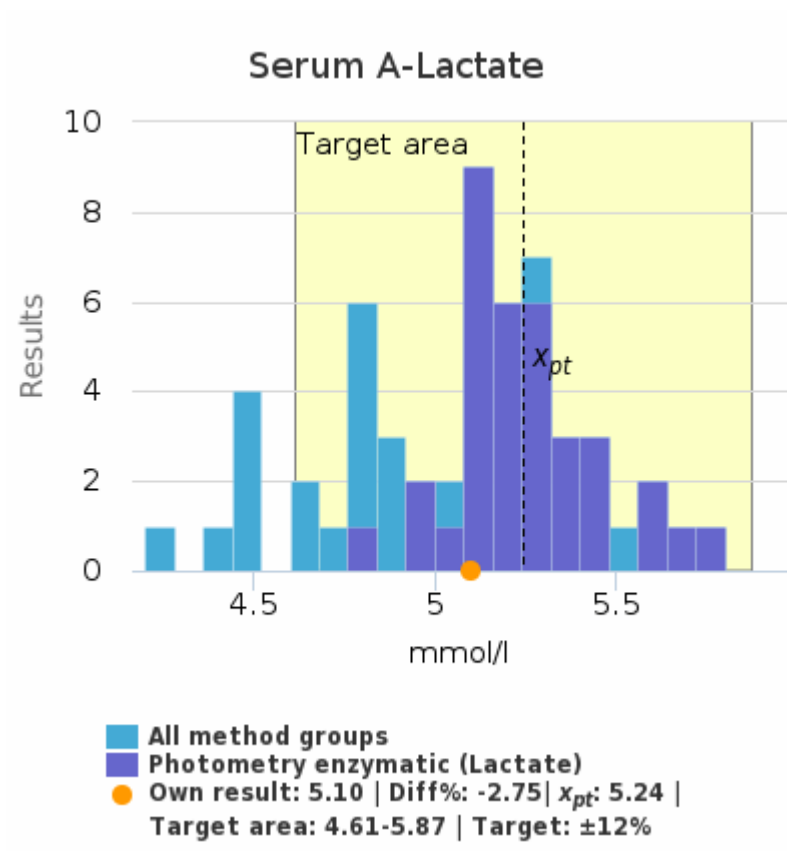


General Clinical Chemistry, Serum A

Parameters

S-Na	S-ALP	S-AMYL-P
S-K	S-AMYL	S-Se
S-Cl	S-ASAT	S-Li
S-Laktaat	S-ALAT	S-IgA
S-Crea	S-CK	S-IgE
S-Urea	S-LD	S-IgG
S-Prot	S-Fe	S-IgM
S-Alb	S-TIBC	S-Chol-HDL
S-Gluc	S-Transf	S-Ca-Ion
S-Ca	S-T4	S-OSMOL
S-Mg	S-Haptog	S-A1Glypr
S-Pi	S-Korsol	S-Antitry
S-Uric acid	S-GT	S-Ca-ion, pH 7.4
S-Chol	S-TSH	S-Chol-LDL
S-Trigly	S-T4-free	S-TfR
S-Bil	S-Ferrit	

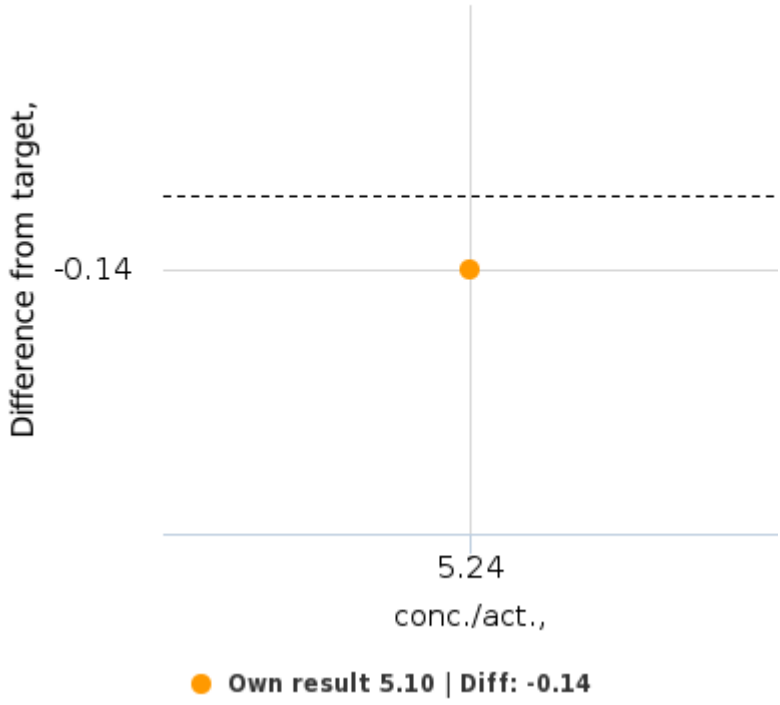
Lactate |Integra



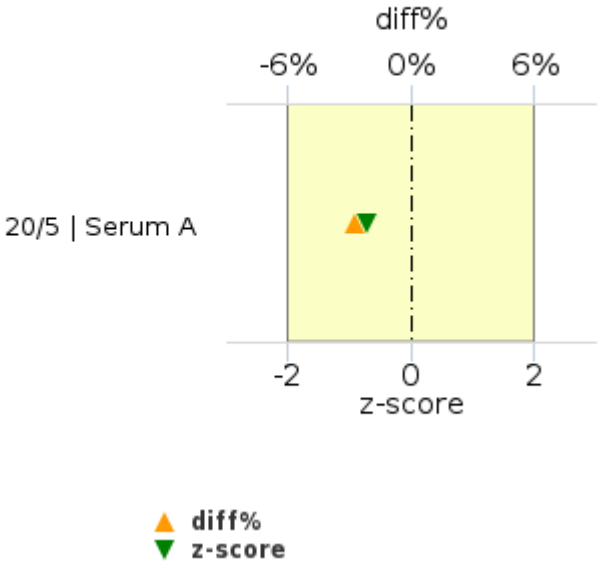
	x_{pt}	sd	SEM	CV%	n
Photometry enzymatic (Lactate)	5.24 mmol/l	0.21	0.03	3.9	35
All methods	5.07 mmol/l	0.34	0.05	6.8	55

Conc./act. dependent performance

Not enough results to show concentration history

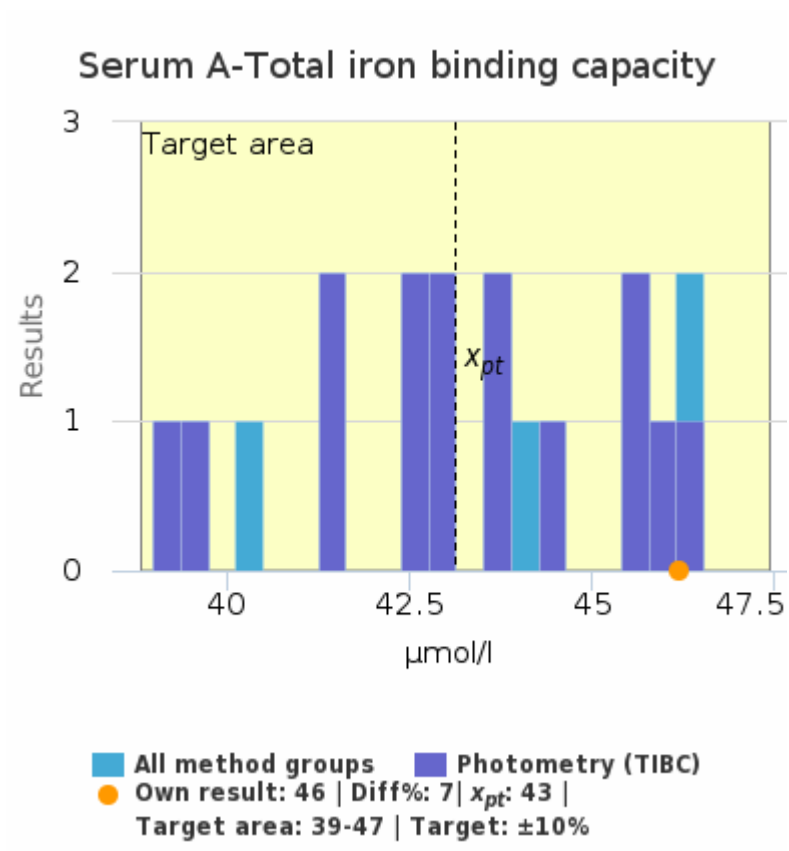


History



Round	Sample	x_{pt}	Result	diff%	z-score
20/5	Serum A	5.24	5.10	-2.75%	-0.70

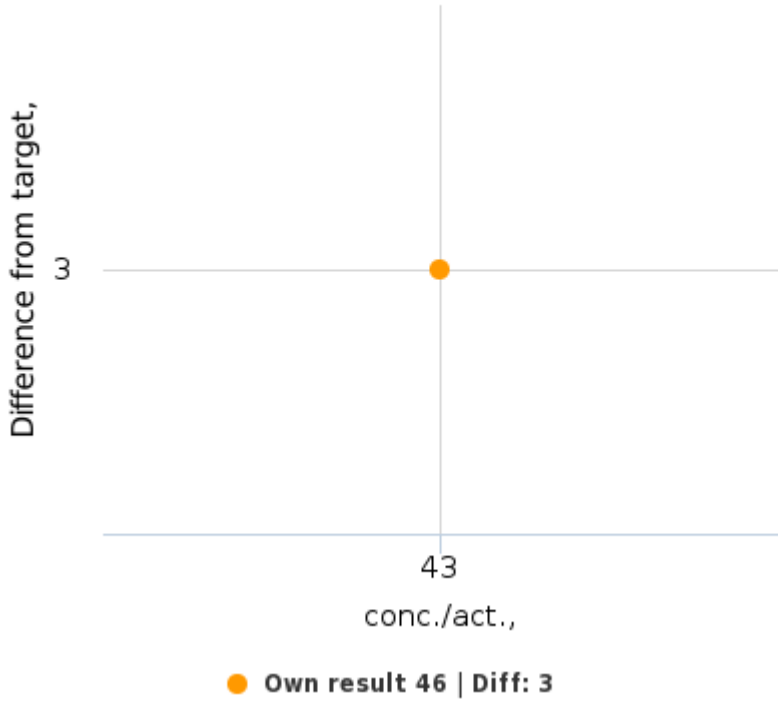
Total iron binding capacity |Integra



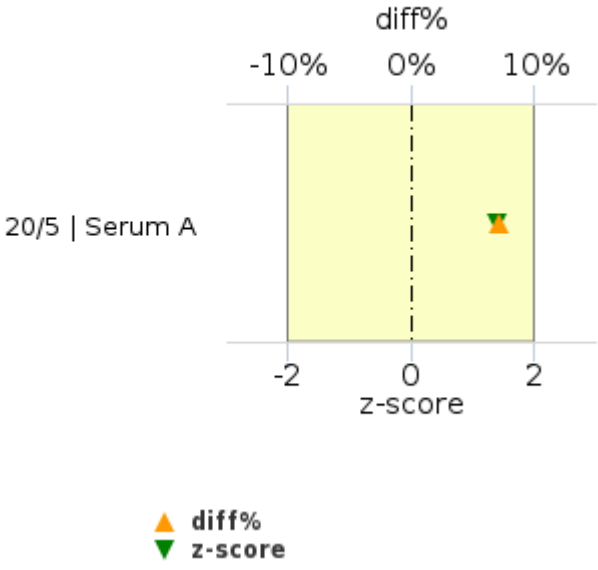
	x_{pt}	sd	SEM	CV%	n
Photometry (TIBC)	43 µmol/l	2	<1	5.2	15
All methods	43 µmol/l	2	<1	5.3	18

Conc./act. dependent performance

Not enough results to show concentration history

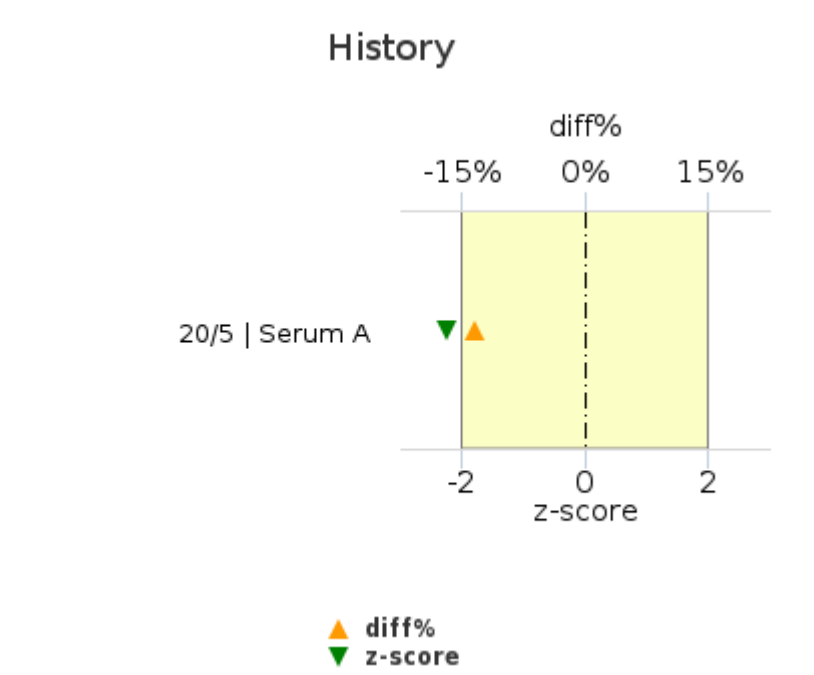
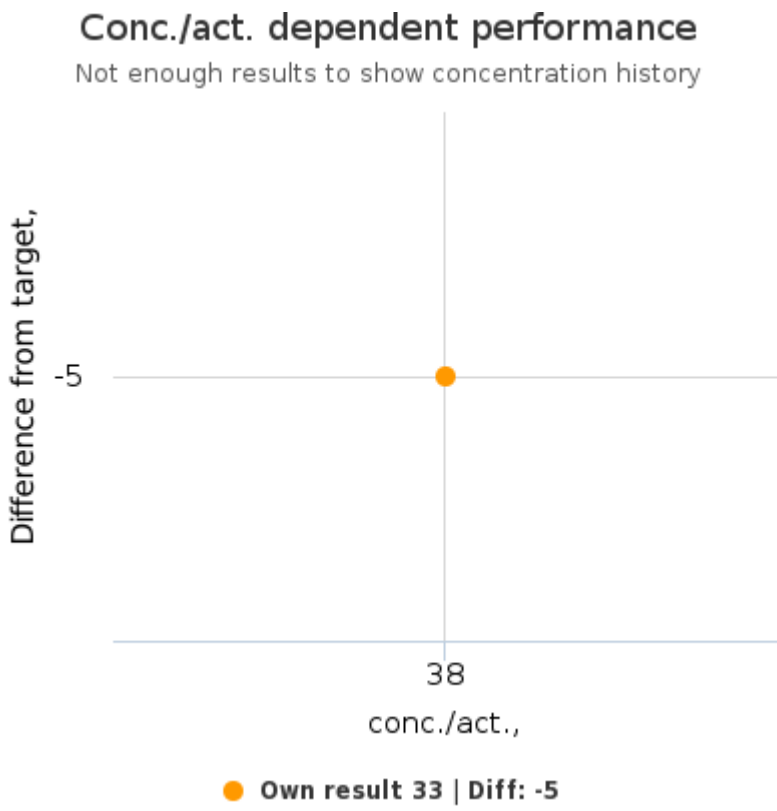
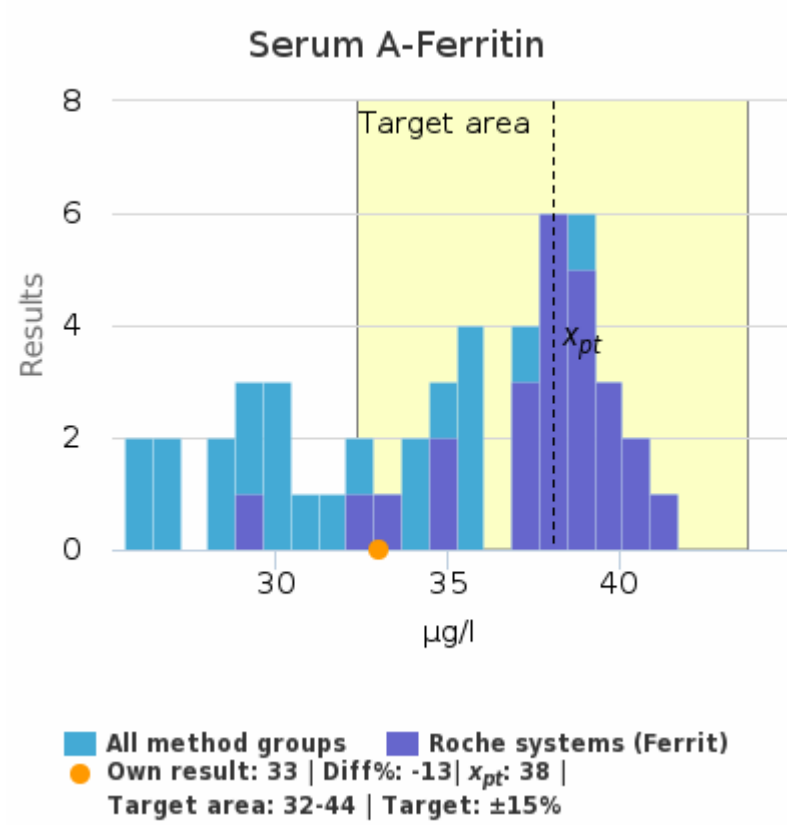


History



Round	Sample	x_{pt}	Result	diff%	z-score
20/5	Serum A	43	46	7%	1.38

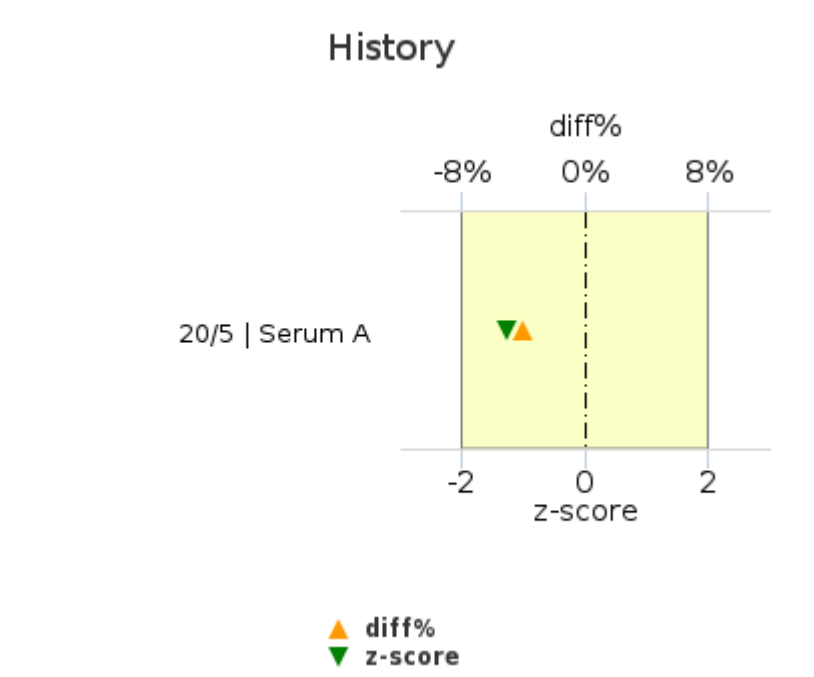
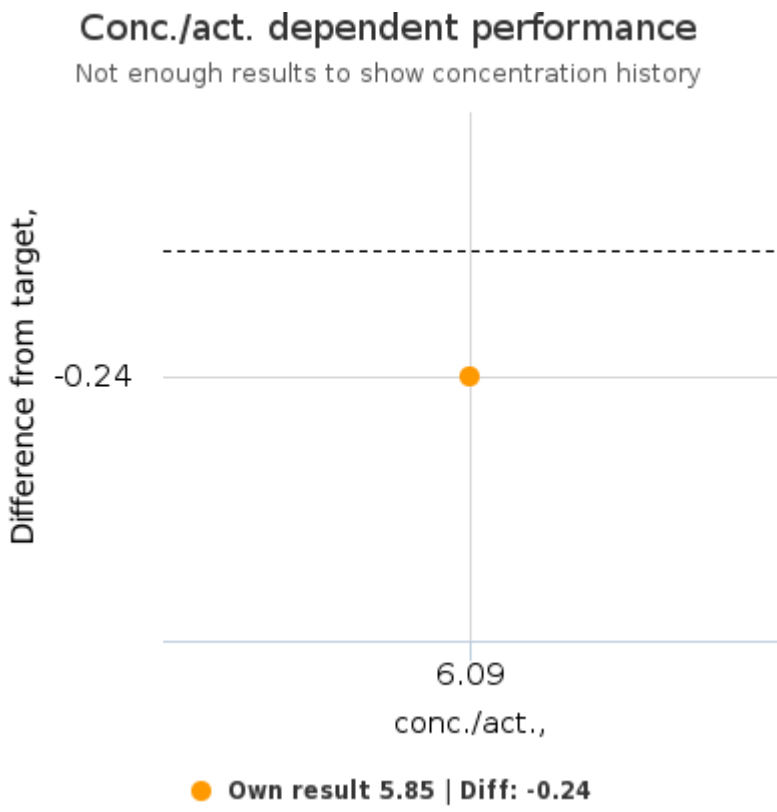
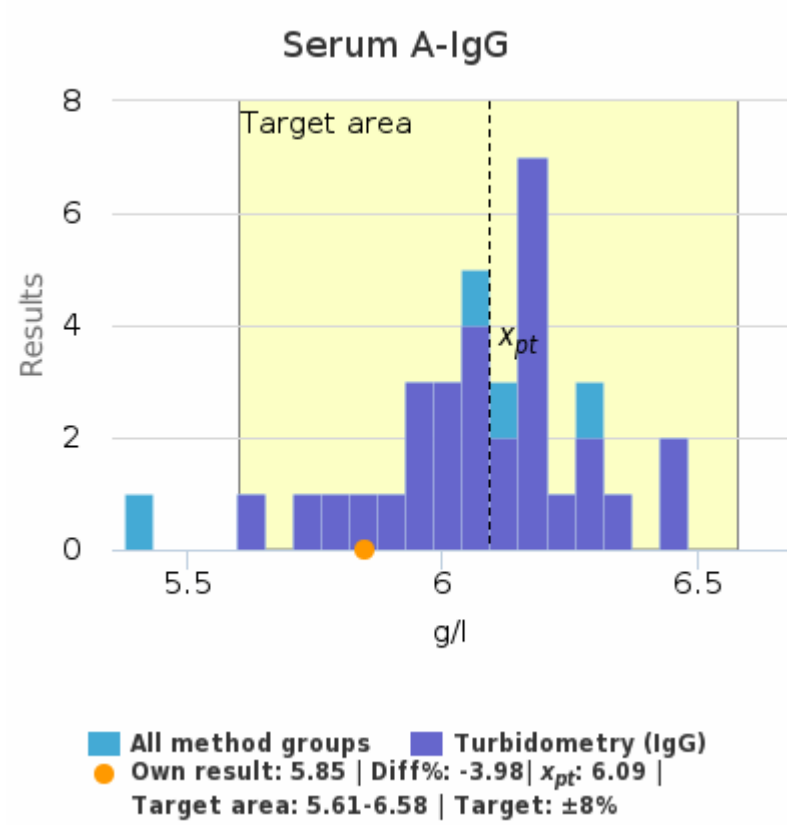
Ferritin |Integra



	x_{pt}	sd	SEM	CV%	n
Roche systems (Ferrit)	38 µg/l	2	<1	5.9	25
All methods	35 µg/l	5	<1	13.0	48

Round	Sample	x_{pt}	Result	diff%	z-score
20/5	Serum A	38	33	-13%	-2.24

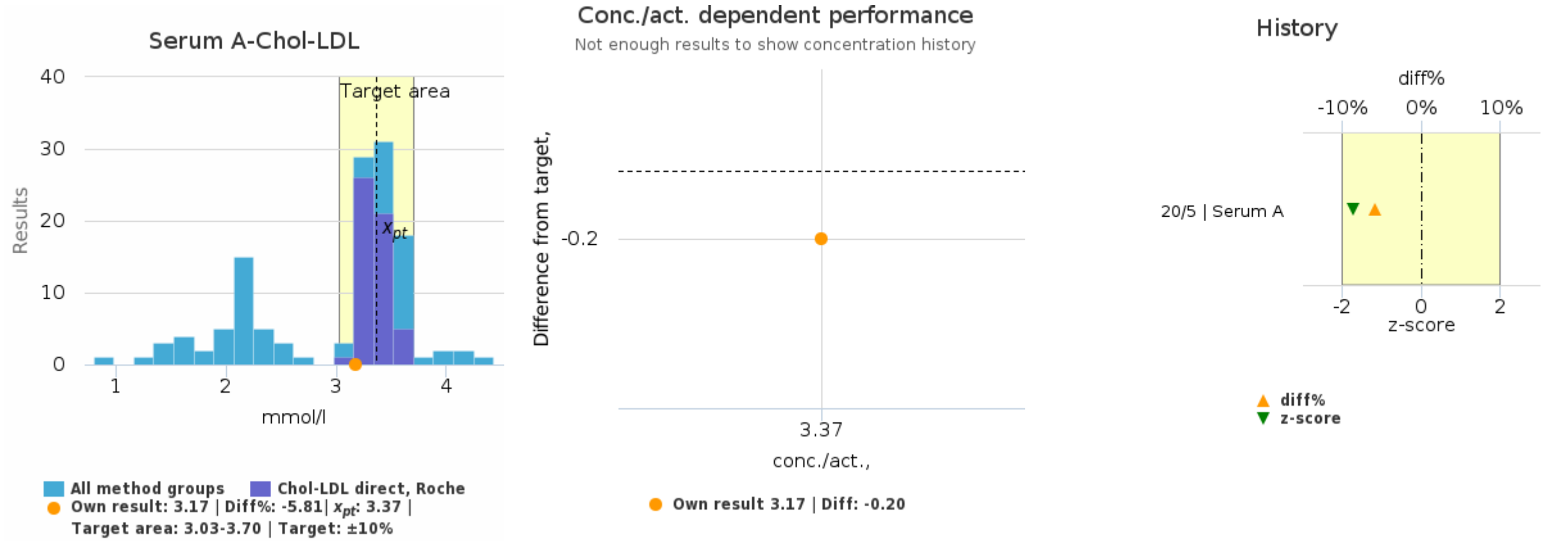
IgG |Integra



	x_{pt}	sd	SEM	CV%	n
Turbidometry (IgG)	6.09 g/l	0.19	0.04	3.2	30
All methods	6.10 g/l	0.19	0.03	3.1	34

Round	Sample	x_{pt}	Result	diff%	z-score
20/5	Serum A	6.09	5.85	-3.98%	-1.26

Chol-LDL |Integra



	x_{pt}	sd	SEM	CV%	n
Chol-LDL direct, Roche	3.37 mmol/l	0.11	0.02	3.4	53
All methods	3.02 mmol/l	0.71	0.06	23.4	127

Round	Sample	x_{pt}	Result	diff%	z-score
20/5	Serum A	3.37	3.17	-5.81%	-1.72

Report info

Participants

184 participants from 9 countries.

Report info

Your own result should be compared to others using the same method. Assigned values (x_{pt} , target values) are means of the results where results deviating more than +/- 3*standard deviation from the median are removed. The standard uncertainty (u) of the assigned value is reported as standard error of the mean (SEM). Additionally, if the measurement uncertainty of the target value is large an automatic text is printed on the report: “The uncertainty of the assigned value is not negligible, and evaluations could be affected.” In case the client’s result is the only one in the method group, no assigned value will be calculated, no target area shown, and no statistics calculated. In case there are only a few results in the client’s own method group, the result can be compared to all method mean or to a group that is similar to the own method. Results reported with < or > -signs cannot be included in the statistics.

For information on report interpretation and performance evaluation, please see the " EOAS Interpretation guidelines" LabScala User instructions (top right corner ?Help link).

Serum A | Sodium, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
ISE direct	165	165	3	1.9	<1	156	172	2	73
ISE indirect	158	158	2	1.0	<1	153	162	1	104
All	161	159	4	2.6	<1	150	172	2	177

Serum A | Sodium, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
ISE direct		165	3	1.9	73
	ABX Diagnostics	-	-	-	1
	BioMaxima	-	-	-	1
	Biotechnica	-	-	-	1
	Easylite	162	4	2.3	6
	IL blood gas and electrolyte analysers	-	-	-	1
	Nova Biomedical electrolyte analysers	-	-	-	1
	Radiometer blood gas analyzer	170	3	2.0	3
	Roche blood gas and electrolyte analysers	166	2	1.0	4
	Roche Cobas Integra	-	-	-	1
	Siemens blood gas and electrolyte analysers	167	1	0.7	3
	Thermo Scientific	164	4	2.7	51
ISE indirect		158	2	1.0	104
	Abbott Aeroset, Architect	158	<1	0.6	5
	Abbott Alinity	156	1	0.8	3
	AU instruments	155	2	1.1	5
	Beckman Coulter UniCel	-	-	-	1
	Beckmann Coulter Olympus	158	1	0.8	2
	Roche cobas	158	2	1.2	57
	Roche Cobas Integra	158	2	1.0	10
	Siemens Advia	158	2	1.0	6
	Siemens Atellica	159	1	0.9	14
	Siemens Dimension	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
ISE direct		165	3	1.9	73
	ABL 800 Flex	-	-	-	1
	ABL 835 Flex	-	-	-	1
	ABL 90 FLEX	-	-	-	1
	ABX Pentra C200	-	-	-	1
	AVL 9180	166	2	1.0	4
	Biomaxima BM ISE	-	-	-	1
	BT 3500	-	-	-	1
	EasyLyte	162	4	2.3	6
	Ilyte	-	-	-	1
	Indiko	165	2	1.0	2
	Indiko Plus	161	7	4.6	8
	Integra 400 Plus	-	-	-	1
	Konelab Prime 30	165	1	0.9	2
	Konelab PRIME 60i	163	2	1.3	13
	Konelab 20i	166	4	2.6	19
	Konelab 20XTi	165	3	1.9	3
	Konelab 30i	164	<1	0.3	4
	Rapidchem 744	-	-	-	1
	RAPIDpoint 500	167	<1	<0.1	2
	Stat Profile Prime Electrolyte Analyzer	-	-	-	1
ISE indirect		158	2	1.0	104
	Advia Chemistry XPT	159	<1	0.6	4
	Advia 1800	156	<1	<0.1	2
	Alinity c	156	1	0.8	3
	Architect c8000	-	-	-	1
	Architect ci4100	157	1	0.7	3
	Architect ci8200	-	-	-	1
	Atellica CH 930	159	1	0.9	14
	AU 480	-	-	-	1

	AU 640	-	-	-	1
	AU 680	156	2	1.1	6
	cobas c111	-	-	-	1
	cobas c311	159	1	0.7	5
	cobas c501	158	2	1.1	46
	cobas c702	158	3	2.1	4
	cobas ISE module	-	-	-	1
	Dimension EXL 200	-	-	-	1
	Integra 400	-	-	-	1
	Integra 400 Plus	158	2	1.1	9

Methodics	Chemical principle	x_{pt}	sd	CV%	n
ISE direct		165	3	1.9	73
	Direct potentiometry	164	4	2.6	73
ISE indirect		158	2	1.0	104
	Indirect potentiometry	158	2	1.1	104

Serum A | Potassium, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
ISE direct	6.23	6.20	0.15	2.4	0.02	5.81	6.59	-	72
ISE indirect	6.00	6.00	0.11	1.8	0.01	5.77	6.20	-	105
All	6.09	6.09	0.17	2.8	0.01	5.77	6.59	-	177

Serum A | Potassium, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
ISE direct		6.23	0.15	2.4	72
	ABX Diagnostics	-	-	-	1
	BioMaxima	-	-	-	1
	Biotechnica	-	-	-	1
	Easylite	6.07	0.16	2.7	5
	IL blood gas and electrolyte analysers	-	-	-	1
	Nova Biomedical electrolyte analysers	-	-	-	1
	Radiometer blood gas analyzer	6.27	0.12	1.8	3
	Roche blood gas and electrolyte analysers	6.47	0.12	1.9	4
	Roche Cobas Integra	-	-	-	1
	Siemens blood gas and electrolyte analysers	6.15	0.14	2.3	3
	Thermo Scientific	6.24	0.13	2.1	50
	Thermo Scientific electrolyte analysers	-	-	-	1
ISE indirect		6.00	0.11	1.8	105
	Abbott Aeroset, Architect	6.00	0.05	0.8	5
	Abbott Alinity	5.98	0.09	1.6	3
	AU instruments	5.87	0.08	1.3	6
	Beckmann Coulter Olympus	5.88	0.03	0.5	2
	Roche cobas	6.04	0.10	1.6	58
	Roche Cobas Integra	6.04	0.06	1.0	10
	Siemens Advia	6.05	0.08	1.3	6
	Siemens Atellica	5.84	0.04	0.6	14
	Siemens Dimension	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
ISE direct		6.23	0.15	2.4	72
	ABL 800 Flex	-	-	-	1
	ABL 835 Flex	-	-	-	1
	ABL 90 FLEX	-	-	-	1
	ABX Pentra C200	-	-	-	1
	AVL 9180	6.47	0.12	1.9	4
	Biomaxima BM ISE	-	-	-	1
	BT 3500	-	-	-	1
	EasyLyte	6.07	0.16	2.7	5
	Ilyte	-	-	-	1
	Indiko	6.14	0.19	3.1	2
	Indiko Plus	6.22	0.05	0.8	7
	Integra 400 Plus	-	-	-	1
	Konelab Prime 30	6.40	0.14	2.2	2
	Konelab PRIME 60i	6.23	0.12	1.8	13
	Konelab 20i	6.22	0.16	2.6	19
	Konelab 20XTi	6.30	0.10	1.6	3
	Konelab 30i	6.33	0.13	2.0	4
	Konelab 60i	-	-	-	1
	Rapidchem 744	-	-	-	1
	RAPIDpoint 500	6.23	<0.01	<0.1	2
	Stat Profile Prime Electrolyte Analyzer	-	-	-	1
ISE indirect		6.00	0.11	1.8	105
	Advia Chemistry XPT	6.10	<0.01	<0.1	4
	Advia 1800	5.96	0.05	0.8	2
	Alinity c	5.98	0.09	1.6	3
	Architect c8000	-	-	-	1
	Architect ci4100	5.98	0.05	0.9	3
	Architect ci8200	-	-	-	1
	Atellica CH 930	5.84	0.04	0.6	14
	AU 480	-	-	-	1

	AU 640	-	-	-	1
	AU 680	5.88	0.08	1.3	6
	cobas c111	-	-	-	1
	cobas c311	6.07	0.03	0.6	6
	cobas c501	6.04	0.10	1.6	46
	cobas c702	6.06	0.11	1.8	4
	cobas ISE module	-	-	-	1
	Dimension EXL 200	-	-	-	1
	Integra 400	-	-	-	1
	Integra 400 Plus	6.03	0.06	1.0	9

Methodics	Chemical principle	x_{pt}	sd	CV%	n
ISE direct		6.23	0.15	2.4	72
	Direct potentiometry	6.23	0.15	2.4	72
ISE indirect		6.00	0.11	1.8	105
	Indirect potentiometry	6.00	0.11	1.8	105

Serum A | Chloride, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
ISE direct	120	119	4	3.2	<1	114	127	-	28
ISE indirect	113	113	2	2.0	<1	107	119	-	54
Photometry (Cl)	104	104	1	1.4	1	103	105	-	2
All	115	114	5	4.1	<1	103	127	-	84

Serum A | Chloride, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
ISE direct		120	4	3.2	28
	ABX Diagnostics	-	-	-	1
	Biotechnica	-	-	-	1
	Easylite	-	-	-	1
	IL blood gas and electrolyte analysers	124	4	3.0	7
	Radiometer blood gas analyzer	120	3	2.1	9
	Roche blood gas and electrolyte analysers	-	-	-	1
	Roche Cobas Integra	-	-	-	1
	Siemens blood gas and electrolyte analysers	118	1	1.1	3
	Thermo Scientific	121	4	3.5	4
ISE indirect		113	2	2.0	54
	Abbott Aeroset, Architect	113	2	1.5	3
	Abbott Alinity	111	2	2.0	2
	AU instruments	112	<1	0.1	5
	Mindray	-	-	-	1
	Roche cobas	112	2	2.1	25
	Roche Cobas Integra	112	1	1.1	7
	Siemens Advia	114	<1	0.5	4
	Siemens Atellica	115	2	1.5	7
Photometry (Cl)		104	1	1.4	2
	Dialab ELISA	-	-	-	1
	Elitech	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
ISE direct		120	4	3.2	28
	ABL 800 Flex	-	-	-	1
	ABL 835 Flex	119	<1	<0.1	2
	ABL 90 FLEX	120	3	2.6	6
	ABX Pentra C200	-	-	-	1
	AVL 9180	-	-	-	1
	BT 3500	-	-	-	1
	EasyLyte	-	-	-	1
	GEM Premier 4000	125	2	1.4	6
	Ilyte	-	-	-	1
	Indiko Plus	-	-	-	1
	Integra 400 Plus	-	-	-	1
	Konelab PRIME 60i	118	<1	0.5	2
	Konelab 20i	-	-	-	1
	Rapidchem 744	-	-	-	1
	RAPIDpoint 500	119	<1	0.6	2
ISE indirect		113	2	2.0	54
	Advia Chemistry XPT	114	<1	0.5	4
	Alinity c	111	2	2.0	2
	Architect c8000	-	-	-	1
	Architect ci4100	-	-	-	1
	Architect ci8200	-	-	-	1
	Atellica CH 930	115	2	1.5	7
	AU 640	-	-	-	1
	AU 680	112	<1	0.1	4
	cobas c311	-	-	-	1
	cobas c501	112	2	1.7	21
	cobas c702	113	5	4.5	3
	Integra 400 Plus	112	1	1.1	7
	Mindray BS200 E	-	-	-	1
Photometry (Cl)		104	1	1.4	2

	Mindray BS200 E	-	-	-	1
	Selectra	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
ISE direct		120	4	3.2	28
	Direct potentiometry	120	4	3.2	28
ISE indirect		113	2	2.0	54
	Indirect potentiometry	113	2	2.0	54
Photometry (Cl)		104	1	1.4	2
	Mercuric thiocyanate / ferric nitrate; photometry	104	1	1.4	2

Serum A | Lactate, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Amperometry, others (Lactate)	4.95	4.89	0.25	5.1	0.08	4.70	5.55	-	11
Amperometry, Radiometer (Lactate)	4.51	4.50	0.16	3.6	0.05	4.20	4.80	-	9
Photometry enzymatic (Lactate)	5.24	5.21	0.21	3.9	0.03	4.80	5.80	-	35
All	5.07	5.12	0.34	6.8	0.05	4.20	5.80	-	55

Serum A | Lactate, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Amperometry, others (Lactate)		4.95	0.25	5.1	11
	IL blood gas and electrolyte analysers	4.89	0.18	3.6	9
	Siemens blood gas analyzer	-	-	-	1
	Super GL	-	-	-	1
Amperometry, Radiometer (Lactate)		4.51	0.16	3.6	9
	Radiometer blood gas analyzer	4.51	0.16	3.6	9
Photometry enzymatic (Lactate)		5.24	0.21	3.9	35
	Abbott Aeroset, Architect	5.23	0.08	1.5	2
	Abbott Alinity	-	-	-	1
	ABX Pentra	-	-	-	1
	AU instruments	5.16	0.06	1.1	4
	Instruchemie	-	-	-	1
	Roche cobas	5.20	0.17	3.3	14
	Roche Cobas Integra	5.50	0.36	6.6	3
	Siemens Atellica	5.16	0.15	2.9	7
	Thermo Scientific	5.47	0.29	5.3	2

Methodics	Instrument	x_{pt}	sd	CV%	n
Amperometry, others (Lactate)		4.95	0.25	5.1	11
	GEM Premier 3000	-	-	-	1
	Gem Premier 3500	-	-	-	1
	GEM Premier 4000	4.91	0.20	4.0	7
	RAPIDpoint 500	-	-	-	1
	Super GL compact	-	-	-	1
Amperometry, Radiometer (Lactate)		4.51	0.16	3.6	9
	ABL 800 Flex	-	-	-	1
	ABL 90 FLEX	4.55	0.12	2.6	8
Photometry enzymatic (Lactate)		5.24	0.21	3.9	35
	ABX Pentra C200	-	-	-	1
	Advia 1800	-	-	-	1
	Alinity c	-	-	-	1
	Architect ci4100	-	-	-	1
	Architect ci8200	-	-	-	1
	Atellica CH 930	5.16	0.15	2.9	7
	AU 640	-	-	-	1
	AU 680	5.17	0.06	1.2	3
	cobas c501	5.18	0.17	3.2	11
	cobas c502	-	-	-	1
	cobas c702	5.37	0.01	0.3	2
	Integra 400 Plus	5.50	0.36	6.6	3
	Konelab 20XT	-	-	-	1
	Konelab 60i	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Amperometry, others (Lactate)		4.95	0.25	5.1	11
	Lactate oxidase / H2O2 electrode; amperometry	4.95	0.25	5.1	11
Amperometry, Radiometer (Lactate)		4.51	0.16	3.6	9
	Lactate oxidase / H2O2 electrode; amperometry	4.51	0.16	3.6	9
Photometry enzymatic (Lactate)		5.24	0.21	3.9	35
	Lactate, NAD / NADH; photometry	5.12	0.07	1.4	7
	Lactate oxidase / H2O2 / 4-aminoantipyrene; photometry	5.27	0.22	4.2	27
	LD / hydrazine / NADH; photometry	-	-	-	1

Serum A | Creatinine, µmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry, enzymatic (Crea)	381.8	382.0	9.6	2.5	0.8	349.0	407.0	4	149
Photometry, Jaffe	341.8	343.0	20.0	5.9	3.3	282.9	374.8	1	38
All	373.9	380.0	18.9	5.1	1.4	315.1	407.0	4	187

Serum A | Creatinine, µmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry, enzymatic (Crea)		381.8	9.6	2.5	149
	Abbott Aeroset, Architect	386.7	5.6	1.4	5
	Abbott Alinity	387.1	5.1	1.3	3
	ABX Pentra	369.4	2.7	0.7	2
	AU instruments	365.2	36.3	9.9	5
	Elitech	-	-	-	1
	Mindray	387.0	19.3	5.0	3
	Roche cobas	380.2	13.4	3.5	54
	Roche Cobas Integra	373.1	12.6	3.4	2
	Siemens Advia	378.8	4.2	1.1	6
	Siemens Atellica	369.1	4.5	1.2	13
	Thermo Scientific	384.3	8.1	2.1	55
Photometry, Jaffe		341.8	20.0	5.9	38
	ABX Pentra	357.7	17.7	5.0	3
	AU instruments	347.2	15.6	4.5	5
	Beckmann Coulter Olympus	-	-	-	1
	BioSystems	330.2	22.5	6.8	6
	Biotechnica	-	-	-	1
	Diasys	-	-	-	1
	Mindray	-	-	-	1
	Roche cobas	344.3	9.1	2.7	8
	Roche Cobas Integra	341.9	16.4	4.8	10
	Siemens Dimension	311.6	68.1	21.9	2

Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry, enzymatic (Crea)		381.8	9.6	2.5	149
	ABX Pentra C200	-	-	-	1
	ABX Pentra 400	-	-	-	1
	Advia Chemistry XPT	380.1	2.3	0.6	4
	Advia 1800	376.4	7.3	1.9	2
	Alinity c	387.1	5.1	1.3	3
	Architect c8000	-	-	-	1
	Architect ci4100	384.4	6.4	1.7	3
	Architect ci8200	-	-	-	1
	Atellica CH 930	369.1	4.5	1.2	13
	AU 5800	-	-	-	1
	AU 680	377.4	27.7	7.3	4
	BS-300	-	-	-	1
	cobas c111	367.9	5.5	1.5	5
	cobas c311	387.0	5.2	1.3	6
	cobas c501	379.5	14.3	3.8	38
	cobas c702	389.8	5.6	1.4	5
	Indiko	378.2	10.2	2.7	3
	Indiko Plus	384.3	5.8	1.5	8
	Integra 400 Plus	373.1	12.6	3.4	2
	Konelab Prime 30	391.0	1.4	0.4	2
	Konelab PRIME 60i	384.8	7.2	1.9	13
	Konelab 20i	383.8	9.1	2.4	20
	Konelab 20XT	-	-	-	1
	Konelab 20XTi	386.3	4.6	1.2	3
	Konelab 30i	382.0	11.2	2.9	4
	Konelab 60i	-	-	-	1
	Mindray BS-120	-	-	-	1
	Mindray BS200 E	-	-	-	1
	Selectra	-	-	-	1
Photometry, Jaffe		341.8	20.0	5.9	38

	ABX Pentra 400	357.7	17.7	5.0	3
	Atellica CH 930	-	-	-	1
	AU 400	-	-	-	1
	AU 480	327.6	17.4	5.3	3
	AU 640	-	-	-	1
	AU 680	355.7	3.0	0.9	2
	A25 Automatic Analyzer	342.4	20.2	5.9	2
	Biosystems BA-400	304.5	10.6	3.5	2
	Biosystems BTS-350	343.8	4.6	1.3	2
	BT 3500	-	-	-	1
	cobas c501	344.3	9.1	2.7	8
	Dimension EXL 200	-	-	-	1
	Integra 400	-	-	-	1
	Integra 400 Plus	340.5	16.7	4.9	9
	Mindray BS200 E	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry, enzymatic (Crea)		381.8	9.6	2.5	149
	Creatininase / PAP; photometry	380.5	14.4	3.8	58
	Creatinine deiminase / NADPH; photometry	373.1	19.0	5.1	11
	Enzyme / H2O2 / chromogen; photometry	381.3	10.6	2.8	73
	Sarcosine oxidase method	380.0	7.6	2.0	7
Photometry, Jaffe		341.8	20.0	5.9	38
	Alkaline picrate (Jaffe); photometry	339.7	23.5	6.9	38

Serum A | Urea, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry, enzymatic (Urea)	19.42	19.48	0.99	5.1	0.09	16.30	21.50	1	124
All	19.42	19.48	0.99	5.1	0.09	16.30	21.50	1	124

Serum A | Urea, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry, enzymatic (Urea)		19.42	0.99	5.1	124
	Abbott Aeroset, Architect	20.27	0.80	3.9	5
	Abbott Alinity	19.54	0.09	0.5	3
	ABX Pentra	18.29	0.23	1.3	5
	AU instruments	20.05	0.66	3.3	8
	Beckmann Coulter Olympus	-	-	-	1
	BioSystems	16.93	1.44	8.5	6
	Biotechnica	-	-	-	1
	Diasys	-	-	-	1
	Elitech	-	-	-	1
	Mindray	19.87	1.51	7.6	4
	Roche	-	-	-	1
	Roche cobas	19.33	0.41	2.1	48
	Roche Cobas Integra	19.48	0.50	2.6	11
	Siemens Advia	20.73	0.27	1.3	6
	Siemens Atellica	20.10	0.47	2.4	13
	Thermo Scientific	18.54	1.34	7.3	10

Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry, enzymatic (Urea)		19.42	0.99	5.1	124
	ABX Pentra C200	-	-	-	1
	ABX Pentra 400	18.37	0.17	0.9	4
	Advia Chemistry XPT	20.73	0.35	1.7	4
	Advia 1800	20.75	0.07	0.3	2
	Alinity c	19.54	0.09	0.5	3
	Architect c8000	-	-	-	1
	Architect ci4100	20.22	1.11	5.5	3
	Architect ci8200	-	-	-	1
	Atellica CH 930	20.10	0.47	2.4	13
	AU 400	-	-	-	1
	AU 480	19.86	1.20	6.0	3
	AU 5800	-	-	-	1
	AU 640	-	-	-	1
	AU 680	20.21	0.44	2.2	4
	A25 Automatic Analyzer	16.15	2.19	13.6	2
	Biosystems BA-400	18.23	0.59	3.2	2
	Biosystems BTS-350	16.40	0.14	0.9	2
	BS-300	-	-	-	1
	BT 3500	-	-	-	1
	cobas c311	19.20	0.42	2.2	2
	cobas c501	19.34	0.41	2.1	41
	cobas c702	19.33	0.50	2.6	5
	Indiko	18.10	0.42	2.3	2
	Indiko Plus	-	-	-	1
	Integra 400	-	-	-	1
	Integra 400 Plus	19.26	0.63	3.3	11
	Konelab PRIME 60i	18.05	1.43	7.9	3
	Konelab 20i	19.05	0.21	1.1	2
	Konelab 30i	-	-	-	1
	Konelab 60i	-	-	-	1
	Mindray BS-120	-	-	-	1
	Mindray BS200 E	19.57	2.14	11.0	2
	Selectra	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry, enzymatic (Urea)		19.42	0.99	5.1	124
	Urease / phenolate hypochlorite (Berthelot's method); photometry	19.10	3.90	20.4	3

	Urease, glutamate dehydrogenase / NADH; photometry	19.39	0.96	5.0	121
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Serum A | Protein, g/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry (Prot)	43.6	43.2	1.6	3.7	0.2	39.0	48.0	1	101
All	43.6	43.2	1.6	3.7	0.2	39.0	48.0	1	101

Serum A | Protein, g/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry (Prot)		43.6	1.6	3.7	101
	Abbott Aeroset, Architect	43.6	0.5	1.0	3
	Abbott Alinity	42.2	0.2	0.5	2
	ABX Pentra	44.4	1.3	2.9	4
	Alpha Diagnostics	-	-	-	1
	AU instruments	43.6	0.8	1.8	8
	BioSystems	46.5	1.4	3.0	7
	Biotechnica	-	-	-	1
	Cormay	-	-	-	1
	Elitech	-	-	-	1
	Mindray	44.8	1.1	2.4	3
	Roche cobas	43.3	1.1	2.6	46
	Roche Cobas Integra	42.8	1.5	3.5	12
	Siemens Advia	43.1	0.1	0.2	2
	Siemens Atellica	45.8	1.9	4.1	2
	Thermo Scientific	40.0	2.6	6.6	3
	Thermo Scientific T PROT Plus	43.7	0.9	2.1	5

Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry (Prot)		43.6	1.6	3.7	101
	ABX Pentra C200	-	-	-	1
	ABX Pentra 400	43.9	1.0	2.3	3
	Advia Chemistry XPT	43.1	0.1	0.2	2
	Alinity c	42.2	0.2	0.5	2
	Architect c8000	-	-	-	1
	Architect ci4100	-	-	-	1
	Architect ci8200	-	-	-	1
	Atellica CH 930	45.8	1.9	4.1	2
	AU 480	43.4	0.8	2.0	2
	AU 5800	-	-	-	1
	AU 640	-	-	-	1
	AU 680	43.8	0.9	2.1	4
	A25 Automatic Analyzer	46.8	1.6	3.3	2
	Biosystems BA-400	45.0	1.4	3.1	2
	Biosystems BTS-350	47.3	0.6	1.4	3
	BS-300	-	-	-	1
	BT 3500	-	-	-	1
	cobas c311	-	-	-	1
	cobas c501	43.2	1.1	2.5	40
	cobas c702	44.0	1.2	2.6	5
	Indiko	43.3	1.0	2.2	2
	Indiko Plus	-	-	-	1
	Integra 400	-	-	-	1
	Integra 400 Plus	42.8	1.6	3.6	11
	Konelab PRIME 60i	43.3	0.6	1.3	3
	Konelab 20i	-	-	-	1
	Konelab 30i	-	-	-	1
	Konelab 60i	-	-	-	1
	Mindray BS200 E	44.2	0.2	0.5	2
	Photometer 4040v5	-	-	-	1
	Selectra	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry (Prot)		43.6	1.6	3.7	101
	Biuret method; photometry	43.6	1.7	3.9	101

Serum A | Alb, g/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Bromcresol green	29.1	29.0	1.7	5.7	0.2	25.1	33.5	-	50
Bromcresol purple	27.0	27.0	0.8	3.1	0.1	25.0	29.0	2	58
Immunochemical methods (Alb)	27.5	26.4	2.2	7.9	1.3	26.1	30.0	-	3
All	27.9	27.7	1.6	5.8	0.2	23.7	32.0	1	111

Serum A | Alb, g/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Bromcresol green		29.1	1.7	5.7	50
	Abbott Aeroset, Architect	29.1	0.4	1.4	3
	ABX Pentra	28.0	1.3	4.8	2
	AU instruments	27.6	0.8	2.7	10
	BioSystems	30.6	3.2	10.3	5
	Biotechnica	-	-	-	1
	Mindray	-	-	-	1
	Roche cobas	29.5	1.6	5.5	14
	Roche Cobas Integra	29.6	1.0	3.2	7
	Thermo Scientific	28.7	0.6	2.1	7
Bromcresol purple		27.0	0.8	3.1	58
	Abbott Aeroset, Architect	27.6	0.6	2.3	2
	Abbott Alinity	27.4	0.3	1.2	3
	Roche cobas	26.9	1.2	4.5	32
	Siemens Advia	27.2	0.7	2.6	6
	Siemens Atellica	27.4	0.7	2.4	13
	Thermo Scientific	25.4	0.6	2.2	2
Immunochemical methods (Alb)		27.5	2.2	7.9	3
	Roche cobas Tina-quant	27.5	2.2	7.9	3

Methodics	Instrument	x_{pt}	sd	CV%	n
Bromcresol green		29.1	1.7	5.7	50
	ABX Pentra 400	28.0	1.3	4.8	2
	Architect c8000	-	-	-	1
	Architect ci4100	-	-	-	1
	Architect ci8200	-	-	-	1
	AU 480	26.8	0.3	1.1	2
	AU 5800	-	-	-	1
	AU 640	-	-	-	1
	AU 680	27.6	0.7	2.4	6
	A25 Automatic Analyzer	28.2	4.2	14.8	2
	Biosystems BA-400	-	-	-	1
	Biosystems BTS-350	32.3	1.8	5.5	2
	BS-300	-	-	-	1
	BT 3500	-	-	-	1
	cobas c311	-	-	-	1
	cobas c501	29.5	1.8	6.0	12
	cobas c702	-	-	-	1
	Indiko	29.2	1.0	3.4	2
	Indiko Plus	-	-	-	1
	Integra 400 Plus	29.6	1.0	3.2	7
	Konelab PRIME 60i	28.5	<0.1	0.2	2
	Konelab 30i	-	-	-	1
	Konelab 60i	-	-	-	1
Bromcresol purple		27.0	0.8	3.1	58
	Advia Chemistry XPT	27.0	0.7	2.5	4
	Advia 1800	27.5	0.8	3.1	2
	Alinity c	27.4	0.3	1.2	3
	Architect ci4100	27.6	0.6	2.3	2
	Atellica CH 930	27.4	0.7	2.4	13
	cobas c311	27.6	1.2	4.3	3
	cobas c501	27.0	1.1	4.1	25
	cobas c702	25.8	1.5	5.9	4
	Konelab PRIME 60i	-	-	-	1
	Konelab 20i	-	-	-	1

Immunochemical methods (Alb)		27.5	2.2	7.9	3
	cobas c501	26.3	0.2	0.8	2
	Integra 400 Plus	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Bromcresol green		29.1	1.7	5.7	50
	Bromcresol green (BCG); photometry	29.1	1.7	5.7	50
Bromcresol purple		27.0	0.8	3.1	58
	Bromcresol purple (BCP); photometry	27.0	1.0	3.9	58
Immunochemical methods (Alb)		27.5	2.2	7.9	3
	Immunochemical methods; turbidimetry	27.5	2.2	7.9	3

Serum A | Glucose, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Amperometria (Gluc)	13.08	13.10	0.07	0.6	0.04	13.00	13.15	-	3
Photometry (Gluc)	15.16	15.18	0.41	2.7	0.03	14.17	16.50	2	185
All	15.17	15.18	0.42	2.8	0.03	14.17	16.60	4	188

Serum A | Glucose, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Amperometria (Gluc)		13.08	0.07	0.6	3
	Blood-gas instruments	-	-	-	1
	Siemens blood gas analyzer	13.07	0.10	0.8	2
Photometry (Gluc)		15.16	0.41	2.7	185
	Abbott Aeroset, Architect	15.18	0.35	2.3	5
	Abbott Alinity	14.95	0.33	2.2	3
	ABX Pentra	14.33	1.05	7.3	5
	AU instruments	15.16	0.30	1.9	10
	Beckmann Coulter Olympus	-	-	-	1
	BioSystems	15.61	0.37	2.4	4
	Biotechnica	-	-	-	1
	Diasys	-	-	-	1
	Elitech	-	-	-	1
	Mindray	15.00	0.32	2.1	4
	Roche cobas	15.14	0.27	1.8	62
	Roche Cobas Integra	15.11	0.34	2.2	12
	Siemens Advia	14.87	0.12	0.8	6
	Siemens Atellica	14.61	0.23	1.6	14
	Thermo Scientific	15.45	0.46	3.0	56

Methodics	Instrument	x_{pt}	sd	CV%	n
Amperometria (Gluc)		13.08	0.07	0.6	3
	ABL 90 FLEX	-	-	-	1
	RAPIDpoint 500	13.07	0.10	0.8	2
Photometry (Gluc)		15.16	0.41	2.7	185
	ABX Pentra C200	-	-	-	1
	ABX Pentra 400	14.17	1.14	8.0	4
	Advia Chemistry XPT	14.85	0.15	1.0	4
	Advia 1800	14.91	0.08	0.5	2
	Alinity c	14.95	0.33	2.2	3
	Architect c8000	-	-	-	1
	Architect ci4100	15.07	0.44	2.9	3
	Architect ci8200	-	-	-	1
	Atellica CH 930	14.61	0.23	1.6	14
	AU 400	-	-	-	1
	AU 480	14.83	0.27	1.8	3
	AU 5800	-	-	-	1
	AU 640	-	-	-	1
	AU 680	15.22	0.34	2.2	6
	A25 Automatic Analyzer	-	-	-	1
	Biosystems BA-400	15.43	0.43	2.8	2
	Biosystems BTS-350	-	-	-	1
	BS-300	-	-	-	1
	BT 3500	-	-	-	1
	cobas c111	15.27	0.10	0.7	5
	cobas c311	15.30	0.34	2.3	6
	cobas c501	15.11	0.26	1.7	46
	cobas c702	15.07	0.31	2.1	5
	Indiko	15.61	0.76	4.9	4
	Indiko Plus	15.46	0.61	4.0	8
	Integra 400	-	-	-	1
	Integra 400 Plus	15.07	0.31	2.1	11
	Konelab Prime 30	15.65	0.49	3.2	2
	Konelab PRIME 60i	15.30	0.43	2.8	13
	Konelab 20i	15.44	0.40	2.6	20
	Konelab 20XT	-	-	-	1

	Konelab 20XTi	15.57	0.31	2.0	3
	Konelab 30i	15.53	0.46	3.0	4
	Konelab 60i	-	-	-	1
	Mindray BS-120	-	-	-	1
	Mindray BS200 E	15.12	0.10	0.7	2
	Selectra	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Amperometria (Gluc)		13.08	0.07	0.6	3
	Glucose oxidase / H2O2- or O2-electrode; amperometry	13.08	0.07	0.6	3
Photometry (Gluc)		15.16	0.41	2.7	185
	Glucose dehydrogenase, mutarotase / NADH; photometry	15.52	0.50	3.2	8
	Glucose oxidase, H2O2 / chromogen; photometry	15.08	0.80	5.3	22
	Hexokinase, glucose-6-P-dehydrogenase / NADH; photometry	15.15	0.39	2.5	155

Serum A | Calcium, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry (Ca)	3.03	3.03	0.07	2.2	<0.01	2.82	3.21	2	130
All	3.03	3.03	0.07	2.2	<0.01	2.82	3.21	2	130

Serum A | Calcium, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry (Ca)		3.03	0.07	2.2	130
	Abbott Aeroset, Architect	3.00	0.05	1.6	5
	Abbott Alinity	2.99	0.02	0.8	3
	ABX Pentra	3.03	0.07	2.4	4
	AU instruments	3.02	0.05	1.7	10
	BioSystems	2.96	0.20	6.7	3
	Biotechnica	-	-	-	1
	Diasys	-	-	-	1
	Elitech	-	-	-	1
	Mindray	2.96	0.09	2.9	3
	Roche cobas	3.01	0.04	1.4	52
	Roche Cobas Integra	3.04	0.04	1.5	11
	Siemens Advia	3.09	0.06	1.9	5
	Siemens Atellica	3.05	0.06	1.9	13
	Thermo Scientific	3.12	0.09	2.9	18

Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry (Ca)		3.03	0.07	2.2	130
	ABX Pentra 400	3.03	0.07	2.4	4
	Advia Chemistry XPT	3.10	0.07	2.1	4
	Advia 1800	-	-	-	1
	Alinity c	2.99	0.02	0.8	3
	Architect c8000	-	-	-	1
	Architect ci4100	3.02	0.03	0.8	3
	Architect ci8200	-	-	-	1
	Atellica CH 930	3.05	0.06	1.9	13
	AU 400	-	-	-	1
	AU 480	3.00	0.04	1.3	2
	AU 5800	-	-	-	1
	AU 640	-	-	-	1
	AU 680	3.00	0.02	0.6	6
	A25 Automatic Analyzer	-	-	-	1
	Biosystems BA-400	-	-	-	1
	Biosystems BTS-350	-	-	-	1
	BS-300	-	-	-	1
	BT 3500	-	-	-	1
	cobas c311	3.02	0.06	2.1	4
	cobas c501	3.01	0.04	1.3	43
	cobas c702	3.01	0.05	1.5	5
	Indiko	3.03	0.18	6.1	2
	Indiko Plus	3.08	0.10	3.2	2
	Integra 400 Plus	3.04	0.04	1.5	11
	Konelab PRIME 60i	3.11	0.07	2.2	10
	Konelab 20i	3.24	0.06	1.7	2
	Konelab 30i	3.16	0.02	0.7	2
	Mindray BS200 E	2.91	<0.01	<0.1	2
	Selectra	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry (Ca)		3.03	0.07	2.2	130
	Arsenazo III; photometry	3.04	0.09	3.1	64
	o-Cresolphthalein (OCP); photometry	3.04	0.08	2.5	20
	5-nitro-5'-methyl-BAPTA (NM-BAPTA)	3.02	0.04	1.3	46

Serum A | Magnesium, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry (Mg)	1.68	1.69	0.05	2.8	<0.01	1.51	1.80	2	91
All	1.68	1.69	0.05	2.8	<0.01	1.51	1.80	2	91

Serum A | Magnesium, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry (Mg)		1.68	0.05	2.8	91
	Abbott Aeroset, Architect	1.64	0.03	2.0	3
	Abbott Alinity	1.67	0.10	5.8	2
	ABX Pentra	1.63	0.12	7.1	4
	AU instruments	1.69	0.04	2.2	7
	BioSystems	1.50	0.15	9.8	3
	Diasys	-	-	-	1
	Elitech	-	-	-	1
	Mindray	1.68	0.04	2.1	2
	Roche cobas	1.69	0.03	1.8	40
	Roche Cobas Integra	1.71	0.02	1.3	7
	Siemens Advia	1.68	0.05	3.0	4
	Siemens Atellica	1.69	0.04	2.2	11
	Thermo Scientific	1.65	0.09	5.8	6

Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry (Mg)		1.68	0.05	2.8	91
	ABX Pentra 400	1.63	0.12	7.1	4
	Advia Chemistry XPT	1.68	0.05	3.0	4
	Alinity c	1.67	0.10	5.8	2
	Architect c8000	-	-	-	1
	Architect ci4100	-	-	-	1
	Architect ci8200	-	-	-	1
	Atellica CH 930	1.69	0.04	2.2	11
	AU 400	-	-	-	1
	AU 480	-	-	-	1
	AU 5800	-	-	-	1
	AU 640	-	-	-	1
	AU 680	1.70	0.04	2.6	4
	A25 Automatic Analyzer	-	-	-	1
	Biosystems BA-400	1.44	0.14	9.5	2
	cobas c311	-	-	-	1
	cobas c501	1.69	0.03	1.8	34
	cobas c702	1.68	0.02	1.4	5
	Indiko	-	-	-	1
	Indiko Plus	-	-	-	1
	Integra 400 Plus	1.71	0.02	1.3	7
	Konelab PRIME 60i	1.59	0.11	6.7	2
	Konelab 20i	1.73	0.11	6.1	2
	Mindray BS200 E	1.68	0.04	2.1	2
	Selectra	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry (Mg)		1.68	0.05	2.8	91
	Arsenazo III; photometry	1.67	0.04	2.1	4
	Chlorophosphonazo III (CPZ III); photometry	1.71	0.02	1.4	10
	Enzymatic method; absorption photometry	1.66	0.06	3.6	4
	Methylthymol blue (MTB); photometry	-	-	-	1
	Xylidyl blue; photometry	1.67	0.07	3.9	72

Serum A | Phosphorus, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry (Inorganic Phosphate)	2.19	2.18	0.07	3.0	<0.01	2.02	2.42	3	101
All	2.19	2.18	0.07	3.0	<0.01	2.02	2.42	3	101

Serum A | Phosphorus, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry (Inorganic Phosphate)		2.19	0.07	3.0	101
	Abbott Aeroset, Architect	2.14	0.02	0.8	4
	Abbott Alinity	2.15	0.02	1.1	3
	ABX Pentra	2.15	0.10	4.5	4
	AU instruments	2.19	0.03	1.3	6
	BioSystems	2.41	0.06	2.5	2
	Biotechnica	-	-	-	1
	Mindray	2.03	0.21	10.4	2
	Roche cobas	2.16	0.04	1.8	47
	Roche Cobas Integra	2.22	0.04	1.7	8
	Siemens Advia	2.27	0.05	2.1	6
	Siemens Atellica	2.21	0.11	5.0	10
	Thermo Scientific	2.25	0.11	5.0	8

Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry (Inorganic Phosphate)		2.19	0.07	3.0	101
	ABX Pentra 400	2.15	0.10	4.5	4
	Advia Chemistry XPT	2.28	0.06	2.5	4
	Advia 1800	2.25	<0.01	0.3	2
	Alinity c	2.15	0.02	1.1	3
	Architect c8000	-	-	-	1
	Architect ci4100	2.15	0.02	1.1	2
	Architect ci8200	-	-	-	1
	Atellica CH 930	2.21	0.11	5.0	10
	AU 5800	-	-	-	1
	AU 640	-	-	-	1
	AU 680	2.18	0.02	0.8	4
	A25 Automatic Analyzer	-	-	-	1
	Biosystems BA-400	-	-	-	1
	BS-300	-	-	-	1
	BT 3500	-	-	-	1
	cobas c311	2.18	0.05	2.3	2
	cobas c501	2.16	0.04	1.7	40
	cobas c702	2.17	0.05	2.2	5
	Indiko	2.15	0.07	3.3	2
	Indiko Plus	-	-	-	1
	Integra 400 Plus	2.22	0.04	1.7	8
	Konelab PRIME 60i	2.27	0.07	3.1	2
	Konelab 20i	2.28	0.21	9.0	2
	Konelab 30i	-	-	-	1
	Mindray BS200 E	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry (Inorganic Phosphate)		2.19	0.07	3.0	101
	Ammonium molybdate, phosphomolybdate complex, without reducing agent or deproteinization; photometry	2.19	0.08	3.8	93
	Ammonium molybdate, reducing agent / molybdenum blue, deproteinization: photometry	2.21	0.06	2.6	4
	Ammonium molybdate, reducing agent / molybdenum blue, without deproteinization: photometry	2.18	0.04	1.9	4

Serum A | Uric acid, µmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry, enzymatic (Uric acid)	567	567	19	3.4	2	512	612	1	146
All	567	567	19	3.4	2	512	612	1	146

Serum A | Uric acid, µmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry, enzymatic (Uric acid)		567	19	3.4	146
	Abbott Aeroset, Architect	563	11	2.0	5
	Abbott Alinity	566	1	0.2	3
	ABX Pentra	524	28	5.4	4
	AU instruments	582	10	1.7	10
	Beckmann Coulter Olympus	-	-	-	1
	BioSystems	569	23	4.0	4
	Biotechnica	-	-	-	1
	Diasys	-	-	-	1
	Mindray	569	16	2.8	2
	Roche cobas	551	10	1.9	51
	Roche Cobas Integra	579	9	1.6	10
	Siemens Advia	578	9	1.6	6
	Siemens Atellica	568	8	1.4	13
	Thermo Scientific	586	13	2.2	35

Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry, enzymatic (Uric acid)		567	19	3.4	146
	ABX Pentra 400	524	28	5.4	4
	Advia Chemistry XPT	580	9	1.6	4
	Advia 1800	574	11	1.8	2
	Alinity c	566	1	0.2	3
	Architect c8000	-	-	-	1
	Architect ci4100	566	9	1.6	3
	Architect ci8200	-	-	-	1
	Atellica CH 930	568	8	1.4	13
	AU 400	-	-	-	1
	AU 480	552	30	5.5	3
	AU 5800	-	-	-	1
	AU 640	-	-	-	1
	AU 680	584	4	0.7	6
	A25 Automatic Analyzer	-	-	-	1
	Biosystems BA-400	563	14	2.5	2
	Biosystems BTS-350	-	-	-	1
	BS-300	-	-	-	1
	BT 3500	-	-	-	1
	cobas c311	554	9	1.7	4
	cobas c501	551	11	1.9	42
	cobas c702	548	8	1.5	5
	Indiko	-	-	-	1
	Indiko Plus	581	16	2.7	6
	Integra 400	-	-	-	1
	Integra 400 Plus	579	10	1.7	9
	Konelab Prime 30	-	-	-	1
	Konelab PRIME 60i	589	9	1.5	10
	Konelab 20i	584	17	2.9	10
	Konelab 20XTi	588	8	1.4	3
	Konelab 30i	586	9	1.5	3
	Konelab 60i	-	-	-	1
	Mindray BS200 E	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry, enzymatic (Uric acid)		567	19	3.4	146
	Uricase / allantoin; photometry	565	22	3.9	29
	Uricase, H2O2, peroxidase / chromogen; photometry	567	20	3.5	117

Serum A | Cholesterol, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry, enzymatic (Chol)	7.31	7.30	0.23	3.1	0.02	6.80	7.96	3	173
All	7.31	7.30	0.23	3.1	0.02	6.80	7.96	3	173

Serum A | Cholesterol, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry, enzymatic (Chol)		7.31	0.23	3.1	173
	Abbott Aeroset, Architect	7.43	0.08	1.1	5
	Abbott Alinity	7.34	0.13	1.7	3
	ABX Pentra	7.40	0.25	3.4	4
	AU instruments	7.60	0.37	4.8	10
	Beckmann Coulter Olympus	-	-	-	1
	BioSystems	7.89	0.71	9.0	6
	Biotechnica	-	-	-	1
	Diasys	-	-	-	1
	Elitech	-	-	-	1
	Mindray	7.26	0.34	4.6	4
	Roche cobas	7.12	0.13	1.8	54
	Roche Cobas Integra	7.28	0.11	1.5	11
	Siemens Advia	7.62	0.16	2.2	6
	Siemens Atellica	7.37	0.11	1.6	13
	Thermo Scientific	7.39	0.19	2.6	53

Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry, enzymatic (Chol)		7.31	0.23	3.1	173
	ABX Pentra 400	7.40	0.25	3.4	4
	Advia Chemistry XPT	7.66	0.19	2.5	4
	Advia 1800	7.54	0.09	1.2	2
	Alinity c	7.34	0.13	1.7	3
	Architect c8000	-	-	-	1
	Architect ci4100	7.40	0.09	1.3	3
	Architect ci8200	-	-	-	1
	Atellica CH 930	7.37	0.11	1.6	13
	AU 400	-	-	-	1
	AU 480	7.63	0.28	3.6	3
	AU 5800	-	-	-	1
	AU 640	-	-	-	1
	AU 680	7.49	0.26	3.4	6
	A25 Automatic Analyzer	7.88	1.14	14.5	2
	Biosystems BA-400	7.87	0.12	1.5	2
	Biosystems BTS-350	7.93	1.10	13.9	2
	BS-300	-	-	-	1
	BT 3500	-	-	-	1
	cobas c111	7.31	0.01	0.2	2
	cobas c311	7.23	0.04	0.6	5
	cobas c501	7.09	0.12	1.7	42
	cobas c702	7.13	0.11	1.5	5
	Indiko	7.27	0.24	3.2	4
	Indiko Plus	7.39	0.27	3.6	7
	Integra 400	-	-	-	1
	Integra 400 Plus	7.28	0.12	1.6	10
	Konelab Prime 30	7.40	<0.01	<0.1	2
	Konelab PRIME 60i	7.34	0.11	1.5	13
	Konelab 20i	7.43	0.21	2.8	19
	Konelab 20XT	-	-	-	1
	Konelab 20XTi	7.43	0.25	3.4	3
	Konelab 30i	7.40	0.20	2.7	3
	Konelab 60i	-	-	-	1
	Mindray BS-120	-	-	-	1
	Mindray BS200 E	7.22	0.06	0.9	2
	Selectra	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
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Photometry, enzymatic (Chol)		7.31	0.23	3.1	173
	Cholesterol esterase, cholesterol oxidase, H2O2, peroxidase / chromogen; photometry	7.33	0.28	3.8	173

Serum A | Triglycerides, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry, enzymatic (Trigly)	2.93	2.92	0.14	4.7	0.01	2.48	3.33	2	172
All	2.93	2.92	0.14	4.7	0.01	2.48	3.33	2	172

Serum A | Triglycerides, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry, enzymatic (Trigly)		2.93	0.14	4.7	172
	Abbott Aeroset, Architect	2.96	0.07	2.5	5
	Abbott Alinity	2.90	0.11	3.8	3
	ABX Pentra	2.82	0.06	2.2	4
	AU instruments	2.98	0.11	3.6	10
	Beckmann Coulter Olympus	-	-	-	1
	BioSystems	2.67	0.16	6.0	6
	Biotechnica	-	-	-	1
	Diasys	-	-	-	1
	Elitech	-	-	-	1
	Mindray	2.73	0.20	7.2	4
	Roche cobas	2.85	0.07	2.3	55
	Roche Cobas Integra	3.00	0.37	12.5	11
	Siemens Advia	3.02	0.08	2.8	6
	Siemens Atellica	3.02	0.05	1.6	13
	Thermo Scientific	3.03	0.12	3.9	51

Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry, enzymatic (Trigly)		2.93	0.14	4.7	172
	ABX Pentra 400	2.82	0.06	2.2	4
	Advia Chemistry XPT	3.03	0.10	3.4	4
	Advia 1800	2.99	0.04	1.2	2
	Alinity c	2.90	0.11	3.8	3
	Architect c8000	-	-	-	1
	Architect ci4100	2.98	0.09	3.0	3
	Architect ci8200	-	-	-	1
	Atellica CH 930	3.02	0.05	1.6	13
	AU 400	-	-	-	1
	AU 480	2.71	0.59	21.8	3
	AU 5800	-	-	-	1
	AU 640	-	-	-	1
	AU 680	2.94	0.11	3.8	6
	A25 Automatic Analyzer	2.50	0.02	0.9	2
	Biosystems BA-400	2.82	0.10	3.6	2
	Biosystems BTS-350	2.70	0.10	3.9	2
	BS-300	-	-	-	1
	BT 3500	-	-	-	1
	cobas c111	2.88	<0.01	0.2	2
	cobas c311	2.80	0.07	2.4	5
	cobas c501	2.85	0.07	2.3	43
	cobas c702	2.88	0.07	2.4	5
	Indiko	2.90	0.09	3.2	3
	Indiko Plus	2.93	0.11	3.7	7
	Integra 400	-	-	-	1
	Integra 400 Plus	3.02	0.39	13.0	10
	Konelab Prime 30	-	-	-	1
	Konelab PRIME 60i	3.02	0.07	2.3	13
	Konelab 20i	3.08	0.14	4.5	19
	Konelab 20XT	-	-	-	1
	Konelab 20XTi	3.04	0.03	1.1	3
	Konelab 30i	3.00	0.05	1.7	3
	Konelab 60i	-	-	-	1
	Mindray BS-120	-	-	-	1
	Mindray BS200 E	2.64	0.08	3.2	2
	Selectra	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
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Photometry, enzymatic (Trigly)		2.93	0.14	4.7	172
	Lipase, GDH / NADH; photometry	2.99	0.31	10.4	13
	Lipase, GK/G-3-P-oxidase, H2O2, peroxidase / chromogen; photometry	2.92	0.16	5.6	159

Serum A | Bil, tot, µmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry (Bil)	88.8	87.1	6.5	7.3	0.5	78.0	106.3	2	158
All	88.8	87.1	6.5	7.3	0.5	78.0	106.3	2	158

Serum A | Bil, tot, µmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry (Bil)		88.8	6.5	7.3	158
	Abbott Aeroset, Architect	90.1	9.1	10.1	5
	Abbott Alinity	94.4	3.5	3.7	3
	ABX Pentra	94.7	6.2	6.5	5
	AU instruments	93.4	3.1	3.3	10
	Beckmann Coulter Olympus	-	-	-	1
	BioSystems	86.1	2.5	2.8	5
	Biotechnica	-	-	-	1
	Diasys	89.1	2.2	2.5	2
	Elitech	-	-	-	1
	Mindray	97.1	9.0	9.3	2
	Mindray BIL-T	-	-	-	1
	Roche cobas	84.1	2.3	2.8	60
	Roche Cobas Integra	82.6	2.9	3.5	12
	Siemens Advia	104.0	5.8	5.5	6
	Siemens Atellica	99.8	2.3	2.3	13
	Siemens Dimension	-	-	-	1
	Thermo Scientific	89.7	2.9	3.2	7
	Thermo Scientific NBD	89.4	3.4	3.8	23

Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry (Bil)		88.8	6.5	7.3	158
	ABX Pentra C200	-	-	-	1
	ABX Pentra 400	94.7	7.1	7.5	4
	Advia Chemistry XPT	103.1	6.9	6.6	4
	Advia 1800	105.8	3.9	3.7	2
	Alinity c	94.4	3.5	3.7	3
	Architect c8000	-	-	-	1
	Architect ci4100	86.3	8.9	10.3	3
	Architect ci8200	-	-	-	1
	Atellica CH 930	99.8	2.3	2.3	13
	AU 400	-	-	-	1
	AU 480	97.7	4.2	4.3	3
	AU 5800	-	-	-	1
	AU 640	-	-	-	1
	AU 680	92.7	2.4	2.6	6
	A25 Automatic Analyzer	88.0	0.2	0.2	2
	Biosystems BA-400	84.8	3.9	4.6	2
	Biosystems BTS-350	86.4	0.9	1.1	2
	BS-300	-	-	-	1
	BT 3500	-	-	-	1
	cobas c111	82.1	6.5	7.9	3
	cobas c311	83.8	2.3	2.8	6
	cobas c501	84.3	2.1	2.4	46
	cobas c702	83.9	1.2	1.4	5
	Dimension EXL 200	-	-	-	1
	Indiko	91.1	5.4	6.0	3
	Indiko Plus	89.7	3.7	4.2	5
	Integra 400	-	-	-	1
	Integra 400 Plus	82.6	3.0	3.6	11
	Konelab PRIME 60i	89.1	3.1	3.5	11
	Konelab 20i	89.2	3.2	3.6	8
	Konelab 20XT	-	-	-	1
	Konelab 20XTi	-	-	-	1
	Konelab 30i	-	-	-	1
	Mindray BS200 E	91.9	1.6	1.7	2
	Selectra	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry (Bil)		88.8	6.5	7.3	158
	Acid diazo, Caffeine, Na-benzoate (Jendrassik-Grof applications); photometry	86.8	5.8	6.7	9
	Acid diazo, DCA; photometry	87.1	5.2	5.9	35
	Acid diazo, Detergent (Malloy-Evelyn and applications); photometry	87.4	5.3	6.1	83
	Alkaline diazo, Caffeine, Na-benzoate (Jendrassik-Grof applications); photometry	85.3	4.3	5.1	8
	Biliverdin, Na nitrite; photometry	92.4	0.8	0.9	2
	Vanadate oxidation, biliverdin; photometry	100.4	4.5	4.4	21

Serum A | ALP, U/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
IFCC methods (ALP)	364	356	64	17.5	14	240	472	-	22
IFCC methods (ALP Beckman Coulter)	399	411	38	9.6	17	357	450	-	5
IFCC methods ALP (IFCC2011)	308	308	28	9.0	2	265	371	3	149
All	316	310	38	12.0	3	240	438	5	176

Serum A | ALP, U/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
IFCC methods (ALP)		364	64	17.5	22
	Abbott Aeroset, Architect	332	29	8.8	4
	ABX Pentra	327	25	7.6	4
	AU instruments	419	6	1.4	2
	Beckman Coulter	-	-	-	1
	Beckmann Coulter Olympus	342	111	32.4	2
	BioSystems	408	53	13.0	5
	Diasys	-	-	-	1
	Mindray	418	67	16.1	2
	Spinreact	-	-	-	1
IFCC methods (ALP Beckman Coulter)		399	38	9.6	5
	AU instruments	399	38	9.6	5
IFCC methods ALP (IFCC2011)		308	28	9.0	149
	Abbott Aeroset, Architect	-	-	-	1
	Abbott Alinity	346	14	4.0	3
	ABX Pentra	-	-	-	1
	Elitech	-	-	-	1
	Mindray	463	35	7.5	2
	Roche cobas	282	9	3.2	52
	Roche Cobas Integra	309	16	5.0	11
	Roche IFCC	281	7	2.6	8
	Siemens Advia	310	7	2.3	6
	Siemens Atellica	311	8	2.6	13
	Thermo Scientific	342	17	4.8	14
	Thermo Scientific (IFCC) Plus	333	19	5.6	37

Methodics	Instrument	x_{pt}	sd	CV%	n
IFCC methods (ALP)		364	64	17.5	22
	ABX Pentra 400	327	25	7.6	4
	Architect c8000	-	-	-	1
	Architect ci4100	318	39	12.2	2
	Architect ci8200	-	-	-	1
	AU 400	-	-	-	1
	AU 480	-	-	-	1
	AU 5800	-	-	-	1
	AU 640	-	-	-	1
	AU 680	423	<1	0.2	2
	A25 Automatic Analyzer	401	64	16.1	2
	Biosystems BA-400	441	44	9.9	2
	Biosystems BTS-350	-	-	-	1
	BT 3500	-	-	-	1
	Mindray BS200 E	418	67	16.1	2
IFCC methods (ALP Beckman Coulter)		399	38	9.6	5
	AU 480	-	-	-	1
	AU 680	396	44	11.0	4
IFCC methods ALP (IFCC2011)		308	28	9.0	149
	ABX Pentra C200	-	-	-	1
	Advia Chemistry XPT	310	2	0.7	4
	Advia 1800	310	16	5.0	2
	Alinity c	346	14	4.0	3
	Architect ci4100	-	-	-	1
	Atellica CH 930	311	8	2.6	13
	BS-300	-	-	-	1

	cobas c111	292	11	3.8	4
	cobas c311	278	8	3.0	6
	cobas c501	282	8	2.8	45
	cobas c702	277	10	3.5	5
	Indiko	347	12	3.4	3
	Indiko Plus	332	23	7.1	8
	Integra 400	-	-	-	1
	Integra 400 Plus	307	15	4.8	10
	Konelab Prime 30	347	23	6.7	2
	Konelab PRIME 60i	336	13	3.8	13
	Konelab 20i	333	16	4.8	18
	Konelab 20XTi	347	6	1.8	3
	Konelab 30i	348	21	5.9	3
	Konelab 60i	-	-	-	1
	Mindray BS-120	-	-	-	1
	Selectra	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
IFCC methods (ALP)		364	64	17.5	22
	pNPP, AMP buffer / pNP; photometry	364	64	17.5	22
IFCC methods (ALP Beckman Coulter)		399	38	9.6	5
	pNPP, AMP buffer / pNP; photometry	399	38	9.6	5
IFCC methods ALP (IFCC2011)		308	28	9.0	149
	pNPP, AMP buffer / pNP; photometry	311	35	11.1	149

Serum A | Amyl, U/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
IFCC methods (Amyl)	311	302	25	8.2	2	269	380	2	141
All	311	302	25	8.2	2	269	380	2	141

Serum A | Amyl, U/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
IFCC methods (Amyl)		311	25	8.2	141
	Abbott Aeroset, Architect	365	19	5.1	5
	Abbott Alinity	370	18	4.8	3
	ABX Pentra	336	7	2.0	3
	AU instruments	308	9	3.0	8
	Beckmann Coulter Olympus	301	44	14.7	2
	BioSystems	325	29	8.9	4
	Biotechnica	-	-	-	1
	Elitech	-	-	-	1
	Mindray	293	10	3.5	4
	Roche cobas	290	5	1.8	59
	Roche Cobas Integra	300	7	2.2	10
	Siemens Advia	316	7	2.2	6
	Siemens Atellica	332	<1	0.2	2
	Thermo Scientific	338	15	4.5	33

Methodics	Instrument	x_{pt}	sd	CV%	n
IFCC methods (Amyl)		311	25	8.2	141
	ABX Pentra 400	336	7	2.0	3
	Advia Chemistry XPT	319	5	1.6	4
	Advia 1800	310	7	2.3	2
	Alinity c	370	18	4.8	3
	Architect c8000	-	-	-	1
	Architect ci4100	358	19	5.3	3
	Architect ci8200	-	-	-	1
	Atellica CH 930	332	<1	0.2	2
	AU 480	298	27	9.0	3
	AU 640	-	-	-	1
	AU 680	307	8	2.7	6
	A25 Automatic Analyzer	-	-	-	1
	Biosystems BA-400	324	32	9.8	2
	Biosystems BTS-350	-	-	-	1
	BS-300	-	-	-	1
	BT 3500	-	-	-	1
	cobas c111	294	4	1.3	3
	cobas c311	291	4	1.4	5
	cobas c501	289	4	1.5	45
	cobas c702	296	6	1.9	5
	Indiko	332	10	3.0	2
	Indiko Plus	332	9	2.8	5
	Integra 400	-	-	-	1
	Integra 400 Plus	301	7	2.2	10
	Konelab Prime 30	-	-	-	1
	Konelab PRIME 60i	333	14	4.1	11
	Konelab 20i	342	16	4.8	10
	Konelab 20XTi	-	-	-	1
	Konelab 30i	352	19	5.4	2
	Konelab 60i	-	-	-	1
	Mindray BS-120	-	-	-	1
	Mindray BS200 E	299	13	4.4	2
	Selectra	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
IFCC methods (Amyl)		311	25	8.2	141
	Cl-G3-pNP / Cl-pNP; photometry	327	32	9.8	6
	Etyl.-G7-pNP / pNP; photometry	311	26	8.5	135

Serum A | AST, U/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
IFCC comparable methods (ASAT)	190	195	13	7.1	1	149	209	3	104
IFCC without P-5-P (AST)	154	154	7	4.8	1	136	171	1	50
All	178	189	21	11.9	2	136	209	-	154

Serum A | AST, U/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
IFCC comparable methods (ASAT)		190	13	7.1	104
	Abbott Aeroset, Architect	190	2	1.1	4
	Abbott Alinity	177	29	16.6	3
	ABX Pentra	157	<1	0.5	2
	AU instruments	171	17	9.7	6
	Beckmann Coulter Olympus	-	-	-	1
	Diasys	-	-	-	1
	Roche cobas	190	12	6.4	32
	Roche Cobas Integra	173	37	21.2	2
	Siemens Advia	196	3	1.6	5
	Siemens Atellica	198	5	2.4	11
	Thermo Scientific	193	12	6.4	37
		154	7	4.8	50
	Abbott Aeroset, Architect	-	-	-	1
IFCC without P-5-P (AST)	ABX Pentra	161	1	0.7	3
	AU instruments	159	6	3.7	4
	BioSystems	162	14	8.7	6
	Biotechnica	-	-	-	1
	Elitech	-	-	-	1
	Mindray AST IFCC	157	4	2.4	4
	Roche cobas	151	4	2.7	15
	Roche Cobas Integra	149	7	4.7	10
	Siemens Advia	-	-	-	1
	Siemens Atellica	-	-	-	1
	Thermo Scientific	163	13	7.8	3

Methodics	Instrument	x_{pt}	sd	CV%	n
IFCC comparable methods (ASAT)		190	13	7.1	104
	ABX Pentra 400	157	<1	0.5	2
	Advia Chemistry XPT	196	4	2.1	3
	Advia 1800	197	2	1.1	2
	Alinity c	177	29	16.6	3
	Architect c8000	-	-	-	1
	Architect ci4100	191	2	1.1	2
	Architect ci8200	-	-	-	1
	Atellica CH 930	198	5	2.4	11
	AU 400	-	-	-	1
	AU 480	152	5	3.0	2
	AU 5800	-	-	-	1
	AU 640	-	-	-	1
	AU 680	182	17	9.4	3
	cobas c111	-	-	-	1
	cobas c311	177	30	16.8	3
	cobas c501	191	10	5.2	24
	cobas c702	191	4	2.2	4
	Indiko	176	16	9.1	3
	Indiko Plus	189	11	5.9	6
	Integra 400 Plus	173	37	21.2	2
	Konelab Prime 30	201	<1	0.4	2
	Konelab PRIME 60i	191	9	4.5	7
	Konelab 20i	197	12	6.3	17
	Konelab 20XTi	197	<1	0.4	2
		154	7	4.8	50
	ABX Pentra C200	-	-	-	1
	ABX Pentra 400	161	1	0.8	2
	Advia Chemistry XPT	-	-	-	1

	Architect ci4100	-	-	-	1
	Atellica CH 930	-	-	-	1
	AU 480	-	-	-	1
	AU 680	159	7	4.4	3
	A25 Automatic Analyzer	171	24	14.3	2
	Biosystems BA-400	158	11	6.7	2
	Biosystems BTS-350	157	4	2.7	2
	BS-300	-	-	-	1
	BT 3500	-	-	-	1
	cobas c501	151	4	2.8	13
	cobas c702	-	-	-	1
	Integra 400	-	-	-	1
	Integra 400 Plus	149	7	4.7	10
	Konelab PRIME 60i	-	-	-	1
	Konelab 30i	-	-	-	1
	Konelab 60i	-	-	-	1
	Mindray BS-120	-	-	-	1
	Mindray BS200 E	156	2	1.0	2
	Selectra	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
IFCC comparable methods (ASAT)		190	13	7.1	104
	Alpha-ketoglutarate, Asp, P-5-P / NADH consumption; photometry	189	15	8.1	104
IFCC without P-5-P (AST)		154	7	4.8	50
	Alpha-ketoglutarate, Asp / NADH consumption; photometry	154	9	5.7	50

Serum A | ALT, U/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
IFCC comparable methods (ALT)	142	140	7	4.7	<1	129	162	2	130
IFCC methods without P-5-P (ALT)	139	138	8	6.0	1	123	164	1	55
All	141	140	7	5.2	<1	123	164	3	185

Serum A | ALT, U/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
IFCC comparable methods (ALT)		142	7	4.7	130
	Abbott Aeroset, Architect	145	5	3.1	3
	Abbott Alinity	139	4	3.0	3
	Abbott Architect	-	-	-	1
	ABX Pentra	152	1	0.8	4
	AU instruments	140	2	1.1	4
	Beckmann Coulter Olympus	-	-	-	1
	BioSystems	168	14	8.4	2
	Diasys	-	-	-	1
	Roche cobas	137	2	1.8	45
	Roche Cobas Integra	134	4	3.0	5
	Siemens Advia	147	6	4.1	6
	Siemens Atellica	145	5	3.2	12
	Thermo Scientific	148	7	4.8	43
IFCC methods without P-5-P (ALT)		139	8	6.0	55
	Abbott Aeroset, Architect	-	-	-	1
	ABX Pentra	-	-	-	1
	AU instruments	140	3	2.2	5
	Beckmann Coulter Olympus	-	-	-	1
	BioSystems	146	22	15.1	3
	Biotechnica	-	-	-	1
	Elitech	-	-	-	1
	Human	-	-	-	1
	Mindray	155	9	5.5	4
	Roche cobas	134	3	2.0	16
	Roche Cobas Integra	132	4	3.3	8
	Siemens Atellica	-	-	-	1
	Thermo Scientific	143	6	4.2	12

Methodics	Instrument	x_{pt}	sd	CV%	n
IFCC comparable methods (ALT)		142	7	4.7	130
	ABX Pentra 400	152	1	0.8	4
	Advia Chemistry XPT	147	7	4.7	4
	Advia 1800	148	6	4.3	2
	Alinity c	139	4	3.0	3
	Architect c8000	-	-	-	1
	Architect ci4100	147	3	1.9	2
	Architect ci8200	-	-	-	1
	Atellica CH 930	145	5	3.2	12
	AU 400	-	-	-	1
	AU 480	136	3	2.4	2
	AU 5800	-	-	-	1
	AU 680	139	<1	0.5	2
	Biosystems BA-400	168	14	8.4	2
	cobas c111	136	2	1.6	5
	cobas c311	136	5	3.4	5
	cobas c501	137	2	1.6	31
	cobas c702	137	2	1.5	4
	Indiko	161	16	10.0	3
	Indiko Plus	149	6	4.1	8
	Integra 400 Plus	134	4	3.0	5
	Konelab Prime 30	148	2	1.4	2
	Konelab PRIME 60i	147	4	3.0	10
	Konelab 20i	145	5	3.5	12
	Konelab 20XT	-	-	-	1
	Konelab 20XTi	146	10	6.6	3

	Konelab 30i	148	3	2.2	4
IFCC methods without P-5-P (ALT)		139	8	6.0	55
	ABX Pentra C200	-	-	-	1
	Architect ci4100	-	-	-	1
	Atellica CH 930	-	-	-	1
	AU 480	-	-	-	1
	AU 640	-	-	-	1
	AU 680	140	4	2.5	4
	A25 Automatic Analyzer	-	-	-	1
	Biosystems BTS-350	134	<1	0.5	2
	BS-300	-	-	-	1
	BT 3500	-	-	-	1
	cobas c501	134	3	2.1	15
	cobas c702	-	-	-	1
	HumaLyzer 2000	-	-	-	1
	Integra 400	-	-	-	1
	Integra 400 Plus	132	4	3.3	7
	Konelab PRIME 60i	145	5	3.3	3
	Konelab 20i	143	6	4.5	8
	Konelab 60i	-	-	-	1
	Mindray BS-120	-	-	-	1
	Mindray BS200 E	156	11	7.0	2
	Selectra	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
IFCC comparable methods (ALT)		142	7	4.7	130
	Alpha-ketoglutarate, Ala, P-5-P / NADH consumption; photometry	143	8	5.6	130
IFCC methods without P-5-P (ALT)		139	8	6.0	55
	Alpha-ketoglutarate, Ala / NADH consumption; photometry	139	9	6.7	55

Serum A | CK, U/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
IFCC methods (CK)	547	539	26	4.8	2	456	613	3	131
All	547	539	26	4.8	2	456	613	3	131

Serum A | CK, U/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
IFCC methods (CK)		547	26	4.8	131
	Abbott Aeroset, Architect	553	36	6.6	5
	Abbott Alinity	564	5	0.9	3
	ABX Pentra	549	30	5.4	4
	AU instruments	592	21	3.6	10
	BioSystems	714	46	6.4	2
	Biotechnica	-	-	-	1
	Mindray	554	32	5.7	2
	Roche cobas	530	9	1.7	58
	Roche Cobas Integra	542	13	2.3	9
	Siemens Advia	582	11	1.9	6
	Siemens Atellica	561	14	2.5	13
	Thermo Scientific	552	30	5.5	18

Methodics	Instrument	x_{pt}	sd	CV%	n
IFCC methods (CK)		547	26	4.8	131
	ABX Pentra 400	549	30	5.4	4
	Advia Chemistry XPT	579	12	2.1	4
	Advia 1800	590	4	0.6	2
	Alinity c	564	5	0.9	3
	Architect c8000	-	-	-	1
	Architect ci4100	566	29	5.1	3
	Architect ci8200	-	-	-	1
	Atellica CH 930	561	14	2.5	13
	AU 480	568	45	8.0	2
	AU 5800	-	-	-	1
	AU 640	-	-	-	1
	AU 680	597	10	1.7	6
	Biosystems BA-400	714	46	6.4	2
	BS-300	-	-	-	1
	BT 3500	-	-	-	1
	cobas c111	523	5	1.0	3
	cobas c311	541	7	1.2	5
	cobas c501	529	9	1.7	45
	cobas c702	529	4	0.8	5
	Indiko	-	-	-	1
	Indiko Plus	548	13	2.3	2
	Integra 400	-	-	-	1
	Integra 400 Plus	542	13	2.5	8
	Konelab PRIME 60i	555	22	3.9	8
	Konelab 20i	543	61	11.2	4
	Konelab 20XT	-	-	-	1
	Konelab 30i	-	-	-	1
	Konelab 60i	-	-	-	1
	Mindray BS200 E	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
IFCC methods (CK)		547	26	4.8	131
	Creatine-P, ADP, NAC activator / NADPH; photometry	548	36	6.6	131

Serum A | LD, U/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
DGKC method (LD)	698	675	61	8.8	17	593	782	-	13
IFCC methods (LDH)	354	353	13	3.6	2	329	385	-	67
All	390	354	101	26.0	12	329	708	4	80

Serum A | LD, U/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
DGKC method (LD)		698	61	8.8	13
	ABX Pentra	-	-	-	1
	AU instruments	-	-	-	1
	BioSystems	734	94	12.8	4
	Cormay	-	-	-	1
IFCC methods (LDH)	Roche Cobas Integra DGKC	666	8	1.3	6
		354	13	3.6	67
	Abbott Aeroset, Architect	339	13	3.8	2
	Abbott Alinity	350	5	1.4	3
	ABX Pentra	-	-	-	1
	AU instruments	344	8	2.4	5
	Roche cobas	359	12	3.5	36
	Roche Cobas Integra	353	7	2.0	5
	Siemens Advia	348	14	4.0	4
	Siemens Atellica	340	8	2.2	7
	Thermo Scientific	357	9	2.6	4

Methodics	Instrument	x_{pt}	sd	CV%	n
DGKC method (LD)		698	61	8.8	13
	ABX Pentra 400	-	-	-	1
	AU 5800	-	-	-	1
	A25 Automatic Analyzer	687	132	19.3	2
	Biosystems BA-400	-	-	-	1
	Biosystems BTS-350	-	-	-	1
	BS-300	-	-	-	1
	cobas c501	660	3	0.4	4
	Integra 400	-	-	-	1
	Integra 400 Plus	-	-	-	1
IFCC methods (LDH)		354	13	3.6	67
	ABX Pentra C200	-	-	-	1
	Advia Chemistry XPT	348	14	4.0	4
	Alinity c	350	5	1.4	3
	Architect ci4100	-	-	-	1
	Architect ci8200	-	-	-	1
	Atellica CH 930	340	8	2.2	7
	AU 640	-	-	-	1
	AU 680	343	8	2.4	4
	cobas c311	-	-	-	1
	cobas c501	361	12	3.4	30
	cobas c702	349	10	2.8	5
	Indiko	352	2	0.5	2
	Integra 400 Plus	353	7	2.0	5
	Konelab PRIME 60i	-	-	-	1
	Konelab 30i	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
DGKC method (LD)		698	61	8.8	13
	Pyruvate, NADH / NAD; photometry	698	61	8.8	13
IFCC methods (LDH)		354	13	3.6	67
	Lactate, NAD / NADH; photometry	354	13	3.6	67

Serum A | Iron, µmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry (Fe)	38.7	38.9	1.8	4.8	0.2	33.4	43.7	1	90
All	38.7	38.9	1.8	4.8	0.2	33.4	43.7	1	90

Serum A | Iron, µmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry (Fe)		38.7	1.8	4.8	90
	Abbott Aeroset, Architect	39.4	0.8	2.0	4
	Abbott Alinity	36.2	0.5	1.4	3
	ABX Pentra	37.9	1.9	5.1	4
	AU instruments	39.7	1.3	3.3	8
	Beckmann Coulter Olympus	-	-	-	1
	BioSystems	33.5	1.3	3.9	6
	Biotechnica	-	-	-	1
	Diasys	-	-	-	1
	Elitech	-	-	-	1
	Mindray Fe Colorimetric	37.9	0.2	0.6	2
	Roche cobas	39.2	1.0	2.4	34
	Roche Cobas Integra	39.3	1.2	2.9	11
	Siemens Advia	39.6	0.2	0.4	2
	Siemens Atellica	39.2	0.3	0.7	2
	Thermo Scientific	38.5	1.9	4.9	10

Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry (Fe)		38.7	1.8	4.8	90
	ABX Pentra 400	37.9	1.9	5.1	4
	Advia Chemistry XPT	39.6	0.2	0.4	2
	Alinity c	36.2	0.5	1.4	3
	Architect c8000	-	-	-	1
	Architect ci4100	39.9	0.8	2.0	2
	Architect ci8200	-	-	-	1
	Atellica CH 930	39.2	0.3	0.7	2
	AU 400	-	-	-	1
	AU 480	39.5	2.3	5.8	3
	AU 5800	-	-	-	1
	AU 640	-	-	-	1
	AU 680	39.6	0.9	2.2	4
	A15 Automatic Analyzer	-	-	-	1
	A25 Automatic Analyzer	-	-	-	1
	Biosystems BA-400	33.6	0.3	0.9	2
	Biosystems BTS-350	32.3	1.9	6.0	2
	BS-300	-	-	-	1
	BT 3500	-	-	-	1
	cobas c311	-	-	-	1
	cobas c501	39.2	1.0	2.6	28
	cobas c702	39.0	0.6	1.5	5
	Indiko	-	-	-	1
	Indiko Plus	38.4	1.1	2.8	2
	Integra 400	-	-	-	1
	Integra 400 Plus	39.4	1.2	3.0	10
	Konelab PRIME 60i	37.4	0.9	2.3	3
	Konelab 20i	40.4	4.2	10.5	2
	Konelab 30i	-	-	-	1
	Konelab 60i	-	-	-	1
	Mindray BS200 E	-	-	-	1
	Selectra	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry (Fe)		38.7	1.8	4.8	90
	Ferene; photometry	38.6	1.8	4.8	30
	Ferrozine; photometry	38.5	2.1	5.6	52
	TPTZ; photometry	39.7	1.3	3.3	8

Serum A | Total iron binding capacity, µmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Calculated (TIBC)	44	44	3	7.3	2	40	47	-	3
Photometry (TIBC)	43	43	2	5.2	<1	39	46	-	15
All	43	43	2	5.3	<1	39	47	-	18

Serum A | Total iron binding capacity, µmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Calculated (TIBC)		44	3	7.3	3
	Calculated from transferrin	44	3	7.3	3
Photometry (TIBC)		43	2	5.2	15
	Abbott Aeroset, Architect	-	-	-	1
	AU instruments	45	2	3.8	2
	Roche cobas	42	2	4.8	10
	Roche Cobas Integra	44	3	5.6	2

Methodics	Instrument	x_{pt}	sd	CV%	n
Calculated (TIBC)		44	3	7.3	3
	Architect c8000	-	-	-	1
	AU 400	-	-	-	1
Photometry (TIBC)	Biosystems BA-400	-	-	-	1
		43	2	5.2	15
	Architect ci8200	-	-	-	1
	AU 680	45	2	3.8	2
	cobas c501	43	2	4.2	9
	cobas c502	-	-	-	1
	Integra 400 Plus	44	3	5.6	2

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Calculated (TIBC)		44	3	7.3	3
	Calculated from transferrin	44	3	7.3	3
Photometry (TIBC)		43	2	5.2	15
	Direct measurement of UIBC (LIBC); photometry	43	2	5.2	13
	Ferrozine; photometry	44	3	5.6	2

Serum A | Transferrin, g/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Siemens nephelometry (Transf)	1.56	1.55	0.04	2.6	0.02	1.52	1.60	-	3
Turbidometry (Transf)	1.58	1.59	0.09	5.6	0.02	1.44	1.84	-	32
All	1.58	1.59	0.08	5.4	0.01	1.44	1.84	-	35

Serum A | Transferrin, g/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Siemens nephelometry (Transf)		1.56	0.04	2.6	3
	Siemens BN instruments	1.56	0.04	2.6	3
Turbidometry (Transf)		1.58	0.09	5.6	32
	Abbott Aeroset, Architect	1.52	0.06	4.0	4
	AU instruments	1.49	0.07	5.0	4
	Roche Cobas Integra	-	-	-	1
	Roche Cobas Integra Tina-quant	-	-	-	1
	Roche cobas Tina-quant	1.59	0.08	4.9	16
	Roche Tina-quant	-	-	-	1
	Siemens Advia	1.59	0.01	0.9	2
	Siemens Atellica	1.60	<0.01	0.3	2
	Thermo Scientific	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Siemens nephelometry (Transf)		1.56	0.04	2.6	3
	BN ProSpec	1.56	0.04	2.6	3
Turbidometry (Transf)		1.58	0.09	5.6	32
	Advia Chemistry XPT	1.59	0.01	0.9	2
	Architect c8000	1.54	0.10	6.4	2
	Architect ci4100	-	-	-	1
	Architect ci8200	-	-	-	1
	Atellica CH 930	1.60	<0.01	0.3	2
	AU 480	-	-	-	1
	AU 680	1.45	0.02	1.1	3
	cobas c311	-	-	-	1
	cobas c501	1.60	0.09	5.5	12
	cobas c502	-	-	-	1
	cobas c702	1.57	0.03	1.6	4
	Integra 400 Plus	-	-	-	1
	Konelab 20i	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Siemens nephelometry (Transf)		1.56	0.04	2.6	3
	Antigen-antibody (Ag-Ab) complex; nephelometry	1.56	0.04	2.6	3
Turbidometry (Transf)		1.58	0.09	5.6	32
	Antigen-antibody (Ag-Ab) complex; turbidimetry	1.58	0.09	5.6	31
	Microparticle enzyme immunoassay	-	-	-	1

Serum A | T4, nmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Abbott (T4)	-	-	-	-	-	64	64	-	1
Roche systems (T4)	64	63	1	1.9	<1	63	65	-	3
All	64	64	1	1.6	<1	63	65	-	4

Serum A | T4, nmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Abbott (T4)		-	-	-	1
	Abbott Aeroset, Architect	-	-	-	1
Roche systems (T4)		64	1	1.9	3
	Roche Elecsys	64	1	1.9	3

Methodics	Instrument	x_{pt}	sd	CV%	n
Abbott (T4)		-	-	-	1
	Architect ci8200	-	-	-	1
Roche systems (T4)		64	1	1.9	3
	cobas e411	64	1	1.9	3

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Abbott (T4)		-	-	-	1
	Luminoimmunoassay	-	-	-	1
Roche systems (T4)		64	1	1.9	3
	Electrochemiluminescence immunoassay	64	1	1.9	3

Serum A | Haptoglobin, g/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Siemens nephelometry (Hapto)	0.69	0.67	0.04	5.1	0.02	0.66	0.73	-	3
Turbidometry (Hapto)	0.69	0.69	0.04	6.4	0.01	0.63	0.81	-	12
All	0.69	0.69	0.04	6.0	0.01	0.63	0.81	-	15

Serum A | Haptoglobin, g/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Siemens nephelometry (Hapto)		0.69	0.04	5.1	3
	Beckman Coulter	-	-	-	1
	Siemens BN instruments	0.70	0.04	5.3	2
Turbidometry (Hapto)		0.69	0.04	6.4	12
	Abbott Aeroset, Architect	-	-	-	1
	AU instruments	-	-	-	1
	Roche Cobas Integra Tina-quant	-	-	-	1
	Roche cobas Tina-quant	0.67	0.02	3.3	7
	Siemens Advia	-	-	-	1
	Siemens Atellica	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Siemens nephelometry (Hapto)		0.69	0.04	5.1	3
	BN II	-	-	-	1
	BN ProSpec	0.70	0.04	5.3	2
Turbidometry (Hapto)		0.69	0.04	6.4	12
	Advia Chemistry XPT	-	-	-	1
	Architect ci8200	-	-	-	1
	Atellica CH 930	-	-	-	1
	AU 480	-	-	-	1
	cobas c501	0.70	0.10	13.8	3
	cobas c502	0.69	<0.01	0.2	3
	cobas c702	0.68	<0.01	1.0	2

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Siemens nephelometry (Hapto)		0.69	0.04	5.1	3
	Antigen-antibody (Ag-Ab) complex; nephelometry	0.69	0.04	5.1	3
Turbidometry (Hapto)		0.69	0.04	6.4	12
	Antigen-antibody (Ag-Ab) complex; turbidimetry	0.69	0.04	6.4	12

Serum A | Cortisol, nmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Other methods (Cortisol)	133.74	128.00	29.27	21.9	9.26	98.00	195.58	-	10
Roche systems (Cortisol)	125.00	125.00	6.61	5.3	1.65	113.20	134.62	-	16
All	125.67	124.00	13.13	10.4	2.63	98.00	160.00	1	26

Serum A | Cortisol, nmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Other methods (Cortisol)		133.74	29.27	21.9	10
	Abbott Aeroset, Architect	111.75	4.60	4.1	2
	Abbott Alinity	106.40	11.88	11.2	2
	bioMerieux Vidas	128.00	8.58	6.7	2
	Siemens Atellica	-	-	-	1
	Siemens Immulite 1000	144.74	13.78	9.5	2
	Snibe Diagnostics Maglumi	-	-	-	1
Roche systems (Cortisol)		125.00	6.61	5.3	16
	Roche cobas	123.70	5.98	4.8	14
	Roche Elecsys	134.11	0.72	0.5	2

Methodics	Instrument	x_{pt}	sd	CV%	n
Other methods (Cortisol)		133.74	29.27	21.9	10
	Alinity i	106.40	11.88	11.2	2
	Architect ci8200	-	-	-	1
	Architect i4000 SR	-	-	-	1
	Atellica IM1600	-	-	-	1
	Immulinite 1000	-	-	-	1
	Immulinite 2000 XPI	-	-	-	1
	Maglumi 2000	-	-	-	1
	Vidas	128.00	8.58	6.7	2
Roche systems (Cortisol)		125.00	6.61	5.3	16
	cobas e411	133.54	1.10	0.8	3
	cobas e601	123.04	6.13	5.0	8
	cobas e602	-	-	-	1
	cobas e801	122.25	6.02	4.9	4

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Other methods (Cortisol)		133.74	29.27	21.9	10
	Chemiluminescence immunoassay	134.27	40.39	30.1	5
	Enzyme immunoassay	134.53	0.66	0.5	2
	Luminoimmunoassay	137.50	31.82	23.1	2
	Time-resolved fluoroimmunoassay	-	-	-	1
Roche systems (Cortisol)		125.00	6.61	5.3	16
	Electrochemiluminescence immunoassay	125.00	6.61	5.3	16

Serum A | GT, U/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
IFCC methods (GGT)	201	203	10	5.2	<1	170	236	1	172
All	201	203	10	5.2	<1	170	236	1	172

Serum A | GT, U/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
IFCC methods (GGT)		201	10	5.2	172
	Abbott Aeroset, Architect	200	8	4.0	5
	Abbott Alinity	196	10	5.3	3
	ABX Pentra	201	11	5.5	4
	AU instruments	203	3	1.3	9
	Beckmann Coulter Olympus	200	7	3.3	2
	BioSystems	197	28	13.9	5
	Biotechnica	-	-	-	1
	Elitech	-	-	-	1
	Mindray	201	6	2.8	2
	Roche cobas	207	13	6.1	59
	Roche Cobas Integra	204	11	5.4	10
	Siemens Advia	193	8	4.1	6
	Siemens Atellica	186	5	2.7	13
	Thermo Scientific	199	9	4.6	52

Methodics	Instrument	x_{pt}	sd	CV%	n
IFCC methods (GGT)		201	10	5.2	172
	ABX Pentra 400	201	11	5.5	4
	Advia Chemistry XPT	198	3	1.6	4
	Advia 1800	184	<1	0.4	2
	Alinity c	196	10	5.3	3
	Architect c8000	-	-	-	1
	Architect ci4100	197	8	4.0	3
	Architect ci8200	-	-	-	1
	Atellica CH 930	186	5	2.7	13
	AU 480	201	5	2.6	3
	AU 5800	-	-	-	1
	AU 640	-	-	-	1
	AU 680	202	1	0.7	6
	A25 Automatic Analyzer	-	-	-	1
	Biosystems BA-400	205	<1	<0.1	2
	Biosystems BTS-350	171	<1	0.4	2
	BS-300	-	-	-	1
	BT 3500	-	-	-	1
	cobas c111	203	2	1.2	4
	cobas c311	210	7	3.3	5
	cobas c501	208	14	6.8	45
	cobas c702	205	6	2.9	5
	Indiko	208	7	3.4	4
	Indiko Plus	201	5	2.7	8
	Integra 400 Plus	204	11	5.4	10
	Konelab Prime 30	208	3	1.4	2
	Konelab PRIME 60i	197	11	5.6	13
	Konelab 20i	196	9	4.7	18
	Konelab 20XTi	201	11	5.5	3
	Konelab 30i	203	2	1.0	3
	Konelab 60i	-	-	-	1
	Mindray BS200 E	-	-	-	1
	Selectra	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
IFCC methods (GGT)		201	10	5.2	172
	GLUCANA, glycylglycine / p-nitroanilin; photometry	199	11	5.6	100
	GLUCANA, glycylglycine,Tris / p-nitroanilin; photometry	205	13	6.3	72

Serum A | TSH, mU/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Abbott Architect (TSH)	0.95	0.95	0.05	5.6	0.02	0.88	1.03	-	8
Beckman Coulter Access (TSH)	1.02	1.02	0.12	11.6	0.08	0.94	1.11	-	2
Other methods (TSH)	1.02	1.06	0.10	10.0	0.03	0.84	1.14	-	9
Roche systems (TSH)	1.25	1.25	0.05	3.7	<0.01	1.16	1.33	-	41
Siemens Advia Centaur & Atellica (TSH)	0.95	0.97	0.05	5.3	0.02	0.87	1.04	-	11
All	1.13	1.20	0.15	13.0	0.02	0.84	1.33	-	71

Serum A | TSH, mU/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Abbott Architect (TSH)		0.95	0.05	5.6	8
	Abbott Aeroset, Architect	0.97	0.05	4.8	6
	Abbott Alinity	0.90	0.02	1.9	2
Beckman Coulter Access (TSH)		1.02	0.12	11.6	2
	Beckman Coulter Access	1.02	0.12	11.6	2
Other methods (TSH)		1.02	0.10	10.0	9
	bioMerieux Vidas	1.04	0.04	4.0	5
	In house	-	-	-	1
	Maglumi TSH	-	-	-	1
	Siemens Immulite 1000	-	-	-	1
	Tosoh AIA	-	-	-	1
Roche systems (TSH)		1.25	0.05	3.7	41
	Roche cobas	1.25	0.05	3.6	36
	Roche Elecsys	1.23	0.06	4.6	5
Siemens Advia Centaur & Atellica (TSH)		0.95	0.05	5.3	11
	Siemens Advia Centaur	0.93	0.02	2.6	4
	Siemens Atellica	0.96	0.06	6.2	7

Methodics	Instrument	x_{pt}	sd	CV%	n
Abbott Architect (TSH)		0.95	0.05	5.6	8
	Alinity i	0.90	0.02	1.9	2
	Architect ci4100	0.96	0.06	5.9	3
	Architect ci8200	0.97	0.03	3.0	2
	Architect i4000 SR	-	-	-	1
Beckman Coulter Access (TSH)		1.02	0.12	11.6	2
	Access 2	1.02	0.12	11.6	2
Other methods (TSH)		1.02	0.10	10.0	9
	AIA-360	-	-	-	1
	DAS Plate Reader	-	-	-	1
	Immulite 1000	-	-	-	1
	Maglumi 2000	-	-	-	1
	Mini Vidas	-	-	-	1
	Vidas	1.05	0.05	4.4	3
	Vidas PC	-	-	-	1
Roche systems (TSH)		1.25	0.05	3.7	41
	cobas e411	1.26	0.05	3.6	15
	cobas e601	1.25	0.05	3.8	21
	cobas e602	-	-	-	1
	cobas e801	1.21	0.04	3.3	4
Siemens Advia Centaur & Atellica (TSH)		0.95	0.05	5.3	11
	Advia Centaur	-	-	-	1
	Advia Centaur XP	0.94	0.04	4.1	2
	Advia Centaur XPT	-	-	-	1
	Atellica IM1600	0.96	0.06	6.2	7

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Abbott Architect (TSH)		0.95	0.05	5.6	8
	Chemiluminesence immunoassay	0.94	0.06	6.6	5
	Luminoimmunoassay	0.97	0.04	4.4	3
Beckman Coulter Access (TSH)		1.02	0.12	11.6	2
	Luminoimmunoassay	1.02	0.12	11.6	2

Other methods (TSH)		1.02	0.10	10.0	9
	Chemiluminesence immunoassay	1.08	0.06	5.9	4
	ELISA	-	-	-	1
	Enzyme immunoassay	-	-	-	1
	Enzym-fluoroimmunoassay	1.05	0.05	4.5	3
Roche systems (TSH)		1.25	0.05	3.7	41
	Electrochemiluminescence immunoassay	1.25	0.05	3.7	41
Siemens Advia Centaur & Atellica (TSH)		0.95	0.05	5.3	11
	Chemiluminesence immunoassay	-	-	-	1
	Luminoimmunoassay	0.95	0.05	5.4	10

Serum A | T4 free, pmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Abbott Architect (Tyroxine, free)	11.89	12.23	0.91	7.6	0.34	10.24	12.90	-	7
Other methods (T4 free)	14.25	13.13	2.56	17.9	0.81	11.97	19.95	-	10
Roche systems (Free T4)	13.83	13.84	0.61	4.4	0.10	12.70	15.33	1	39
Siemens Advia Centaur & Atellica (T4v)	14.09	14.08	1.08	7.7	0.33	11.68	15.74	-	11
All	13.68	13.70	1.14	8.3	0.14	10.24	16.70	1	67

Serum A | T4 free, pmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Abbott Architect (Tyroxine, free)		12	<1	7.6	7
	Abbott Aeroset, Architect	12	<1	4.9	6
	Abbott Alinity	-	-	-	1
Other methods (T4 free)		14	3	17.9	10
	Beckman Coulter Access	12	<1	5.1	2
	bioMerieux Vidas	13	<1	4.0	4
	In house	-	-	-	1
	Siemens Immulite 1000	-	-	-	1
	Tosoh AIA	15	<1	2.2	2
Roche systems (Free T4)		14	<1	4.4	39
	Roche cobas	14	<1	5.3	35
	Roche Elecsys	14	<1	3.5	4
Siemens Advia Centaur & Atellica (T4v)		14	1	7.7	11
	Siemens Advia Centaur	14	2	12.1	4
	Siemens Atellica	14	<1	4.8	7

Methodics	Instrument	x_{pt}	sd	CV%	n
Abbott Architect (Tyroxine, free)		12	<1	7.6	7
	Alinity i	-	-	-	1
	Architect ci4100	12	<1	5.5	3
	Architect ci8200	13	<1	2.8	2
	Architect i4000 SR	-	-	-	1
Other methods (T4 free)		14	3	17.9	10
	Access 2	12	<1	5.1	2
	AIA-360	15	<1	2.2	2
	DAS Plate Reader	-	-	-	1
	Immulite 1000	-	-	-	1
	Mini Vidas	-	-	-	1
	Vidas	13	<1	5.2	2
	Vidas PC	-	-	-	1
Roche systems (Free T4)		14	<1	4.4	39
	cobas e411	14	<1	4.5	14
	cobas e601	14	<1	5.7	21
	cobas e602	-	-	-	1
	cobas e801	14	<1	3.7	3
Siemens Advia Centaur & Atellica (T4v)		14	1	7.7	11
	Advia Centaur	-	-	-	1
	Advia Centaur XP	13	1	11.6	2
	Advia Centaur XPT	-	-	-	1
	Atellica IM1600	14	<1	4.8	7

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Abbott Architect (Tyroxine, free)		12	<1	7.6	7
	Chemiluminesence immunoassay	11	1	10.1	3
	Luminoimmunoassay	12	<1	5.7	4
Other methods (T4 free)		14	3	17.9	10
	Chemiluminesence immunoassay	14	3	23.4	5
	ELISA	-	-	-	1
	Enzyme immunoassay	15	<1	2.2	2
	Enzym-fluoroimmunoassay	12	<1	1.3	2
Roche systems (Free T4)		14	<1	4.4	39
	Electrochemiluminescence immunoassay	14	<1	5.1	39

Siemens Advia Centaur & Atellica (T4v)		14	1	7.7	11
	Chemiluminescence immunoassay	-	-	-	1
	Luminoimmunoassay	14	1	8.1	10

Serum A | Ferritin, µg/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Abbott Architect (Ferrit)	35	36	3	7.2	1	31	39	-	6
Other methods (Ferritin)	31	31	4	11.5	1	26	36	-	11
Roche systems (Ferrit)	38	38	2	5.9	<1	33	42	1	25
Siemens Advia Centaur & Atellica (Ferrit)	29	29	<1	2.8	<1	29	30	-	4
Thermo Scientific (Ferrit)	28	28	3	11.9	2	26	30	-	2
All	35	36	5	13.0	<1	26	42	-	48

Serum A | Ferritin, µg/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Abbott Architect (Ferrit)		35	3	7.2	6
	Abbott Aeroset, Architect	35	3	8.8	4
	Abbott Alinity	36	<1	2.7	2
Other methods (Ferritin)		31	4	11.5	11
	bioMerieux Vidas	33	2	6.8	6
	Siemens Immulite 1000	-	-	-	1
	Snibe Diagnostics Maglumi	30	4	12.6	2
	Tosoh AIA	26	<1	3.7	2
Roche systems (Ferrit)		38	2	5.9	25
	Roche cobas	38	2	5.0	22
	Roche Cobas Integra	32	3	9.1	3
Siemens Advia Centaur & Atellica (Ferrit)		29	<1	2.8	4
	Siemens Advia Centaur	29	<1	1.0	2
	Siemens Atellica	30	1	3.8	2
Thermo Scientific (Ferrit)		28	3	11.9	2
	Thermo Scientific	28	3	11.9	2

Methodics	Instrument	x_{pt}	sd	CV%	n
Abbott Architect (Ferrit)		35	3	7.2	6
	Alinity i	36	<1	2.7	2
	Architect c8000	-	-	-	1
	Architect ci4100	-	-	-	1
	Architect ci8200	-	-	-	1
	Architect i4000 SR	-	-	-	1
Other methods (Ferritin)		31	4	11.5	11
	AIA-360	26	<1	3.7	2
	Immulite 1000	-	-	-	1
	Maglumi 2000	-	-	-	1
	Maglumi 600	-	-	-	1
	Mini Vidas	-	-	-	1
	Vidas	33	2	7.4	4
	Vidas PC	-	-	-	1
Roche systems (Ferrit)		38	2	5.9	25
	cobas c501	40	1	3.1	7
	cobas e411	36	4	11.1	2
	cobas e601	39	1	3.3	8
	cobas e602	-	-	-	1
	cobas e801	37	2	4.3	4
	Integra 400	-	-	-	1
	Integra 400 Plus	31	3	9.4	2
Siemens Advia Centaur & Atellica (Ferrit)		29	<1	2.8	4
	Advia Centaur XP	29	<1	1.0	2
	Atellica IM1600	30	1	3.8	2
Thermo Scientific (Ferrit)		28	3	11.9	2
	Konelab PRIME 60i	-	-	-	1
	Konelab 20i	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Abbott Architect (Ferrit)		35	3	7.2	6
	Chemiluminesence immunoassay	36	1	4.1	3
	Luminoimmunoassay	35	4	10.6	3

Other methods (Ferritin)		31	4	11.5	11
	Chemiluminesence immunoassay	30	2	7.8	4
	Enzyme immunoassay	32	4	12.8	7
Roche systems (Ferrit)		38	2	5.9	25
	Chemiluminesence immunoassay	40	<1	1.5	4
	Direct measurement of antigen-antibody complex (Ag-Ab)	36	4	12.2	6
	Electrochemiluminescence immunoassay	38	2	5.3	13
	Immunoturbidimetric assay	-	-	-	1
	Microparticle enzyme immunoassay	-	-	-	1
Siemens Advia Centaur & Atellica (Ferrit)		29	<1	2.8	4
	Chemiluminesence immunoassay	29	<1	2.8	4
Thermo Scientific (Ferrit)		28	3	11.9	2
	Microparticle enzyme immunoassay	28	3	11.9	2

Serum A | AmylP, U/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
IFCC comparable methods (AmylP)	278	280	10	3.6	2	258	298	-	21
All	278	280	10	3.6	2	258	298	-	21

Serum A | AmylP, U/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
IFCC comparable methods (AmylP)		278	10	3.6	21
	Abbott Aeroset, Architect	-	-	-	1
	AU instruments	-	-	-	1
	Diasys	-	-	-	1
	Roche cobas	264	6	2.2	4
	Sentinel	274	6	2.1	2
	Siemens Atellica	284	4	1.4	12

Methodics	Instrument	x_{pt}	sd	CV%	n
IFCC comparable methods (AmylP)		278	10	3.6	21
	Architect ci8200	-	-	-	1
	Atellica CH 930	284	4	1.4	12
	AU 400	-	-	-	1
	AU 480	-	-	-	1
	AU 5800	-	-	-	1
	AU 680	-	-	-	1
	cobas c501	263	6	2.4	3
	cobas c502	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
IFCC comparable methods (AmylP)		278	10	3.6	21
	Antibody inhibition / Etyl-G7-pNP (EPS); photometry	278	10	3.6	21

Serum A | Lithium, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
ISE direct	2.28	2.20	0.20	8.7	0.10	2.15	2.58	-	4
Photometry (Litium)	2.15	2.16	0.09	4.0	0.01	1.90	2.41	-	34
All	2.15	2.16	0.08	3.9	0.01	1.90	2.41	1	38

Serum A | Lithium, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
ISE direct		2.28	0.20	8.7	4
	Easylite	-	-	-	1
	Roche blood gas and electrolyte analysers	2.41	0.25	10.3	2
	Siemens Atellica	-	-	-	1
Photometry (Litium)		2.15	0.09	4.0	34
	Abbott Aeroset, Architect	2.10	0.17	8.2	2
	Abbott Alinity	-	-	-	1
	AU instruments	2.13	0.08	3.7	2
	Beckmann Coulter Olympus	-	-	-	1
	Roche cobas	2.15	0.09	4.0	27
	Siemens Advia	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
ISE direct		2.28	0.20	8.7	4
	Atellica CH 930	-	-	-	1
	AVL 9180	2.41	0.25	10.3	2
	EasyLyte	-	-	-	1
Photometry (Litium)		2.15	0.09	4.0	34
	Advia Chemistry XPT	-	-	-	1
	Alinity c	-	-	-	1
	Architect c8000	2.10	0.17	8.2	2
	AU 480	2.19	0.01	0.6	2
	AU 680	-	-	-	1
	cobas c311	-	-	-	1
	cobas c501	2.16	0.07	3.4	21
	cobas c502	-	-	-	1
	cobas c702	2.16	0.07	3.4	4

Methodics	Chemical principle	x_{pt}	sd	CV%	n
ISE direct		2.28	0.20	8.7	4
	Direct potentiometry	2.28	0.20	8.7	4
Photometry (Litium)		2.15	0.09	4.0	34
	Chromogen	2.16	0.08	3.5	20
	Enzymatic method; absorption photometry	2.12	0.10	4.6	14

Serum A | IgA, g/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
RID (Immunoglobulins)	-	-	-	-	-	1.51	1.51	-	1
Siemens nephelometry (IgA)	1.36	1.34	0.13	9.4	0.06	1.22	1.52	-	4
Turbidometry (IgA)	1.37	1.37	0.07	5.0	0.01	1.28	1.55	-	31
All	1.38	1.37	0.08	5.6	0.01	1.22	1.55	-	36

Serum A | IgA, g/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
RID (Immunoglobulins)		-	-	-	1
	LTA	-	-	-	1
Siemens nephelometry (IgA)		1.36	0.13	9.4	4
	Siemens BN instruments	1.36	0.13	9.4	4
Turbidometry (IgA)		1.37	0.07	5.0	31
	Abbott Aeroset, Architect	1.40	0.13	9.3	3
	Abbott Alinity	-	-	-	1
	AU instruments	1.37	0.07	4.8	6
	Biotechnica	-	-	-	1
	Roche Cobas Integra	1.34	0.05	3.7	4
	Roche cobas Tina-quant	1.36	0.05	3.7	12
	Siemens Advia	1.39	0.12	8.7	2
	Siemens Atellica	1.46	0.01	0.9	2

Methodics	Instrument	x_{pt}	sd	CV%	n
RID (Immunoglobulins)		-	-	-	1
	LTA Visual Reading	-	-	-	1
Siemens nephelometry (IgA)		1.36	0.13	9.4	4
	BN II	1.37	0.15	10.9	3
	BN ProSpec	-	-	-	1
Turbidometry (IgA)		1.37	0.07	5.0	31
	Advia Chemistry XPT	1.39	0.12	8.7	2
	Alinity c	-	-	-	1
	Architect c8000	-	-	-	1
	Architect ci8200	1.33	<0.01	0.5	2
	Atellica CH 930	1.46	0.01	0.9	2
	AU 480	-	-	-	1
	AU 5800	-	-	-	1
	AU 680	1.35	0.06	4.8	4
	BT 3500	-	-	-	1
	cobas c501	1.35	0.06	4.3	7
	cobas c502	1.38	<0.01	0.5	2
	cobas c702	1.40	0.03	1.9	3
	Integra 400 Plus	1.34	0.05	3.7	4

Methodics	Chemical principle	x_{pt}	sd	CV%	n
RID (Immunoglobulins)		-	-	-	1
	Radial immunodiffusion	-	-	-	1
Siemens nephelometry (IgA)		1.36	0.13	9.4	4
	Antigen-antibody (Ag-Ab) complex; nephelometry	1.36	0.13	9.4	4
Turbidometry (IgA)		1.37	0.07	5.0	31
	Antigen-antibody (Ag-Ab) complex; turbidimetry	1.37	0.07	5.0	31

Serum A | IgE, kU/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Abbott Architect (IgE)	50	50	4	8.9	3	47	53	-	2
Other methods (IgE)	46	46	3	7.0	2	44	50	-	3
Phadia (IgE)	56	56	2	2.9	<1	54	57	-	3
Roche systeemit (IgE)	58	57	3	5.5	1	54	65	-	10
Siemens Advia Centaur & Atellica (IgE)	51	51	<1	2.0	<1	50	51	-	2
Siemens nephelometry (IgE)	51	51	5	9.8	4	47	54	-	2
Turbidometry (IgE)	48	48	2	3.7	1	47	49	-	2
All	54	54	5	9.9	1	44	65	-	24

Serum A | IgE, kU/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Abbott Architect (IgE)		50	4	8.9	2
	Abbott Aeroset, Architect	50	4	8.9	2
Other methods (IgE)		46	3	7.0	3
	bioMerieux Vidas	46	3	7.0	3
Phadia (IgE)		56	2	2.9	3
	Phadia CAP IgE FEIA	56	2	2.9	3
Roche systeemit (IgE)		58	3	5.5	10
	Roche cobas	58	3	5.2	9
	Siemens Immulite 2000	-	-	-	1
Siemens Advia Centaur & Atellica (IgE)		51	<1	2.0	2
	Siemens Advia Centaur	-	-	-	1
	Siemens Atellica	-	-	-	1
Siemens nephelometry (IgE)		51	5	9.8	2
	Siemens BN instruments	51	5	9.8	2
Turbidometry (IgE)		48	2	3.7	2
	Diasys	-	-	-	1
	Siemens Immulite 1000	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Abbott Architect (IgE)		50	4	8.9	2
	Architect c8000	-	-	-	1
	Architect ci8200	-	-	-	1
Other methods (IgE)		46	3	7.0	3
	Vidas	46	3	7.0	3
Phadia (IgE)		56	2	2.9	3
	Phadia 250	56	2	2.9	3
Roche systeemit (IgE)		58	3	5.5	10
	cobas c501	-	-	-	1
	cobas e411	61	5	8.4	2
	cobas e601	58	3	4.4	4
	cobas e602	-	-	-	1
	cobas e801	-	-	-	1
	Immulite 2000 XPi	-	-	-	1
Siemens Advia Centaur & Atellica (IgE)		51	<1	2.0	2
	Advia Centaur XP	-	-	-	1
	Atellica IM1600	-	-	-	1
Siemens nephelometry (IgE)		51	5	9.8	2
	BN II	51	5	9.8	2
Turbidometry (IgE)		48	2	3.7	2
	AU 5800	-	-	-	1
	Immulite 1000	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Abbott Architect (IgE)		50	4	8.9	2
	Latex-agglutination, immunoturbidimetry	50	4	8.9	2
Other methods (IgE)		46	3	7.0	3
	Enzyme immunoassay	48	3	6.2	2
	Enzym-fluoroimmunoassay	-	-	-	1
Phadia (IgE)		56	2	2.9	3

	Enzym-fluoroimmunoassay	56	2	2.9	3
Roche systeemit (IgE)		58	3	5.5	10
	Chemiluminesence immunoassay	-	-	-	1
	Electrochemiluminescence immunoassay	58	3	5.7	9
Siemens Advia Centaur & Atellica (IgE)		51	<1	2.0	2
	Chemiluminesence immunoassay	-	-	-	1
	Luminoimmunoassay	-	-	-	1
Siemens nephelometry (IgE)		51	5	9.8	2
	Antigen-antibody (Ag-Ab) complex; nephelometry	-	-	-	1
	Latex agglutination nephelometry and immunoassay	-	-	-	1
Turbidometry (IgE)		48	2	3.7	2
	Chemiluminesence immunoassay	-	-	-	1
	Latex-agglutination, immunoturbidimetry	-	-	-	1

Serum A | IgG, g/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Siemens nephelometry (IgG)	5.97	6.10	0.40	6.7	0.20	5.38	6.29	-	4
Turbidometry (IgG)	6.09	6.10	0.19	3.2	0.04	5.65	6.48	-	30
All	6.10	6.10	0.19	3.1	0.03	5.65	6.48	1	34

Serum A | IgG, g/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Siemens nephelometry (IgG)		5.97	0.40	6.7	4
	Siemens BN instruments	5.97	0.40	6.7	4
Turbidometry (IgG)		6.09	0.19	3.2	30
	Abbott Aeroset, Architect	6.10	0.21	3.4	3
	Abbott Alinity	-	-	-	1
	AU instruments	6.15	0.05	0.8	4
	Biotechnica	-	-	-	1
	Roche Cobas Integra	5.96	0.24	4.0	5
	Roche cobas Tina-quant	6.17	0.20	3.2	12
	Siemens Advia	6.00	0.28	4.6	2
	Siemens Atellica	5.98	0.13	2.2	2

Methodics	Instrument	x_{pt}	sd	CV%	n
Siemens nephelometry (IgG)		5.97	0.40	6.7	4
	BN II	5.94	0.49	8.2	3
	BN ProSpec	-	-	-	1
Turbidometry (IgG)		6.09	0.19	3.2	30
	Advia Chemistry XPT	6.00	0.28	4.6	2
	Alinity c	-	-	-	1
	Architect c8000	-	-	-	1
	Architect ci8200	5.99	0.04	0.6	2
	Atellica CH 930	5.98	0.13	2.2	2
	AU 480	-	-	-	1
	AU 5800	-	-	-	1
	AU 680	6.17	0.05	0.8	2
	BT 3500	-	-	-	1
	cobas c501	6.21	0.20	3.2	7
	cobas c502	6.18	0.02	0.4	2
	cobas c702	6.06	0.27	4.5	3
	Integra 400 Plus	5.96	0.24	4.0	5

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Siemens nephelometry (IgG)		5.97	0.40	6.7	4
	Antigen-antibody (Ag-Ab) complex; nephelometry	5.97	0.40	6.7	4
Turbidometry (IgG)		6.09	0.19	3.2	30
	Antigen-antibody (Ag-Ab) complex; turbidimetry	6.09	0.19	3.2	30

Serum A | IgM, g/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
RID (Immunoglobulins)	-	-	-	-	-	0.95	0.95	-	1
Siemens nephelometry (IgM)	0.61	0.65	0.07	12.1	0.04	0.50	0.65	-	4
Turbidometry (IgM)	0.59	0.60	0.04	6.0	<0.01	0.50	0.69	1	29
All	0.60	0.60	0.04	6.8	<0.01	0.50	0.69	2	34

Serum A | IgM, g/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
RID (Immunoglobulins)		-	-	-	1
	LTA	-	-	-	1
Siemens nephelometry (IgM)		0.61	0.07	12.1	4
	Siemens BN instruments	0.61	0.07	12.1	4
Turbidometry (IgM)		0.59	0.04	6.0	29
	Abbott Aeroset, Architect	0.63	0.05	8.1	3
	Abbott Alinity	-	-	-	1
	AU instruments	0.58	0.06	10.2	4
	Biotechnica	-	-	-	1
	Roche Cobas Integra	0.60	0.03	4.7	4
	Roche cobas Tina-quant	0.58	0.02	4.2	12
	Siemens Advia	0.59	0.03	4.8	2
	Siemens Atellica	0.61	0.01	1.7	2

Methodics	Instrument	x_{pt}	sd	CV%	n
RID (Immunoglobulins)		-	-	-	1
	LTA Visual Reading	-	-	-	1
Siemens nephelometry (IgM)		0.61	0.07	12.1	4
	BN II	0.60	0.08	14.1	3
	BN ProSpec	-	-	-	1
Turbidometry (IgM)		0.59	0.04	6.0	29
	Advia Chemistry XPT	0.59	0.03	4.8	2
	Alinity c	-	-	-	1
	Architect c8000	-	-	-	1
	Architect ci8200	0.61	0.02	3.5	2
	Atellica CH 930	0.61	0.01	1.7	2
	AU 480	-	-	-	1
	AU 5800	-	-	-	1
	AU 680	0.54	0.06	10.5	2
	BT 3500	-	-	-	1
	cobas c501	0.57	0.02	2.8	7
	cobas c502	0.59	0.02	3.6	2
	cobas c702	0.60	0.04	7.0	3
	Integra 400 Plus	0.60	0.03	4.7	4

Methodics	Chemical principle	x_{pt}	sd	CV%	n
RID (Immunoglobulins)		-	-	-	1
	Radial immunodiffusion	-	-	-	1
Siemens nephelometry (IgM)		0.61	0.07	12.1	4
	Antigen-antibody (Ag-Ab) complex; nephelometry	0.61	0.07	12.1	4
Turbidometry (IgM)		0.59	0.04	6.0	29
	Antigen-antibody (Ag-Ab) complex; turbidimetry	0.58	0.06	10.3	29

Serum A | Chol-HDL, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Chol HDL direct, Biosystems	2.64	2.64	0.47	17.9	0.33	2.31	2.98	-	2
Chol HDL direct, others	3.08	3.09	0.33	10.7	0.10	2.60	3.80	-	11
Chol-HDL direct, Abbott	3.25	3.22	0.17	5.1	0.06	3.00	3.50	-	8
Chol-HDL direct, Beckman Coulter	3.57	3.59	0.29	8.2	0.09	2.73	3.80	-	11
Chol-HDL direct, Roche	4.51	4.50	0.22	4.8	0.03	3.85	5.10	1	65
Chol-HDL direct, Siemens	2.97	2.99	0.17	5.8	0.04	2.64	3.34	-	18
Chol-HDL direct, Thermo Scientific	4.51	4.52	0.18	4.0	0.03	4.07	4.92	1	51
All	4.12	4.42	0.67	16.2	0.05	2.60	5.30	1	166

Serum A | Chol-HDL, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Chol HDL direct, Biosystems		2.64	0.47	17.9	2
	BioSystems	2.64	0.47	17.9	2
Chol HDL direct, others		3.08	0.33	10.7	11
	ABX Pentra	3.37	0.30	9.0	4
	Biotechnica	-	-	-	1
	Diasys	-	-	-	1
	Elitech	-	-	-	1
	Mindray	3.01	0.19	6.3	4
		3.25	0.17	5.1	8
Chol-HDL direct, Abbott		3.29	0.16	4.9	5
	Abbott Aeroset, Architect	3.20	0.19	6.0	3
	Abbott Alinity	3.57	0.29	8.2	11
Chol-HDL direct, Beckman Coulter		3.66	0.10	2.8	9
	AU instruments	3.16	0.60	19.1	2
	Beckmann Coulter Olympus	4.51	0.22	4.8	65
Chol-HDL direct, Roche		4.49	0.22	4.8	53
	Roche cobas	4.63	0.30	6.4	12
	Roche Cobas Integra	2.97	0.17	5.8	18
Chol-HDL direct, Siemens		2.80	0.13	4.8	6
	Siemens Advia	3.06	0.11	3.6	12
	Siemens Atellica	4.51	0.18	4.0	51
Chol-HDL direct, Thermo Scientific		4.50	0.16	3.6	11
	Thermo Scientific	4.53	0.22	4.9	40
	Thermo Scientific HDL Cholesterol Plus				

Methodics	Instrument	x_{pt}	sd	CV%	n
Chol HDL direct, Biosystems		2.64	0.47	17.9	2
	Biosystems BA-400	2.64	0.47	17.9	2
Chol HDL direct, others		3.08	0.33	10.7	11
	ABX Pentra 400	3.37	0.30	9.0	4
	AU 400	-	-	-	1
	BS-300	-	-	-	1
	BT 3500	-	-	-	1
	Mindray BS-120	-	-	-	1
	Mindray BS200 E	3.06	0.05	1.6	2
	Selectra	-	-	-	1
		3.25	0.17	5.1	8
Chol-HDL direct, Abbott	Alinity c	3.20	0.19	6.0	3
	Architect c8000	-	-	-	1
	Architect ci4100	3.29	0.19	5.7	3
	Architect ci8200	-	-	-	1
		3.57	0.29	8.2	11
Chol-HDL direct, Beckman Coulter	AU 480	3.36	0.56	16.6	3
	AU 5800	-	-	-	1
	AU 640	-	-	-	1
	AU 680	3.67	0.09	2.4	6
		4.51	0.22	4.8	65
Chol-HDL direct, Roche	cobas c111	4.26	0.04	0.8	2
	cobas c311	4.36	0.08	1.9	5
	cobas c501	4.54	0.22	4.8	41
	cobas c702	4.31	0.08	1.8	5
	Integra 400	-	-	-	1

	Integra 400 Plus	4.63	0.31	6.7	11
Chol-HDL direct, Siemens		2.97	0.17	5.8	18
	Advia Chemistry XPT	2.72	0.07	2.6	4
	Advia 1800	2.96	0.02	0.7	2
	Atellica CH 930	3.06	0.11	3.6	12
Chol-HDL direct, Thermo Scientific		4.51	0.18	4.0	51
	Indiko	4.39	0.13	2.9	3
	Indiko Plus	4.43	0.09	2.0	7
	Konelab Prime 30	4.55	0.13	2.8	2
	Konelab PRIME 60i	4.63	0.17	3.6	12
	Konelab 20i	4.48	0.20	4.5	19
	Konelab 20XT	-	-	-	1
	Konelab 20XTi	4.71	0.52	11.1	3
	Konelab 30i	4.51	0.16	3.6	3
	Konelab 60i	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Chol HDL direct, Biosystems		2.64	0.47	17.9	2
	Direct measurement of HDL-cholesterol after decomposition of cholesterol from other lipoproteines	2.64	0.47	17.9	2
Chol HDL direct, others		3.08	0.33	10.7	11
	Direct measurement of HDL-cholesterol after decomposition of cholesterol from other lipoproteines	3.08	0.33	10.7	11
Chol-HDL direct, Abbott		3.25	0.17	5.1	8
	Direct measurement of HDL-cholesterol after decomposition of cholesterol from other lipoproteines	3.25	0.17	5.1	8
Chol-HDL direct, Beckman Coulter		3.57	0.29	8.2	11
	Direct measurement of HDL-cholesterol after decomposition of cholesterol from other lipoproteines	3.57	0.31	8.7	10
	Polyethylene glycol (PEG) precipitation; Cholesterol determination of the supernatant	-	-	-	1
Chol-HDL direct, Roche		4.51	0.22	4.8	65
	Direct measurement of HDL-cholesterol after decomposition of cholesterol from other lipoproteines	4.51	0.23	5.2	61
	Phosphotungstate/Mg++ precipitation; Cholesterol determination of the supernatant	-	-	-	1
	Polyethylene glycol (PEG) precipitation; Cholesterol determination of the supernatant	4.66	0.25	5.3	3
Chol-HDL direct, Siemens		2.97	0.17	5.8	18
	Direct measurement of HDL-cholesterol after decomposition of cholesterol from other lipoproteines	2.97	0.17	5.8	18
Chol-HDL direct, Thermo Scientific		4.51	0.18	4.0	51
	Direct measurement of HDL-cholesterol after decomposition of cholesterol from other lipoproteines	4.53	0.22	4.8	46
	Polyethylene glycol (PEG) precipitation; Cholesterol determination of the supernatant	4.47	0.10	2.1	5

Serum A | Calcium, ionized, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Calculated (Ca-ion)	-	-	-	-	-	1.65	1.65	-	1
ISE direct	1.58	1.57	0.05	3.3	0.01	1.49	1.73	1	28
All	1.58	1.57	0.05	3.4	0.01	1.49	1.73	1	29

Serum A | Calcium, ionized, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Calculated (Ca-ion)		-	-	-	1
	Calculated	-	-	-	1
ISE direct		1.58	0.05	3.3	28
	IL blood gas and electrolyte analysers	1.53	0.01	0.7	3
	Nova Biomedical electrolyte analysers	1.58	<0.01	0.4	2
	Radiometer blood gas analyzer	1.59	0.05	3.4	17
	Roche	-	-	-	1
	Roche blood gas and electrolyte analysers	1.57	0.10	6.3	2
	Roche Cobas Integra	-	-	-	1
	Siemens blood gas and electrolyte analysers	-	-	-	1
	Thermo Scientific	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Calculated (Ca-ion)		-	-	-	1
	ABX Pentra 400	-	-	-	1
ISE direct		1.58	0.05	3.3	28
	ABL 800 Flex	1.63	0.03	1.9	3
	ABL 825	-	-	-	1
	ABL 835	1.55	0.01	0.9	2
	ABL 835 Flex	1.62	0.08	4.7	4
	ABL 90 FLEX	1.56	0.04	2.3	7
	AVL 9180	1.64	<0.01	0.4	2
	GEM Premier 3000	-	-	-	1
	Gem Premier 3500	-	-	-	1
	GEM Premier 4000	-	-	-	1
	Integra 400 Plus	-	-	-	1
	Konelab 30i	-	-	-	1
	Omni S / cobas b221	-	-	-	1
	RAPIDpoint 500	-	-	-	1
	Stat Profile Prime Electrolyte Analyzer	1.58	<0.01	0.4	2

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Calculated (Ca-ion)		-	-	-	1
	Calculated	-	-	-	1
ISE direct		1.58	0.05	3.3	28
	Direct potentiometry	1.58	0.06	4.0	28

Serum A | Osmol, mosm/kg

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
All (osmolality)	659	657	13	1.9	3	637	680	-	19
All	659	657	13	1.9	3	637	680	-	19

Serum A | Osmol, mosm/kg, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
All (osmolality)		659	13	1.9	19
	Freezing point method	659	13	1.9	19

Methodics	Instrument	x_{pt}	sd	CV%	n
All (osmolality)		659	13	1.9	19
	A2O Osmometer	-	-	-	1
	Micro Osmometer (3MO, 30 plus, 3300)	654	11	1.6	5
	Osmo	651	8	1.3	2
	Osmomat auto	676	5	0.8	4
	Osmometer 800 CI	645	9	1.3	3
	OsmoPRO	-	-	-	1
	Osmo1	663	8	1.2	3

Methodics	Chemical principle	x_{pt}	sd	CV%	n
All (osmolality)		659	13	1.9	19
	Freezing point depression osmometry	659	13	1.9	19

Serum A | A1Glypr, g/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Siemens nephelometry (A1-Glypr)	0.46	0.46	0.03	6.6	0.02	0.43	0.49	-	3
Turbidometry (A1-Glypr)	0.39	0.40	0.02	5.3	0.01	0.37	0.41	-	3
All	0.43	0.42	0.04	10.0	0.02	0.37	0.49	-	6

Serum A | A1Glypr, g/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Siemens nephelometry (A1-Glypr)		0.46	0.03	6.6	3
	Siemens BN instruments	0.46	0.03	6.6	3
Turbidometry (A1-Glypr)		0.39	0.02	5.3	3
	AU instruments	-	-	-	1
	Roche cobas	-	-	-	1
	Roche Cobas Integra	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Siemens nephelometry (A1-Glypr)		0.46	0.03	6.6	3
	BN II	0.46	0.04	9.2	2
	BN ProSpec	-	-	-	1
Turbidometry (A1-Glypr)		0.39	0.02	5.3	3
	AU 480	-	-	-	1
	cobas c502	-	-	-	1
	Integra 400 Plus	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Siemens nephelometry (A1-Glypr)		0.46	0.03	6.6	3
	Antigen-antibody (Ag-Ab) complex; nephelometry	0.46	0.03	6.6	3
Turbidometry (A1-Glypr)		0.39	0.02	5.3	3
	Antigen-antibody (Ag-Ab) complex; turbidimetry	0.39	0.02	5.3	3

Serum A | Antitry, g/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Siemens nephelometry (A1-Atry)	0.77	0.77	0.01	1.3	<0.01	0.76	0.78	-	3
Turbidometry (A1-Atry)	0.73	0.71	0.04	5.5	0.02	0.69	0.79	-	5
All	0.74	0.75	0.04	5.1	0.01	0.69	0.79	-	8

Serum A | Antitry, g/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Siemens nephelometry (A1-Atry)		0.77	0.01	1.3	3
	Siemens BN instruments	0.77	0.01	1.3	3
Turbidometry (A1-Atry)		0.73	0.04	5.5	5
	AU instruments	-	-	-	1
	Optilite	-	-	-	1
	Roche cobas	-	-	-	1
	Siemens Advia	-	-	-	1
	Siemens Atellica	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Siemens nephelometry (A1-Atry)		0.77	0.01	1.3	3
	BN II	-	-	-	1
	BN ProSpec	0.77	0.01	1.8	2
Turbidometry (A1-Atry)		0.73	0.04	5.5	5
	Advia Chemistry XPT	-	-	-	1
	Atellica CH 930	-	-	-	1
	AU 480	-	-	-	1
	cobas c502	-	-	-	1
	Optilite	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Siemens nephelometry (A1-Atry)		0.77	0.01	1.3	3
	Antigen-antibody (Ag-Ab) complex; nephelometry	0.77	0.01	1.3	3
Turbidometry (A1-Atry)		0.73	0.04	5.5	5
	Antigen-antibody (Ag-Ab) complex; turbidimetry	0.73	0.04	5.5	5

Serum A | Calcium, ionized, pH corrected, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
ISE direct	-	-	-	-	-	1.81	1.81	-	1
All	-	-	-	-	-	1.81	1.81	-	1

Serum A | Calcium, ionized, pH corrected, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
ISE direct		-	-	-	1
	IL blood gas and electrolyte analysers	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
ISE direct		-	-	-	1
	GEM Premier 4000	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
ISE direct		-	-	-	1
	Direct potentiometry	-	-	-	1

Serum A | Chol-LDL, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Chol LDL direct, Abbott	2.01	2.00	0.09	4.4	0.03	1.88	2.12	-	8
Chol LDL direct, Beckman Coulter	3.83	3.70	0.41	10.8	0.16	3.38	4.43	-	7
Chol LDL direct, others	2.95	3.01	0.31	10.5	0.13	2.49	3.28	-	6
Chol LDL direct, Siemens	2.24	2.20	0.10	4.6	0.02	2.08	2.50	-	19
Chol LDL direct, Thermo Scientific	3.60	3.59	0.20	5.5	0.04	3.26	4.20	1	23
Chol-LDL direct, Roche	3.37	3.33	0.11	3.4	0.02	3.13	3.58	1	53
Chol-LDL, Friedewald	1.72	1.55	0.73	42.5	0.22	0.80	3.68	-	11
All	3.02	3.31	0.71	23.4	0.06	1.28	4.43	1	127

Serum A | Chol-LDL, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Chol LDL direct, Abbott		2.01	0.09	4.4	8
	Abbott Aeroset, Architect	2.03	0.11	5.2	4
	Abbott Alinity	2.02	0.04	2.1	3
	Abbott Architect	-	-	-	1
Chol LDL direct, Beckman Coulter		3.83	0.41	10.8	7
	AU instruments	3.79	0.44	11.6	6
	Beckmann Coulter Olympus	-	-	-	1
Chol LDL direct, others		2.95	0.31	10.5	6
	ABX Pentra	2.74	0.35	12.8	2
	Diasys	-	-	-	1
	Mindray	3.00	0.30	10.1	3
Chol LDL direct, Siemens		2.24	0.10	4.6	19
	Siemens Advia	2.36	0.09	3.8	6
	Siemens Atellica	2.18	0.05	2.2	13
Chol LDL direct, Thermo Scientific		3.60	0.20	5.5	23
	Thermo Scientific	3.51	0.46	13.0	23
Chol-LDL direct, Roche		3.37	0.11	3.4	53
	Roche cobas	3.35	0.10	3.0	45
	Roche Cobas Integra	3.48	0.17	4.8	8
Chol-LDL, Friedewald		1.72	0.73	42.5	11
	Roche cobas	1.26	0.40	31.5	3
	Roche Cobas Integra	-	-	-	1
	Thermo Scientific	1.63	0.27	16.8	7

Methodics	Instrument	x_{pt}	sd	CV%	n
Chol LDL direct, Abbott		2.01	0.09	4.4	8
	Alinity c	2.02	0.04	2.1	3
	Architect c8000	-	-	-	1
	Architect ci4100	1.94	0.06	2.9	2
	Architect ci8200	2.00	0.17	8.5	2
Chol LDL direct, Beckman Coulter		3.83	0.41	10.8	7
	AU 480	-	-	-	1
	AU 5800	-	-	-	1
	AU 680	3.66	0.35	9.5	5
Chol LDL direct, others		2.95	0.31	10.5	6
	ABX Pentra 400	2.74	0.35	12.8	2
	AU 400	-	-	-	1
	BS-300	-	-	-	1
	Mindray BS-120	-	-	-	1
	Mindray BS200 E	-	-	-	1
Chol LDL direct, Siemens		2.24	0.10	4.6	19
	Advia Chemistry XPT	2.30	0.02	0.8	4
	Advia 1800	2.47	0.04	1.8	2
	Atellica CH 930	2.18	0.05	2.2	13
Chol LDL direct, Thermo Scientific		3.60	0.20	5.5	23
	Indiko	-	-	-	1
	Indiko Plus	3.38	0.12	3.6	3
	Konelab PRIME 60i	3.62	0.10	2.7	7
	Konelab 20i	3.70	0.25	6.8	8
	Konelab 20XT	-	-	-	1
	Konelab 20XTi	-	-	-	1

	Konelab 30i	3.47	0.05	1.4	2
Chol-LDL direct, Roche		3.37	0.11	3.4	53
	cobas c111	-	-	-	1
	cobas c311	3.45	<0.01	0.2	3
	cobas c501	3.34	0.10	3.0	38
	cobas c702	3.45	0.07	2.0	3
	Integra 400	-	-	-	1
	Integra 400 Plus	3.48	0.18	5.1	7
Chol-LDL, Friedewald		1.72	0.73	42.5	11
	cobas c311	-	-	-	1
	cobas c501	-	-	-	1
	cobas c702	-	-	-	1
	Indiko Plus	1.65	0.41	25.1	3
	Integra 400 Plus	-	-	-	1
	Konelab PRIME 60i	-	-	-	1
	Konelab 20i	1.69	0.14	8.3	3

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Chol LDL direct, Abbott		2.01	0.09	4.4	8
	Direct measurement of LDL-cholesterol after decomposition of cholesterol from other lipoproteines	2.01	0.09	4.4	8
Chol LDL direct, Beckman Coulter		3.83	0.41	10.8	7
	Direct measurement of LDL-cholesterol after decomposition of cholesterol from other lipoproteines	3.83	0.41	10.8	7
Chol LDL direct, others		2.95	0.31	10.5	6
	Direct measurement of LDL-cholesterol after decomposition of cholesterol from other lipoproteines	2.95	0.31	10.5	6
Chol LDL direct, Siemens		2.24	0.10	4.6	19
	Direct measurement of LDL-cholesterol after decomposition of cholesterol from other lipoproteines	2.24	0.10	4.6	19
Chol LDL direct, Thermo Scientific		3.60	0.20	5.5	23
	Direct measurement of LDL-cholesterol after decomposition of cholesterol from other lipoproteines	3.51	0.46	13.0	23
Chol-LDL direct, Roche		3.37	0.11	3.4	53
	Direct measurement of LDL-cholesterol after decomposition of cholesterol from other lipoproteines	3.37	0.12	3.6	53
Chol-LDL, Friedewald		1.72	0.73	42.5	11
	Calculated	1.52	0.34	22.6	10
	Direct measurement of LDL-cholesterol after decomposition of cholesterol from other lipoproteines	-	-	-	1

Serum A | TfR, mg/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Roche systems (TfR)	1.42	1.44	0.12	8.4	0.03	1.10	1.56	-	14
Siemens nephelometry (TfR)	0.65	0.65	0.03	5.3	0.02	0.61	0.69	-	4
All	1.25	1.43	0.35	27.7	0.08	0.61	1.56	-	18

Serum A | TfR, mg/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Roche systems (TfR)		1.42	0.12	8.4	14
	Roche cobas	1.47	0.04	3.0	4
	Roche Cobas Integra	1.45	0.07	4.9	2
	Roche cobas Tina-quant	1.39	0.15	10.7	8
Siemens nephelometry (TfR)		0.65	0.03	5.3	4
	Siemens BN instruments	-	-	-	1
	Siemens N Latex sTfR	0.64	0.03	4.2	3

Methodics	Instrument	x_{pt}	sd	CV%	n
Roche systems (TfR)		1.42	0.12	8.4	14
	cobas c501	1.41	0.13	9.2	8
	cobas c502	-	-	-	1
	cobas c702	1.41	0.16	11.4	3
	Integra 400 Plus	1.45	0.07	4.9	2
Siemens nephelometry (TfR)		0.65	0.03	5.3	4
	BN II	-	-	-	1
	BN ProSpec	0.64	0.03	4.2	3

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Roche systems (TfR)		1.42	0.12	8.4	14
	Antigen-antibody (Ag-Ab) complex; turbidimetry	1.45	0.07	4.9	2
	Antigen-antibody (Ag-Ab) latex complex; turbidimetry	1.42	0.13	8.9	12
Siemens nephelometry (TfR)		0.65	0.03	5.3	4
	Antigen-antibody (Ag-Ab) complex; nephelometry	0.65	0.03	5.3	4

Report info

Participants

184 participants from 9 countries.

Report info

Your own result should be compared to others using the same method.
Assigned values ($\bar{x}_p$, target values) are means of the results where results deviating more than ± 3 standard deviation from the median are removed. The standard uncertainty (u) of the assigned value is reported as standard error of the mean (SEM). Additionally, if the measurement uncertainty of the target value is large an automatic text is printed on the report: “The uncertainty of the assigned value is not negligible, and evaluations could be affected.”
In case the client’s result is the only one in the method group, no assigned value will be calculated, no target area shown, and no statistics calculated. In case there are only a few results in the client’s own method group, the result can be compared to all method mean or to a group that is similar to the own method.
Results reported with < or > -signs cannot be included in the statistics.

For information on report interpretation and performance evaluation, please see the " EQAS Interpretation guidelines" LabScala User instructions (top right corner ?Help link).

External Quality Assessment Scheme

General Chemistry, Serum A Round 5, 2020

Specimens

Sample ST-MAY-20 (LQ723620051) was lyophilized human serum sample.

Based on the previous tests and the results of this round, the samples are homogeneous, stable and suitable for the external quality assessment scheme.

The materials were sent without temperature control packaging.

Report info

Please see the description of the data analysis on the last page of the laboratory-specific histogram and Global report.

Comments

It is important to read the Final report first, because it contains important information of the samples and results in each round.

We kindly ask the customers to review their results and methods and to contact Labquality if there are any errors in the methods. Customers will no longer receive separate note letters, but notes will be recorded in the client-specific report below the histogram if needed.

ST-MAY-20 was a lyophilised human serum with high levels of glucose, bilirubin and creatinine. The activity of most enzymes was at pathological level. The sample has not been used on Labquality's round previously.

ALP

Most part of the ALP results have already been measured by a method based on the IFCC recommendation 2011. The result level of the old method group "IFCC recommendation" is nearly 20% higher and the variation is elevated (CV=17.5%). The level of AU instruments, BioSystems and Mindray is high. AU instruments have an own method group "IFCC Beckman Coulter".

AST

The histogram of AST is clearly bimodal. We can see a clear difference in the enzyme activity if using the coenzyme pyridoxal-5-phosphate or not. The level of the IFCC group is higher as expected. The variation of this group is rather high (CV=7.4%) because of wrong method data in LabScala. The histogram shows that there are several results in the IFCC group which should be in the group "IFCC comparable methods without P-5-P". The methods based on the IFCC recommendation use P-5-P (pyridoxal-5-phosphate) as coenzyme.

We kindly ask you to check your method data of AST.

Cholesterol HDL

There are big differences on the result levels of different direct methods. Siemens systems give the lowest level ($\bar{x}$ =2.97 mmol/L). The results of the most used methods, Roche cobas and Thermo Fisher Scientific, are highest and on the same level ($\bar{x}$ =4.51 mmol/L).

2020-06-04

FINAL REPORT

Product no. 1072, 1072S

Samples sent 2020-05-04
Round closed 2020-05-31
Report released 2020-06-04

Typing errors in laboratory's result forms are on laboratory's responsibility. Labquality accepts responsibility only for result processing.

Requests must be notified by writing within three weeks from the date of this letter.

Expert

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Cholesterol LDL

We can see differences of method-based result levels of Cholesterol LDL as well. Abbott has the lowest level ($\bar{x}=2.01$ mmol/L) and the level of Beckman Coulter is highest ($\bar{x}=3.83$ mmol/L) when $n>2$.

The results measured by using Friedewald formula are low ($\bar{x}=1.72$ mmol/L) and the variation is high (CV=42.5%).

End of report

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