

Immune Monitoring Programme

All Participant Report

Distribution - 232401

Sample - 380

Participant ID -

Date Issued - 23 May 2023

Closing Date - 13 June 2023

Machine Used - FACSCanto II

Trial Comments

This exercise was issued to 840 participants. Results were returned by 742 participants. This is the final version of the report.

Sample Comments

This sample was made by UK NEQAS LI using stabilised blood & blood artificially depleted of CD3+/CD4+ lymphocytes

Absolute Values Results and Performance

Cell Population	Your Results (cells/ μ L)	Robust Mean (cells/ μ L)	Robust SD (cells/ μ L)
CD3+ Lymphocytes	487.98	473.12	43.28
CD3+/CD4+ Lymphocytes	281.64	250.61	23.70
CD3+/CD8+ Lymphocytes	191.95	190.98	19.54
CD19+ Lymphocytes	224.33	216.96	28.44
CD16+/CD56+ Lymphocytes	108.00	114.77	12.92

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
CD3+ Lymphocytes	0.34	Satisfactory	12	0	0
CD3+/CD4+ Lymphocytes	1.31	Satisfactory	12	0	0
CD3+/CD8+ Lymphocytes	0.05	Satisfactory	12	0	0
CD19+ Lymphocytes	0.26	Satisfactory	12	0	0
CD16+/CD56+ Lymphocytes	-0.52	Satisfactory	12	0	0

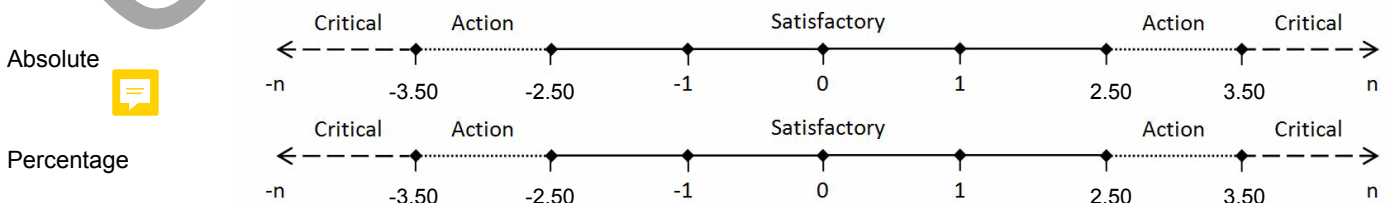
Percentage Values Results and Performance

Cell Population	Your Results %	Robust Mean %	Robust SD %
CD3+ Lymphocytes	56.90	57.85	1.74
CD3+/CD4+ Lymphocytes	31.38	31.11	1.42
CD3+/CD8+ Lymphocytes	21.39	23.37	1.16
CD19+ Lymphocytes	27.43	26.00	1.79
CD16+/CD56+ Lymphocytes	13.21	13.89	1.18

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
CD3+ Lymphocytes	-0.55	Satisfactory	12	0	0
CD3+/CD4+ Lymphocytes	0.19	Satisfactory	12	0	0
CD3+/CD8+ Lymphocytes	-1.71	Satisfactory	11	1	0
CD19+ Lymphocytes	0.80	Satisfactory	12	0	0
CD16+/CD56+ Lymphocytes	-0.58	Satisfactory	12	0	0

*z Score Limits Definitions

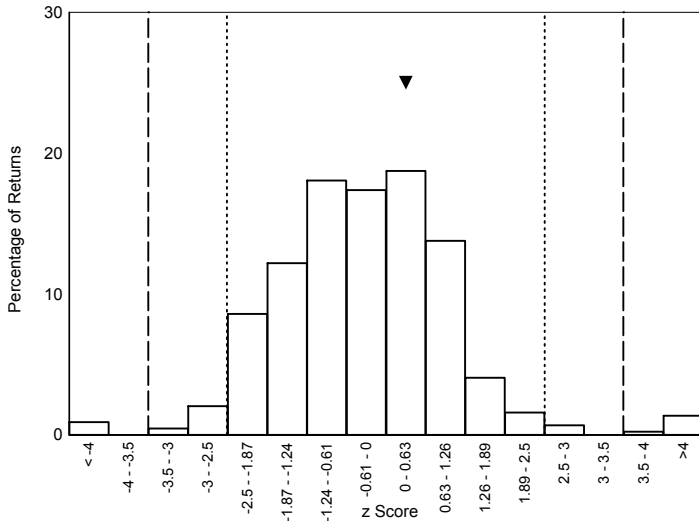
Please note the scale below is applicable to the tables above and to the z score histograms and Shewhart control charts that follow. It is not applicable to the Cusum control charts.



Histograms of Participant z Scores

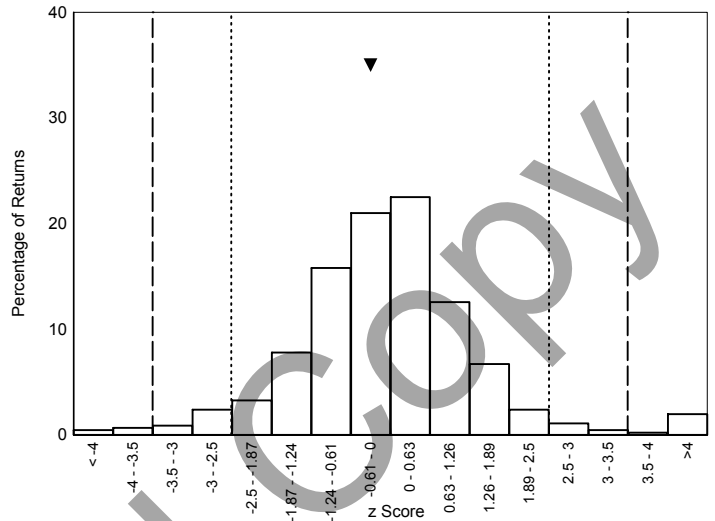
Absolute Values (cells/ μ L) - CD3+ Lymphocytes

Please note ▼ denotes your result



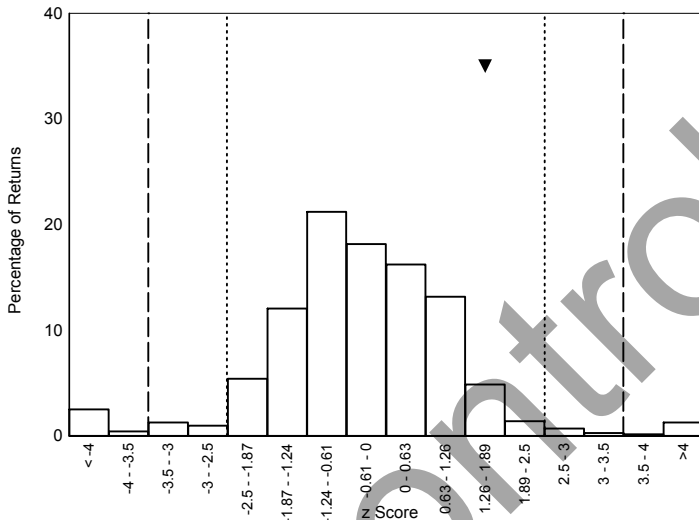
Percentage Values (%) - CD3+ Lymphocytes

Please note ▼ denotes your result



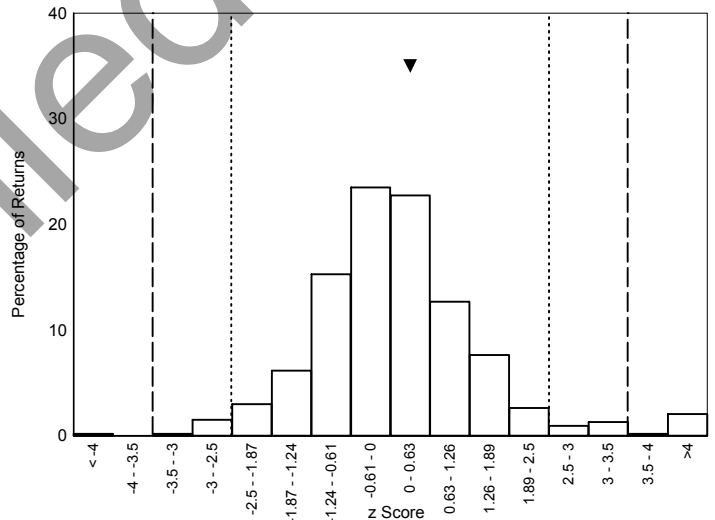
Absolute Values (cells/ μ L) - CD3+/CD4+ Lymphocytes

Please note ▼ denotes your result



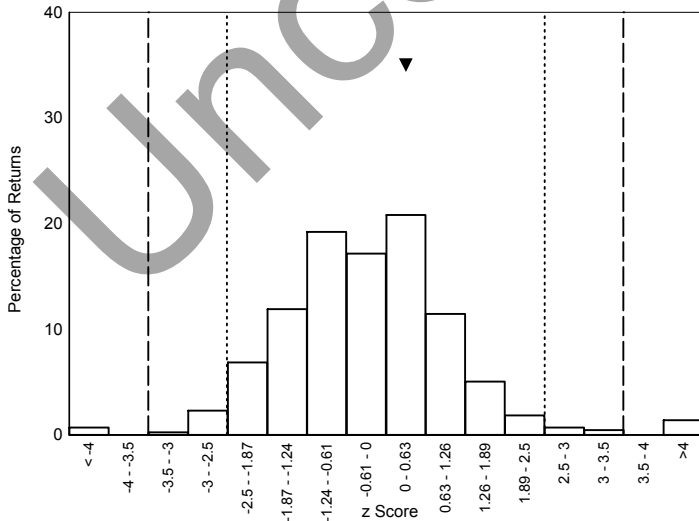
Percentage Values (%) - CD3+/CD4+ Lymphocytes

Please note ▼ denotes your result



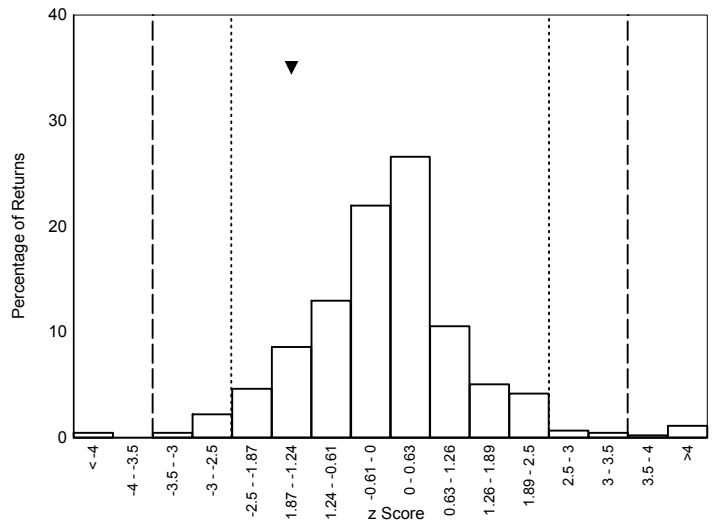
Absolute Values (cells/ μ L) - CD3+/CD8+ Lymphocytes

Please note ▼ denotes your result



Percentage Values (%) - CD3+/CD8+ Lymphocytes

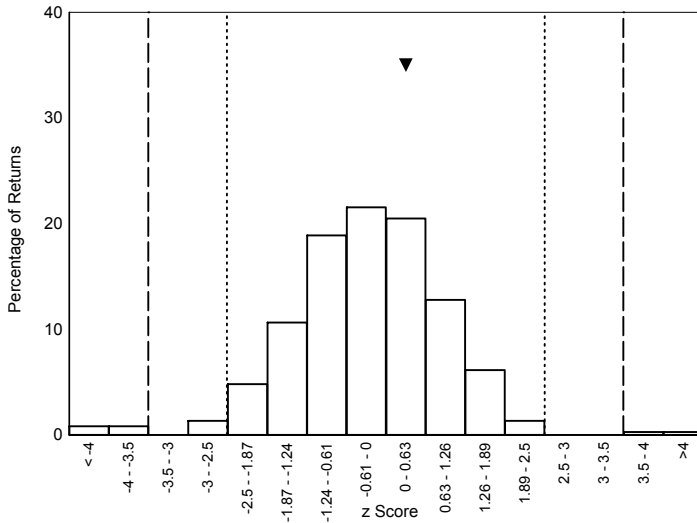
Please note ▼ denotes your result



Histograms of Participant z Scores

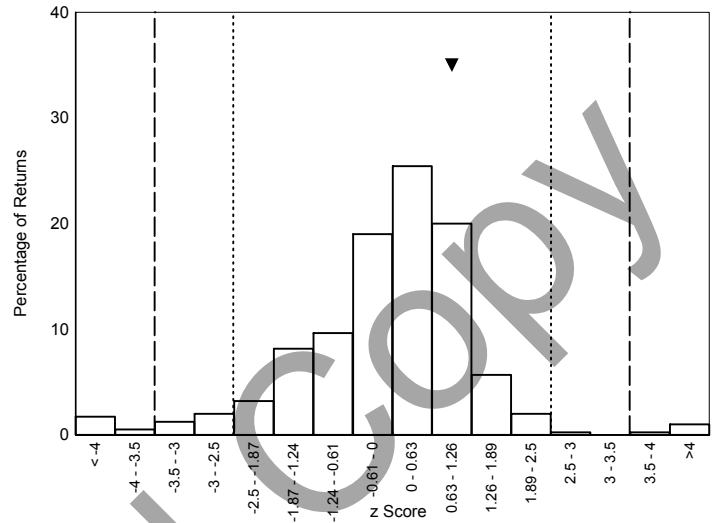
Absolute Values (cells/ μ L) - CD19+ Lymphocytes

Please note ▼ denotes your result



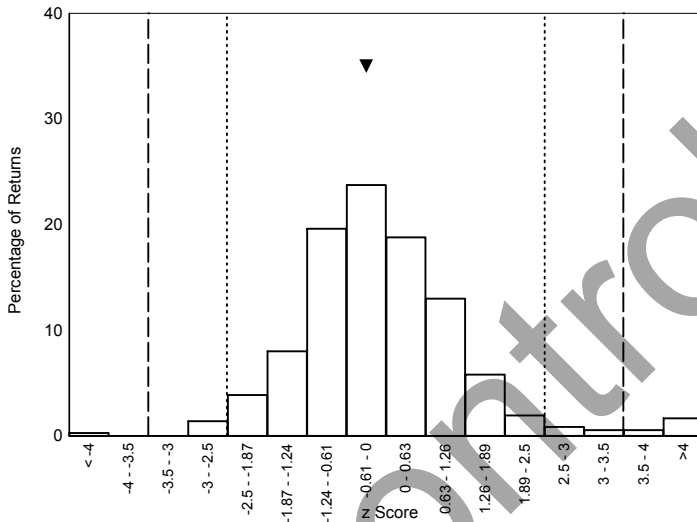
Percentage Values (%) - CD19+ Lymphocytes

Please note ▼ denotes your result



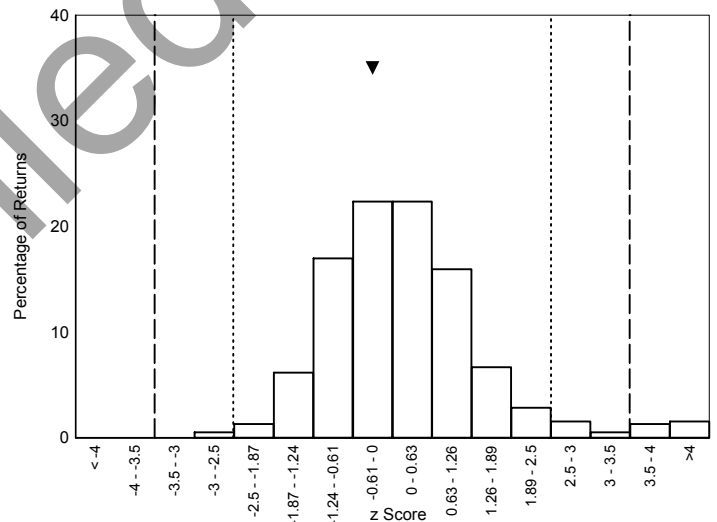
Absolute Values (cells/ μ L) - CD16+/CD56+ Lymphocytes

Please note ▼ denotes your result



Percentage Values (%) - CD16+/CD56+ Lymphocytes

Please note ▼ denotes your result



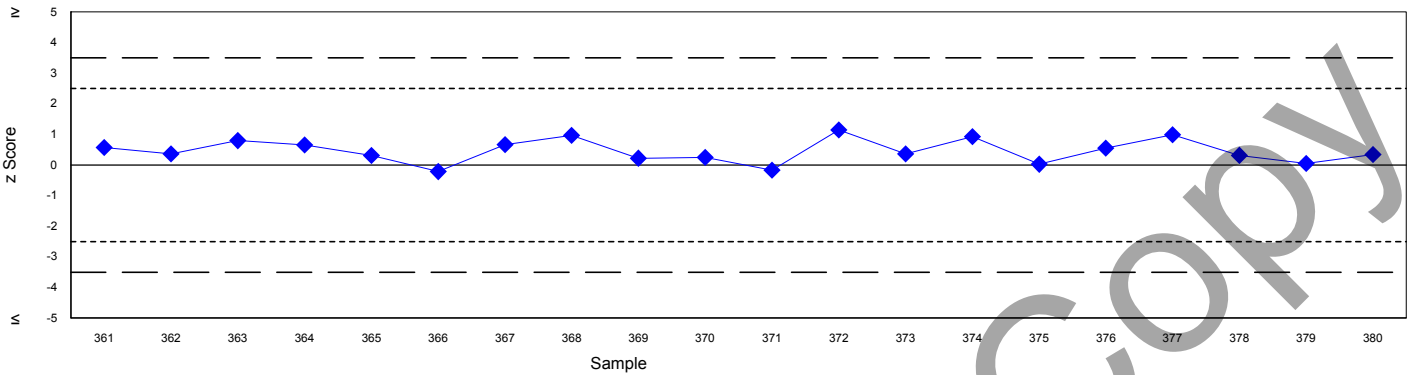
Shewhart Control Charts

(Please note each data point represents a single sample)

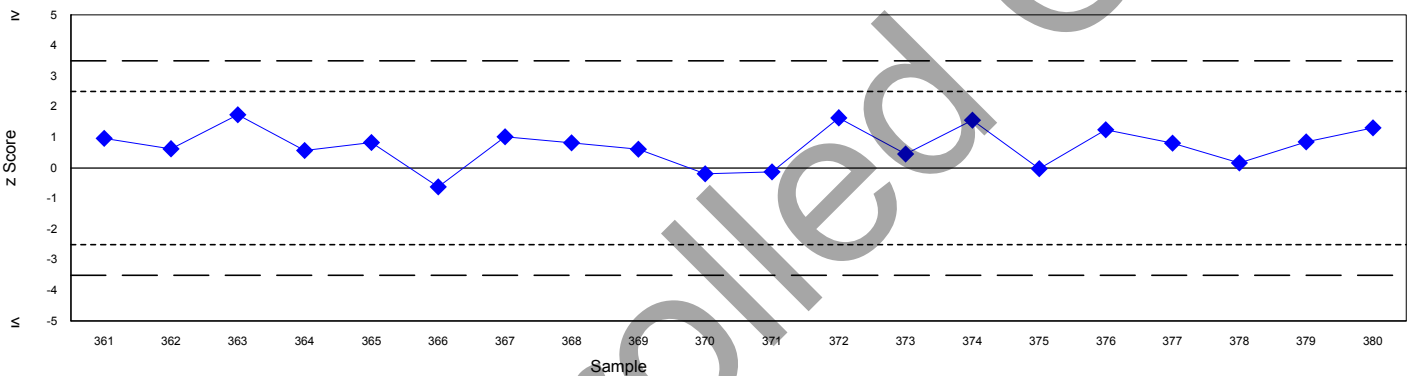


Absolute Values (cells/ μ L)

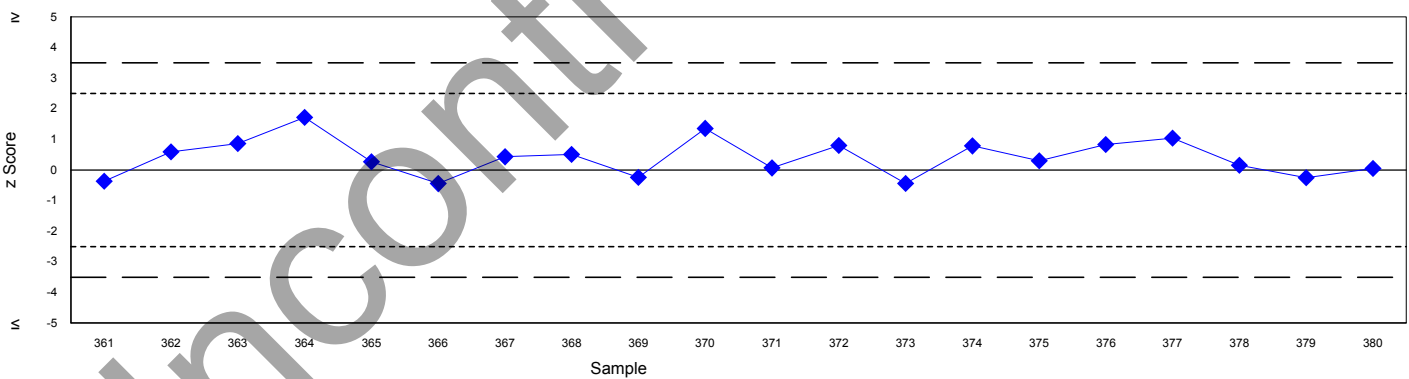
CD3+ Lymphocytes



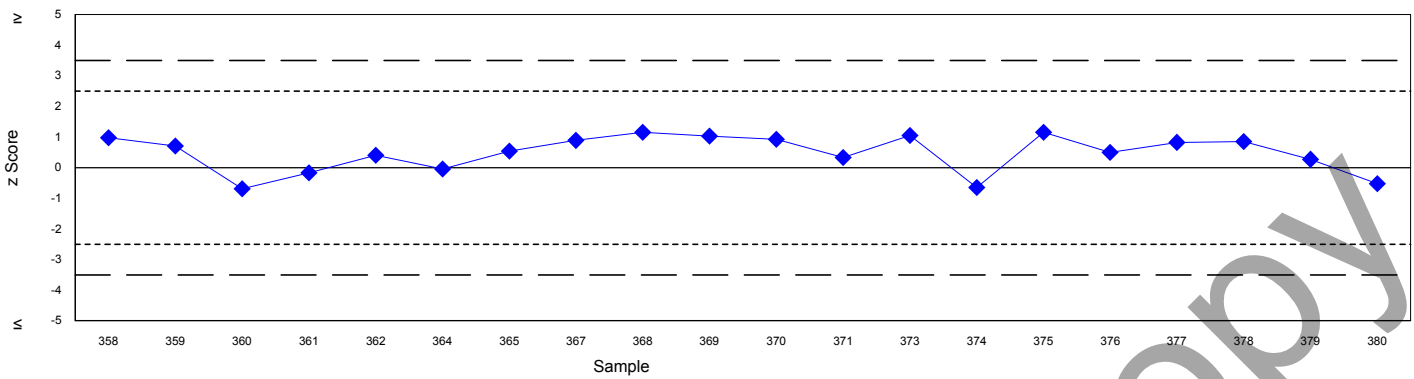
CD3+/CD4+ Lymphocytes



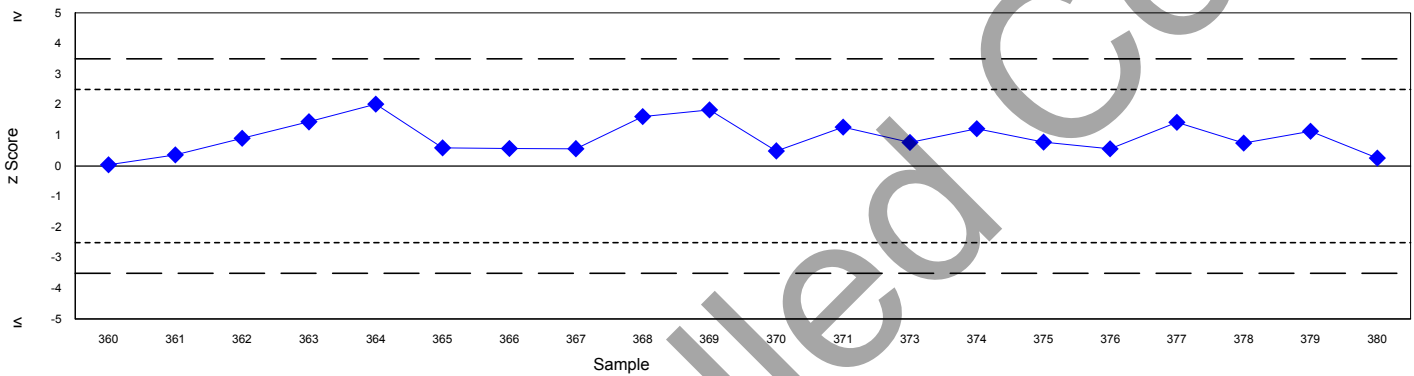
CD3+/CD8+ Lymphocytes



CD16+/CD56+ Lymphocytes



CD19+ Lymphocytes

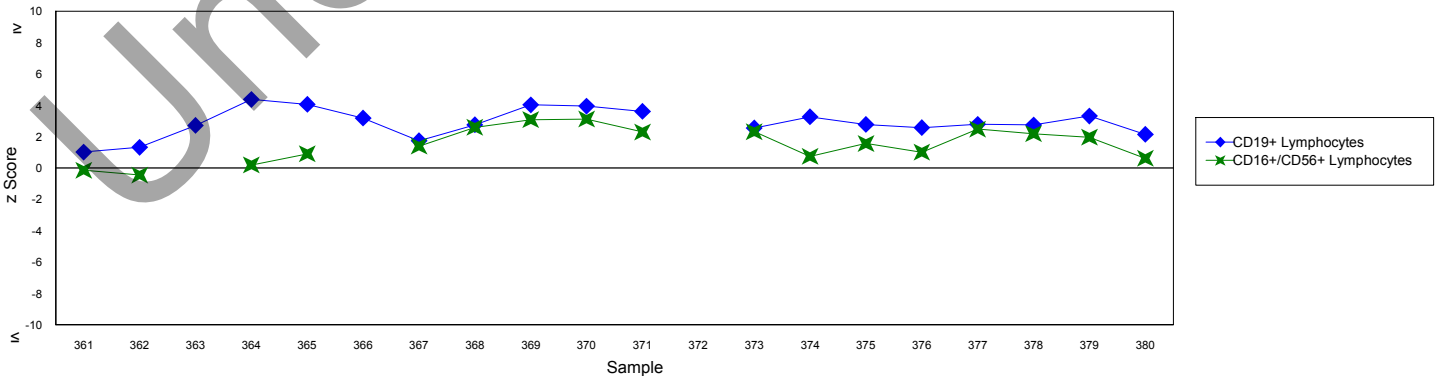
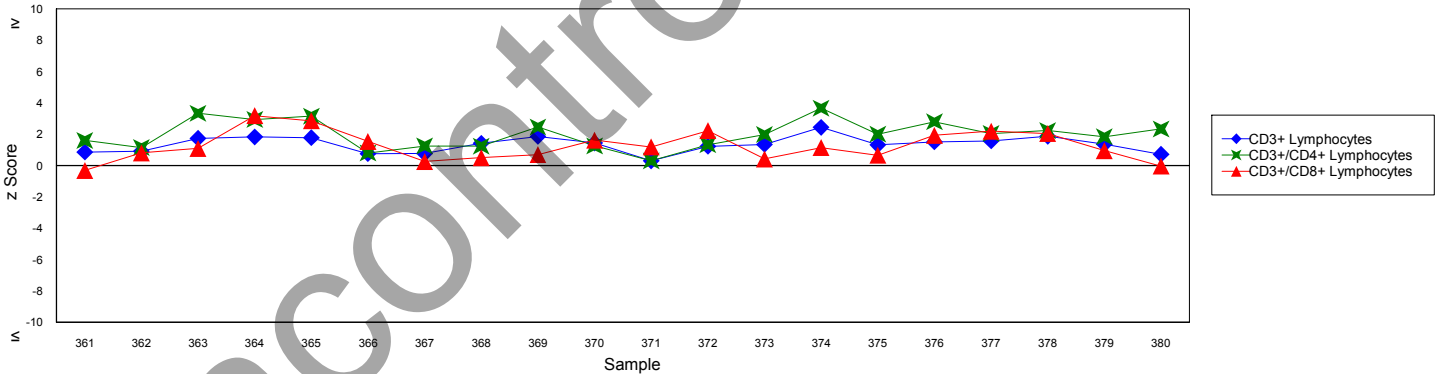


Cusum Control Charts



(Please note each data point represents the sum of the z scores of the current sample and the two previous samples)

Absolute Values (cells/ μ L)



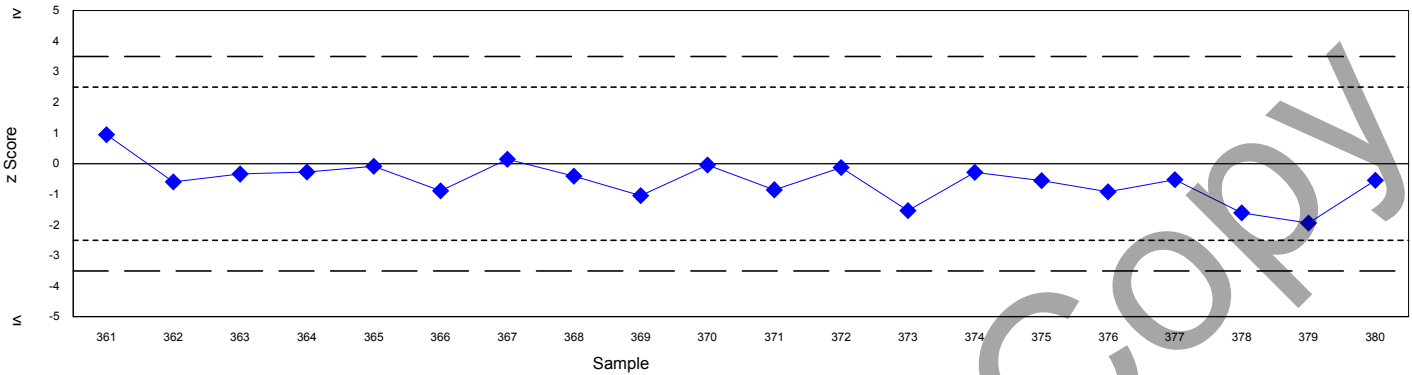
Shewhart Control Charts

(Please note each data point represents a single sample)

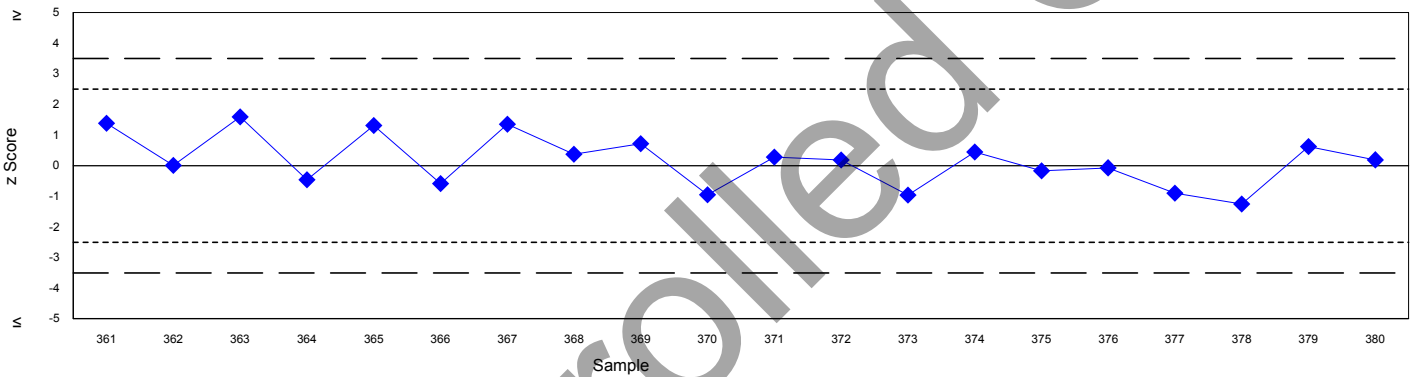
Percentage Values (%)



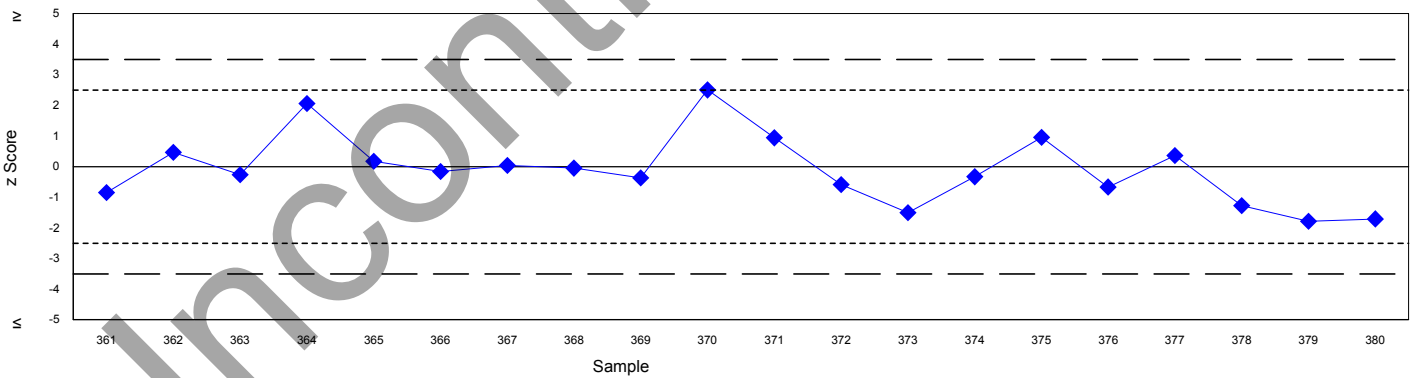
CD3+ Lymphocytes



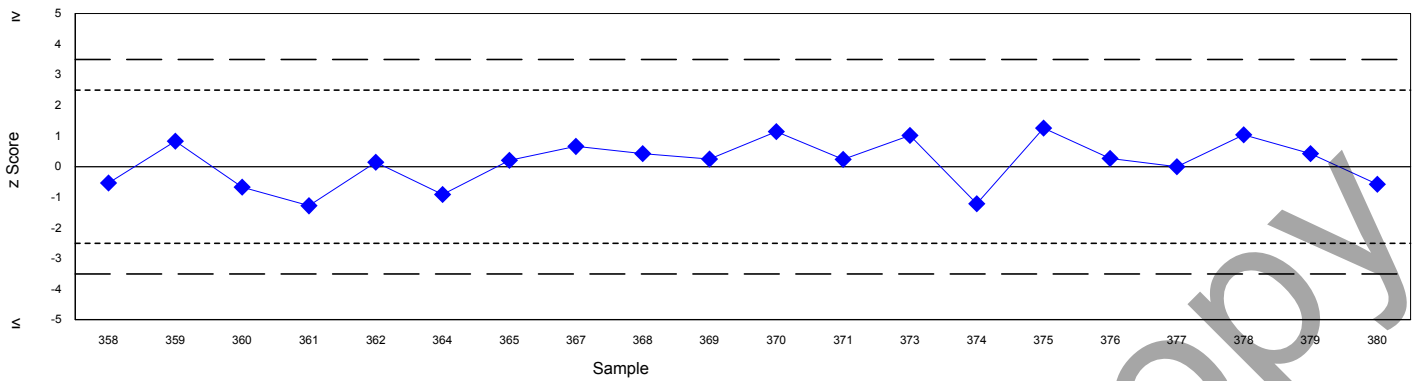
CD3+/CD4+ Lymphocytes



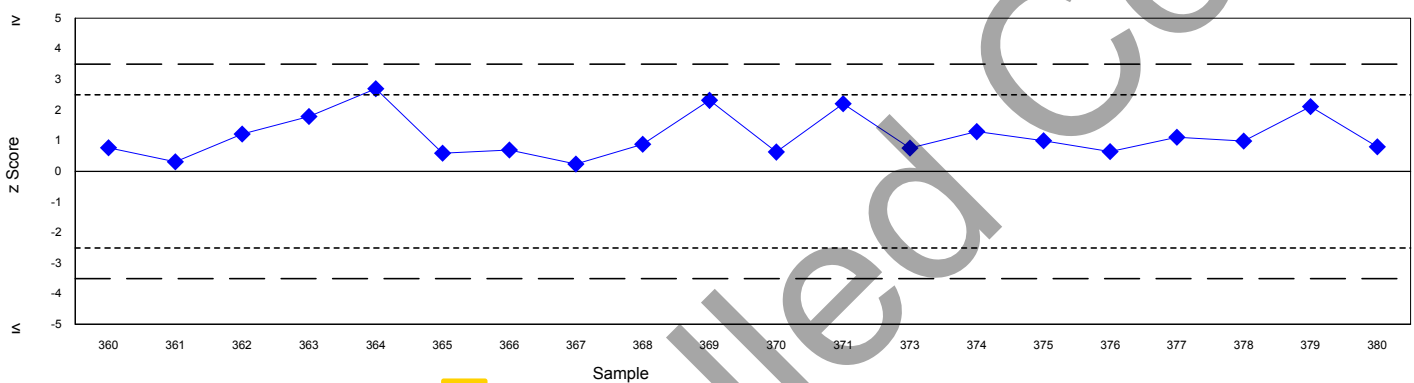
CD3+/CD8+ Lymphocytes



CD16+/CD56+ Lymphocytes



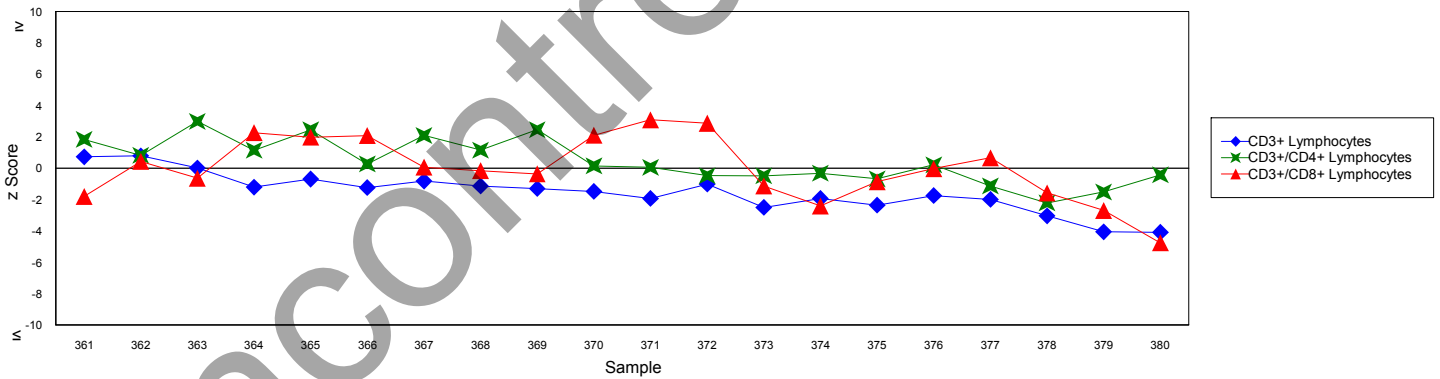
CD19+ Lymphocytes



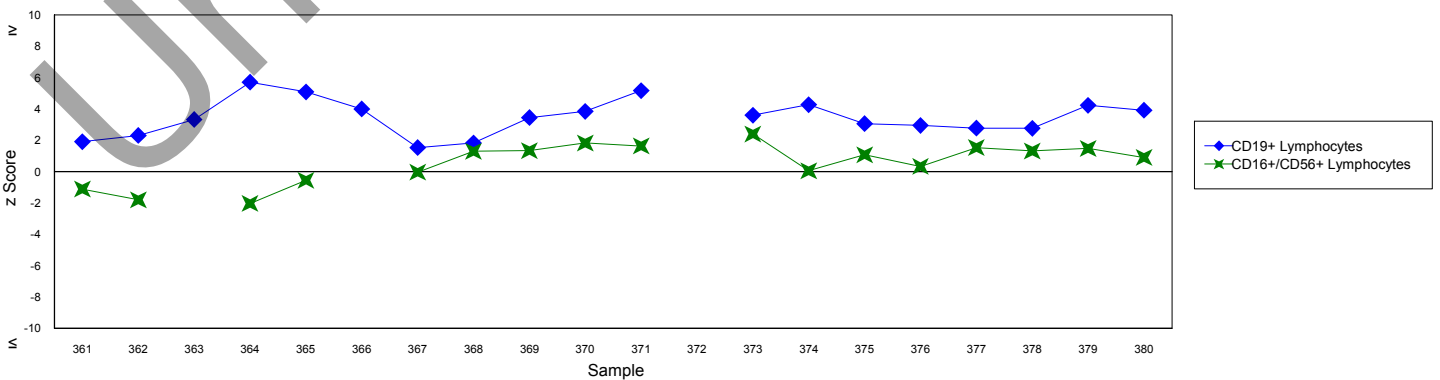
Cusum Control Charts

(Please note each data point represents the sum of the z scores of the current sample and the two previous samples)

Percentage Values (%)



Percentage Values (%)



Platform Specific Statistics

(Please note only groups of >20 returns are displayed)



Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FLOW COUNT	91	452.7	39.7	89	58.5	1.5
HAEM. WBC	18	459.2	44.0	25	59.1	1.8
TRUCOUNT	208	484.5	38.0	204	57.2	1.4

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FLOW COUNT	98	244.1	21.6	92	31.7	1.2
HAEM. WBC	18	244.2	22.5	25	32.0	1.2
OTHER	57	244.3	18.0	39	30.7	1.6
TRUCOUNT	206	261.0	22.5	201	30.9	1.2

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FLOW COUNT	87	181.8	18.3	85	23.6	1.0
HAEM. WBC	18	182.1	21.8	25	23.9	1.5
TRUCOUNT	203	195.8	17.3	200	23.2	1.2

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FLOW COUNT	75	191.1	25.6	76	24.5	1.8
HAEM. WBC	16	187.7	25.5	23	24.6	2.5
TRUCOUNT	184	227.3	22.5	181	26.9	1.2

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FLOW COUNT	67	111.0	11.1	68	14.4	1.2
HAEM. WBC	16	105.3	7.8	23	14.1	1.4
TRUCOUNT	184	116.2	12.8	181	13.7	1.0

Antibody Manufacturer Specific Statistics



(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
BD Biosciences	233	482.0	40.4	248	57.5	1.6
Beckman Coulter	108	448.6	42.3	112	58.5	1.8

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
BD Biosciences	297	255.4	24.9	284	30.9	1.4
Beckman Coulter	107	242.8	23.7	112	31.6	1.1

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
BD Biosciences	233	194.8	18.2	246	23.3	1.1
Beckman Coulter	102	179.9	18.9	107	23.6	1.2

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
BD Biosciences	202	225.1	23.8	217	26.7	1.4
Beckman Coulter	95	190.8	24.8	105	24.6	2.0

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
BD Biosciences	205	115.4	13.1	221	13.7	1.0
Beckman Coulter	78	110.5	13.1	85	14.3	1.5

Antibody Fluorochrome Specific Statistics



(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FITC	241	481.8	40.5	250	57.5	1.6
PC5	56	446.5	42.1	56	58.8	1.7

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
APC	90	254.7	25.5	91	31.0	1.2
PE	59	239.9	17.9	53	31.5	1.3
PE-CY5	26	235.3	16.3	20	29.8	0.9
PE-CY7	152	262.1	22.0	158	31.0	1.3
RD1	47	243.2	25.1	45	32.1	1.1

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
APC-Cy7	145	196.4	16.6	151	23.2	1.1
ECD	67	178.7	18.2	68	23.6	1.0
PE	83	193.8	19.0	88	23.4	1.2

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
APC	203	225.2	24.5	210	26.7	1.3
ECD	61	188.2	25.6	64	24.3	2.0
PE-CY7	11	196.4	22.6	22	24.8	1.9

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
PE	242	115.2	13.4	261	13.8	1.1
RD1	27	109.0	13.3	28	14.4	1.3



Flow Cytometer Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FACSCanto II	106	477.3	37.5	117	57.5	1.8
FACSLyric	103	495.3	33.9	106	57.5	1.4
Navios	86	447.7	40.4	90	58.4	1.8

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FACSCanto II	103	258.1	22.0	114	31.3	1.4
FACSLyric	103	265.1	23.3	106	30.9	1.3
FACSPresto	128	241.9	18.0	63	30.0	1.7
Navios	86	241.5	22.5	91	31.7	1.2

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FACSCanto II	103	193.7	16.7	114	23.4	1.2
FACSLyric	103	199.2	16.2	106	23.3	1.0
Navios	82	179.6	18.6	87	23.7	1.1

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FACSCanto II	94	222.0	20.3	105	26.6	1.6
FACSLyric	94	230.2	24.9	99	26.8	1.2
Navios	74	189.7	30.6	81	24.6	2.1

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FACSCanto II	94	116.2	13.2	104	14.0	1.2
FACSLyric	94	115.7	12.3	99	13.5	0.8
Navios	65	110.9	13.7	71	14.5	1.4

**Gating Strategy Specific Statistics**

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
CD45/SSC	315	472.9	43.0	344	57.9	1.7

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
CD4	69	244.9	16.0	32	30.2	1.2
CD45/SSC	317	254.9	24.6	345	31.3	1.3

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
CD45/SSC	311	190.4	19.0	339	23.3	1.1

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
CD45/SSC	284	214.3	29.3	314	26.0	1.8

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
CD45/SSC	272	114.1	13.2	301	13.9	1.2

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All Participant Report

Distribution - 232401

Sample - 381

Participant ID -

Date Issued - 23 May 2023

Closing Date - 13 June 2023

Machine Used - FACSCanto II

Trial Comments

This exercise was issued to 840 participants. Results were returned by 742 participants. This is the final version of the report.

Sample Comments

This sample was made by UK NEQAS LI using stabilised blood

Absolute Values Results and Performance

Cell Population	Your Results (cells/ μ L)	Robust Mean (cells/ μ L)	Robust SD (cells/ μ L)
CD3+ Lymphocytes	1586.66	1515.43	174.82
CD3+/CD4+ Lymphocytes	1128.77	979.47	138.08
CD3+/CD8+ Lymphocytes	421.05	423.08	54.56
CD19+ Lymphocytes	245.64	210.46	31.64
CD16+/CD56+ Lymphocytes	240.76	234.08	27.61

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
CD3+ Lymphocytes	0.41	Satisfactory	12	0	0
CD3+/CD4+ Lymphocytes	1.08	Satisfactory	12	0	0
CD3+/CD8+ Lymphocytes	-0.04	Satisfactory	12	0	0
CD19+ Lymphocytes	1.11	Satisfactory	12	0	0
CD16+/CD56+ Lymphocytes	0.24	Satisfactory	12	0	0

Percentage Values Results and Performance

Cell Population	Your Results %	Robust Mean %	Robust SD %
CD3+ Lymphocytes	75.32	76.63	1.04
CD3+/CD4+ Lymphocytes	52.13	51.85	1.37
CD3+/CD8+ Lymphocytes	19.45	21.38	0.96
CD19+ Lymphocytes	12.00	10.43	0.79
CD16+/CD56+ Lymphocytes	11.76	11.68	0.64

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
CD3+ Lymphocytes	-1.26	Satisfactory	12	0	0
CD3+/CD4+ Lymphocytes	0.20	Satisfactory	12	0	0
CD3+/CD8+ Lymphocytes	-2.01	Satisfactory	11	1	0
CD19+ Lymphocytes	1.99	Satisfactory	12	0	0
CD16+/CD56+ Lymphocytes	0.13	Satisfactory	12	0	0

***z Score Limits Definitions**

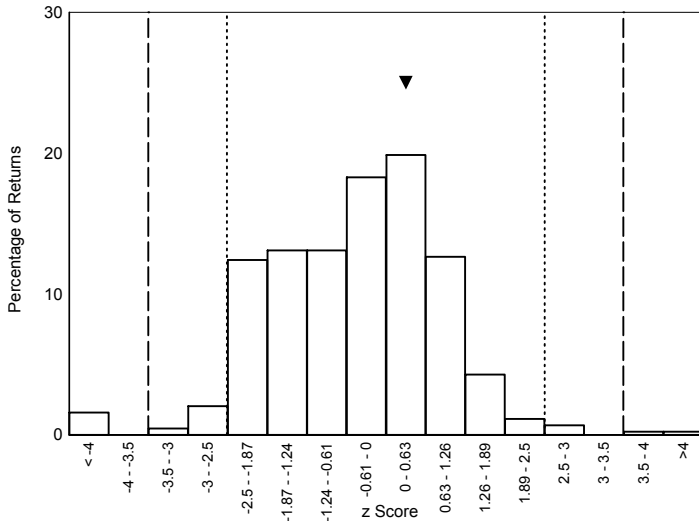
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Histograms of Participant z Scores

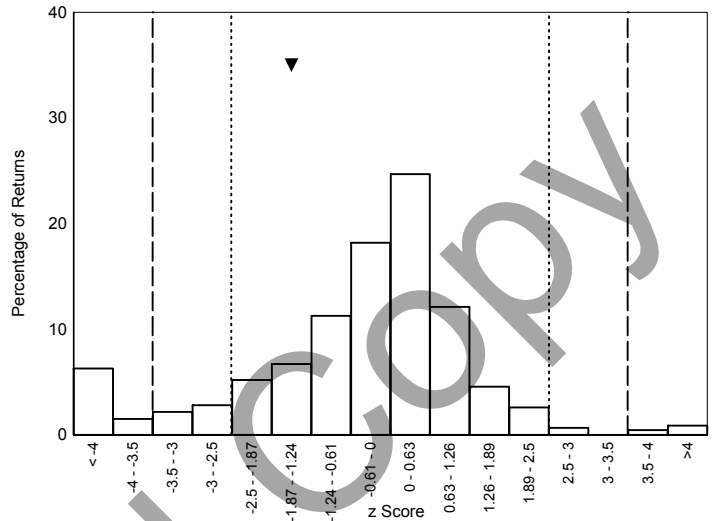
Absolute Values (cells/ μ L) - CD3+ Lymphocytes

Please note ▼ denotes your result



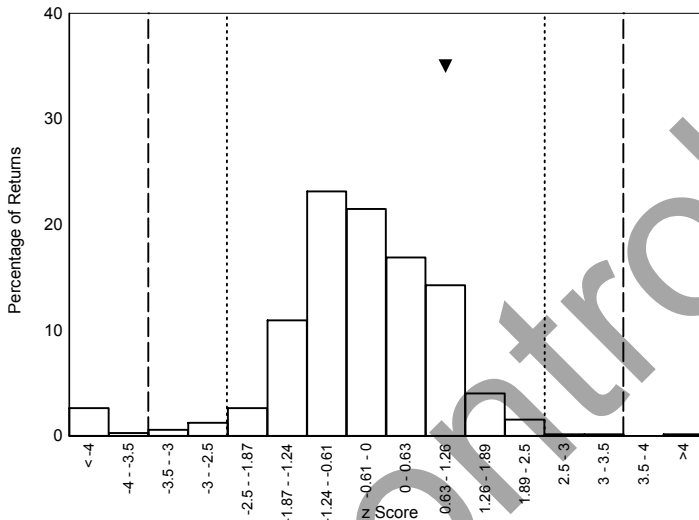
Percentage Values (%) - CD3+ Lymphocytes

Please note ▼ denotes your result



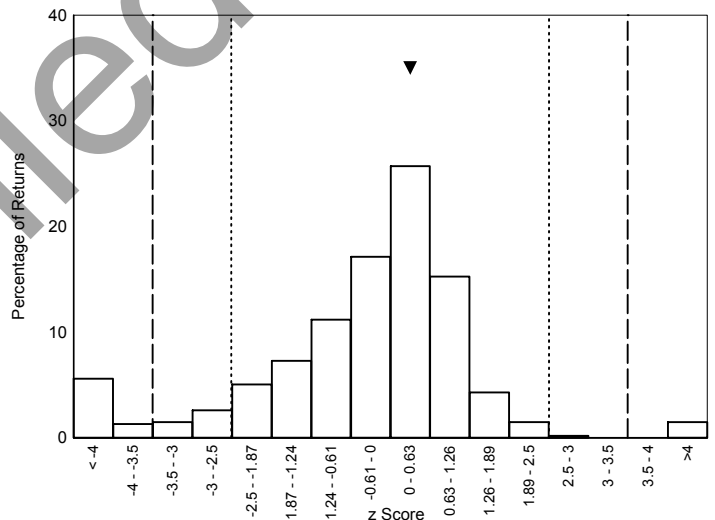
Absolute Values (cells/ μ L) - CD3+/CD4+ Lymphocytes

Please note ▼ denotes your result



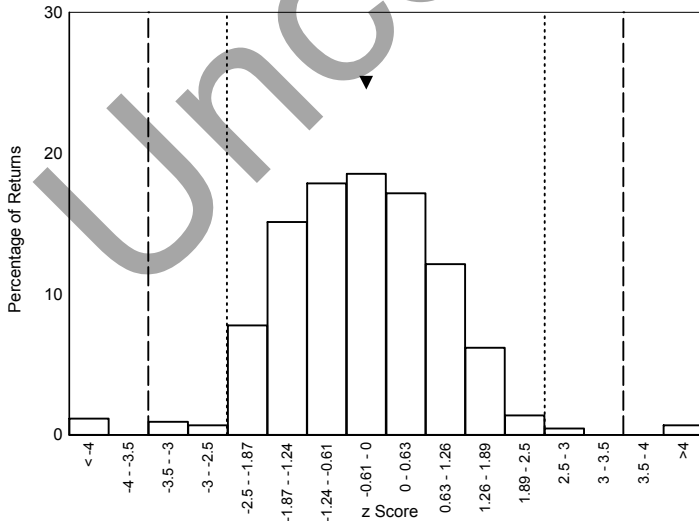
Percentage Values (%) - CD3+/CD4+ Lymphocytes

Please note ▼ denotes your result



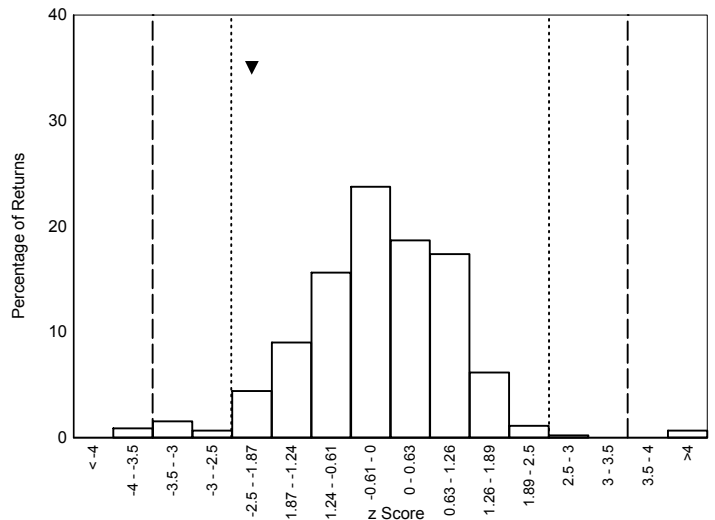
Absolute Values (cells/ μ L) - CD3+/CD8+ Lymphocytes

Please note ▼ denotes your result



Percentage Values (%) - CD3+/CD8+ Lymphocytes

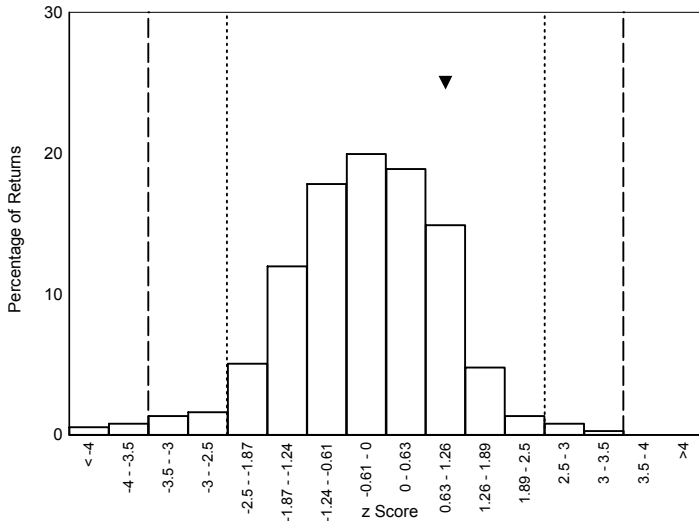
Please note ▼ denotes your result



Histograms of Participant z Scores

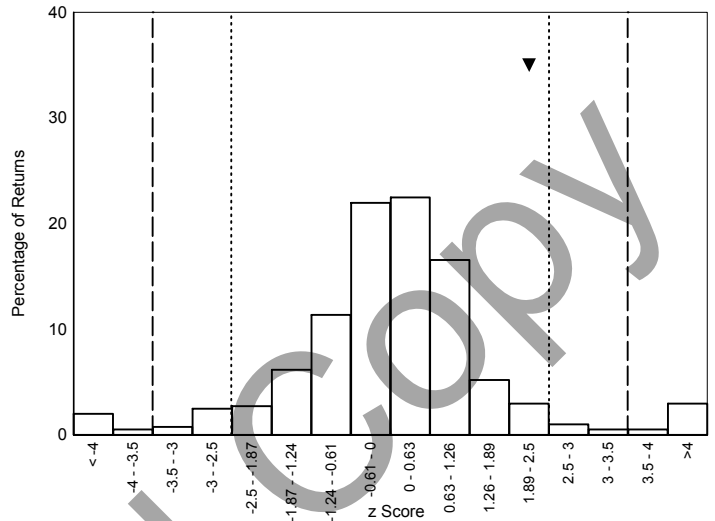
Absolute Values (cells/ μ L) - CD19+ Lymphocytes

Please note ▼ denotes your result



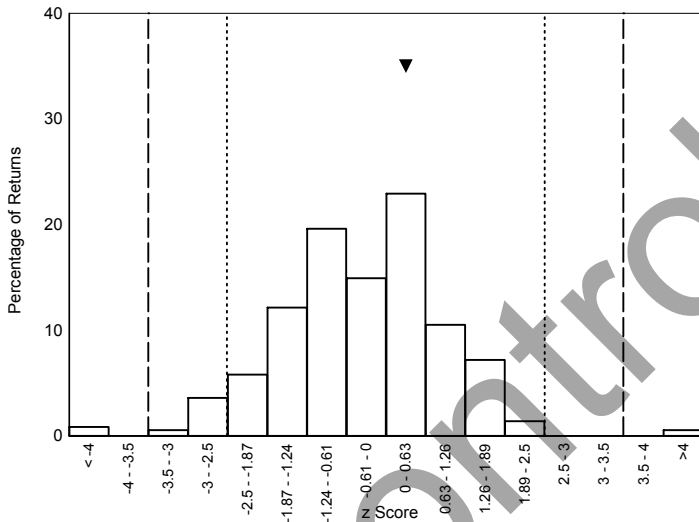
Percentage Values (%) - CD19+ Lymphocytes

Please note ▼ denotes your result



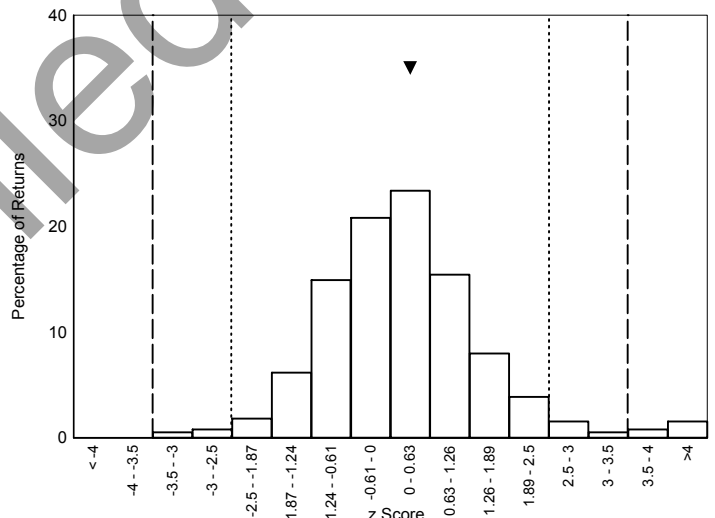
Absolute Values (cells/ μ L) - CD16+/CD56+ Lymphocytes

Please note ▼ denotes your result



Percentage Values (%) - CD16+/CD56+ Lymphocytes

Please note ▼ denotes your result

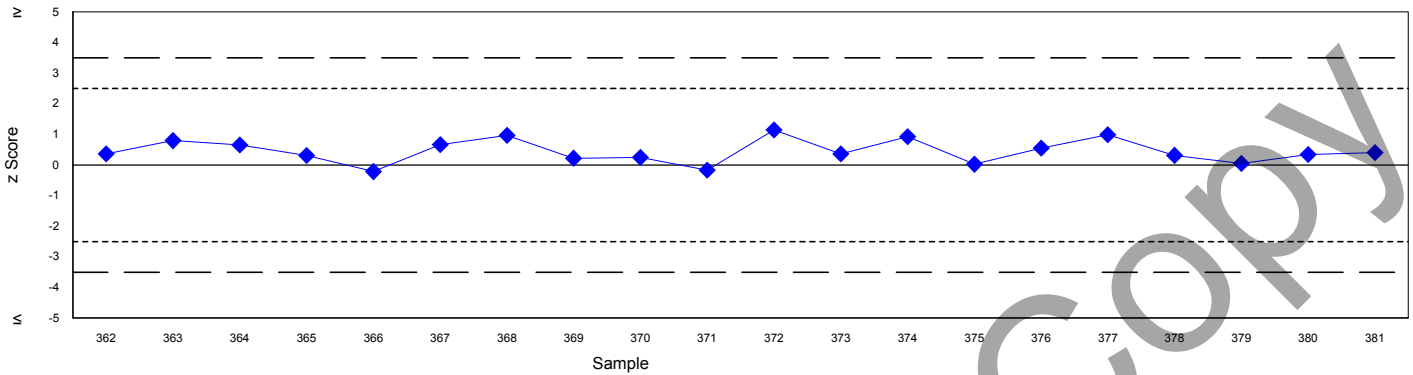


Shewhart Control Charts

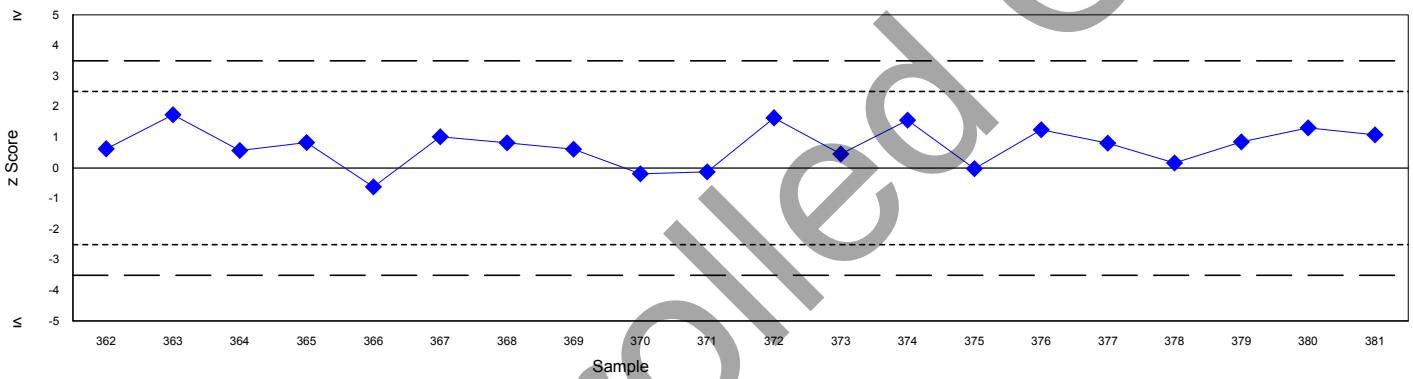
(Please note each data point represents a single sample)

Absolute Values (cells/ μ L)

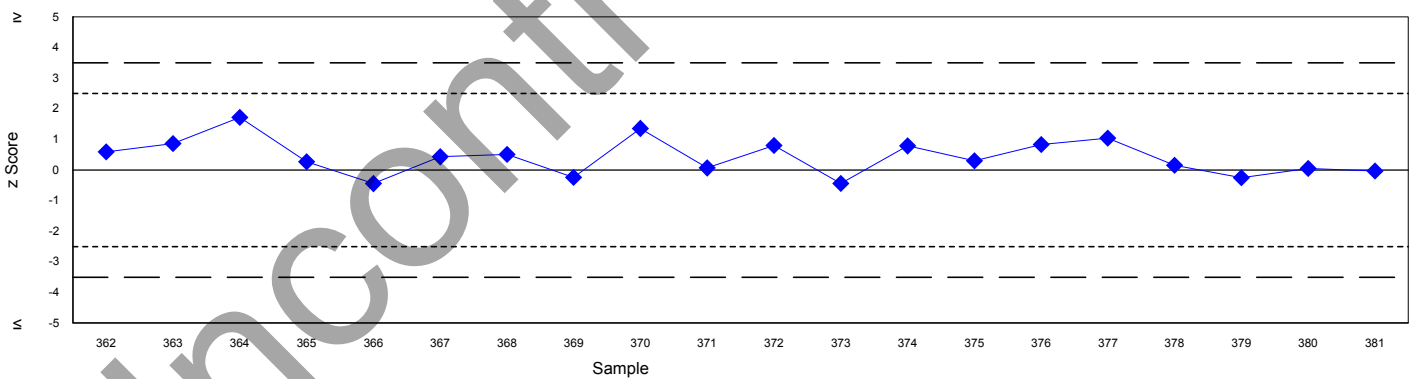
CD3+ Lymphocytes



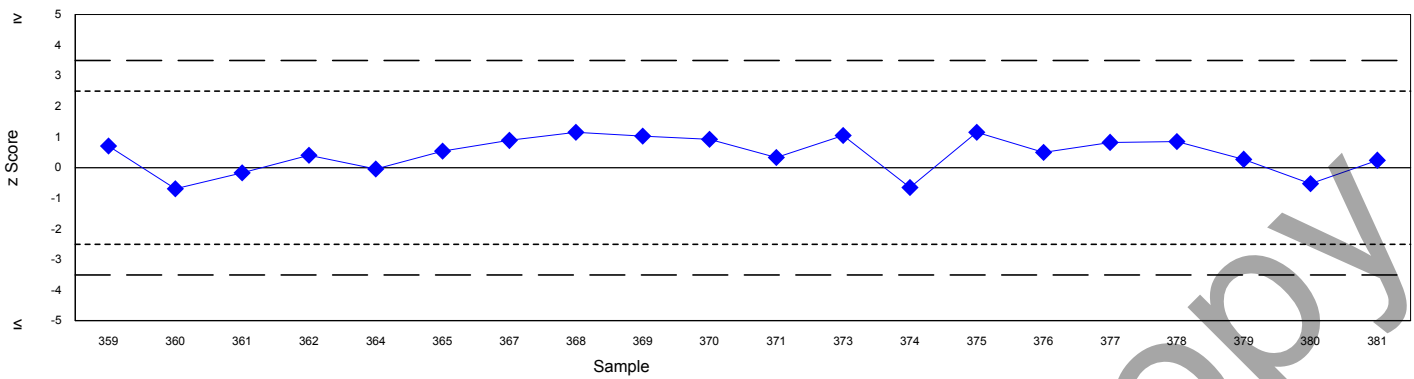
CD3+/CD4+ Lymphocytes



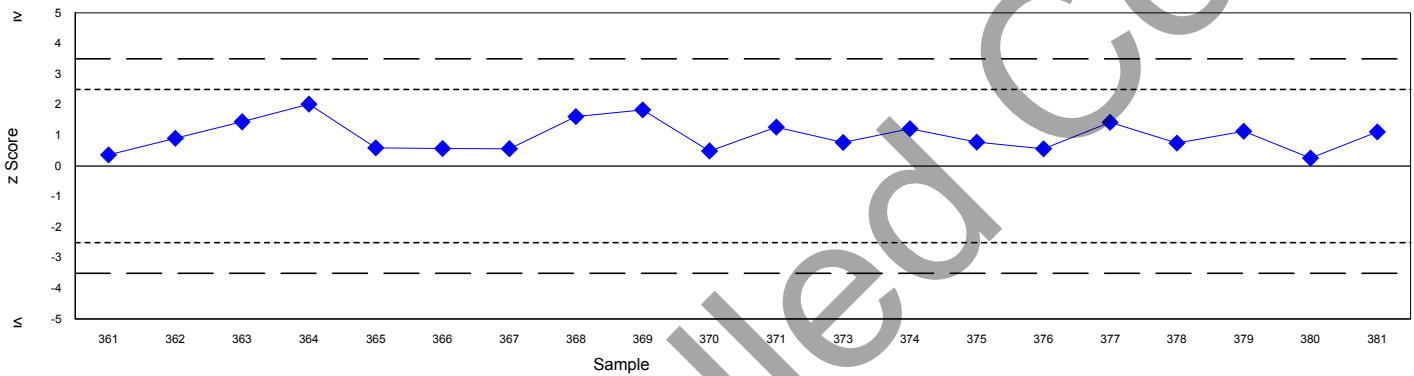
CD3+/CD8+ Lymphocytes



CD16+/CD56+ Lymphocytes



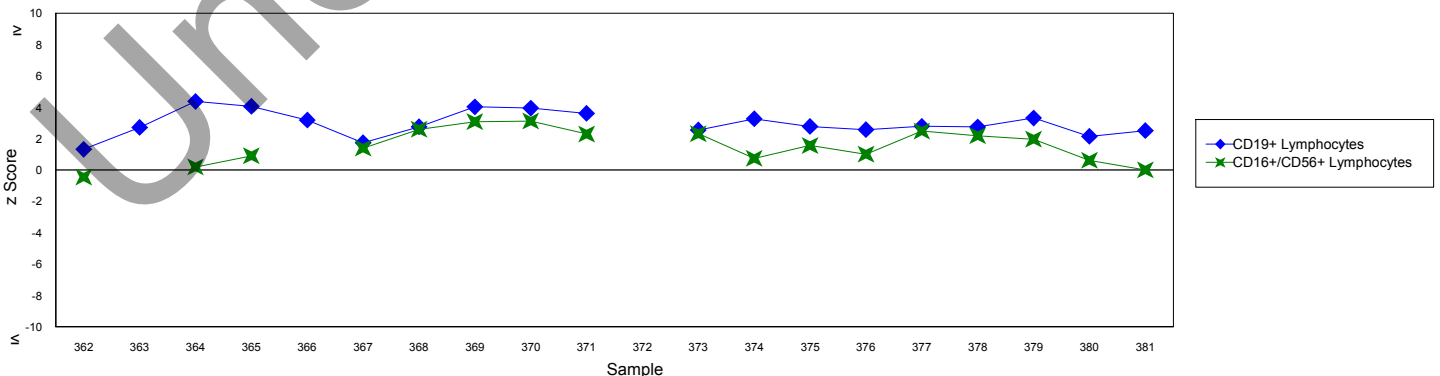
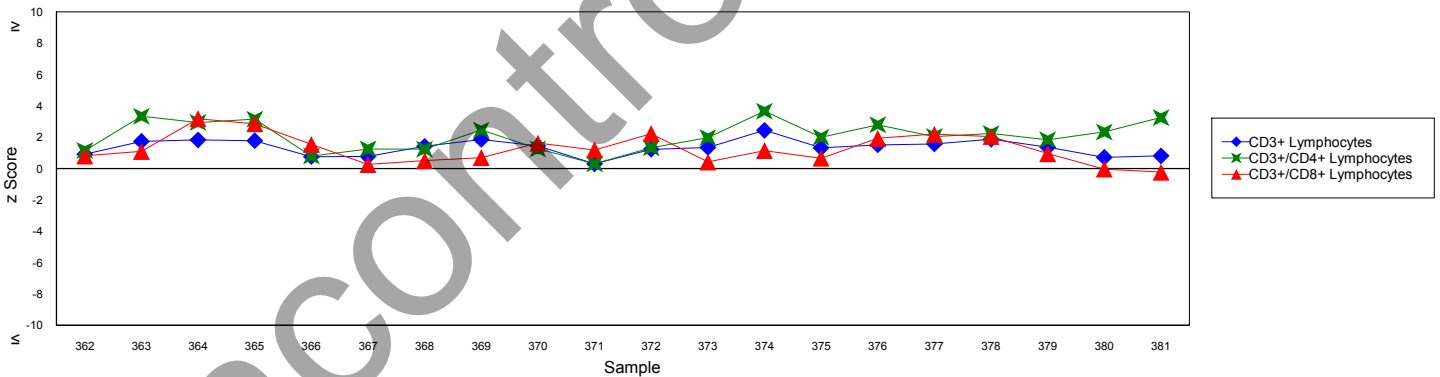
CD19+ Lymphocytes



Cusum Control Charts

(Please note each data point represents the sum of the z scores of the current sample and the two previous samples)

Absolute Values (cells/ μ L)

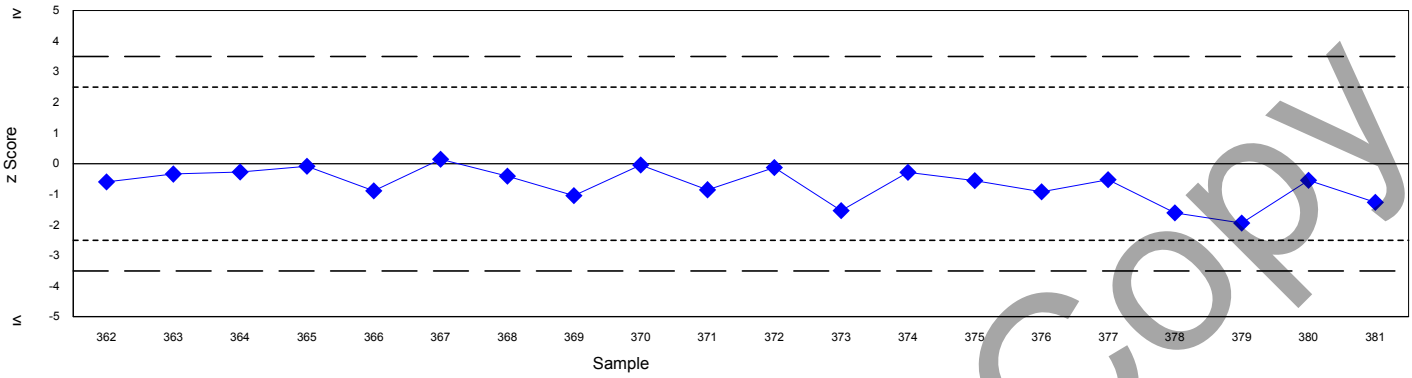


Shewhart Control Charts

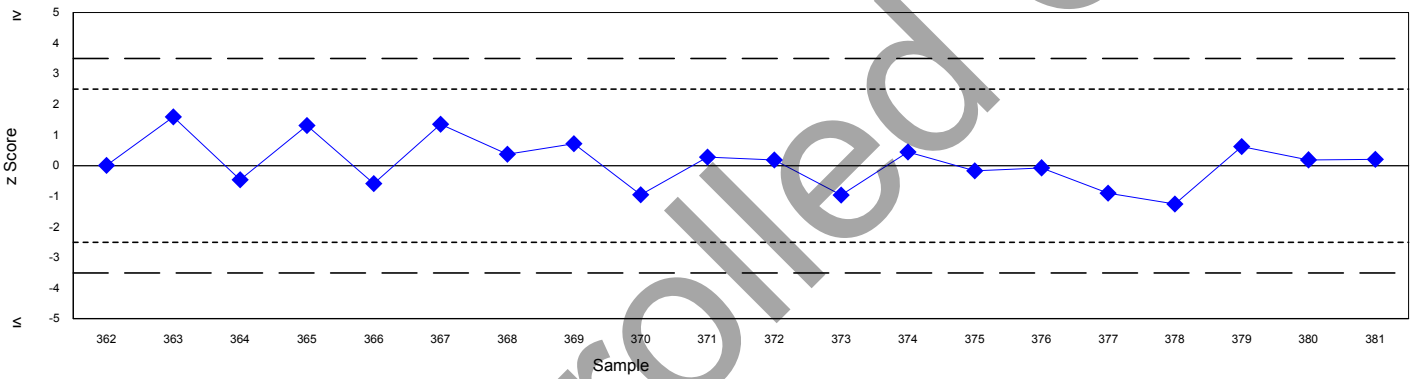
(Please note each data point represents a single sample)

Percentage Values (%)

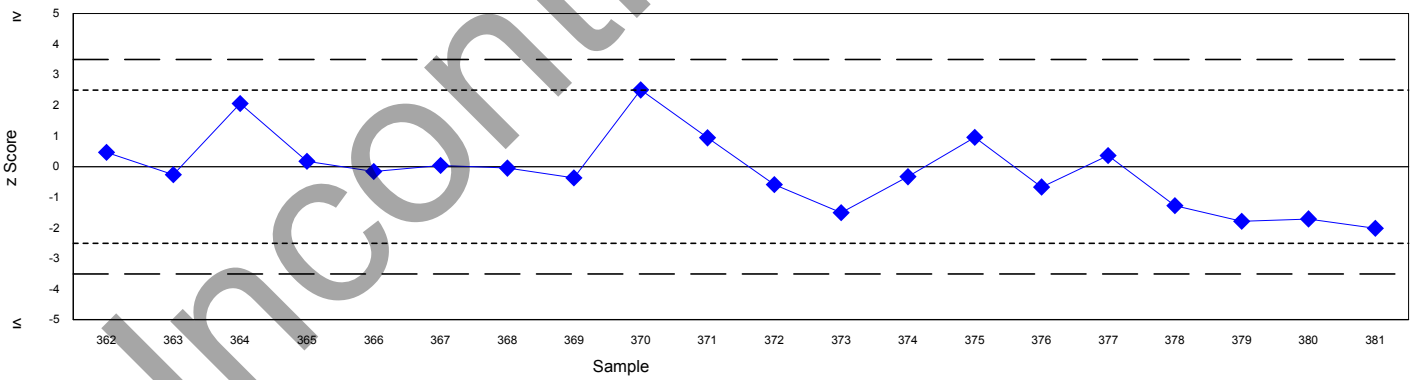
CD3+ Lymphocytes



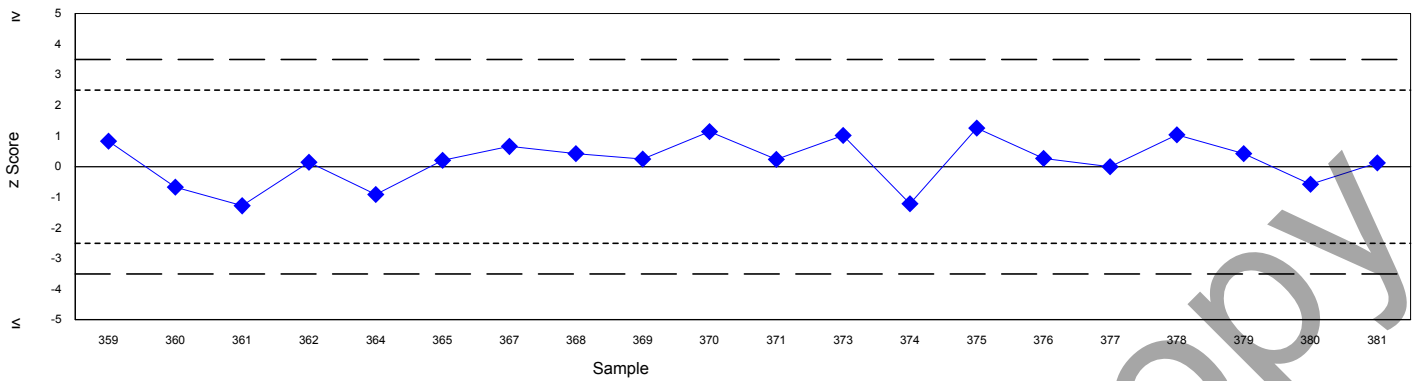
CD3+/CD4+ Lymphocytes



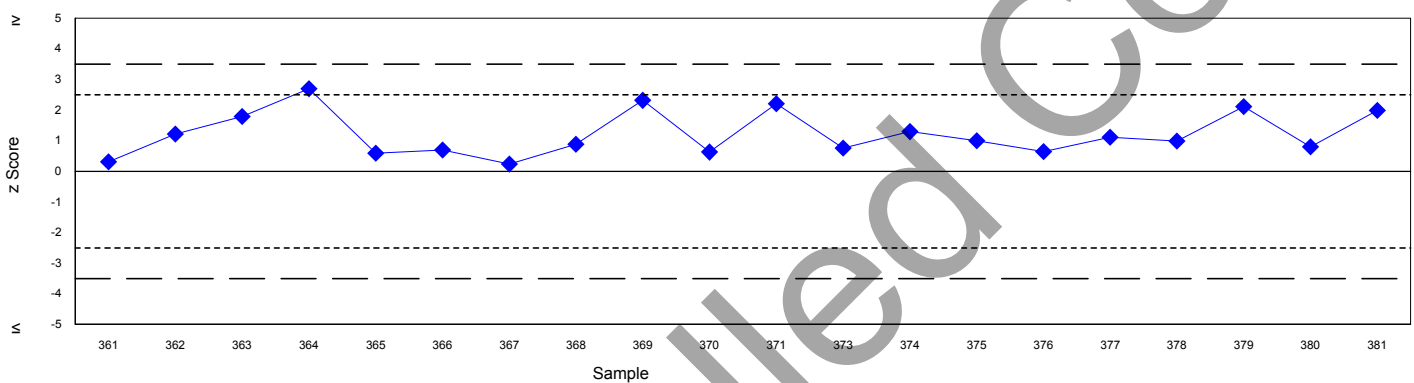
CD3+/CD8+ Lymphocytes



CD16+/CD56+ Lymphocytes



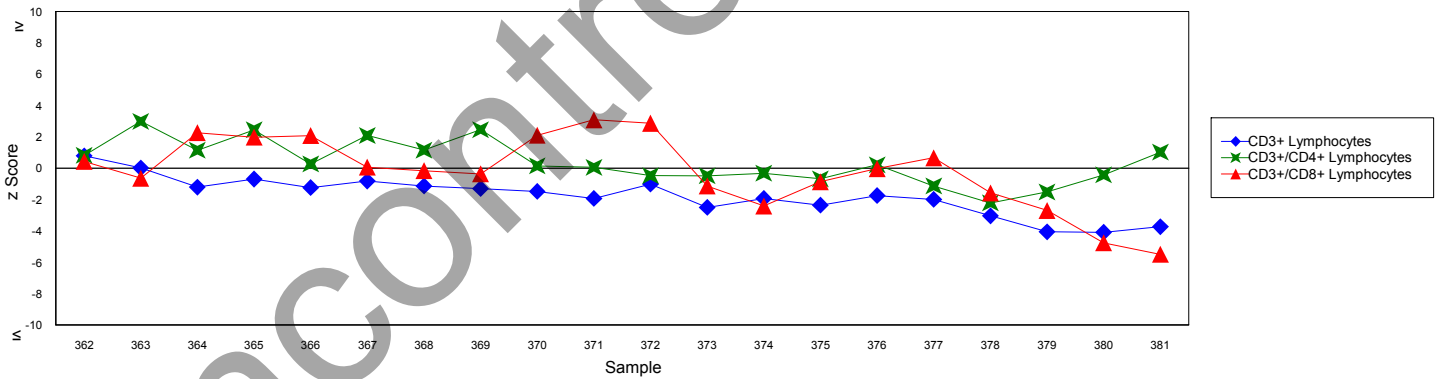
CD19+ Lymphocytes



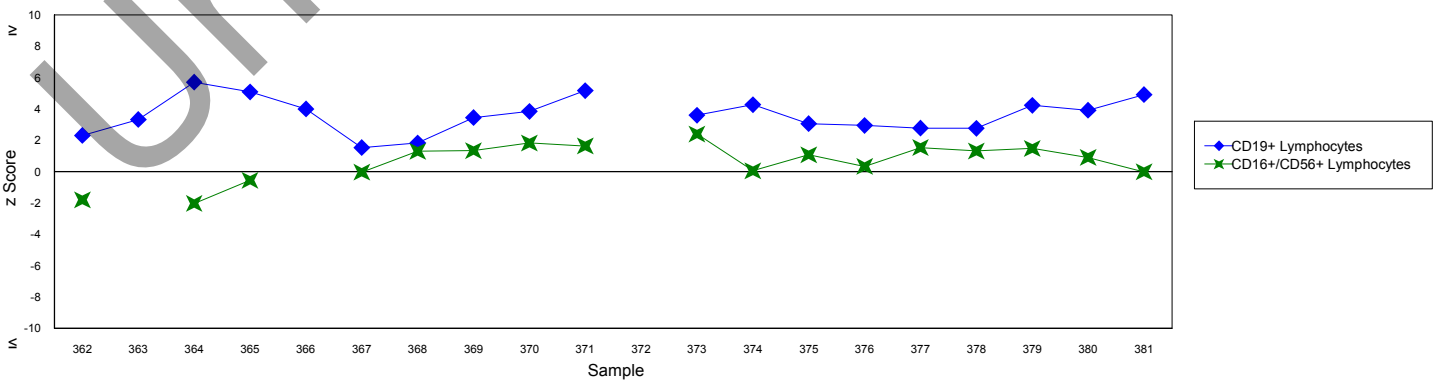
Cusum Control Charts

(Please note each data point represents the sum of the z scores of the current sample and the two previous samples)

Percentage Values (%)



Percentage Values (%)



Platform Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FLOW COUNT	91	1396.8	150.5	89	76.8	0.9
HAEM. WBC	18	1376.1	124.6	25	76.6	1.1
TRUCOUNT	208	1578.3	140.3	204	76.5	1.0

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FLOW COUNT	98	940.8	107.3	92	52.3	1.1
HAEM. WBC	18	929.8	81.0	25	52.1	1.0
OTHER	57	885.7	85.0	39	48.9	3.9
TRUCOUNT	206	1070.7	96.8	201	52.0	1.0

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FLOW COUNT	87	390.1	43.8	85	21.5	0.8
HAEM. WBC	18	378.3	30.7	25	21.5	0.8
TRUCOUNT	203	439.7	48.9	200	21.3	1.0

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FLOW COUNT	75	184.1	26.7	76	10.0	0.8
HAEM. WBC	16	177.8	18.6	23	10.1	1.0
TRUCOUNT	184	222.0	25.1	181	10.7	0.6

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FLOW COUNT	67	215.9	24.2	68	11.8	0.6
HAEM. WBC	16	210.2	17.0	23	11.8	1.1
TRUCOUNT	184	241.1	24.4	181	11.6	0.6

Antibody Manufacturer Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
BD Biosciences	233	1562.4	154.0	248	76.6	1.0
Beckman Coulter	108	1388.1	153.8	112	76.8	1.1

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
BD Biosciences	296	1017.9	136.4	283	51.9	1.2
Beckman Coulter	107	939.9	111.6	112	52.3	1.2

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
BD Biosciences	233	434.8	51.2	246	21.3	1.0
Beckman Coulter	102	386.2	40.5	107	21.5	0.9

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
BD Biosciences	203	219.0	26.5	218	10.6	0.7
Beckman Coulter	93	181.2	30.3	103	10.0	0.9

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
BD Biosciences	205	239.1	26.5	221	11.7	0.7
Beckman Coulter	78	214.9	24.6	85	11.7	0.6

Antibody Fluorochrome Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FITC	241	1561.2	157.3	250	76.5	1.0
PC5	55	1356.3	187.7	55	77.0	0.9

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
APC	90	1039.4	115.7	91	51.9	1.0
PE	59	917.6	97.9	53	52.0	1.5
PE-CY5	27	868.2	71.7	21	47.2	3.3
PE-CY7	151	1063.0	106.7	157	52.1	0.9
RD1	46	937.5	122.5	44	52.6	0.8

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
APC-Cy7	145	436.5	51.0	151	21.2	1.0
ECD	67	381.1	40.2	68	21.5	0.8
PE	83	439.4	52.4	88	21.6	0.9

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
APC	203	219.3	26.9	210	10.7	0.7
ECD	60	181.2	28.2	63	10.0	0.9
PE-CY7	11	173.7	32.6	22	9.5	0.8

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
PE	242	236.3	28.0	261	11.7	0.6
RD1	27	212.2	21.1	28	11.8	0.6

Flow Cytometer Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FACSCanto II	106	1546.9	122.1	117	76.4	1.0
FACSLyric	103	1598.2	156.7	106	76.8	0.9
Navios	86	1382.7	158.0	90	76.9	1.2

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FACSCanto II	103	1059.2	75.3	114	52.1	1.0
FACSLyric	103	1083.3	105.0	106	52.1	0.9
FACSPresto	128	877.0	80.2	63	47.4	3.2
Navios	86	935.4	104.1	91	52.4	1.2

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FACSCanto II	103	435.3	47.7	114	21.5	0.9
FACSLyric	103	442.6	52.5	106	21.3	1.0
Navios	82	384.5	40.6	87	21.6	0.8

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FACSCanto II	94	219.2	23.1	105	10.7	0.8
FACSLyric	94	222.2	28.5	99	10.7	0.6
Navios	74	182.1	32.8	81	10.0	0.9

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FACSCanto II	94	238.3	20.5	104	11.7	0.7
FACSLyric	94	242.9	26.6	99	11.6	0.6
Navios	65	214.3	25.7	71	11.7	0.6

Gating Strategy Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
CD45/SSC	315	1509.9	174.5	344	76.6	1.0

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
CD4	70	898.8	74.9	33	48.0	2.6
CD45/SSC	317	1023.2	123.6	345	52.2	1.0

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
CD45/SSC	311	420.1	55.2	339	21.4	1.0

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
CD45/SSC	284	207.6	33.0	314	10.4	0.8

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
CD45/SSC	272	232.8	28.5	301	11.7	0.6

Information with respect to compliance with standards BS EN ISO/IEC 17043:2010

4.8.2 a) The proficiency testing provider for this programme is:

UK NEQAS for Leucocyte Immunophenotyping

Pegasus House, 4th Floor Suite

463A Glossop Road

Sheffield, S10 2QD

United Kingdom

Tel: +44 (0) 114 267 3600

e-mail: amanda.newbould@ukneqasli.co.uk

4.8.2 b) The coordinators of UK NEQAS LI programmes are Mr Liam Whitby (Director) and Mr Stuart Scott (Centre Manager).

4.8.2 c) Person(s) authorizing this report:

Mr Liam Whitby (Director) or Mr Stuart Scott (Centre Manager) of UK NEQAS LI.

4.8.2 d) No activities in relation to this EQA exercise were subcontracted.

4.8.2 g) The UK NEQAS LI Confidentiality Policy can be found in the Quality Manual which is available by contacting the UK NEQAS LI office. Participant details, their results and their performance data remain confidential unless revealed to the relevant NQAAP when a UK participant is identified as having performance issues.

4.8.2 i) All EQA samples are prepared in accordance with strict Standard Operational Procedures by trained personnel proven to ensure homogeneity and stability. Where appropriate/possible EQA samples are tested prior to issue. Where the sample(s) issued is stabilised blood or platelets, pre and post stability testing will have proved sample suitability prior to issue.

4.8.2 l), n), o), r) & s) Please refer to the UK NEQAS LI website at www.ukneqasli.co.uk for detailed information on each programme including the scoring systems applied to assess performance (for BS EN ISO/IEC 17043:2010 accredited programmes only). Where a scoring system refers to the 'consensus result' this means the result reported by the majority of participants for that trial issue. Advice on the interpretation of statistical analyses and the criteria on which performance is measured is also given. Please note that where different methods/procedures are used by different groups of participants these may be displayed within your report, but the same scoring system is applied to all participants irrespective of method/procedure used.

4.8.2 m) We do not assign values against reference materials or calibrants.

4.8.2 q) Details of the programme designs as authorized by The Steering Committee and Specialist Advisory Group can be found on our website at www.ukneqasli.co.uk. The proposed trial issue schedule for each programme is also available.

4.8.2 t) If you would like to discuss the outcomes of this trial issue, please contact UK NEQAS LI using the contact details provided. Alternatively, if you are unhappy with your performance classification for this trial, please find the appeals procedure at www.ukneqasli.co.uk/contact-us/appeals-and-complaints/

4.8.4) The UK NEQAS LI Policy for the Use of Reports by Individuals and Organisations states that all EQA reports are subject to copyright, and, as such, permission must be sought from UK NEQAS LI for the use of any data and/or reports in any media prior to use. See associated policy on the UK NEQAS LI website: <http://www.ukneqasli.co.uk/eqa-pt-programmes/new-participant-information/>