Leukaemia Immunophenotyping (Part 1) Programme

Sample - 141501

Distribution -

Closing Date -

Participant ID -

Date Issued -

Trial Comments

The LI 141501 sample was issued to all participants for flow cytometric analysis.

Sample Comments

The sample was manufactured by UK NEQAS using a sample of blood from a leukaemia patient which was stabilised and added to a stabilised unit of whole blood.

Results and Performance

Overall Performance Grade (Core Antigens Only)	Performance Status for this Sample	Performance Status Classification Over 6 Sample Period	
		Satisfactory (Grades A-C)	Critical (Grades D-G)
A	Satisfactory	6	0

Please note performance monitoring for this programme is semi-qualitative and is based on the overall performance grade obtained from the consensus immunophenotype on the core antigens. The robust statistics and z-scores provided below are related to technical performance on individual antigens and are not used for performance monitoring. Derivation of z-scores requires normally distributed data and the results for this programme vary between normal and abnormal distribution based on the antigens and on a sample to sample basis. Therefore z-scores for antigens with expressions at the extremes of the results scale (around 0% and 100%) may not truly reflect the performance of the antigen and all z-scores should be viewed as for information purposes only.

Antigen	Your Results (%)	Your Result Antigen Expres (Positive/Negative)	Consensus Antigen Expression (Positive/Negative)	Robust Mean (%)	Robust SD (%)
CD2	1.00	-	-	1.28	1.48
CD3	1.00	-	-	1.35	1.50
CD5	1.00	-	-	1.37	1.48
CD13	3.00	-	-	2.61	2.83
CD19	95.00	+	+	92.12	8.12
CD20	70.00	+	+	74.99	19.39
CD10	94.00	+	+	89.68	8.81
CD22	95.00	+	+	84.42	14.60
CD79a	0.00	-	-	4.24	3.84
TDT	92.00	+	+	86.23	11.18
CD7	1.00	-	-	1.22	1.43
CD33	1.00	-	-	1.37	1.57
HLADR	97.00	+	+	95.87	3.79
CD38	97.00	+	+	93.64	5.65
CD117			-	0.00	0.00
Myeloperox			-		
CD45			+	100.00	0.00
CD34			-	8.37	6.44

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Antigen	z Score*	Performance Status for this Sample	Performance Status Classification Over 6 Sample Period		
			Satisfactory	Action	Critical
CD2	-0.19	Satisfactory	6	0	0
CD3	-0.23	Satisfactory	6	0	0
CD5	-0.25	Satisfactory	6	0	0
CD13	0.14	Satisfactory	4	0	1
CD19	0.35	Satisfactory	6	0	0
CD20	-0.26	Satisfactory	6	0	0
CD10	0.49	Satisfactory			
CD22	0.72	Satisfactory			
CD79a	-1.10	Satisfactory			
TDT	0.52	Satisfactory			
CD7	-0.15	Satisfactory			
CD33	-0.24	Satisfactory			
HLADR	0.30	Satisfactory			
CD38	0.59	Satisfactory			
CD117					
Myeloperox					
CD45					
CD34					

***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.

Leukaemia Immunophenotyping (Part 1) Programme

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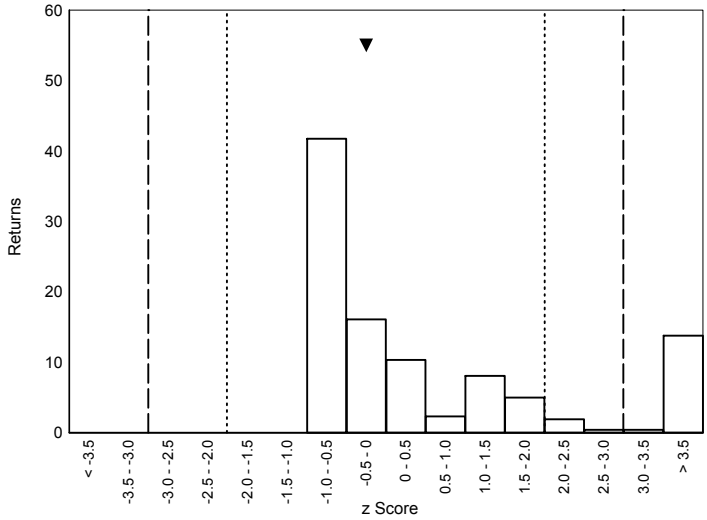
Histograms of Participant z Scores

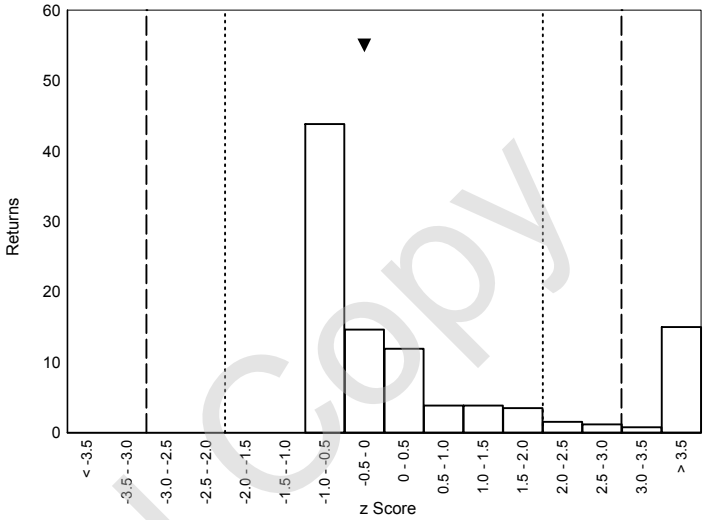
Percentage Values (%) - CD3

Please note ▼ denotes your result



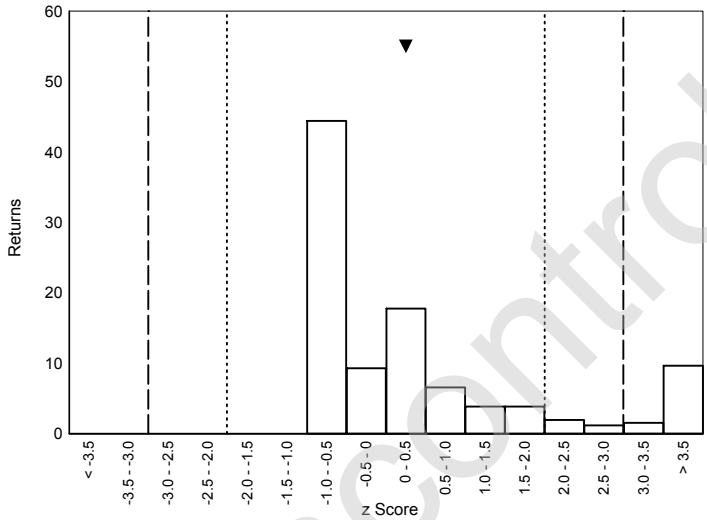
Percentage Values (%) - CD2

Please note ▼ denotes your result



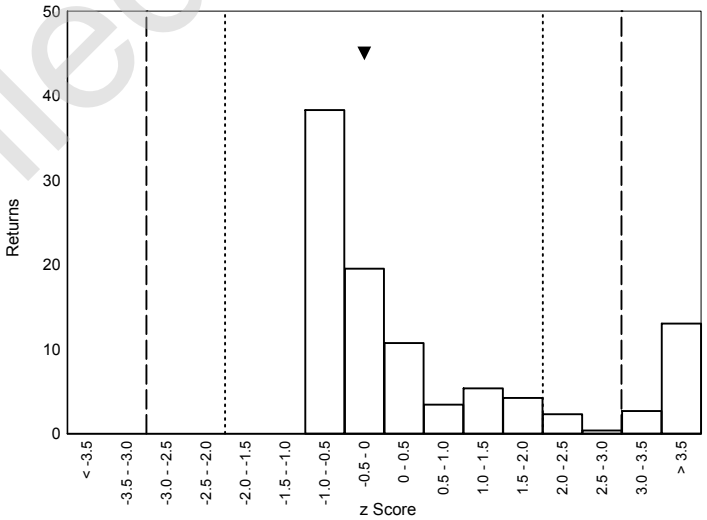
Percentage Values (%) - CD13

Please note ▼ denotes your result



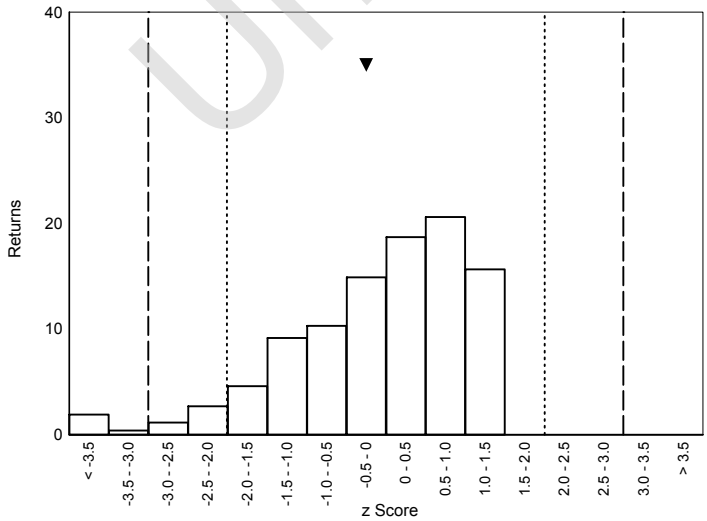
Percentage Values (%) - CD5

Please note ▼ denotes your result



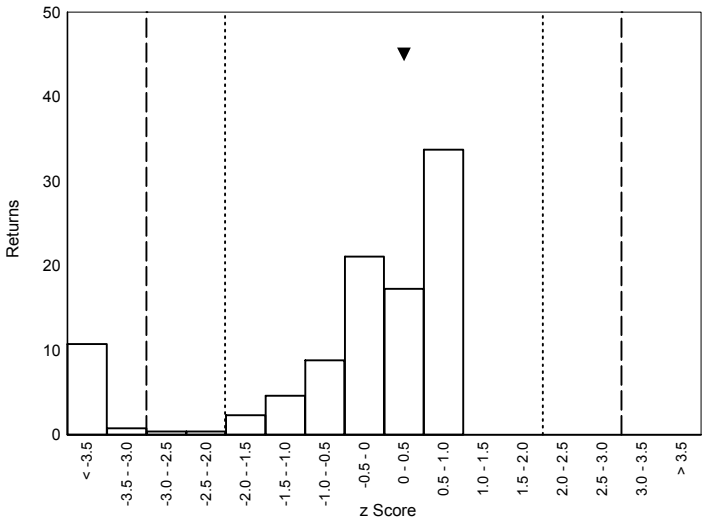
Percentage Values (%) - CD20

Please note ▼ denotes your result



Percentage Values (%) - CD19

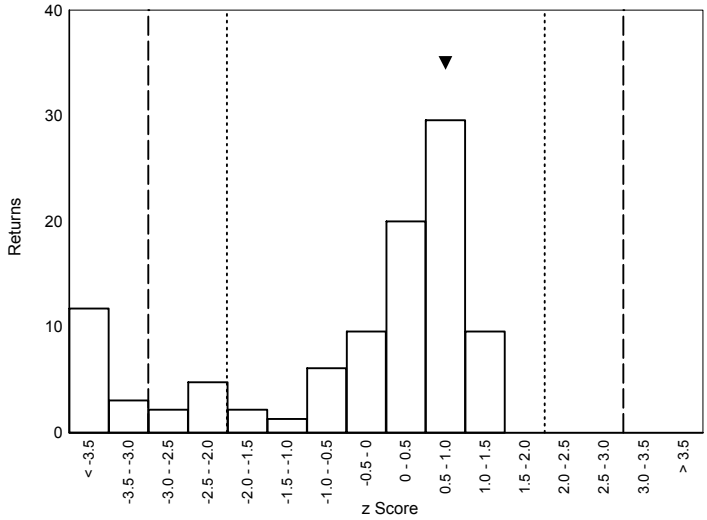
Please note ▼ denotes your result



Histograms of Participant z Scores

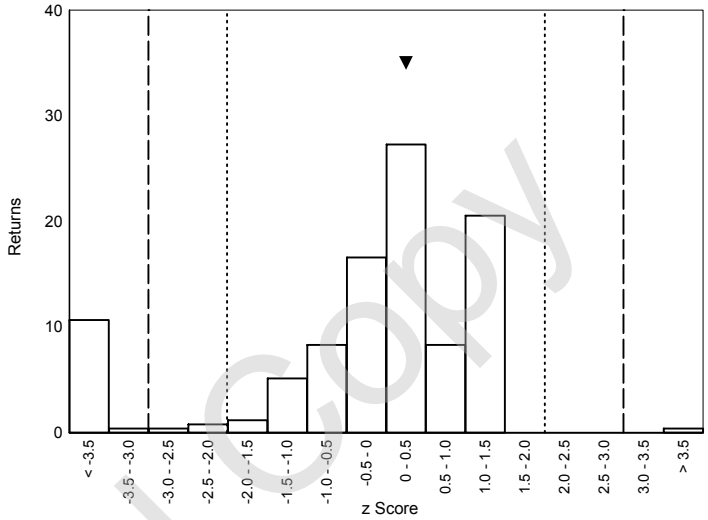
Percentage Values (%) - CD22

Please note ▼ denotes your result



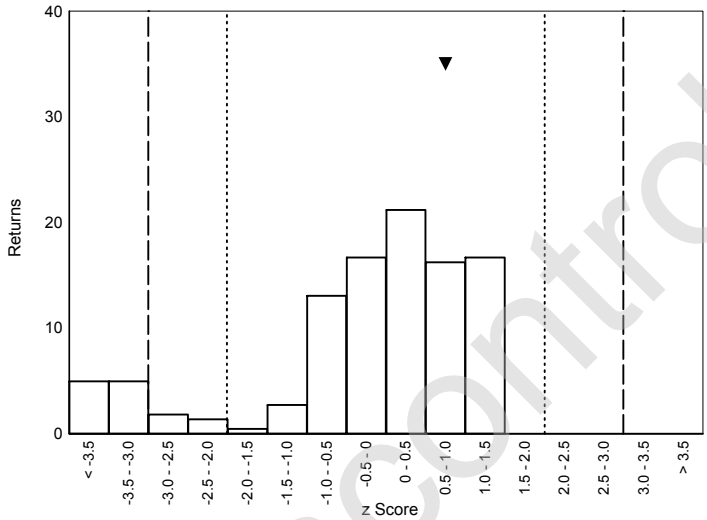
Percentage Values (%) - CD10

Please note ▼ denotes your result



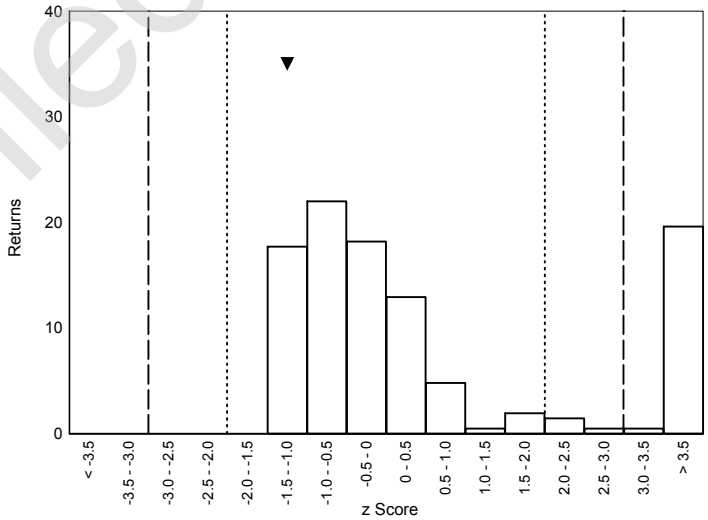
Percentage Values (%) - TDT

Please note ▼ denotes your result



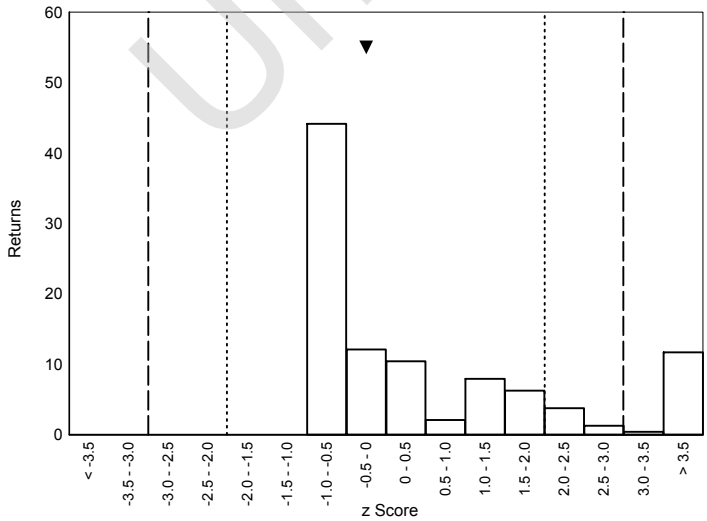
Percentage Values (%) - CD79a

Please note ▼ denotes your result



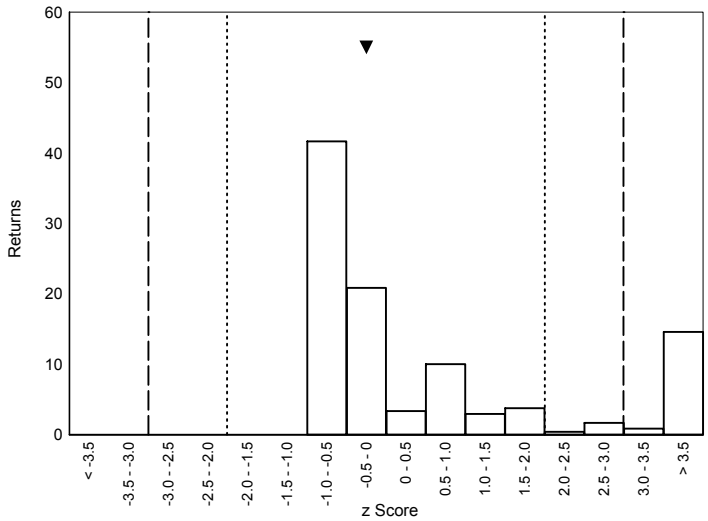
Percentage Values (%) - CD33

Please note ▼ denotes your result



Percentage Values (%) - CD7

Please note ▼ denotes your result



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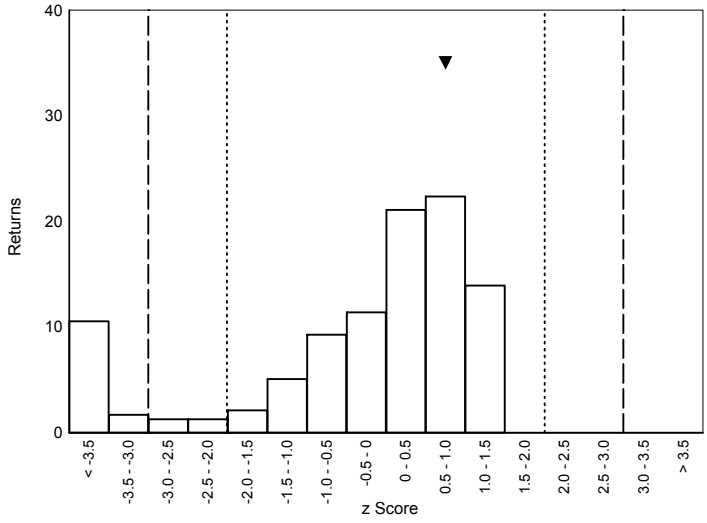
Histograms of Participant z Scores

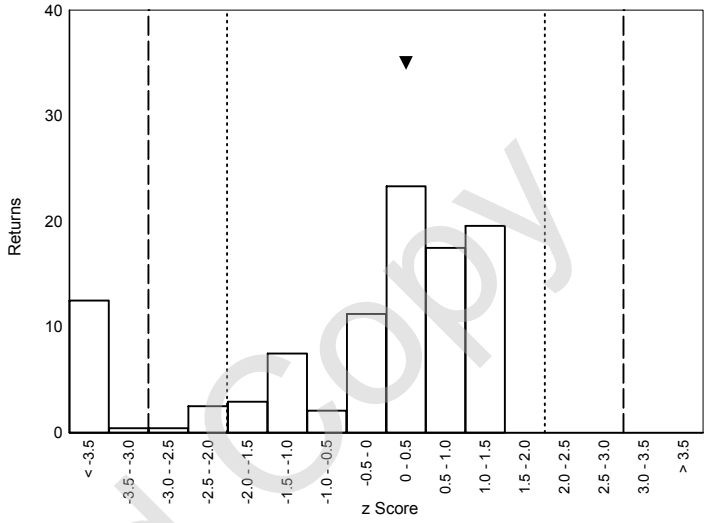
Percentage Values (%) - CD38

Please note ▼ denotes your result



Percentage Values (%) - HLADR

Please note ▼ denotes your result



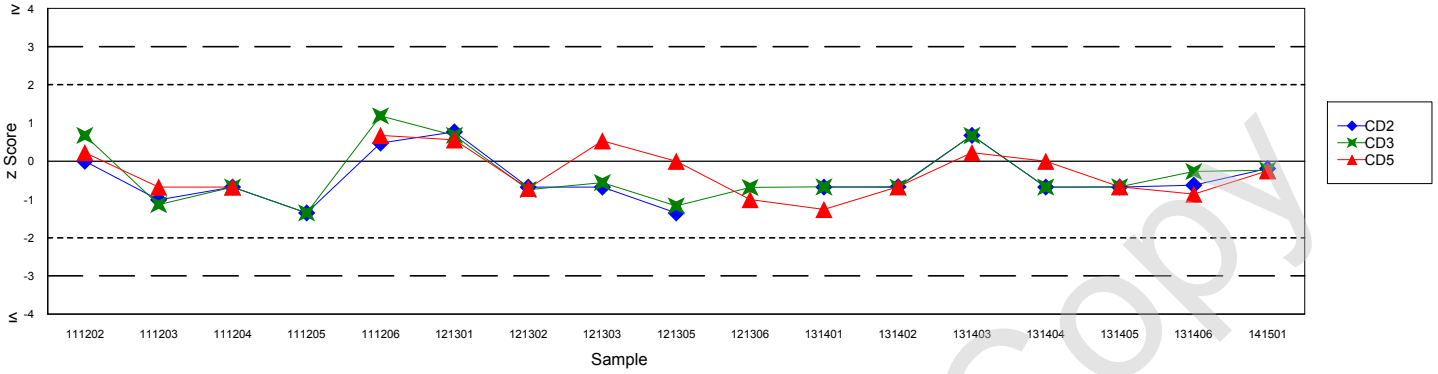
Leukaemia Immunophenotyping (Part 1) Programme

Sample - 141501

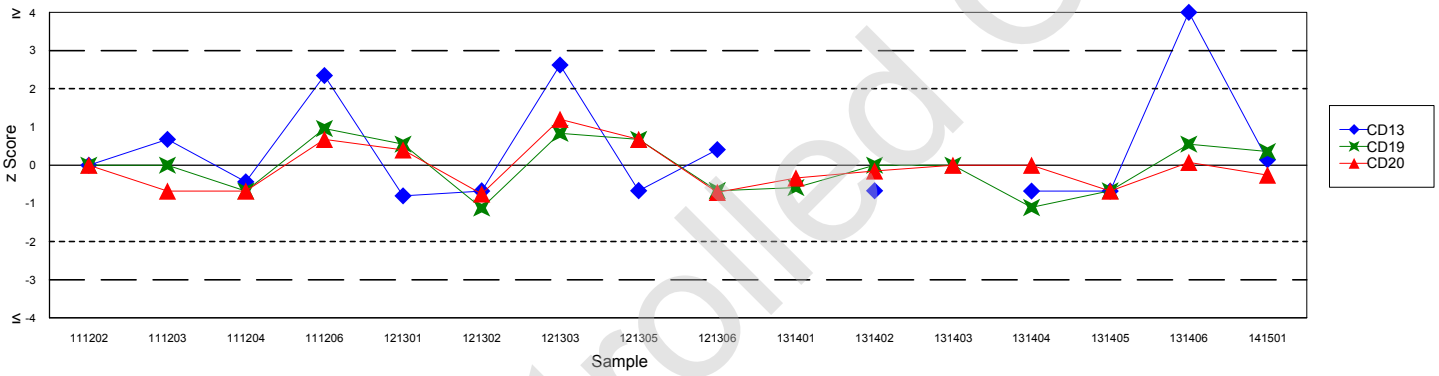
Shewhart Control Charts

(Please note each data point represents a single sample)

Percentage Values (%)



Percentage Values (%)



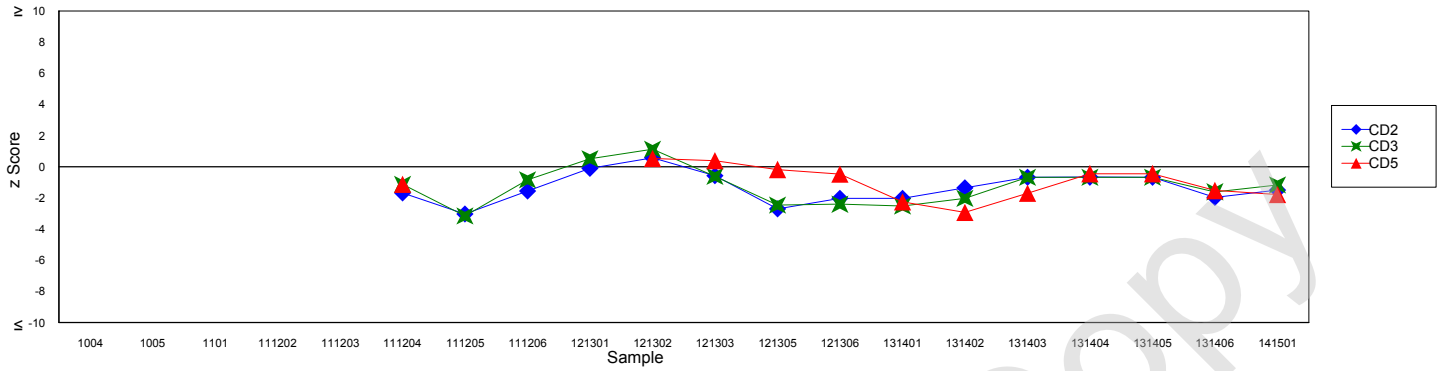
Leukaemia Immunophenotyping (Part 1) Programme

Sample - 141501

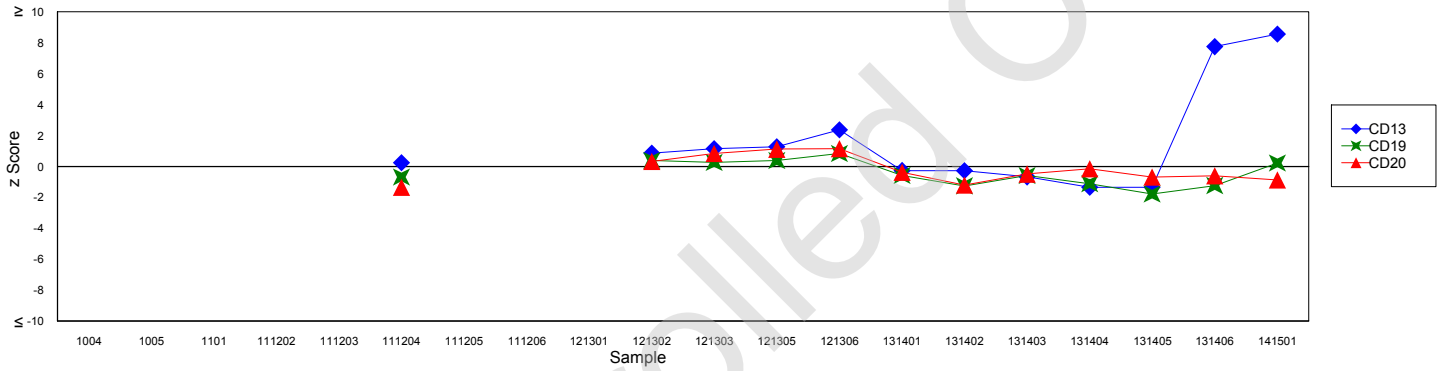
Cusum Control Charts

(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 (%)



Leukaemia Immunophenotyping (Part 1) Programme

Sample - 141501

Antibody Manufacturer Specific Statistics

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

CD2	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
BD Biosciences	132	0.7	0.8
Beckman Coulter	88	1.8	2.1

CD3	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
BD Biosciences	135	1.1	1.3
Beckman Coulter	87	1.5	1.5

CD5	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
BD Biosciences	138	1.1	1.4
Beckman Coulter	86	1.7	1.7

CD10	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
BD Biosciences	127	90.3	8.3
Beckman Coulter	85	89.6	8.6

CD13	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
BD Biosciences	138	2.5	2.9
Beckman Coulter	80	3.2	3.2

CD19	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
BD Biosciences	114	92.6	7.4
Beckman Coulter	106	92.4	7.8

CD22	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
BD Biosciences	129	89.8	9.7
Beckman Coulter	68	72.4	25.1

CD79a	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
BD Biosciences	80	2.9	3.0
Beckman Coulter	60	5.8	4.5
Dako	44	4.7	3.7

Leukaemia Immunophenotyping (Part 1) Programme

Sample - 141501

Antibody Manufacturer Specific Statistics

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

TDT	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
BD Biosciences	51	83.1	14.1
Beckman Coulter	60	86.5	9.3
Dako	79	87.8	11.0

CD7	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
BD Biosciences	118	0.7	0.8
Beckman Coulter	84	1.7	1.6

CD33	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
BD Biosciences	128	0.6	0.7
Beckman Coulter	79	2.1	2.2

CD34	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
BD Biosciences	46	10.8	7.7
Beckman Coulter	27	6.1	5.2

HLADR	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
BD Biosciences	128	96.6	3.1
Beckman Coulter	68	95.7	3.3

CD20	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
BD Biosciences	131	79.8	15.0
Beckman Coulter	85	70.2	22.7

CD38	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
BD Biosciences	123	93.6	5.8
Beckman Coulter	69	94.6	4.5

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Antibody Fluorochrome Specific Statistics

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

CD2	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
APC	30	1.7	1.9
FITC	109	0.8	0.9
PE	52	0.8	1.0
PE-CY7	43	2.0	2.2

CD3	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
APC	32	1.3	1.3
ECD	26	2.7	3.1
FITC	48	1.2	1.5
PE	26	2.6	3.0
PerCP-CY5.5	26	1.1	1.3

CD5	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
APC	36	0.9	1.0
FITC	61	2.0	2.1
PE	44	1.4	1.5
PE-CY7	36	1.5	1.5
PerCP-CY5.5	25	0.0	0.0

CD10	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
APC	40	90.4	8.5
FITC	42	86.1	11.4
PE	104	90.8	8.0
PE-CY7	31	90.9	7.7

CD13	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
PE	180	2.8	3.1
PE-CY7	24	2.4	2.4

CD19	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
APC	39	92.7	7.5
ECD	27	90.4	7.3
PE	32	87.0	13.1
PE-CY7	63	93.9	6.8

Leukaemia Immunophenotyping (Part 1) Programme

Sample - 141501

Antibody Fluorochrome Specific Statistics

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

CD22	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
APC	52	91.0	8.6
FITC	47	55.5	46.4
PE	93	87.4	9.5

CD79a	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
PE	140	4.7	4.3
PerCP-CY5.5	22	5.0	5.2

TDT	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
FITC	193	86.9	10.6

CD7	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
FITC	99	1.0	1.1
PE	75	1.2	1.4

CD33	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
APC	44	1.4	1.6
PE	108	1.5	1.6
PE-CY7	21	0.0	0.0

CD34	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
PE	21	11.7	9.9

HLADR	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
FITC	103	95.1	4.6
PE	28	95.6	3.4

CD20	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
APC	22	82.8	13.8
FITC	78	73.0	18.7
PE	41	72.1	24.7

Leukaemia Immunophenotyping (Part 1) Programme

Sample - 141501

Antibody Fluorochrome Specific Statistics

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

CD38	Percentage Values (%)		
Method	Returns	Robust Mean	Robust SD
APC	37	93.2	5.6
FITC	71	93.1	5.9
PE	35	94.8	4.5
PE-CY7	26	93.5	6.2