

Pathology service provided by The Doctors Laboratory (Tel: 020 7307 7373)

Referring Clinician: [REDACTED]

Forename: **Russell**

DOB: [REDACTED]

NHS [REDACTED]

eMPI [REDACTED]

Location Ref: Oncology OPD (Bath Clinic)

Lab Ref No: [REDACTED]

Ordered date: 29/09/2026 11:38

Specimen: Type: Blood

Collected: 29/09/2026 11:35 Received: 29/09/2026 15:14

Carcinoembryonic Antigen (CEA) - Final - 29/09/2026 21:43

Carcinoembryonic Antigen * 44.6 ug/L 0-5.2

Note that CEA may be moderately raised in smokers: <6.6ug/L. Analysis completed using Roche Diagnostics technology.

Magnesium - Final - 29/09/2026 15:55

Magnesium 0.80 mmol/L 0.7-1

Liver Bone Test (LFT, Calcium, Phosphate) - Final - 29/09/2026 15:55

Globulin	33	g/L	19-35
Adjusted Calcium	2.43	mmol/L	2.2-2.6
Calcium	2.36	mmol/L	
Phosphate	0.96	mmol/L	0.8-1.5
Total Bilirubin	* 21	umol/L	0-20
Alanine Aminotransferase	23	U/L	10-50
Aspartate Aminotransferase	26	U/L	10-50
Alkaline Phosphatase	* 169	U/L	30-130
Total Protein	75	g/L	60-80
Albumin	42	g/L	35-50
Gamma-Glutamyl Transferase	23	U/L	10-71

Full Blood Count (Incl.Diff) (FBC) - Final - 29/09/2026 15:39

White cell count	9.69	x10 ⁹ /L	3.0-10.0
Red cell count	* 4.09	x10¹²/L	4.40-5.80
Haemoglobin (g/L)	* 126	g/L	130-170
HCT	0.371	L/L	0.37-0.50
MCV	90.7	fL	80-99
MCH	30.8	pg	27.0-33.5
MCHC (g/L)	340	g/L	320-360
RDW	14.9	%	11.5-15.0
Platelet count	280	x10 ⁹ /L	150-400
MPV	9.9	fL	7-13
Neutrophils	7.15	x10 ⁹ /L	2.0-7.5

Title, Surname: **Mr. Read-Barrow**

DOB: [REDACTED]

Forename: **Russell**

Lab R [REDACTED]

TDL Pathology - Blood Sciences [REDACTED]

Tests requested in this order episode: UE, FBC, CEA, [REDACTED]



1. Introduction

The purpose of this study is to investigate the effects of various factors on the performance of the system.

The results of the study show that the system performance is significantly affected by the input variables.

The study concludes that the system performance can be improved by optimizing the input variables.

The study also identifies the limitations of the current research and suggests areas for future work.

The study is organized as follows: Section 2 describes the methodology used in the study.

Section 3 presents the results of the study, and Section 4 discusses the implications of the findings.

Section 5 concludes the study and provides recommendations for future research.

The study is based on a sample of 100 participants.

The study was conducted over a period of six months.

The study was approved by the ethics committee.

The study was funded by the National Science Foundation.

The study was published in the Journal of Management Science.

The study was presented at the Annual Meeting of the American Management Association.

The study was cited in the Harvard Business Review.

The study was featured in the Wall Street Journal.

The study was discussed on the Today Show.

The study was covered by the New York Times.

The study was mentioned in the Washington Post.

The study was referenced in the New York Times Magazine.

The study was included in the Wall Street Journal's list of top 100 business books.

1. Introduction



Pathology service provided by The Doctors Laboratory (Tel: 020 7307 7373)

Lymphocytes	1.67	$\times 10^9/L$	1.2-3.65
Monocytes	0.68	$\times 10^9/L$	0.2-1.0
Eosinophils	0.15	$\times 10^9/L$	0.0-0.4
Basophils	0.05	$\times 10^9/L$	0.0-0.1

Urea & Electrolytes inc. eGFR (U&E) (Blood) - Final - 29/09/2026 15:55

Sodium	136	mmol/L	133-146
Potassium	4.0	mmol/L	3.5-5.3
Urea	4.9	mmol/L	2.5-7.8
Creatinine	76	umol/L	59-104
Acute Kidney Injury Warning	No flag		
eGFR (CKD-EPI)	>90	mL/min/1.73m ²	

Adjusting eGFR for ethnicity is no longer advised. eGFR is unreliable in AKI. For more advice on this refer to NICE CKD guidelines.

Chloride	98	mmol/L	95-108
----------	----	--------	--------

Title, Surname: **Mr. Read-Barrow**

DOB:

Forename: **Russell**

Lab R

TDL Pathology - Blood Sciences

Tests requested in this order episode: UE, FBC, CEA,

Pathology service provided by The Doctors Laboratory (Tel: 020 7307 7373)

Referring Clinician: [REDACTED]

Forename: **Russell**

DOB: [REDACTED]

NHS [REDACTED]

Location Ref: Oncology OPD (Bath Clinic)

eMPI [REDACTED]

Lab Ref No: [REDACTED]

Ordered date: 12/10/2026 11:34

Specimen: Type: Blood

Collected: 12/10/2026 11:30 Received: 12/10/2026 13:28

Carcinoembryonic Antigen (CEA) - Final - 12/10/2026 22:17

Carcinoembryonic Antigen * 47.3 ug/L 0-5.2

Note that CEA may be moderately raised in smokers: <6.6ug/L. Analysis completed using Roche Diagnostics technology.

Liver Bone Test (LFT, Calcium, Phosphate) - Final - 12/10/2026 14:22

Globulin	35	g/L	19-35
Adjusted Calcium	2.47	mmol/L	2.2-2.6
Calcium	2.43	mmol/L	
Phosphate	1.27	mmol/L	0.8-1.5
Total Bilirubin	14	umol/L	0-20
Alanine Aminotransferase	30	U/L	10-50
Aspartate Aminotransferase	39	U/L	10-50
Alkaline Phosphatase	* 190	U/L	30-130
Total Protein	79	g/L	60-80
Albumin	44	g/L	35-50
Gamma-Glutamyl Transferase	28	U/L	10-71

Magnesium - Final - 12/10/2026 14:22

Magnesium 0.86 mmol/L 0.7-1

Full Blood Count (Incl.Diff) (FBC) - Final - 12/10/2026 13:54

White cell count	9.79	x10 ⁹ /L	3.0-10.0
Red cell count	* 4.13	x10 ¹² /L	4.40-5.80
Haemoglobin (g/L)	* 129	g/L	130-170
HCT	0.379	L/L	0.37-0.50
MCV	91.8	fL	80-99
MCH	31.2	pg	27.0-33.5
MCHC (g/L)	340	g/L	320-360
RDW	* 15.2	%	11.5-15.0
Platelet count	290	x10 ⁹ /L	150-400
MPV	9.6	fL	7-13
Neutrophils	6.84	x10 ⁹ /L	2.0-7.5

Title, Surname: **Mr. Read-Barrow**

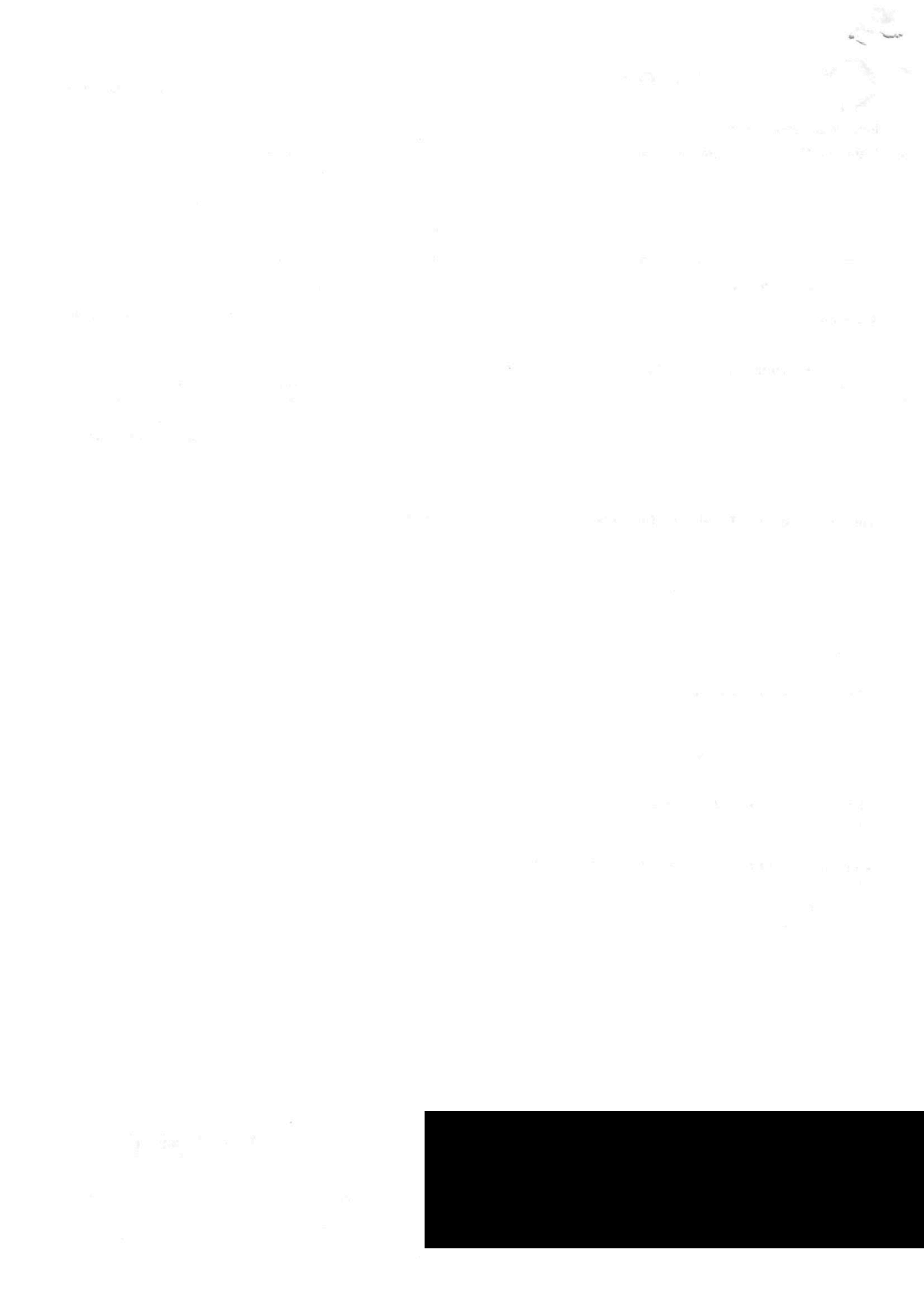
DOB: [REDACTED]

Forename: **Russell**

Lab R [REDACTED]

TDL Pathology - Blood Sciences [REDACTED]

Tests requested in this order episode: MG, CEA, LBP,



Pathology service provided by The Doctors Laboratory (Tel: 020 7307 7373)

Lymphocytes	1.95	$\times 10^9/L$	1.2-3.65
Monocytes	0.80	$\times 10^9/L$	0.2-1.0
Eosinophils	0.14	$\times 10^9/L$	0.0-0.4
Basophils	0.06	$\times 10^9/L$	0.0-0.1

Urea & Electrolytes inc. eGFR (U&E) (Blood) - Final - 12/10/2026 14:22

Sodium	136	mmol/L	133-146
Potassium	4.0	mmol/L	3.5-5.3
Urea	3.3	mmol/L	2.5-7.8
Creatinine	72	umol/L	59-104

Acute Kidney Injury Warning No flag

eGFR (CKD-EPI) >90 mL/min/1.73m²

Adjusting eGFR for ethnicity is no longer advised. eGFR is unreliable in AKI. For more advice on this refer to NICE CKD guidelines.

Chloride 98 mmol/L 95-108

Title, Surname: **Mr. Read-Barrow**

DOB:

Forename: **Russell**

Lab R

TDL Pathology - Blood Sciences

Tests requested in this order episode: MG, CEA, LBP,

