

Red Cell Genotyping - Web return of results

Logging on

Go to <http://www.ukneqasbtlp.org> and click on the main orange section of the page as shown in figure 1. A list of exercise types will be shown, click on the appropriate exercise to be taken to the correct login screen.

Figure 1 – Accessing the data entry login screen

Clicking on the orange button "Survey data entry / Report access" reveals a list of exercise types. Click on the required type of exercise to be taken to the correct page.

General Haematology
2106HB 2106PV
closing today
Survey data entry / Report access
Schedules

Blood Transfusion Laboratory Practice
21ERP2
closing in 6 days
Survey data entry / Report access
Please select a programme:
A1 sub-typing (expression of interest only)
Pre-Transfusion Testing
Feto-Maternal Haemorrhage
ABO Titration
Antenatal Titration Pilot
Direct Antiglobulin Test (DAT)
Extended Phenotyping Pilot
Point of care testing (POCT) - D typing
Red Cell Genotyping Pilot
Schedules

Enter the PRN (Lab Code), Identity and Password and click on the 'Log in' button as shown in figure 2. It is also possible to login with an email address and password if an account has been set up.

Figure 2 – Logging in

Login

Lab Code / PRN or Email: 26000

Identity: 12345

Password:

Login Reset your password

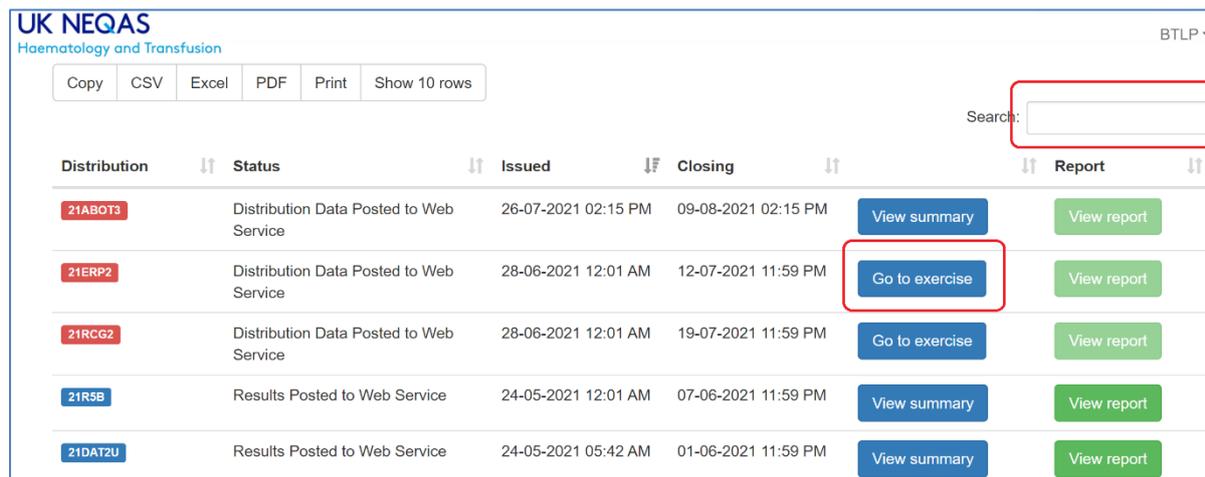
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Please note that the Reset your password link will send an email to the registered contact. If that person is unavailable to reset the password, contact UK NEQAS for assistance.

Navigating the web page

A list of exercises will be displayed with the most recent at the top as shown in figure 3. The names of open exercises will be in red, and closed exercises will be in blue. If data has not yet been submitted, a button saying 'Data Entry' will be visible on the right hand side of the page. It is possible to search for specific exercises by typing in the Search box in the top right (e.g. "G2", or "ABOT").

Figure 3 – Navigating the list of exercises



The screenshot shows the UK NEQAS web interface for Haematology and Transfusion. At the top right, there is a search box labeled 'Search:' with a red border. Below the search box is a table with the following columns: Distribution, Status, Issued, Closing, and Report. The table contains five rows of exercise data. The first three rows have red status labels (21ABOT3, 21ERP2, 21RCG2) and blue 'Go to exercise' buttons. The last two rows have blue status labels (21R5B, 21DAT2U) and blue 'View summary' buttons. The 'Go to exercise' button for the second row (21ERP2) is highlighted with a red border.

Distribution	Status	Issued	Closing	Report
21ABOT3	Distribution Data Posted to Web Service	26-07-2021 02:15 PM	09-08-2021 02:15 PM	View summary View report
21ERP2	Distribution Data Posted to Web Service	28-06-2021 12:01 AM	12-07-2021 11:59 PM	Go to exercise View report
21RCG2	Distribution Data Posted to Web Service	28-06-2021 12:01 AM	19-07-2021 11:59 PM	Go to exercise View report
21R5B	Results Posted to Web Service	24-05-2021 12:01 AM	07-06-2021 11:59 PM	View summary View report
21DAT2U	Results Posted to Web Service	24-05-2021 05:42 AM	01-06-2021 11:59 PM	View summary View report

Click on 'Go to exercise' for the correct exercise to go to the data entry page.

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Data entry

Occasionally a short questionnaire will be linked to an exercise as shown in figure 4, this will be displayed prior to the data entry page. The questionnaire may be skipped by clicking on 'Complete later' to allow direct access to the data entry section. The questionnaire can be accessed later by clicking on the 'Complete Questionnaire' button as shown for 1819G1 in figure 3.

Figure 4 – Questionnaire

Please complete the questionnaire before proceeding to data entry

In your clinical practice, how do your results routinely get transferred for reporting?

- Transmitted from your testing platform via an electronic interface to an IT system
- Transcribed manually to an IT system
- Transcribed manually to a paper report

In your laboratory, how are genotyping results routinely translated to predicted phenotypes?

- Manually
- By the testing platform software
- Using other IT
- Not applicable as never report predicted phenotype

Platform(s) used to test this exercise
Exercises should be tested using your primary technique and only the level of further testing that would be applied to similar clinical samples. Please indicate your primary testing platform and any other required to obtain results for this exercise:

- Progenika BLOODChip
- Progenika IDCORE XT
- HEA BeadChip
- Inno-Train FluoGene
- Inno-Train Ready-Gene
- Sequenom MassARRAY
- BAGene
- Other (please specify genotyping profile)
- In-house system (please specify)

Figure 5 shows the data entry screen. Enter the 'Date Received' and 'Assay Date' by typing in the box, or using the calendar function. Then click on the 'Patient 1' button to enter data for Patient 1.

Figure 5 – Entering dates

Your PRN 1920G1 (Red Cell Genotyping Pilot)
Submitted on 10 Jun 2019, 13:08

Closing on : 2 weeks 5 hours from now

Date Received: 06/06/2019 12:00 AM

Date Tested: 06/06/2019 12:00 AM

The patient that has been selected is visible throughout the page, see red boxes in figure 6.

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It is possible to save data for each patient by clicking the orange 'Save Patient x' button in the bottom left hand corner. Data can only be submitted once all data has been entered, until then, the 'Submit your results' button in the bottom right corner is not available and is paler than the 'Save' button, see figure 6.

Figure 6 – Which patient, and save/submit

The screenshot shows a web interface for Red Cell Genotyping. At the top, there are two tabs: 'Patient 1' (highlighted with a red box) and 'Patient 2'. To the right are buttons for 'Instructions', 'View Summary', and 'Submit your results' (highlighted with a green box). Below this is a 'Sample quality' section with a dropdown menu set to 'Satisfactory' and a 'Patient 1' label (highlighted with a red box). The 'Results' section contains eight columns for blood group/subgroup: D, CcEe, MN, Ss, Kk, Fya Fyb and Fy, Jka Jkb, and Doa Dob. At the bottom, there are two buttons: 'Save Patient 1' (highlighted with a green box) and 'Submit your results' (highlighted with a green box).

The sample quality question is above the other data entry fields, the default is 'Satisfactory', if there is a problem with the sample quality, select 'Unsatisfactory' from the drop down list, and enter information into the freetext box which will appear below.

Click on the button for each blood group/subgroup to enter results as shown in figure 7, ensure that all questions are answered.

Figure 7 – Question format

The screenshot shows the question format for the MN blood group. At the top, there are eight buttons for blood group/subgroups: D, CcEe, MN, Ss, Kk, Fya Fyb and Fy, Jka Jkb, and Doa Dob. Each button has a checkmark next to it. Below this is a section for 'MN: Genotype' with four radio button options: GYPA*01/01, GYPA*02/02 (selected), GYPA*01/02, Not tested, and Other (please specify). Below this is a section for 'MN: Predicted phenotype' with five radio button options: M+ N-, M- N+ (selected), M+ N+, Not tested, and Other (please specify). At the bottom, there is a section for 'How would you report the MN genotype / predicted phenotype for Patient 1 in clinical practice' with two radio button options: Same as in the options selected above (selected) and Other terminology (please specify).

Select the appropriate response for each question, and once all questions for a section have been answered, a tick will appear next to the blood group name as shown in figure 7.

ONLY use the 'other' response for the genotype or predicted phenotype questions if the result cannot be expressed using ISBT terminology available.

Whenever 'other' is used, a freetext box will appear which allows enhanced formatting as shown in figure 8, use the appropriate formatting when entering data. Please only use the 'other' option if there is no suitable response displayed. A list of [ISBT terminology](#) is available on our website.

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Figure 8 – Enhanced formatting

How would you report the MN genotype / predicted phenotype for Patient 1 in clinical practice

Same as in the options selected above

Other terminology (please specify)

B *I* U ~~S~~ ^{X'} _{X,} ~~▯~~

Bold *italics* underlined ~~striketrough~~ ^{superscript} _{subscript}

When all data has been entered for Patient 1 and all blood groups have ticks next to their name, click the 'Save Patient 1' button. If any data is missing, a message will appear indicating what data has not yet been entered.

Enter data for Patient 2 by clicking on the 'Patient 2' button and entering data as previously described.

When all data has been entered (and checked as required), click on 'Submit your Results' in the bottom right corner. A summary of all results will be displayed, this can be saved/printed as a pdf by clicking 'Create PDF' in the top right corner, see figure 9.

If any errors are seen on the summary, contact the scheme on BTLP@UKNEQAS.ORG.UK or +44 (0) 1923 217 933. Results can then be unlocked, allowing further modification.

Figure 9 – Summary of results

Distribution: 1819G2
Results were submitted on 21 Aug 2018, 11:22
This is a result summary for PRN 26000

Results summary

Patient 1

D	
	Answer
D: Genotype	RHD*01 (zygosity not determined)
D: Predicted phenotype	D positive
D genotype / predicted phenotype	Same as in the options selected above

CcEe	
	Answer
Cc: Genotype	RHCE*C/C
Cc: Predicted phenotype	C+ c-
Ee: Genotype	RHCE*E/e
Ee: Predicted phenotype	E+ e+
CcEe genotype / predicted phenotype	Same as in the options selected above

MN

A summary of results can also be at a later date by logging on and clicking 'View Summary', as shown in figure 3.

Logging Off

To Log off, click the initials in the top right corner and select 'Logout',

Accessing Reports

Log onto the system as shown on page 1 and find the correct exercise as shown on page 2.

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Reports can be accessed once they are complete, the 'View Report' button will be dark green if the report is ready, or pale green if not yet available, see figure 10.

Figure 10 – Report available

Distribution	Status	Issued	Closing	Report
21ABOT3	Distribution Data Posted to Web Service	26-07-2021 02:15 PM	09-08-2021 02:15 PM	View summary View report
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21DAT2U	Results Posted to Web Service	24-05-2021 05:42 AM	01-06-2021 11:59 PM	View summary View report

Click on the 'View Report' button as shown in figure 10, and a list of reports for that exercise will be displayed.

Usually only one report will be available, but if the email address linked to the account used to log in is related to more than one PRN, all reports will be available on the screen. Amended reports will also be visible if applicable. Check the PRN and Report Description as shown in figure 11 to find the correct report.

Figure 11 – Identifying the required report

PRN	Distribution	Report description	Issued	
26000	21DAT2U	21DAT2U	21-06-2021 11:24 AM	View report

The report will be displayed on screen, to print or save a pdf copy, click on the 'Create PDF for this report' button in the top right corner as shown in figure 12.

Figure 12 – Saving / printing the report

Printable report

1819ABOT1 - 1819ABOT1 report

[Create PDF for this report](#)

UK NEQAS Haematology and Transfusion	ABO Titration Blood Transfusion Laboratory Practice	Laboratory: 26000
	Distribution: 1819ABOT1	Date: 08-05-2018

Introduction

This was the first exercise in the 2018-19 cycle of the ABOT scheme. Participants were requested to titrate anti-A in three plasma samples against the A+ red cells provided. The