

# Extended Red Cell Phenotyping - 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

**General Haematology**

2401BF 2401PA 2401RD  
closing in 2 days

Survey data entry / Report access

Schedules

**Blood Transfusion Laboratory Practice**

24R2P 24R2  
closing in 17 days

Survey data entry / Report access

Please select a programme:

Pre-Transfusion Testing

Feto-Maternal Haemorrhage

ABO Titration

Antenatal Titration

Direct Antiglobulin Test (DAT)

Extended Phenotyping

Point of care testing (POCT) - D typing

Red Cell Genotyping

Schedules

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

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

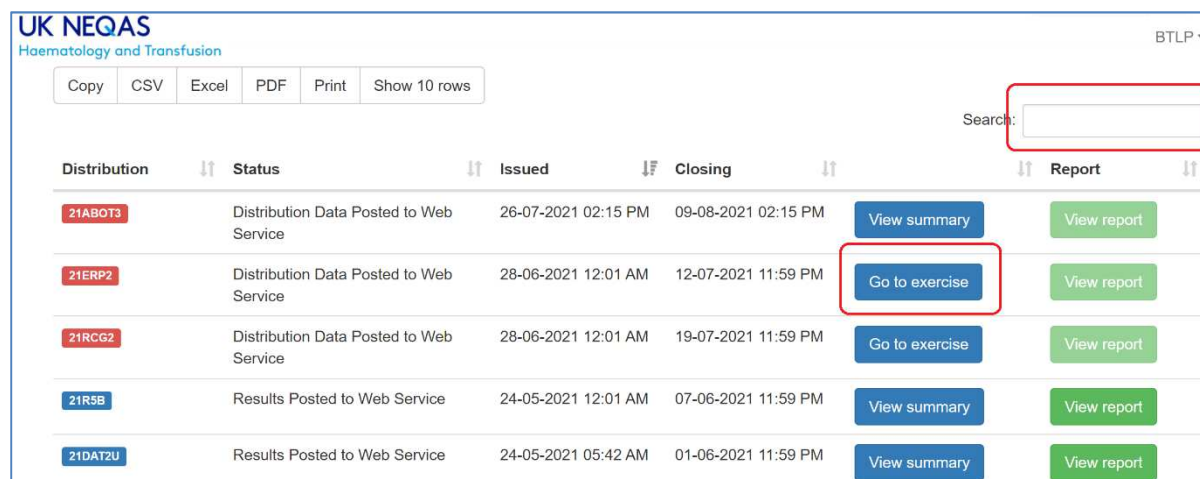
Please note that the Reset your password link will send an email to the registered contact. If that person is unavailable to reset the password, contact UK NEQAS for assistance.

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## 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 "ERP").

**Figure 3** – Navigating the list of exercises



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

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, an example of a genotyping questionnaire is 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 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 1920ERP1 (Extended Phenotyping Pilot)

Submitted on 10 Jun 2019, 13:07

Closing on : 2 weeks 4 hours from now

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

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

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

The sample quality question is above the other data entry fields (see figure 6), 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.

**Figure 6** – Determining which patient is being result

The screenshot shows a web form for Extended Red Cell Phenotyping. At the top, there are two date fields: 'Date Received:' and 'Date Tested:', both set to '06/06/2019 12:00 AM'. Below these are two buttons: 'Patient 1' (highlighted with a red box) and 'Patient 2'. To the right of these buttons are three more buttons: 'Instructions', 'View Summary', and 'Submit your results'. Below the patient selection area is a section titled 'Sample quality'. In this section, there is a dropdown menu labeled 'Sample quality' with 'Satisfactory' selected. To the right of this dropdown is a button labeled 'Patient 1' (highlighted with a red box). Below the 'Sample quality' section is a green section titled 'Results'. To the right of this section is a button labeled 'Patient 1' (highlighted with a red box).

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 if selected, a message will appear indicating that the button will not work until all fields are completed, see figure 7.

**Figure 7** – Save and submit

The screenshot shows the bottom of the web form. There are two orange buttons: 'Save Patient 1' on the left and 'Submit your results' on the right.

The Interpretation field is new as of June 2023 and is the only mandatory field for each antigen. If a reaction grade is selected but an interpretation is not selected, an error message will appear for each affected antigen.

Select a reaction grade, or "Not tested" for each antigen until all fields have results. For Rh probable phenotype, select the appropriate interpretation, or if the required response is not displayed, select 'other' and enter details into the freetext box which will open underneath.

Enter the details of the technique, technology, and reagent details in the corresponding line for each antigen. If the phenotype was not tested, leave the fields blank as shown in figure 8 below.

If Save is used for technique details before a reaction has been entered, an error message will be shown asking for the results to be entered.

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**Figure 8 – Data entry**

**Results** Patient 1

	Reaction Grade	Interpretation*	Technique	Technology	Reagent
D	4	Positive	DRT	BioRad	Impregnated BioRad card
C	0	Negative	IAT	BioVue	Lorne liquid antisera
E	3	Positive	Other	Grifols	text and number5
c	2	Positive	Other	Immucor	text numbers & punctuation
e	weak	Uninterpretable	IAT	DIAGAST	dropper bottles from manufacturer

Rh probable genotype

☐ R<sub>1</sub>r   
 ☐ R<sub>1</sub>R<sub>1</sub>   
 ☒ R<sub>2</sub>r   
 ☐ R<sub>2</sub>R<sub>2</sub>   
 ☐ R<sub>1</sub>R<sub>2</sub>   
 ☐ R<sub>0</sub>r / R<sub>0</sub>R<sub>0</sub>  
☐ rr   
 ☐ r'r   
 ☐ r''r   
 ☐ r'r'   
 ☐ r'r''   
 ☐ r''r''  
☐ Other

M    Not tested / Ui    Not tested / Ui    IAT    Other    AAA

When all data has been entered for Patient 1, click the 'Save Patient 1' button.

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, if any data is missing, the 'Submit button will not work and a message will be displayed (see figure 7).

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](mailto:BTLP@UKNEQAS.ORG.UK) or +44 (0) 1923 217 933. Results can then be unlocked, allowing further modification.

**Figure 9 – Summary of results**

[Create PDF for this report](#)

	<b>Extended Phenotyping Pilot</b> <b>Blood Transfusion Laboratory Practice</b>	<b>Laboratory: 29985</b>			
	<b>Results summary for 99ERP2</b>				

**Results summary**

Patient 1					
	Reaction grade	Interpretation	Technique	Technology	Reagent
D	4	Positive	DRT	'N/A'	spod
C	3	Positive	DRT	'N/A'	look
E	3	Positive	DRT	'N/A'	poot
c	0	Negative	DRT	'N/A'	skadiddele
e	4	Positive	DRT	'N/A'	llot no 123456
Rh	R <sub>2</sub> r	'N/A'	'N/A'	'N/A'	
M	weak	Negative	IAT	'N/A'	bathc 21-123

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

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## Logging Off

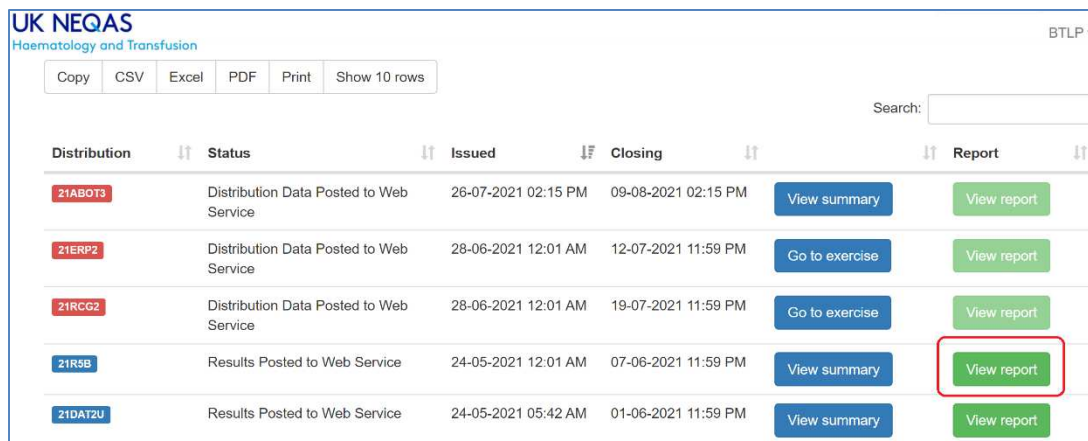
To Log off, click the initials in the top right corner and select 'Logout'.

## Accessing Reports

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

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. A POCTD exercise is used in this example.

**Figure 10** – Report available

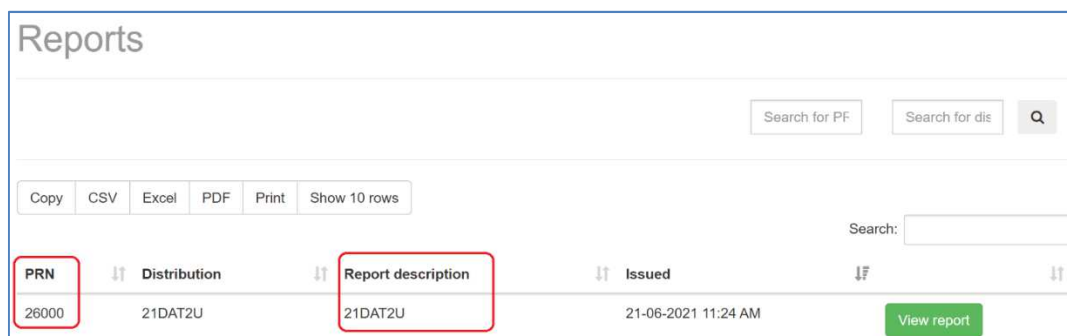


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21DAT2U	Results Posted to Web Service	24-05-2021 05:42 AM	01-06-2021 11:59 PM	<a href="#">View summary</a> <a href="#">View report</a>

Click on the 'View Report' button as shown in figure 10, 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.

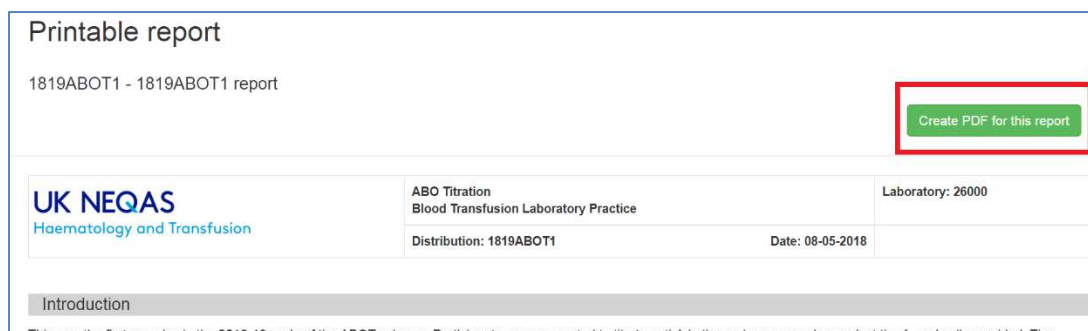
**Figure 11** – Identifying the required report



PRN	Distribution	Report description	Issued	
26000	21DAT2U	21DAT2U	21-06-2021 11:24 AM	<a href="#">View report</a>

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