

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

The screenshot shows two side-by-side panels. The left panel, titled 'General Haematology', displays '2106HB 2106PV closing today' and a button for 'Survey data entry / Report access'. The right panel, titled 'Blood Transfusion Laboratory Practice', displays '21ERP2 closing in 6 days' and a button for 'Survey data entry / Report access'. Below this, a list of exercise types is shown, with 'Extended Phenotyping Pilot' circled in red. Red arrows point from the text on the left to the buttons and the selected exercise type.

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.

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

The login form is titled 'Login' and contains three input fields: 'Lab Code / PRN or Email' with the value '26000', 'Identity' with the value '12345', and 'Password' with masked characters '.....'. Below the fields are two buttons: 'Login' and 'Reset your password'.

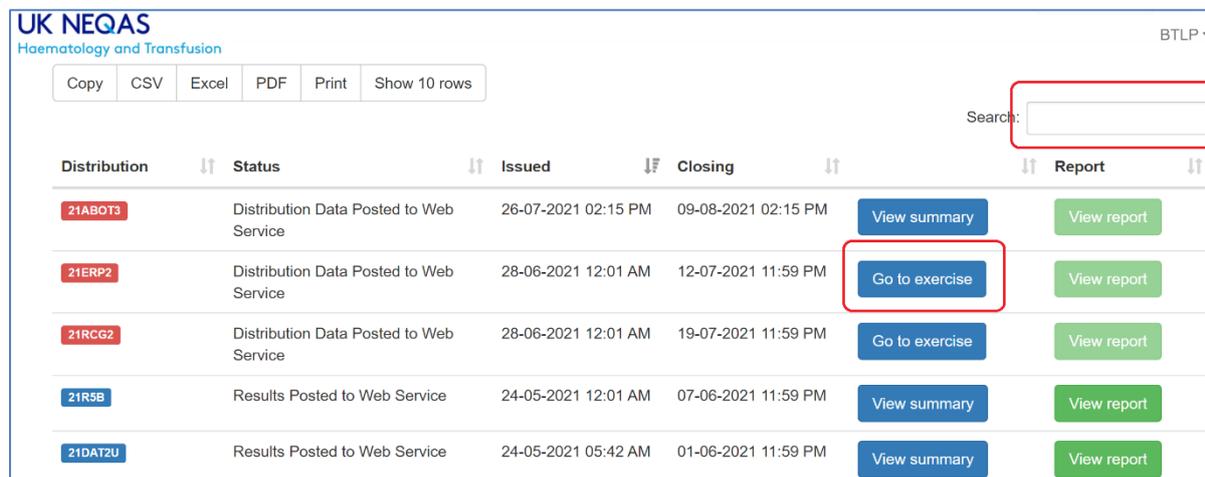
Please note that the Reset your password link will send an email to the registered contact. If that person is unavailable to reset the password, contact UK NEQAS for assistance.

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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



The screenshot shows the UK NEQAS Haematology and Transfusion web interface. At the top, there are navigation options: Copy, CSV, Excel, PDF, Print, and Show 10 rows. A search box is located in the top right corner. Below the search box is a table with columns: Distribution, Status, Issued, Closing, and Report. The table lists five 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	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, 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 resulte

The screenshot shows a web interface for patient selection and sample quality. 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 are buttons for 'Instructions', 'View Summary', and 'Submit your results'. The 'Sample quality' section has a dropdown menu set to 'Satisfactory' and a 'Patient 1' label (highlighted with a red box). The 'Results' section at the bottom has a 'Patient 1' label (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 two orange buttons: 'Save Patient 1' on the left and 'Submit your results' on the right.

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.

Figure 8 – Data entry

The screenshot shows the 'Results' data entry form. It has a table with columns for 'Strength', 'Technique', 'Technology', and 'Reagent'. The rows are for antigens D, C, E, c, e, and M. The 'Rh probable genotype' section has radio buttons for R₁r, R₁R₁, R₂r, R₂R₂, R₁R₂, and R₀r / R₀R₀. The 'M' row has a dropdown menu set to 'Not tested / Unable to te'.

	Strength	Technique	Technology	Reagent
D	4	DRT	BioRad	Impregnated BioRad card
C	0	IAT	Grifols	Lorne liquid antisera
E	3	Other	Immucor	text and number5
c	2	Other	LISS Tube	text, numbers, & punctuation!
e	weak	IAT	BioVue	dropper bottles form manufacturer
Rh probable genotype				
	<input type="radio"/> R ₁ r	<input type="radio"/> R ₁ R ₁	<input type="radio"/> R ₂ r	<input type="radio"/> R ₂ R ₂
	<input type="radio"/> rr	<input type="radio"/> r'r	<input checked="" type="radio"/> r''r	<input type="radio"/> R ₁ R ₂
			<input type="radio"/> Other	
M	Not tested / Unable to te	IAT	BioVue	AAAA

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

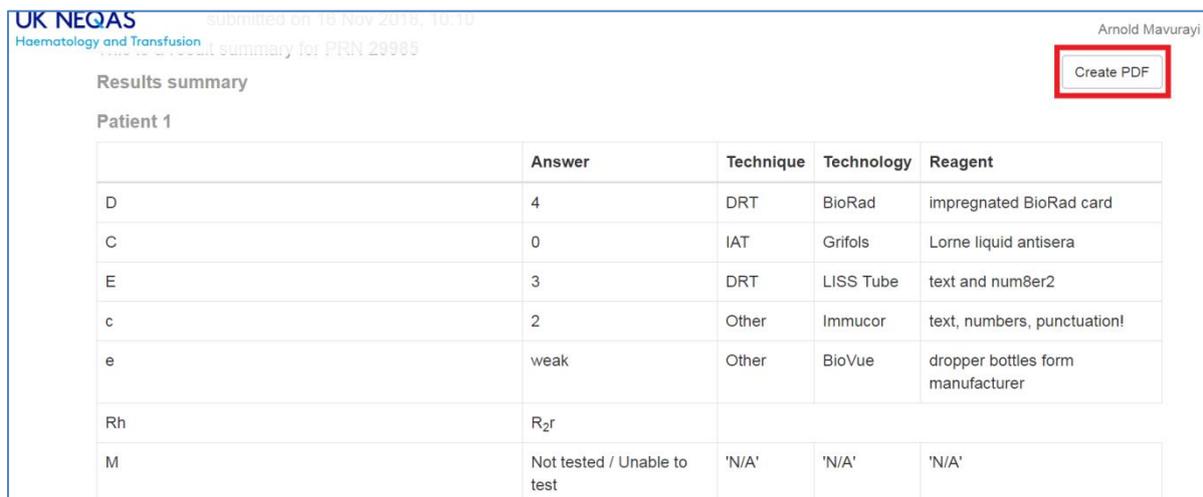
Enter data for Patient 2 by clicking on the 'Patient 2' button and entering data as previously described.

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 or +44 (0) 1923 217 933. Results can then be unlocked, allowing further modification.

Figure 9 – Summary of results



UK NEQAS Haematology and Transfusion submitted on 16 Nov 2016, 10:10
View the result summary for PRN 29985 Arnold Mavurayi

Results summary

Patient 1

	Answer	Technique	Technology	Reagent
D	4	DRT	BioRad	impregnated BioRad card
C	0	IAT	Grifols	Lorne liquid antisera
E	3	DRT	LISS Tube	text and num8er2
c	2	Other	Immucor	text, numbers, punctuation!
e	weak	Other	BioVue	dropper bottles form manufacturer
Rh	R ₂ r			
M	Not tested / Unable to test	'N/A'	'N/A'	'N/A'

Create PDF

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',

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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. An ABOT exercise is used in this example.

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
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
21RSB	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 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