

## RCI Assist A Referral Support Tool

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# Aims of the awareness session



Why RCI Assist was developed



Brief history - how RCI Assist evolved

RCI Assist pre-roll out survey



Overview of RCI Assist and working example









## Introduction



The Transfusion 2024 strategic plan outlined the urgent need to strengthen support for Hospital Transfusion Laboratories (HTL) to ensure safe provision of care for patients in need of transfusion





Further pilot commenced in 2023/24 across Path Links Pathology Network, supported by RCI Barnsley, and East and South East London Pathology Partnership, supported by RCI Tooting



The pilot was underpinned by the referral support tool, RCI Assist. This acts as a guide for HTL staff and aims to improve confidence by providing reassurance about investigations and blood provision



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## Referral support tool

RCI Assist contains nineteen decision points and alongside supporting information, assists the user to resolve samples in-house or know when to refer to RCI



Can act as a guide for less experienced staff, be used for training, provides reassurance to all staff



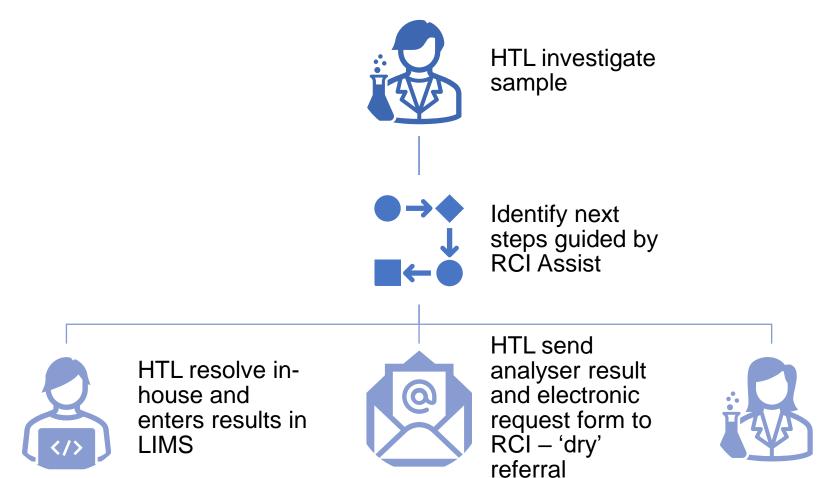
Ensure appropriate cases are referred to RCI – improved patient care



The pilot included four points at which a 'dry' referral could be made to RCI, where analyser results were emailed for remote interpretation without the need to send the traditional 'wet' sample



## **A Methods for pilot**



HTL send 'wet' sample to RCI

## Transfusion 2024

### **Blood and Transplant**

## How it started

Use the RCI Assist referral support tool to navigate your way through serological investigations:



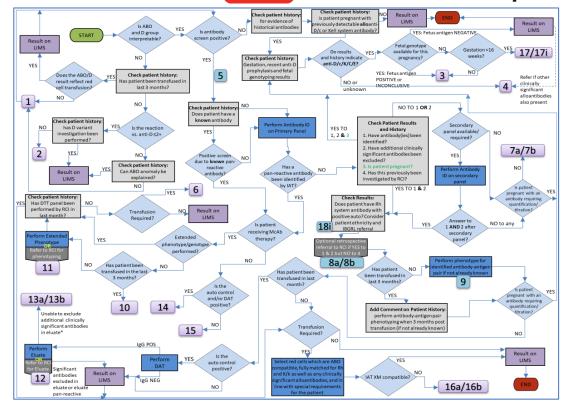
To move through the pathways, go to the start box, then answer the questions



Answer yes or no, then move along the pathway



When you reach a decision point, check the supporting information table and either refer to RCI or result in-house



#### Point

7a/7b

#### **Supporting Information**

- POTENTIAL 'DRY' REFERRAL POINT: If primary panel (and secondary if available/required) panel have been performed and all clinically significant alloantibodies cannot be confirmed and/or excluded referral should be made to NHSBT. NHSBT may be able to successfully conclude these investigations as a 'dry' referral (7a) but in other instances a 'wet' referral may be required to enable further testing to conclude the investigation (7b).
- Note: for patients with known multiple antibodies which are unlikely to be resolved by a secondary panel it is not expected that a second panel will be performed prior to RCI referral in order to save time and plasma.



## **Pilot Results**



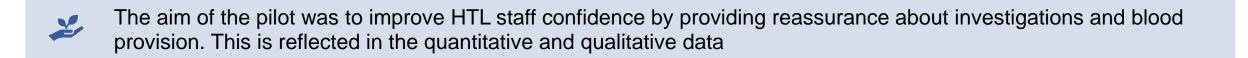
Data analysis predicted 14% of referrals would come via the dry referral pathway in the pilot sites This was done using a years' worth of referral data prior to pilot go live

However, during the pilot, only 5% 'dry' referrals were received from the pilot sites



The same data was reviewed for some non-pilot sites – our control group This showed no reduction in the number of referrals where the tool was not being used – it actually increased

Qualitative data showed staff felt more confident when using RCI Assist





The benefits found from using the RCI Assist tool negated the need for the remote interpretation service



## **Feedback from pilot**

"RCI Assist provides a comfort blanket for those multi-disciplinary staff working in Blood Transfusion and gives them confidence when processing samples"

Kimberley Garnett, Blood Transfusion Manager, Path Links Pathology

> "RCI assist is a potential game changer for the way in which valuable resources and expertise is shared, particularly relating to improving and supporting training and confidence levels"

> Patricia Richards, Blood Transfusion Scientific Lead, East and South East London Pathology Partnership

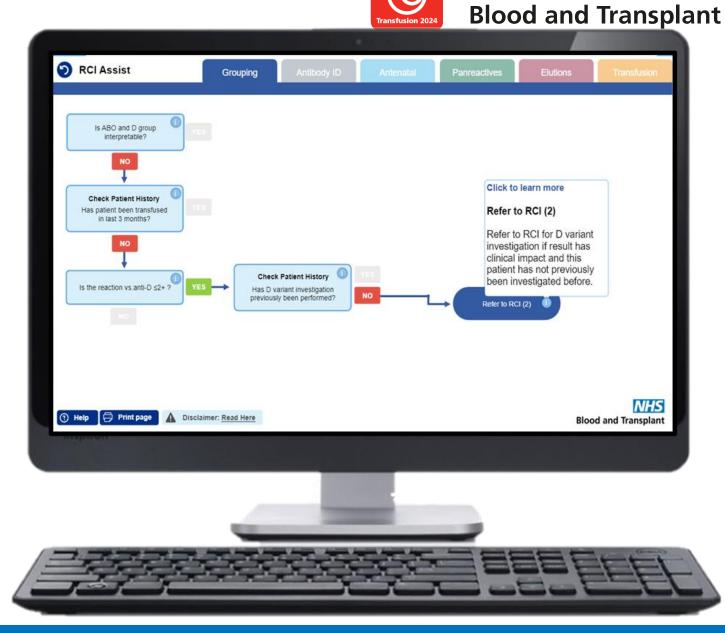
## How it's going

Use the RCI Assist referral support tool to navigate your way through serological investigations:



To move through the pathways, select the yes or no options next to the question boxes

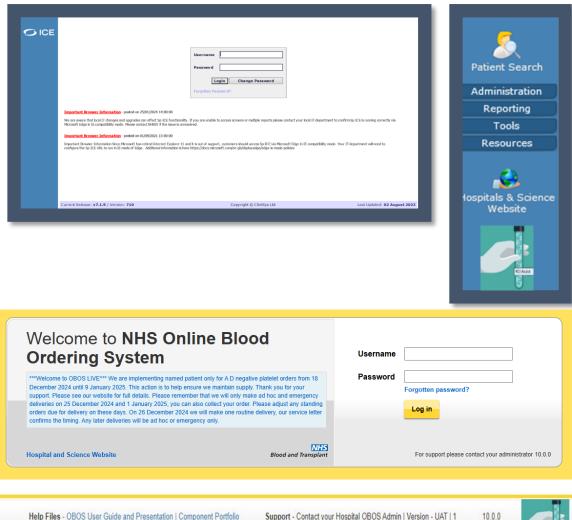
- Elutions To jump straight to a section, select the required tab
  - To get supporting information about a topic, click the information icon
- Reach a decision point and either refer to RCI or result in-house



## Locating the RCI Assist Link



**Transfusion 2024** 



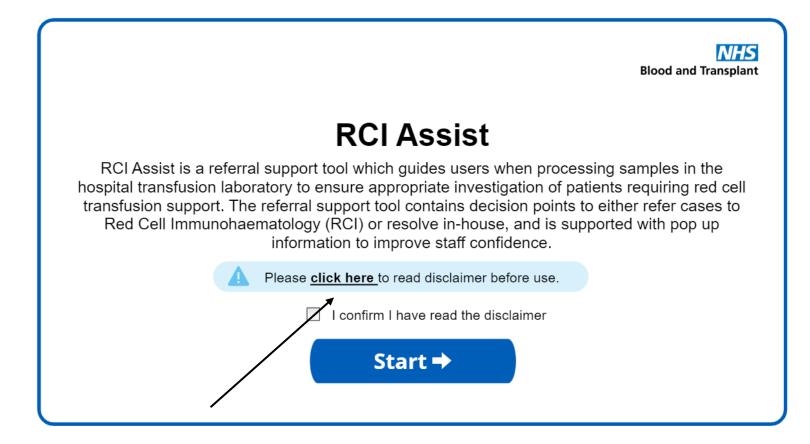
- Select the RCI Assist link
- You will be taken to the RCI Assist homepage

<b>NHS</b> Blood and Transplant							
RCI Assist							
RCI Assist is a referral support tool which guides users when processing samples in the hospital transfusion laboratory to ensure appropriate investigation of patients requiring red cell transfusion support. The referral support tool contains decision points to either refer cases to Red Cell Immunohaematology (RCI) or resolve in-house, and is supported with pop up information to improve staff confidence.							
Please <u>click here</u> to read disclaimer before use.							
I confirm I have read the disclaimer							
Start →							

Your last login was on: 19/06/2024 17:00:57.



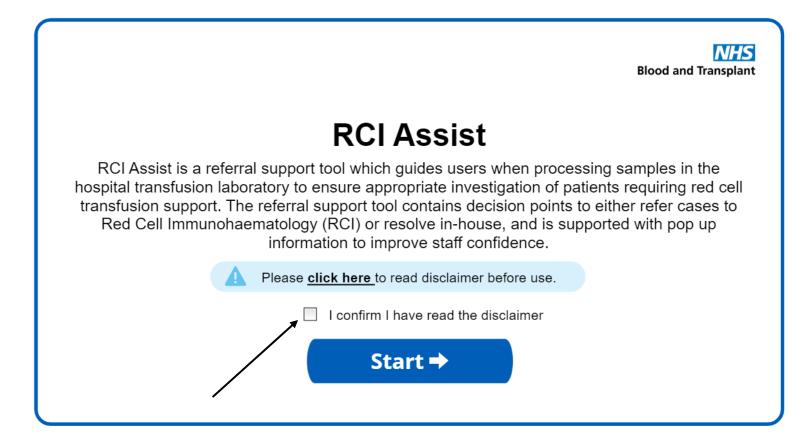
### **Disclaimer**



Select click here to read disclaimer

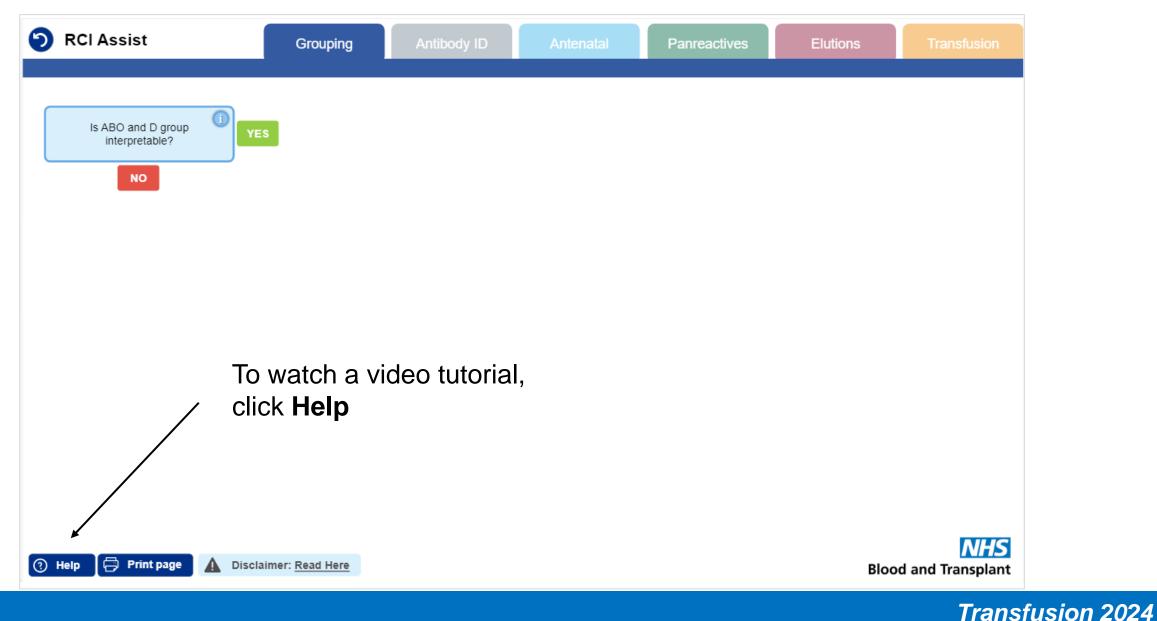


### **Disclaimer**

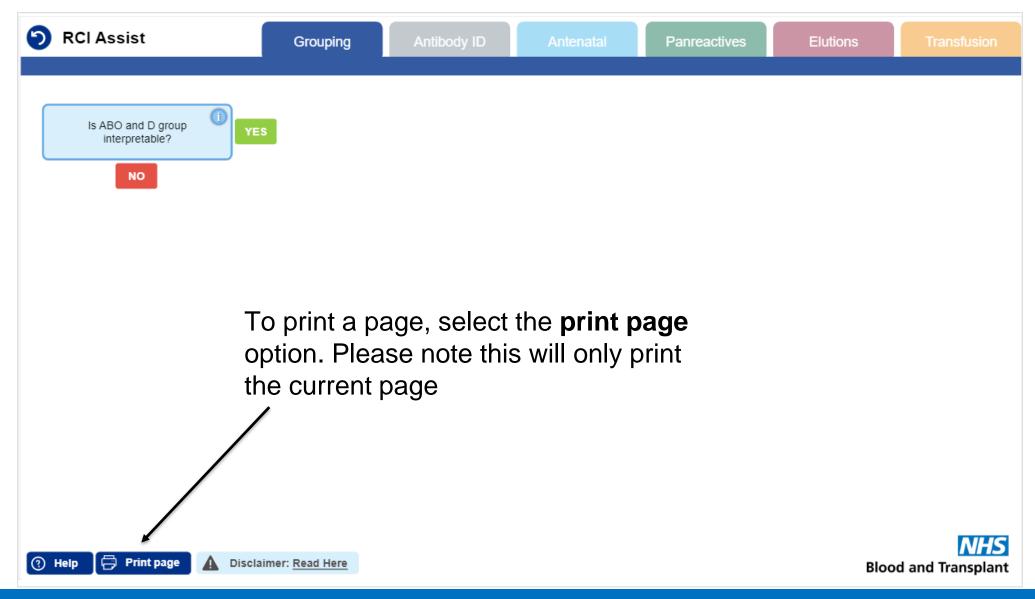


Once you have read the disclaimer, select the **tick box** to confirm you have read it the disclaimer

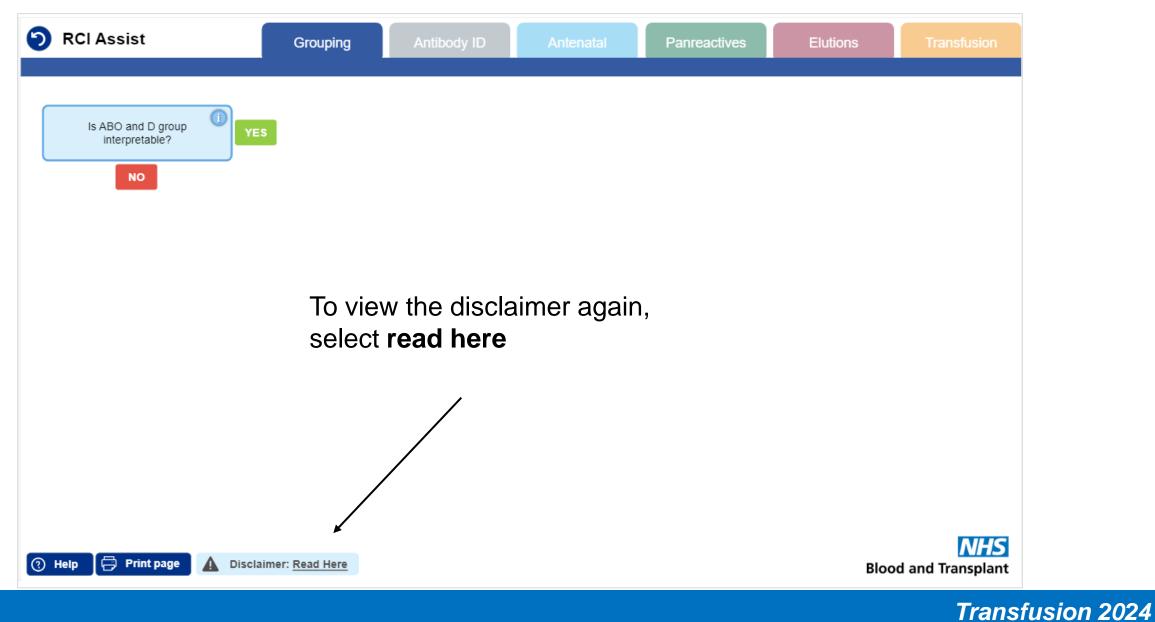




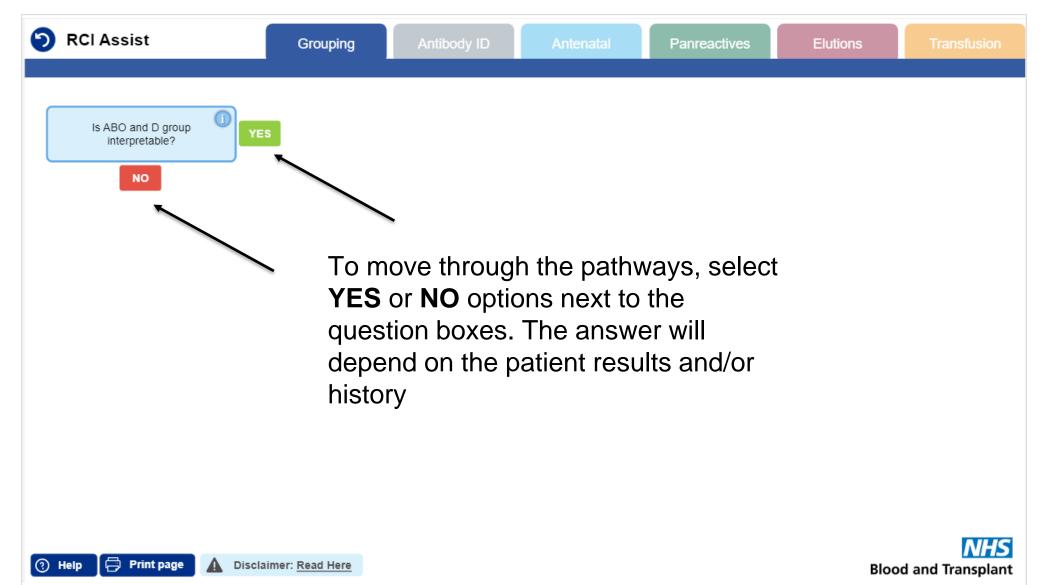




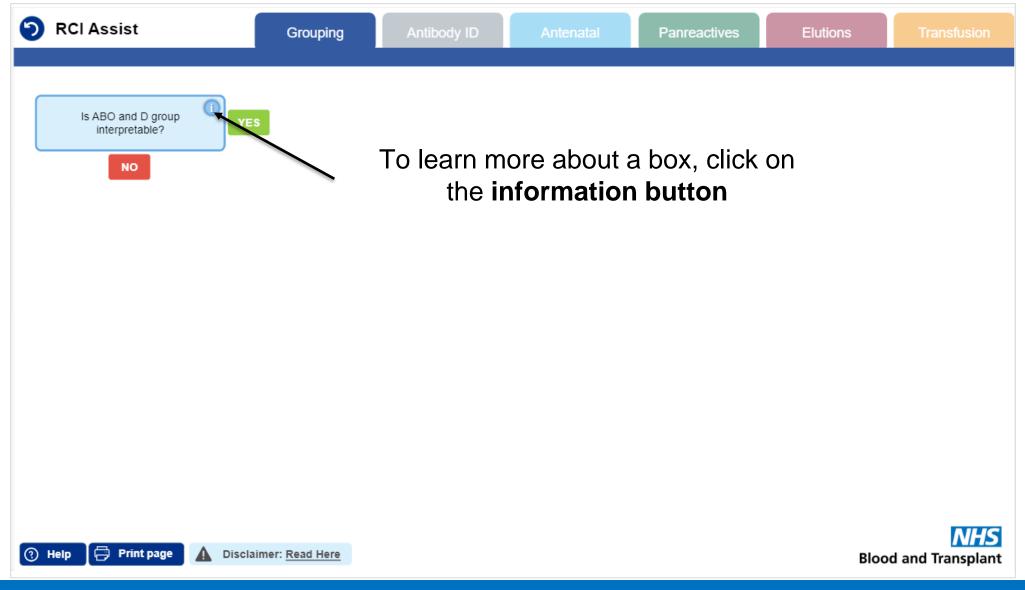




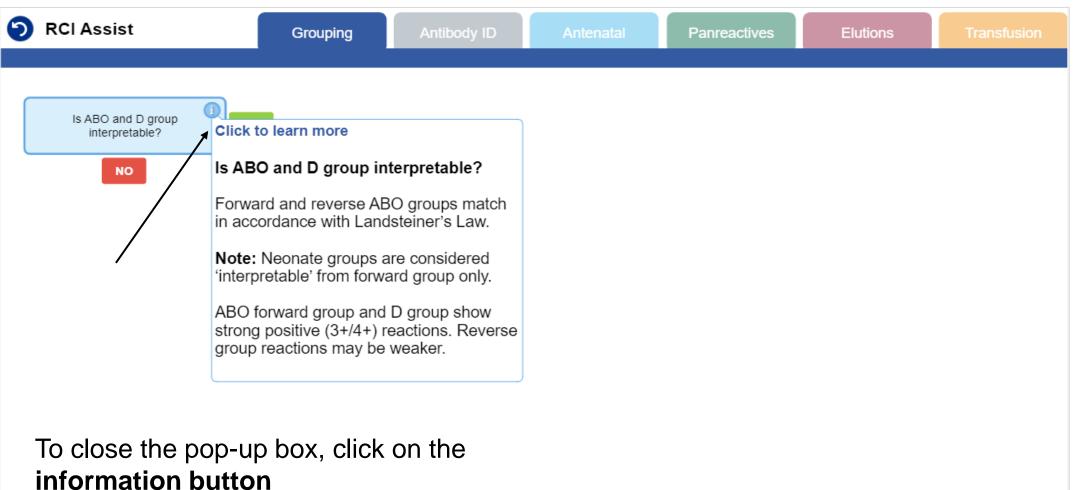
















RCI Assist	Grouping An	ibody ID Antenatal	Panreactives	Elutions	Transfusion
Is ABO and D group interpretable?	l s	f you want to jump elect the required vailable for when ollow a particular p	tab. This opti you don't nee	ion is	
(?) Help (?) Help (?) Print page (*) Disclaiment	er: <u>Read Here</u>			Blood	NHS and Transplant



The current page is highlighted in the corresponding colour:

	RCI Assist	Grouping	Antibody ID	Antenatal	Panreactives	Elutions	Transfusion
/	RCI Assist	Grouping	Antibody ID	Antenatal	Panreactives	Elutions	Transfusion
	<b>O</b> RCI Assist	Grouping	Antibody ID	Antenatal	Panreactives	Elutions	Transfusion
	S RCI Assist	Grouping	Antibody ID	Antenatal	Panreactives	Elutions	Transfusion
	<b>O</b> RCI Assist	Grouping	Antibody ID	Antenatal	Panreactives	Elutions	Transfusion
	RCI Assist	Grouping	Antibody ID	Antenatal	Panreactives	Elutions	Transfusion



## Moving between pages

- As you move between pages, previously selected pathways will still be available if you return to any previous pages using the navigation tabs
- Please note, using the back arrows will cause you to exit RCI Assist
- You must ensure that you only reset the package when your investigation is complete
- You must reset the package when processing a new sample
- Each time you log in from Sp-ICE or OBOS, you will reach the RCI Assist homepage and have to accept the disclaimer



## **Resetting the package**

- To reset the package, select the reset button in the top left
- You will be asked if you are sure you want to reset
- If you select no, you will return to the current page and all previous selections will be available
- If you select yes, you will return to the RCI Assist homepage

Is ABO and D group interpretable?	YES	
NO	$\bigcirc$	
	Would you like to reset? Please note: This will remove all progress made in all sections (Grouping, Antibody ID, Antenatal, Panreactives, Elutions and Transfusion).	
	Yes No	

⑦ Help

 Print page
 Disclaimer: Read Here

Blood and Transplant



## **Urgent Referrals to RCI**

- Please notify the RCI laboratory by telephone of any urgent requests
- All crossmatch requests required during routine hours must be telephoned to the local RCI laboratory
- Out of hours, only crossmatch requests that are required to be tested within the out of hours service must be telephoned
- For further information, please refer to the <u>RCI User Guide</u>



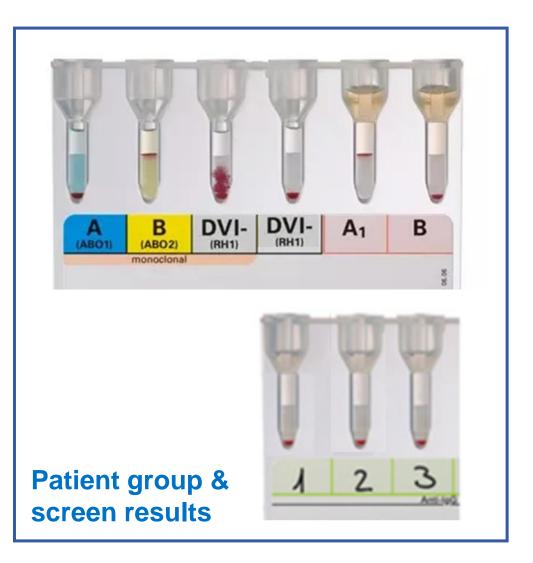
### **Processing referrals using RCI Assist**

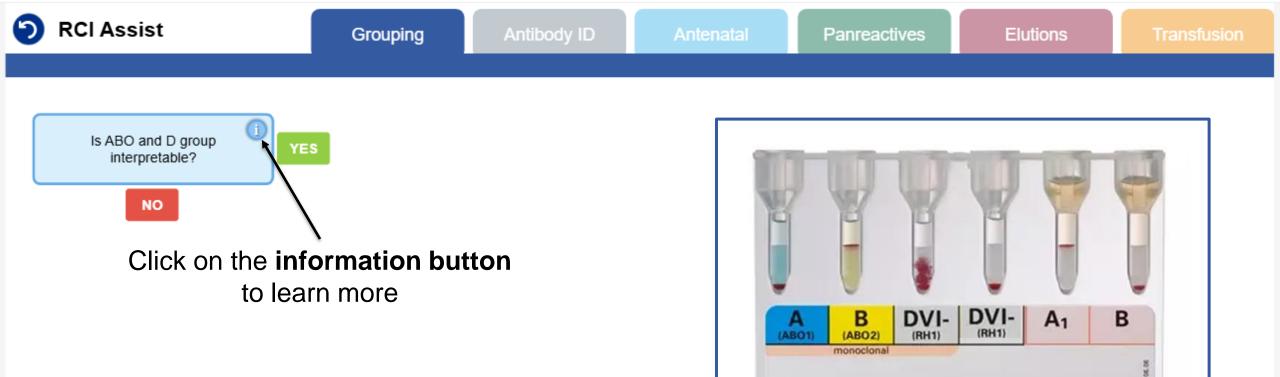
- Log into RCI Assist via Sp-ICE or OBOS
- Click to read the disclaimer
- Tick to accept you have read the disclaimer
- Answer the questions using the patient results and history
- Select the Yes or No options to move to the next prompt
- Following the pathways, you will reach a final decision point and either enter result into your LIMS or refer to RCI
- If you are unsure, please call your local RCI centre to discuss



### **Case Example**

- 35-year-old female
- Antenatal Group & Screen (booking at 11 weeks)
- First time seen by your lab
- No history on Sp-ICE
- Never been transfused











Is ABO and D group interpretable?



**(i)** 

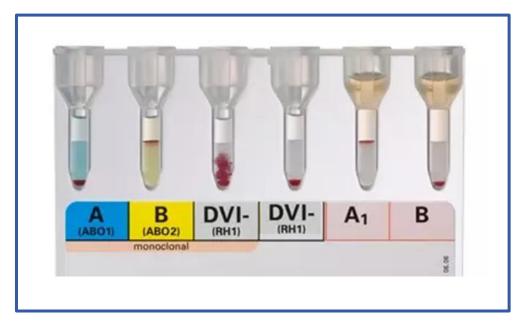
NO

#### Is ABO and D group interpretable?

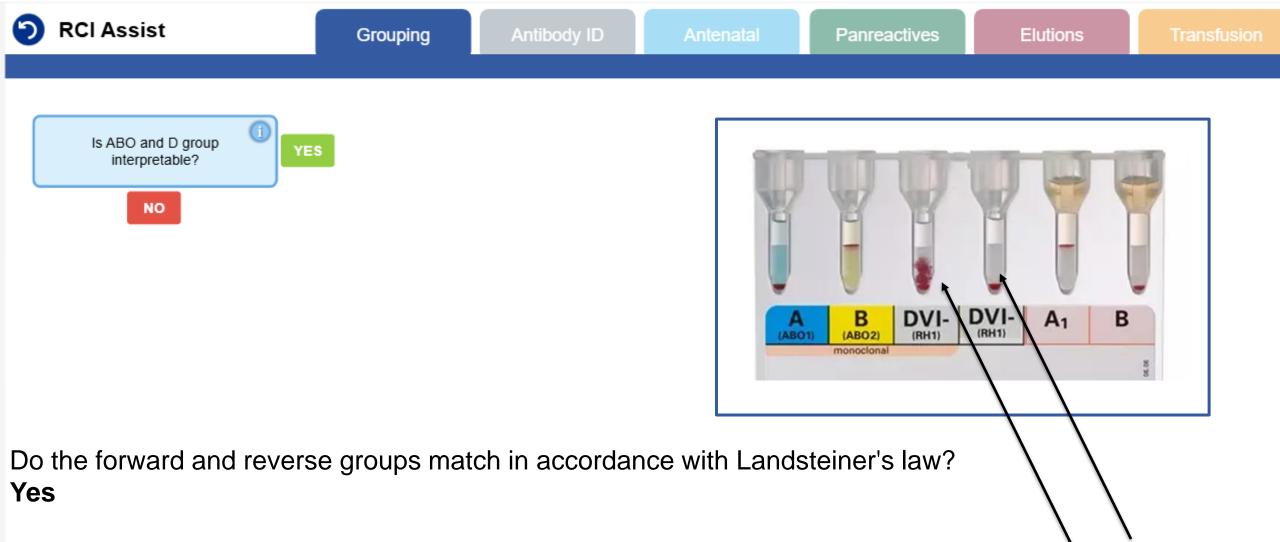
Forward and reverse ABO groups match in accordance with Landsteiner's Law.

**Note:** Neonate groups are considered 'interpretable' from forward group only.

ABO forward group and D group show strong positive (3+/4+) reactions. Reverse group reactions may be weaker.





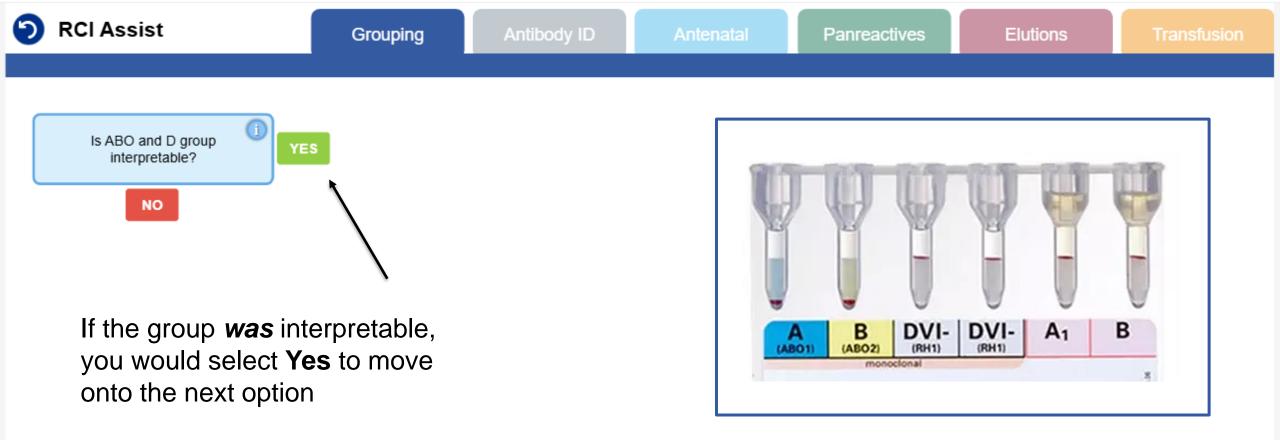


Do the ABO forward group and D group show strong positive (3+/4+) reactions? **No** – the D group does not show strong positive reactions

Therefore, the ABO and D group is **not** interpretable

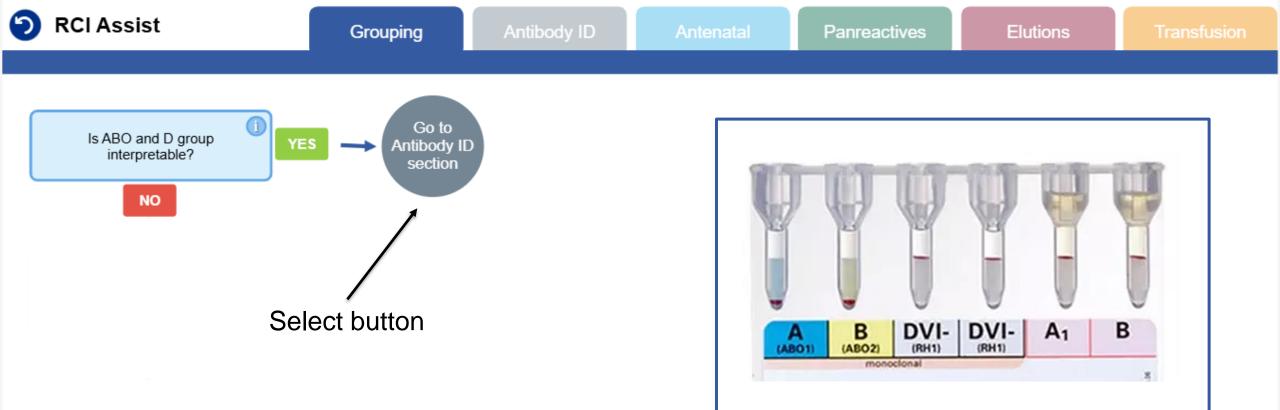
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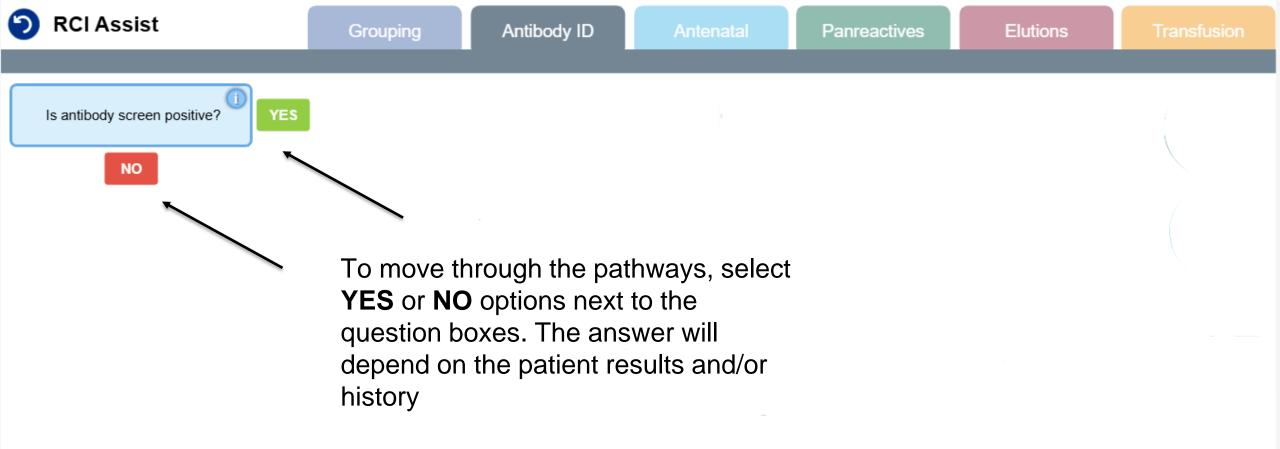




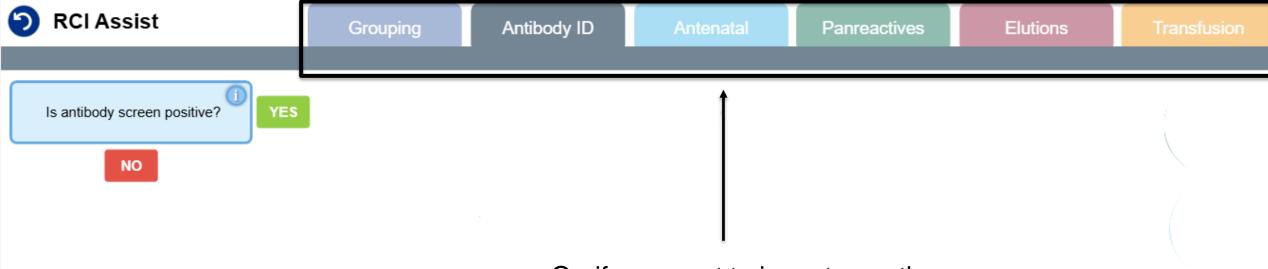




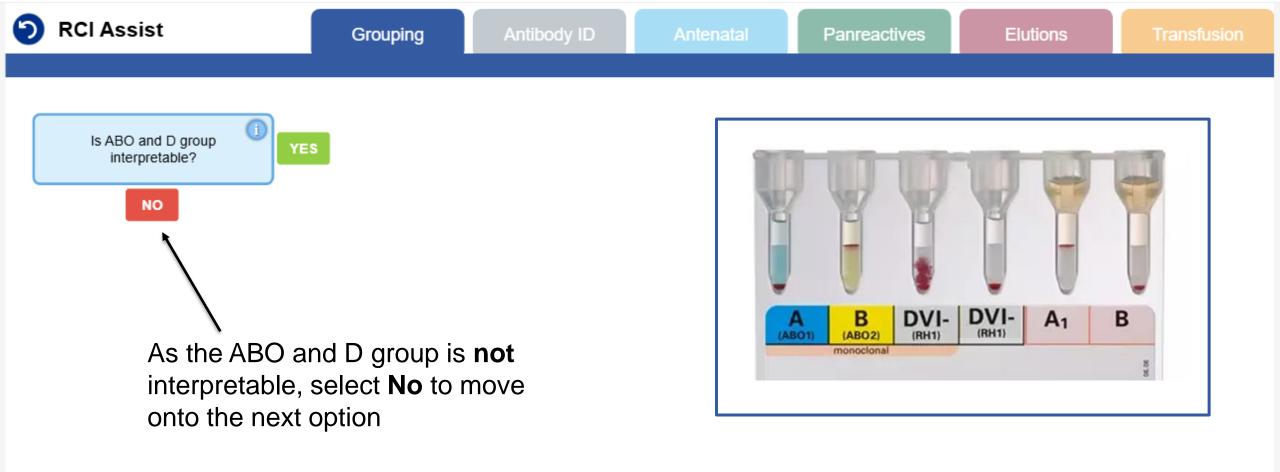






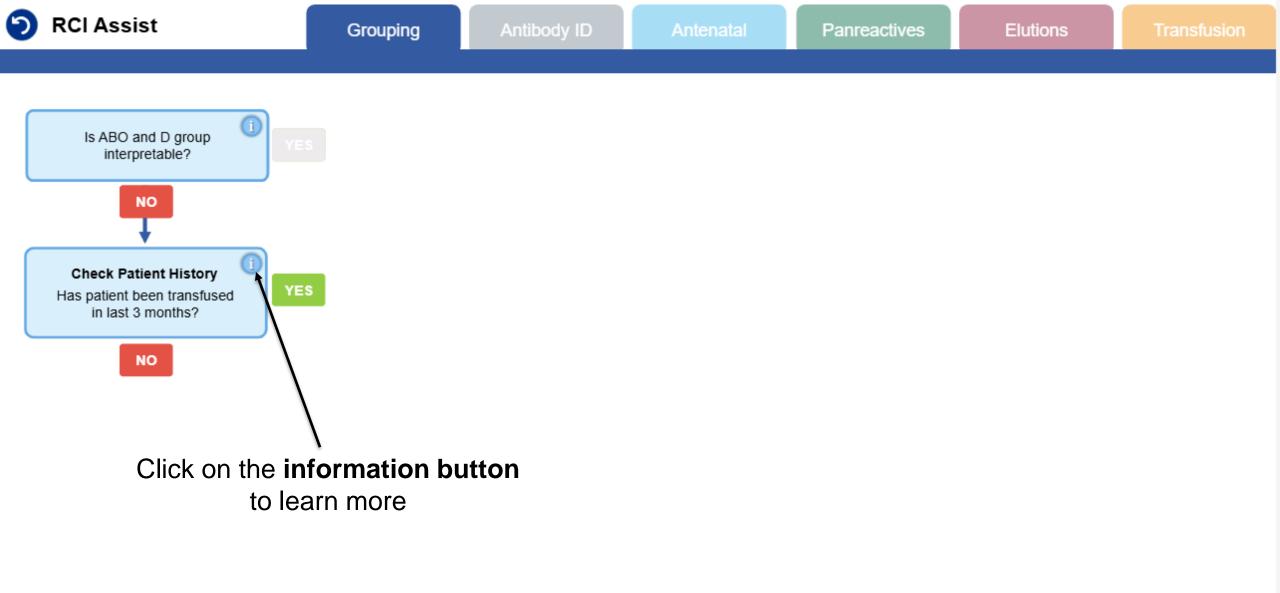


Or, if you want to jump to another section, select the required tab.











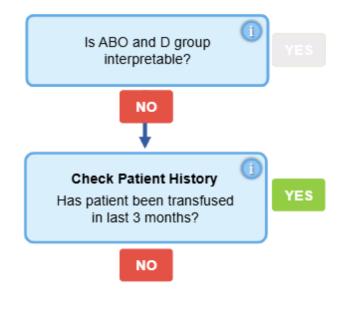


9	RCI Assist	Grouping	Antibody ID	Antenatal	Panreactives	Elutions	Transfusion
	Is ABO and D group interpretable? NO Check Patient History Has patient been transfused in last 3 months? NO	Click to learn more Check Patient History Has patient been trans A previous transfusion is anomaly with the ABO of of transfusion (red cells, Dual populations arise in transfusion (ABO and/or unexpected reactions m following transfusion wit	s the most likely sou or D group. Conside platelets, FFP, IvIg n the case of red ce D group not identionation ay occur in the reve	urce of an r any type ). ell cal), whilst erse group			
							NHS

**Blood and Transplant** 



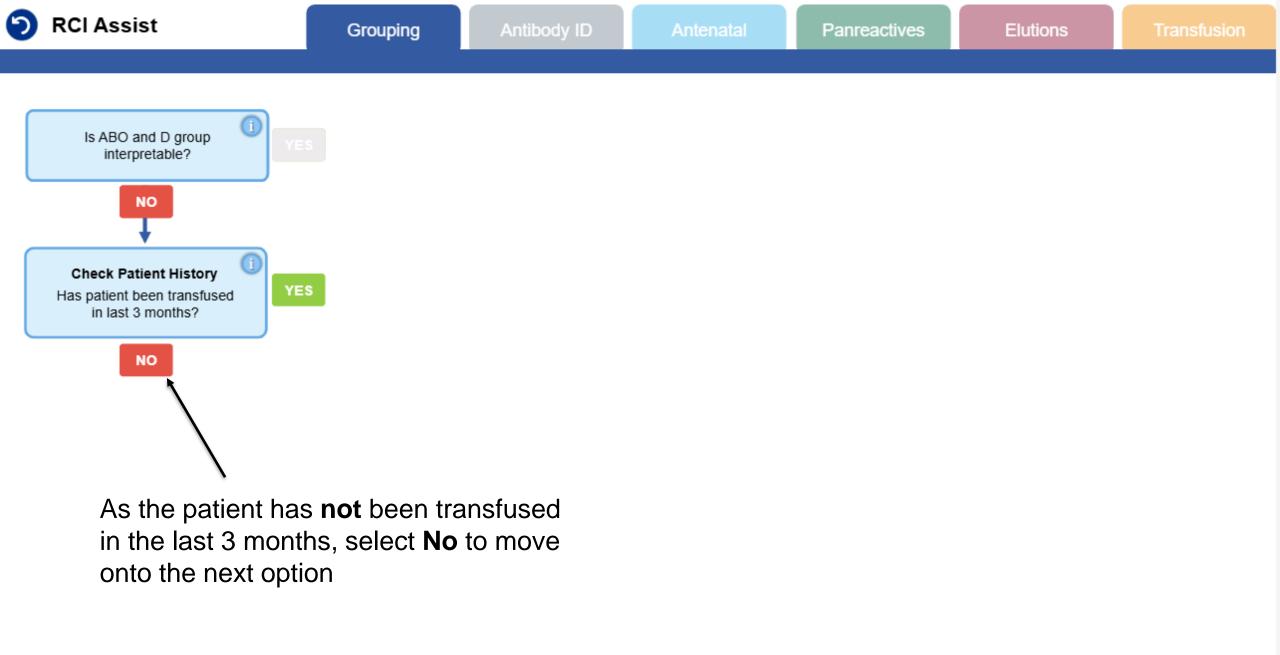
Elutions



#### Check patient history

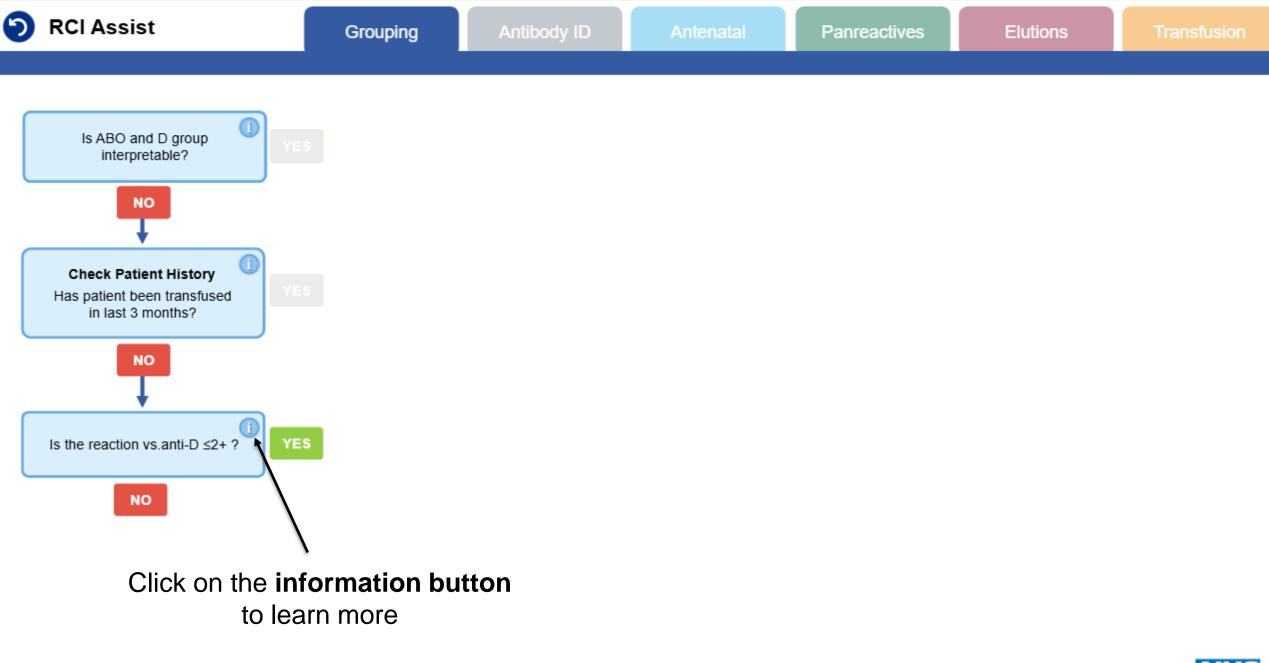






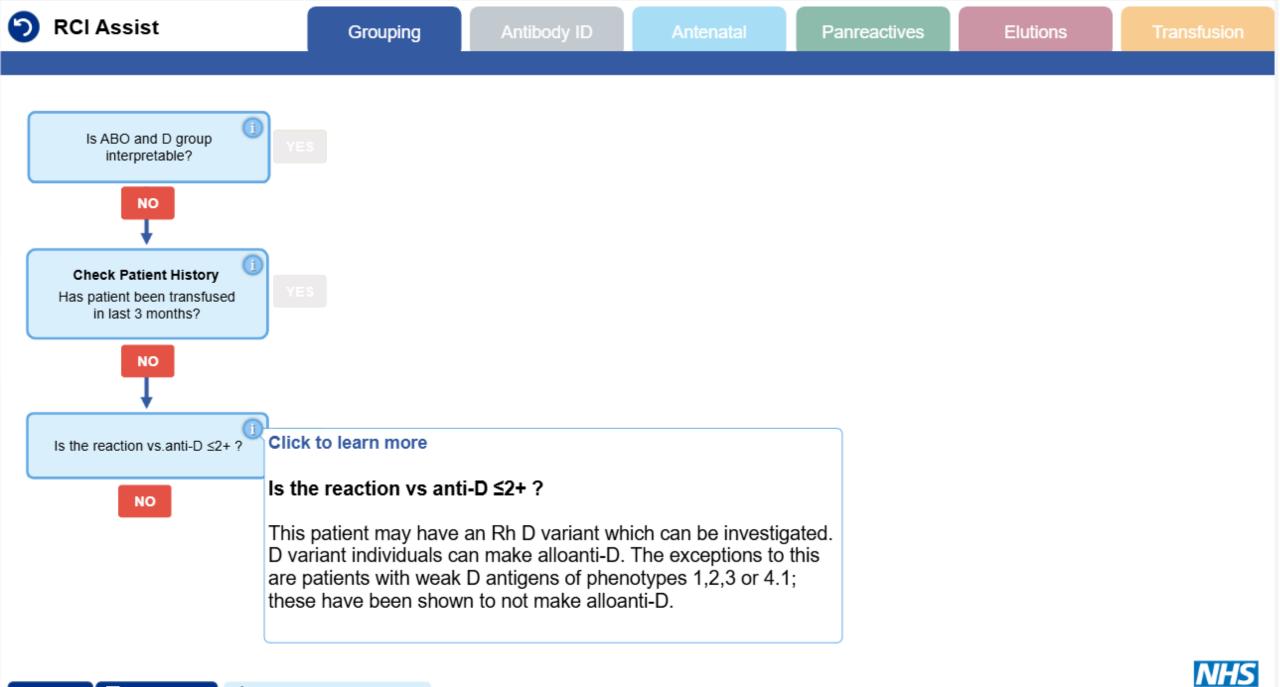


**NHS** Blood and Transplant



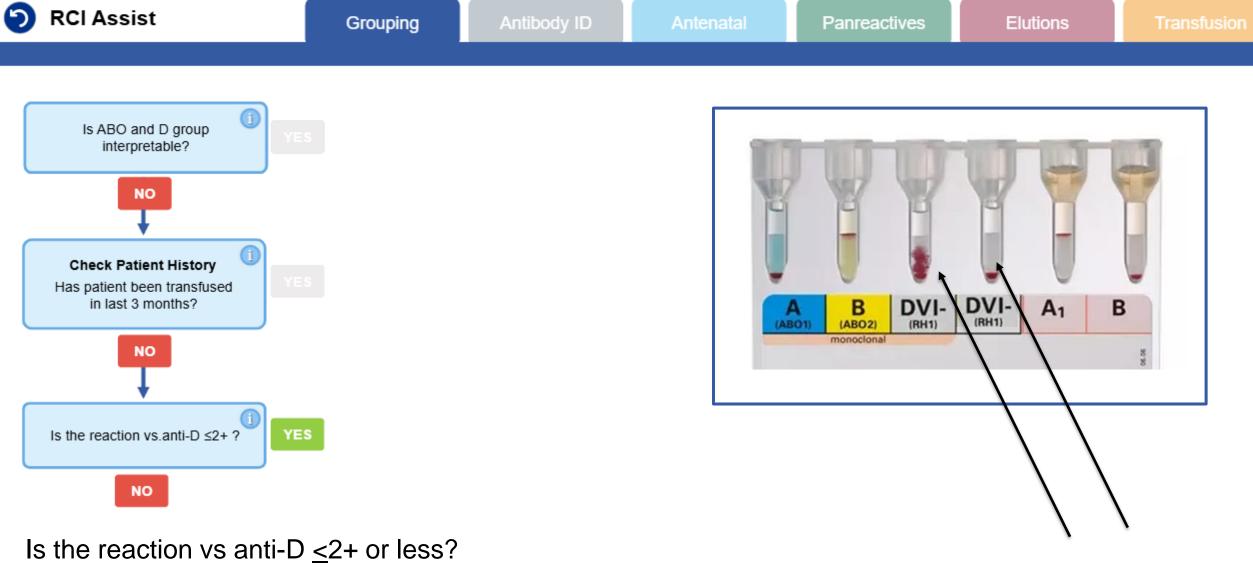






Blood and Transplant





**Yes** – the D group reactions is  $\leq 2+$  or less

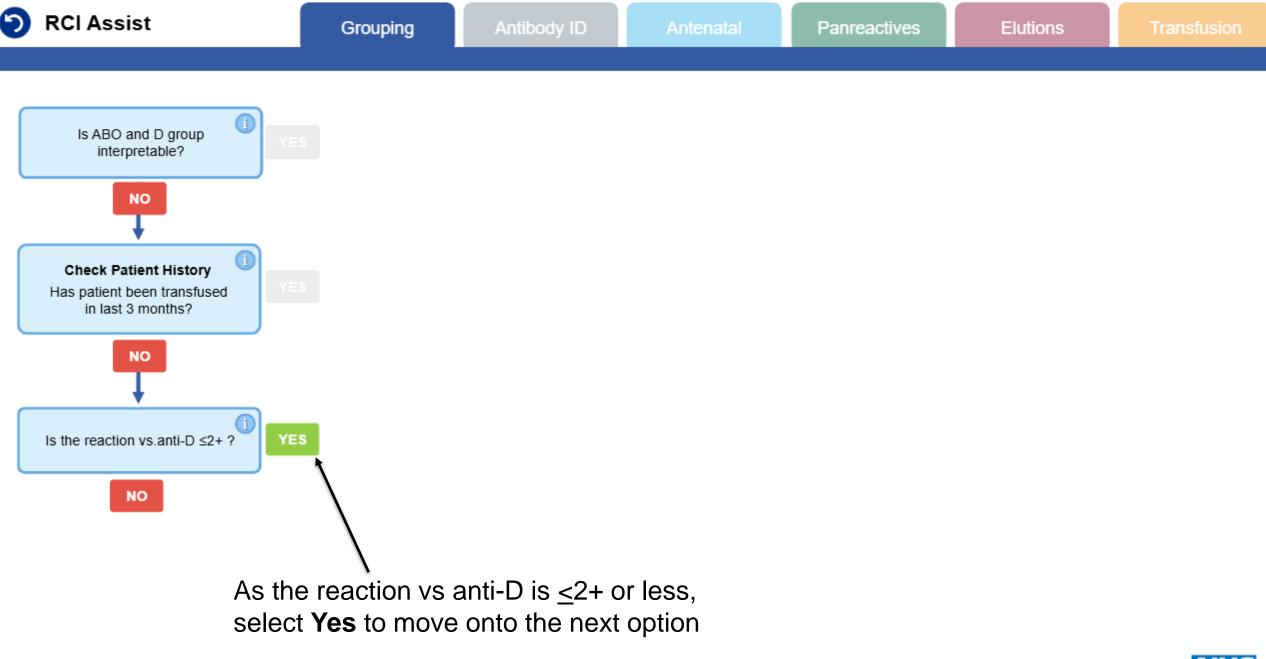
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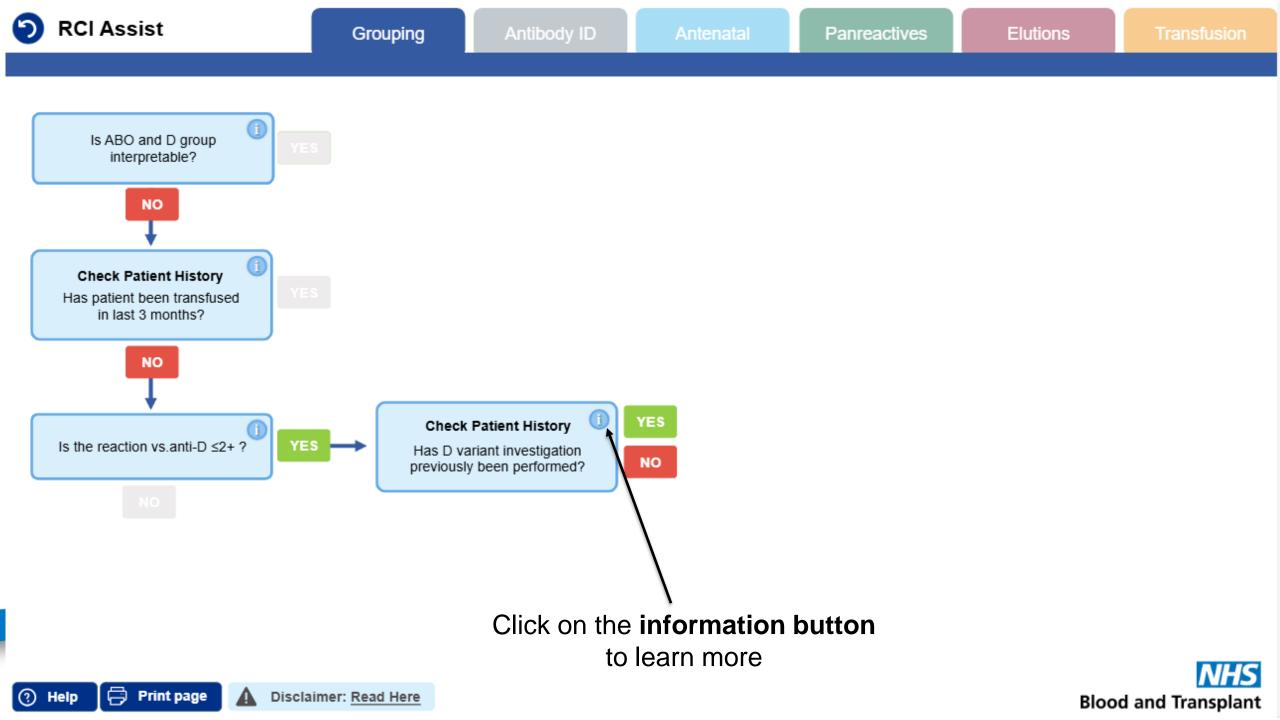
⑦ Help

**NHS** Blood and Transplant











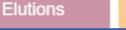
Is ABO and D group interpretable?

NO

**Check Patient History** 

Has patient been transfused

in last 3 months?





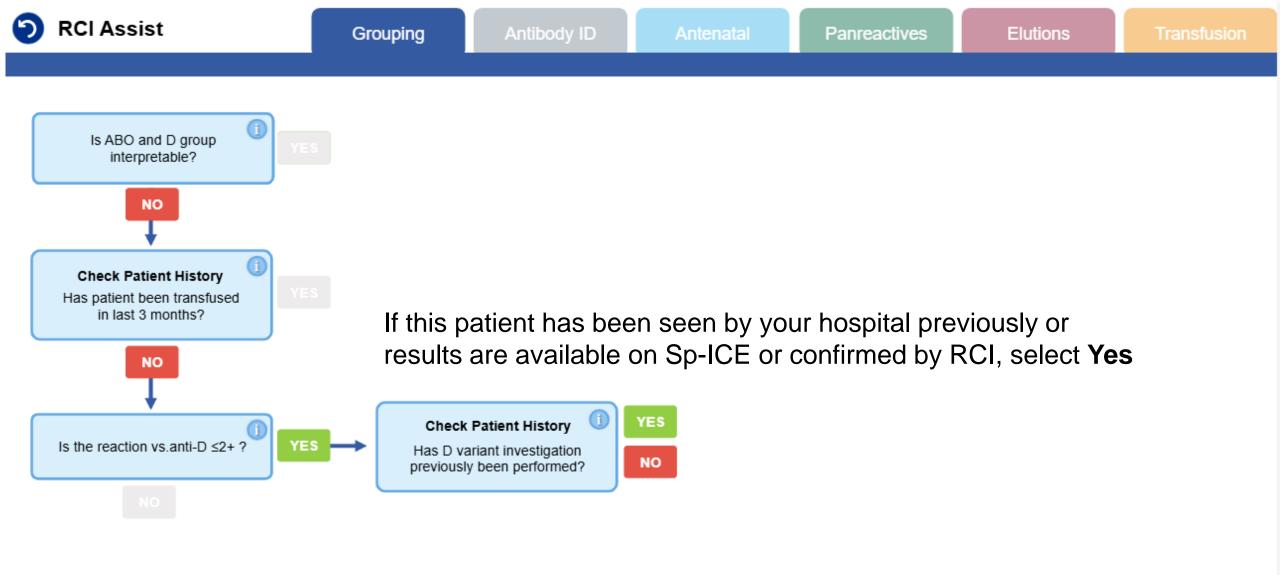
#### Click to learn more

Check Patient History Has D variant investigation been previously performed? - in your hospital or by RCI.

Samples should be referred to RCI for D variant investigation where the result has a clinical impact. For example: women of childbearing potential, chronically transfused patients or the administration of anti-D prophylaxis in pregnancy. The clinical impact of D variant investigations on males or the elderly who do not fit into the category above is negligible. Follow BSH guidelines and your local trust policy.

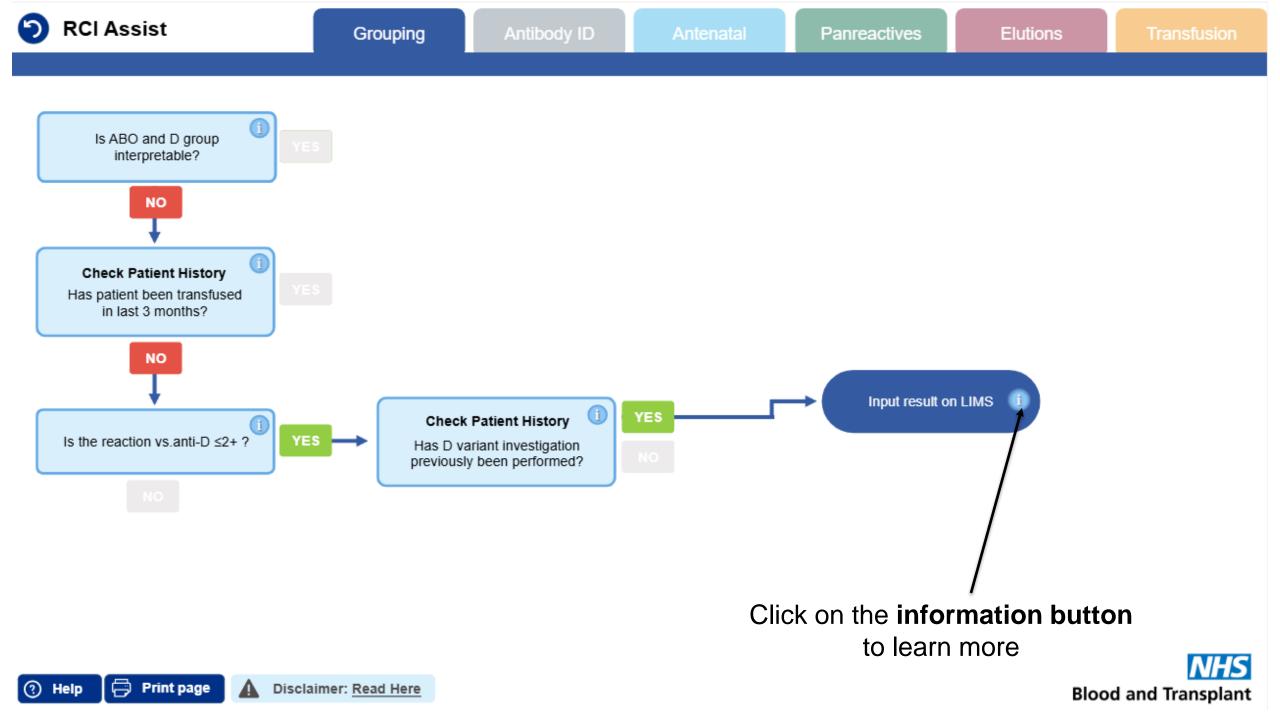
NO ↓ Is the reaction vs.anti-D ≤2+ ? Is the reaction vs.anti-D ≤2+ ? VES VES VES VES Has D variant investigation previously been performed? NO



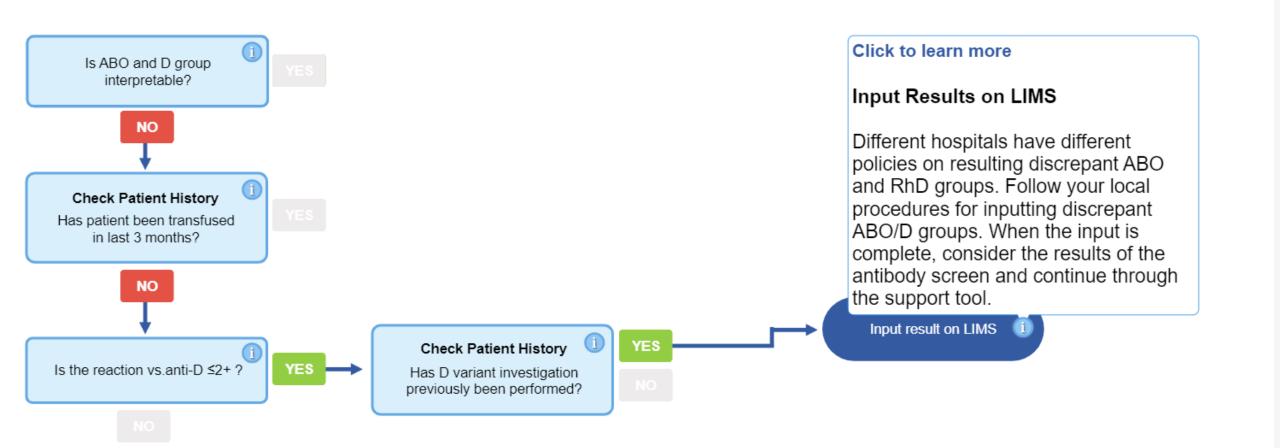




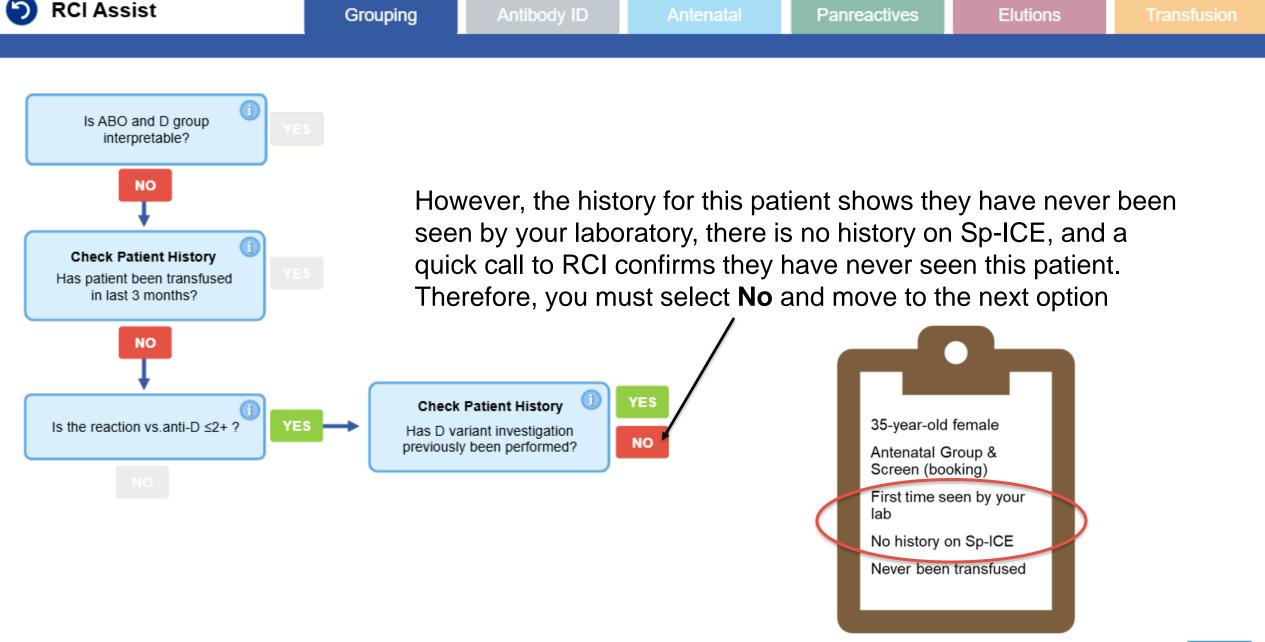






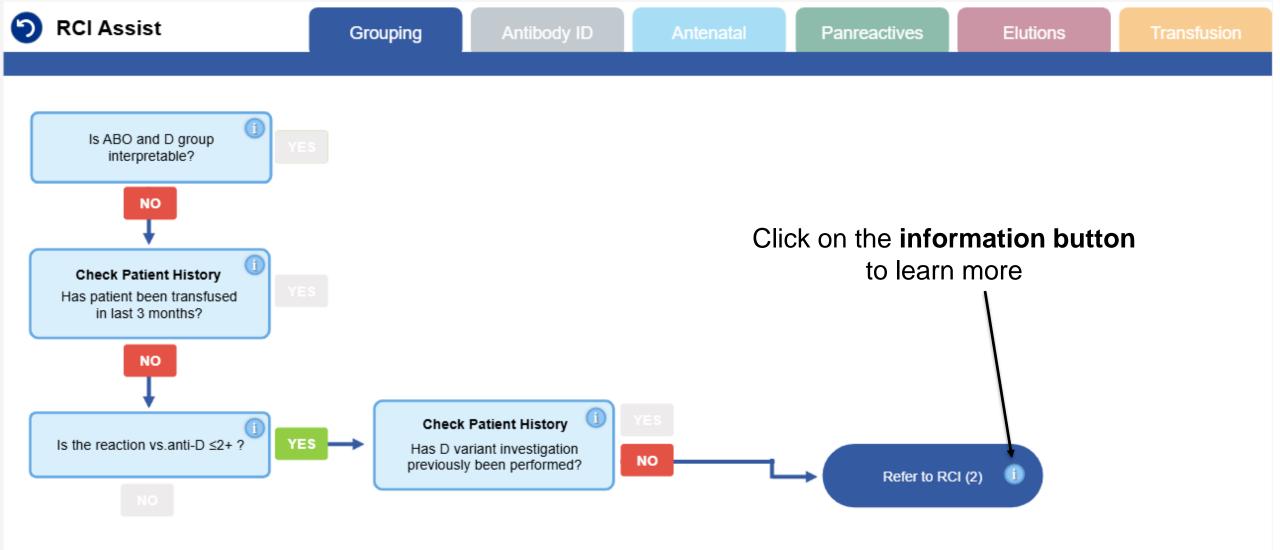




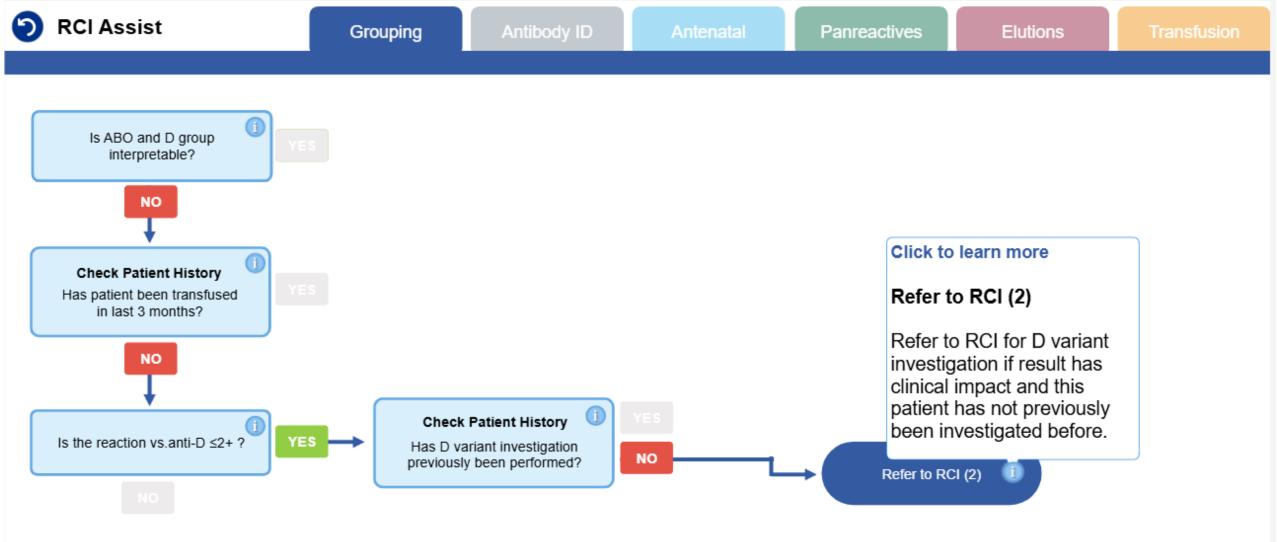




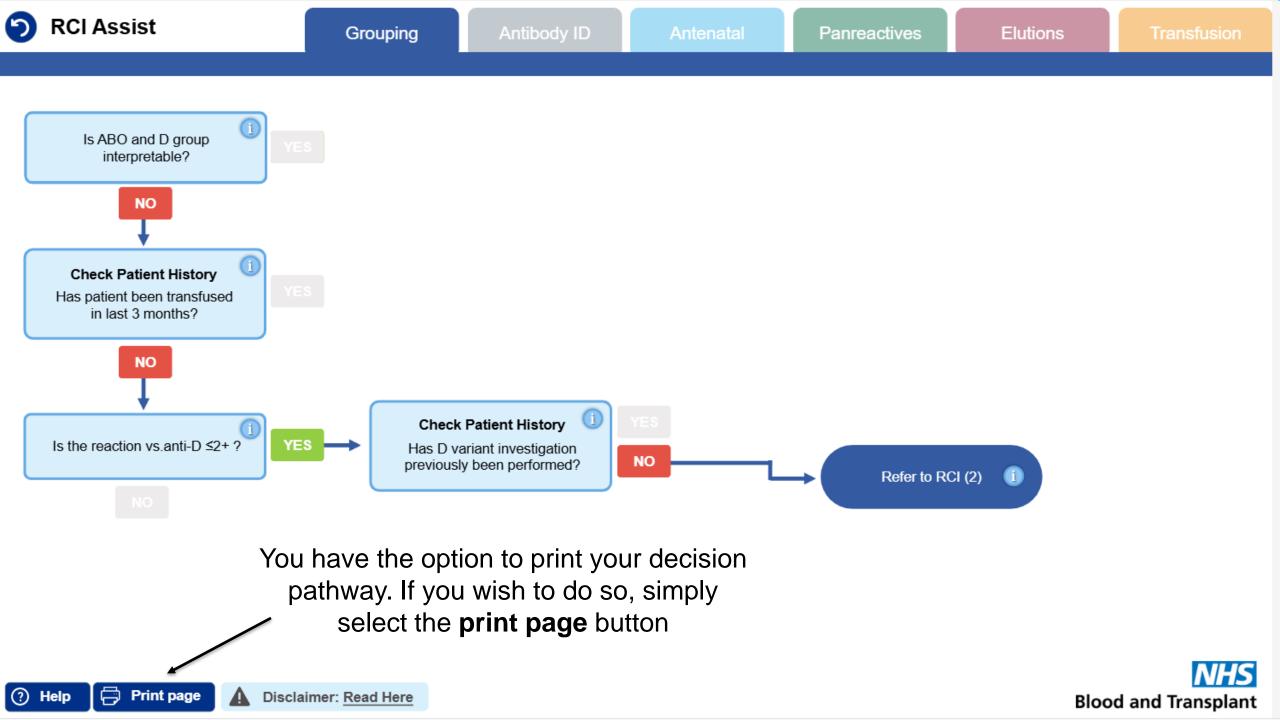








The pathway is now complete and referral to RCI would be made for this patient as there is clinical impact



## **Print page option**



1 page

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20/11/2024, 15:50		Parreactives	utions	
interpretable?				
Check Patient History Has patient been transfued Has patient been transfued				
Is the reaction vs.anti-D s2+ ? Check Has D va previously	Patient History	Barler to RCI (2)		
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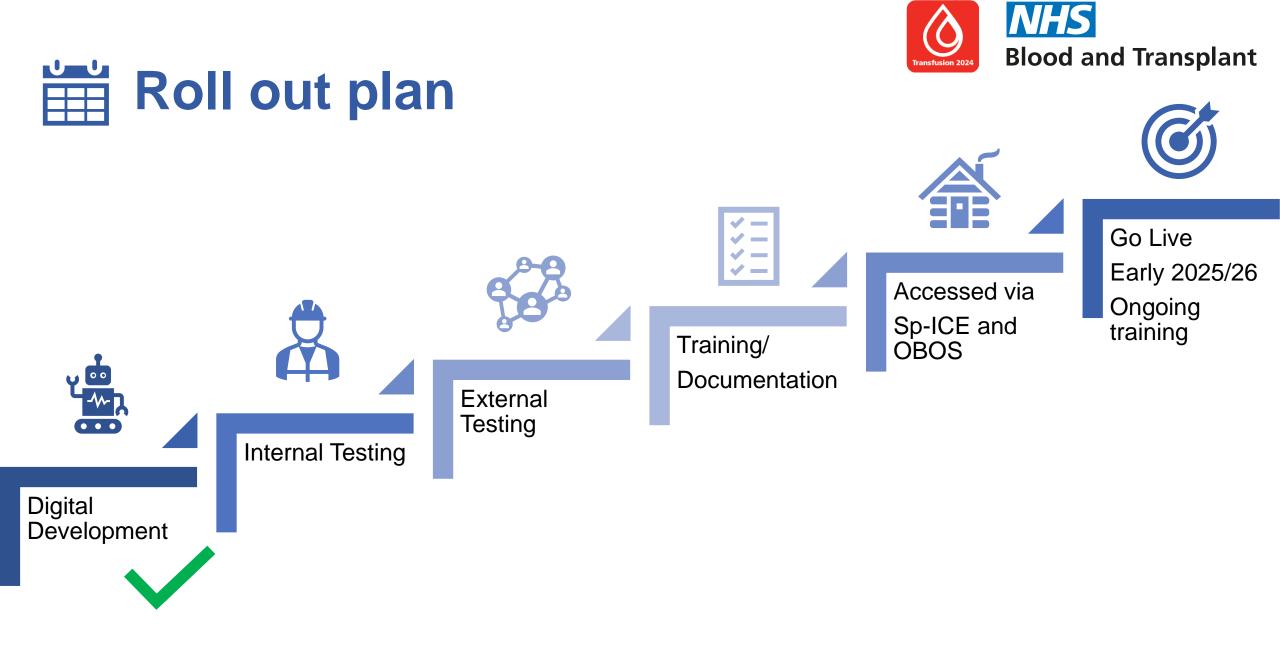




# **Queries on RCI Assist**

- For any queries relating to RCI Assist, contact your local RCI centre in the first instance
- For all other queries, please contact Hospital Customer Services on <u>NHSBTCustomerService@nhsbt.nhs.uk</u> and your query will be directed to the appropriate team





### **Transfusion 2024**





Special thanks to...

Alex Hogan, Consultant Clinical Scientist Trainee (HSST) Matt Bend, Blood Stock Management Scheme Manager Gary Cavanagh, RCI Business Development Manager Sophie Hoyle, Digital Learning Developer Staff at RCI Newcastle and **Newcastle upon Tyne Hospitals NHS Foundation Trust** Staff at RCI Barnsley and Path Links Pathology Partnership Staff at RCI Tooting and East and South-East London Pathology Partnership All those that took the time to provide feedback Transfusion 2024, RCI and NHSBT Digital Learning Team

#### **Transfusion 2024**



## Please take part in this short survey





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For further information on the project, please visit the NBTC website