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## Crossmatch Proficiency: BPT10/21 Investigation Report

### Background

Crossmatch Proficiency BPT10/21 was issued on the 11/10/21 and results due on the 27/10/21. The batch was set up using Group OPOS Red blood cells and Group B plasma. The following results were obtained

Anti- A	Anti- B	Anti A,B	A1	A2	B Cells
0	0	0	4	4	0

These results can be interpreted as follows:

**Weak B** – If taking into consideration forward and reverse grouping results and phenotyping performed

**Group O** – If only the forward grouping was performed

**Inconclusive** – Results interpreted as discrepant/Refer

With reference to the AABB Technical Manual, 16<sup>th</sup> Ed. Chapter 12. (ABO Discrepancies)

“A discrepancy exists when the results of red cell tests do not agree with the serum tests, usually caused by unexpected negative or unexpected positive results in either the forward or reverse typing.

When a discrepancy is encountered, the discrepant results must be recorded, but interpretation of the ABO group must be delayed until discrepancy is resolved. When an ABO discrepancy is identified in patient, it may be necessary to transfuse group O red cells pending an investigation.”

The Proficiency Department recorded the results as “ **Inconclusive**”, and updated the memorandum as such. Refer to Table 1: The Summary of Expected results

<b>Table 1: Summary of Expected Results</b>		
	<b>ABO</b>	<b>DAT</b>
Patient Blood Group	Inconclusive	Negative
Screenings	Positive	
Donor 1 Blood Group	O Pos	Negative
Donor 1 Compatible with patient	Yes	
Donor 2 Blood Group	O Pos	Negative
Donor 2 Compatible with patient	Yes	
Donor 3 Blood Group	O Pos	Negative
Donor 3 Compatible with patient	Yes	
Donor 4 Blood Group	O Pos	Negative
Donor 4 Compatible with patient	Yes	
Patient Antibodies	Anti-K	

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Universal Blood Type



Donates to ..... Everyone

Receives from .....

Reports were generated on the 2 November, indicating 20% failures

### Batch BPT10/21 - Crossmatch

Sets in Batch	328
Sets Sent to Institution	328
Completed Sets	311
Outstanding Sets	8
Untestable Sets	9
Multiple Results Submitted for a Single Set	0
Number of Passes	246
Number of Failures	65
Percentage Passes	79.10%
Average Score	89.96%

**Table 2: Patient Bloodgroup results**

Blood group identified	n=311 (%)
Inconclusive	246 (79%)
Weak B	15 (4.8%)
Weak A	1 (0.3%)
Other (Weak B)	3 (0.96%)
Group B	4 (1.3%)
Other	5 (0.05%)
Other (Weak B)	3(0.96%)

65/311 (21%) participants failed

Due to this increased % of failures we investigated the reason for the failures. Refer to table 3

**Table 3: Participant Results- Reason for failures**

Participant Discrepant Results (n=65)		
Blood Group	Number of Participants	Percentage
Group O	37	57%
Weak B	15	23%
Weak A	1	2%
Other (Weak B)	3	5%
Group B	4	6%
Other	5	8%
	65	

- Off the 37 participants that interpreted the patient group as OPOS, the majority (95%) are external participants. This can be because they only performed a forward ABO grouping. We can however not confirm this as the system only make provision for final group and not test results.
- Fifteen (15) participants interpreted Patient group as Weak B, of which 80% are SANBS participants,

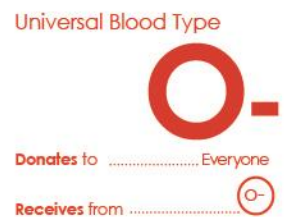
The PT office, following collaboration with the PAC, concluded the following:

1. The batch is valid.
2. If your laboratory only performs a forward grouping then group O is an acceptable result, please review and make a note on your report.

Regards

  
 Truscha Niekerk  
 PT Scheme Manager  
 11 November 2021

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