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| **Transfusion Management for Patients taking an Anti-CD38 Monoclonal Antibodies**  |
| **Purpose** | This procedure provides guidelines for the transfusion management for patients taking an anti-CD38 monoclonal antibodies |
| **Policy Statements** | * Anti-CD38 is an Anti-CD38 monoclonal antibody that binds CD38 on cells.
* CD38 is expressed at low levels on RBCs
* Interferes with pre-transfusion tests by causing panreactivity in indirect antiglobulin tests there by clinically masking alloantibodies.
* Anti-CD38 results in a false positive antibody screen
* Anti-CD38 does not interfere with identification of ABO/Rh
* It is recommended to do the following before starting monoclonal antibody therapy
	+ Baseline ABO/RH, antibody screen and antibody ID if required
	+ DAT
	+ RBC genotyping
* If blood needed urgently can provide ABO extended RH and K compatible pending further serological testing
* In an absolute emergency follow the Emergency Release policy.
* Panagglutination may persist up to 6 months after the last Anti-CD38 infusion
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| **Procedure** |  |
|  | **Step** | Action |
|  | 1 | Recheck patient’s history for the following when the antibody screen is interpreted as positive:* Antibody history
* Date of last transfusion
* Check if the patient was infused Anti-CD38, if so when last dose.
* Previous workup results and testing patterns
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| **If** | **Then**  |
| Patient has been infused with Anti-CD38 within the last 6 months with a positive antibody screen. | * Perform RBC genotype if not already done.
* Perform antibody identification study if not done within the last 7 days or if changes are noted in the antibody screen reactivity pattern and/or strength of reactions
* Provide extended RH and K negative blood crossmatched through AHG
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| The patient has been infused Anti-CD38 within the last 6 months with a negative antibody screen and no clinically significant antibodies. | * Follow routine transfusion procedures
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| **References** | 1. AABB Standards for Blood Banks and Transfusion Services, Current edition
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| **Approval****Workflow** | Transfusion Service/Laboratory Medical Director  |
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| **Historical Record** | **Version** | **Written/Revised by:** | **Effective Date:** | **Summary of Revisions** |
| 1 | S.Cassidy | 10/14/2024 | Initial Version |