

# To Ensure Timely Transfusions

## REMEMBER

*If a patient who received daratumumab requires a transfusion:*



Type and screen patients prior to starting daratumumab. Inform the blood bank that your patient has been treated with daratumumab which interferes with indirect antiglobulin tests



Ensure that your patient's blood sample is identified as containing daratumumab



Double-check standing orders for transfusions to determine if your patient received daratumumab within the last year



Ensure patients are given a Patient ID Card for daratumumab and provide your patient's pre-daratumumab compatibility profile, if available, to the blood bank



Ask your patient to tell their other HCPs that they have received daratumumab, particularly before a transfusion

## References

1. Daratumumab Summary of Product Characteristics, Janssen-Cilag International NV, Beerse, Belgium.
2. Chapuy CI, Nicholson RT, Aguad MD, et al. Resolving the daratumumab interference with blood compatibility testing. *Transfusion*. 2015;55(6Pt 2):1545-1554.
3. Albeniz I, Demir O, Turker-Sener L, Yalcintepe L, Nurten R, Bermek E. Erythrocyte CD38 as a prognostic marker in cancer. *Hematology*. 2007;12(5):409-414.
4. Mehta K, Shahid U, Malavasi F. Human CD38, a cell-surface protein with multiple functions. *FASEB J*. 1996;10(12):1408-1417.
5. Zocchi E, Franco L, Guida L, et al. A single protein immunologically identified as CD38 displays NAD<sup>+</sup> glycohydrolase, ADP-ribosyl cyclase and cyclic ADP-ribose hydrolase activities at the outer surface of human erythrocytes. *Biochem Biophys Res Commun*. 1993;196(3):1459-1465.
6. Oostendorp M, Lammerts van Bueren JJ, Doshi P, et al. When blood transfusion medicine becomes complicated due to interference by monoclonal antibody therapy. *Transfusion*. 2015;55(6 Pt 2):1555-1562.
7. Hannon JL, Clarke G. Transfusion management of patients receiving daratumumab therapy for advanced plasma cell myeloma. *Transfusion*. 2015;55(11):2770.

For full prescribing information, please refer to the data sheet or contact Johnson & Johnson Middle East FZ LLC, Mohamed Bin Rashid Academic Medical Centre – Building 14, Level 7 – Dubai Healthcare City – Dubai 505080, United Arab Emirates, Tel: +97144297200 Fax: +97144297150.

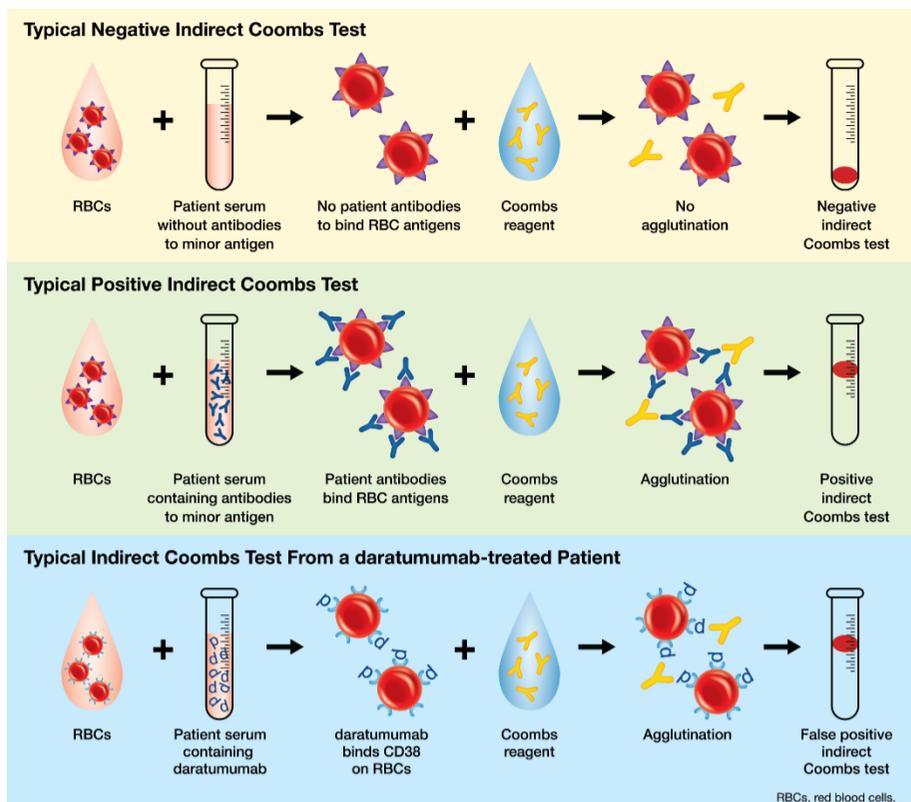
**Adverse events reporting guidance:**

To report Adverse Events/Product Complaint, please contact us at: Email: [GCC-PV2@its.jnj.com](mailto:GCC-PV2@its.jnj.com) Hotline: +971559816775

# DARATUMUMAB

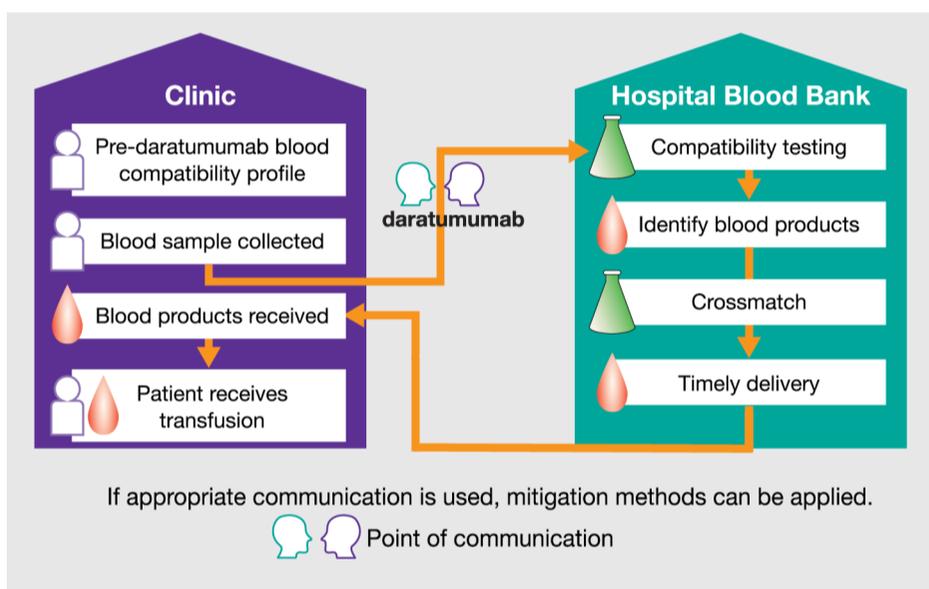
## Understanding daratumumab Interference with Blood Compatibility Testing

## daratumumab Results in a False Positive Indirect Coombs Test



- daratumumab is a human monoclonal antibody for the treatment of multiple myeloma or AL Amyloidosis<sup>1</sup>
- daratumumab binds to CD38,<sup>2</sup> a protein that is expressed at low levels on red blood cells (RBCs)<sup>3-5</sup>
- daratumumab binding to RBCs may mask the detection of antibodies to minor antigens in the patient's serum. This interferes with blood bank compatibility tests, including the antibody screening and crossmatching<sup>2</sup> (both indirect Coombs tests) that are part of a routine pretransfusion work up

## Help Prevent Blood Transfusion Delays



- Blood compatibility testing can still be performed on daratumumab-treated patients
- Blood products for transfusion can be identified for daratumumab-treated patients using protocols available in the literature<sup>2,6</sup>, or locally validated methods. Genotyping may also be considered
- **To ensure that your patient receives a timely transfusion, type and screen patients prior to starting daratumumab and inform the blood bank that they will receive a sample from a daratumumab-treated patient. Phenotyping may be considered prior to starting daratumumab treatment as per local practice.**

## daratumumab Interference Is Clinically Manageable

- To date, no clinically significant hemolysis has been observed in patients receiving daratumumab, and no transfusion reactions have occurred in patients requiring RBC and whole blood transfusions (data on file)
- daratumumab does not interfere with identification of ABO/RhD antigens<sup>2</sup>
- If an emergency transfusion is required, non-crossmatched, ABO/RhD-compatible RBCs can be given, per local blood bank practices<sup>6</sup>
- Once treatment with daratumumab is discontinued, pan-agglutination may persist; the duration of this effect varies from patient to patient, but may persist for up to 6 months after the last daratumumab infusion<sup>6</sup>. Therefore, patients should carry their Patient ID Card for 6 months after the treatment has ended
- Patients should be advised to consult the Patient Information Leaflet (PIL) for further information

## Additional Resources

In order to improve the traceability of Darzalex, the tradename and the batch number of the administered product should be clearly recorded in the patient file and when reporting an Adverse Event.