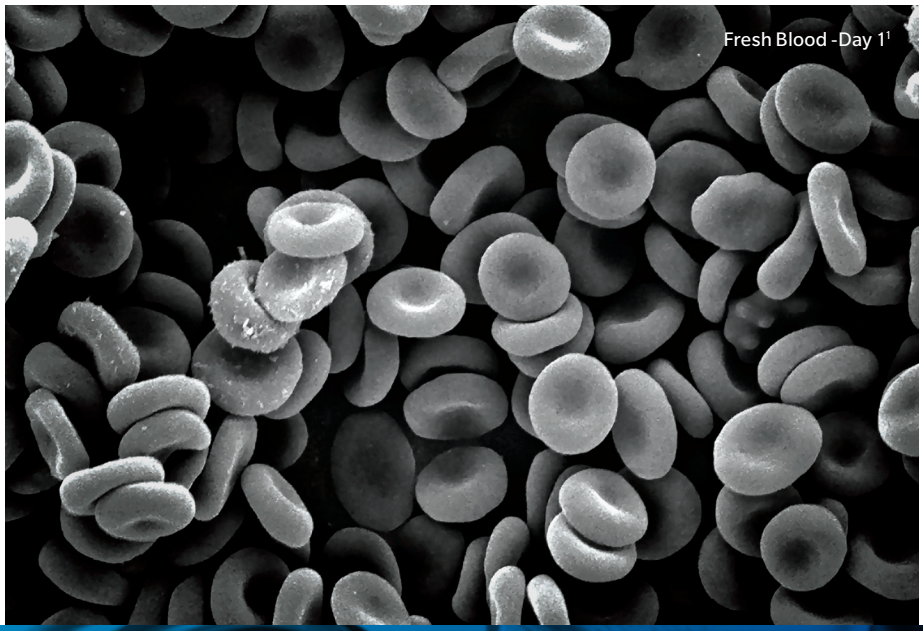
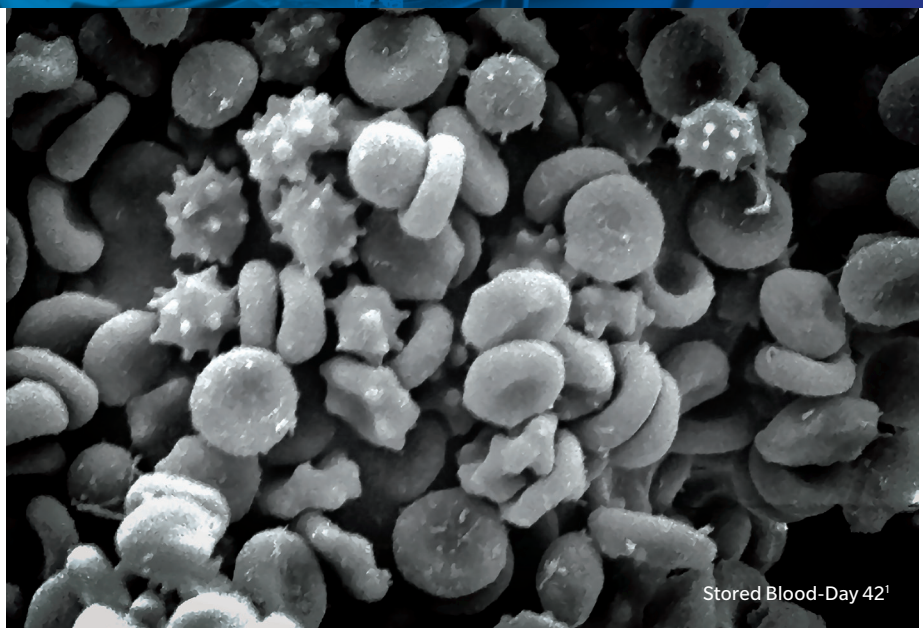
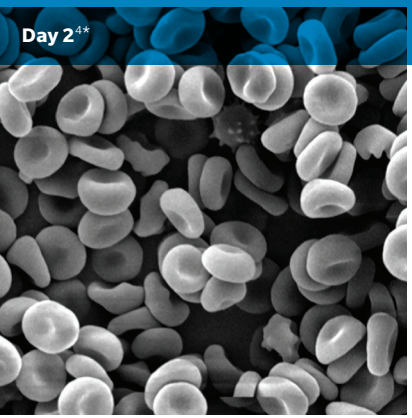
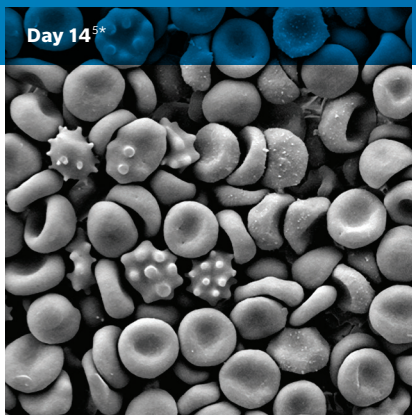


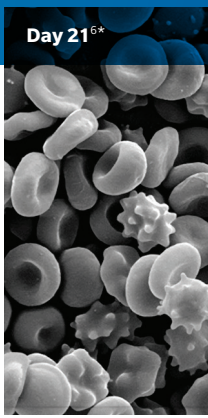
Every two seconds, someone in the U.S. needs blood.[2]
Transfusions of Red Blood Cells (RBCs) are done primarily to deliver much-needed oxygen (O_2) to tissues and cells.[3]

Which group of RBCs would you want in that bag?



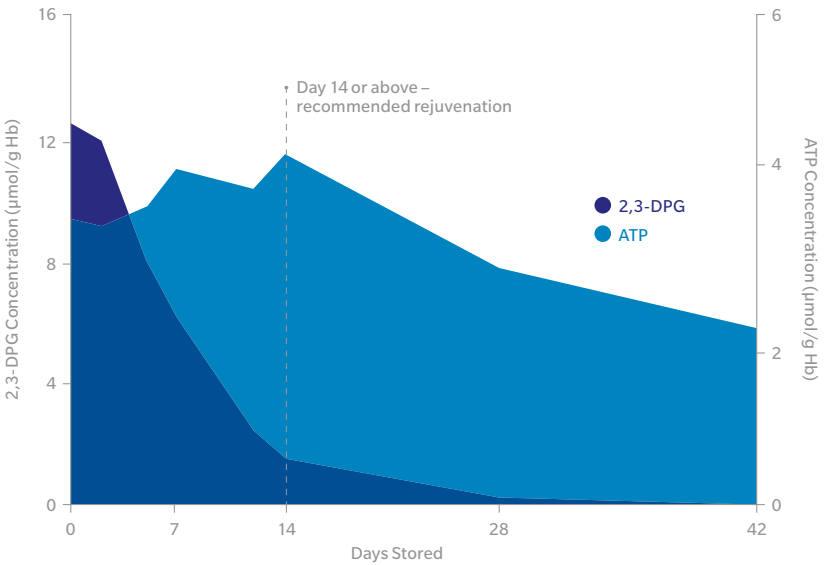


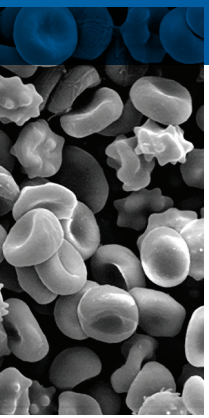


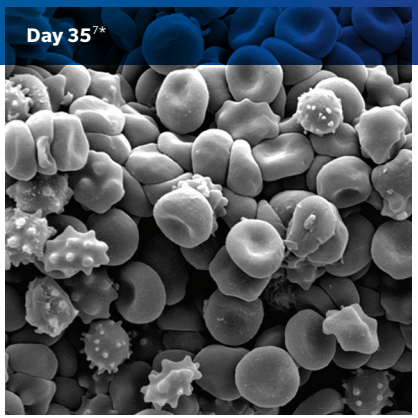


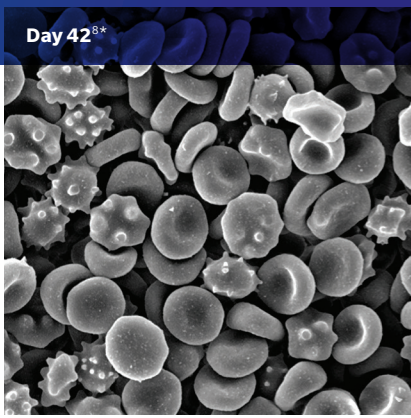
▲ RBCs undergo changes during storage collectively referred to as **Storage Lesion** which may impair their ability to deliver O_2 to the tissues.[9-12]

▼ As a consequence of storage lesion, stored RBCs undergo **metabolic changes** that include reduced levels of ATP and 2,3-DPG, which may impact O_2 transport and release[9-13]









rejuvesol Red Blood Cell Processing Solution
restores 2,3-DPG and ATP in stored RBCs to fresh levels.[14]

rejuvesol solution is:

- A sterile, non-pyrogenic solution of sodium pyruvate, inosine, adenine, dibasic sodium phosphate, and monobasic sodium phosphate.[14]
- Designed for the extracorporeal rejuvenation of a unit of RBC concentrate.[14]
- Now approved for immediate transfusion of leukoreduced CPD/AS-1 and CP2D/AS-3 stored Red Blood Cells.

Important Safety Information: rejuvesol Solution is not for direct administration to patients. For in vitro processing of stored RBCs. Rx only. After rejuvenation, RBC must either be washed prior to transfusion or glycerolized and frozen. For details see Package Insert, call 1-800-299-3411 or visit http://www.rejuvesol.com. You are encouraged to report negative side effects of Rx drugs to the FDA. Visit MedWatch4 or call-1-800-FDA-1088. rejuvesol™ is a trademark of Biomet Biologics. Manufactured for Citra Labs, LLC, 55 Messina Drive, Braintree, MA 02184, USA.

References

1. Scanning Electron Microscopic (SEM) pictures of fresh and stored RBCs. **Fresh-day 1:** Whole blood (WB) sample in EDTA was collected on the same day from a different donor that the stored RBCs were processed. **Day 42:** RBCs were stored at 1-6 °C for 42 days as CPD/AS-1 (pre-storage leukocyte-reduced). Pennsylvania, School of Medicine, Philadelphia, PA. August 2014 (Unpublished data from bench research).
2. Department of Health and Human Services. The 2011 national blood collection and utilization survey report. Washington, DC: DHHS, 2013
3. Kim-Shapiro DB, et al. Transfusion. 2011;51(4):844-851
4. Day 2: SEM Photo of Leukocyte-Reduced (LR) RBC (CPD/AS-1), derived from 500 mL of Whole blood (WB), and stored @ 1-6 °C for 2 days
5. Day 14: SEM Photo of LR-RBC (CPD/AS-1), derived from 500 mL of WB, and stored @ 1-6 °C for 14 days
6. Day 21: SEM Photo of LR-RBC (CPD/AS-1), derived from 500 mL of WB, and stored @ 1-6 °C for 21 days
7. Day 35: SEM Photo of LR-RBC (CPD/AS-1), derived from 500 mL of WB, and stored @ 1-6 °C for 35 days
8. Day 42: SEM Photo of LR-RBC (CPD/AS-1), derived from 500 mL of WB, and stored @ 1-6 °C for 42 days
9. Doctor A, et al. Semin Perinatol. 2012;36(4):248-259
10. Kim-Shapiro DB, et al. Transfusion. 2011;51(4):844-851
11. Kor DJ, et al. Bosn J Basic Med Sci. 2009; 9(suppl 1):21-27
12. Hess JR. Transfus Apher Sci. 2010;43(1):51-59
13. Valeri, CR, et al. Surg., Gyn, & Obs 1988;166:33-46.
14. rejuvesol Solution IFU FL7000 12/15
15. LR-RBC (CPD/AS-1) that were treated on Day 42 with rejuvesol® Red Blood Cell Processing Solution (50 mL), incubated for 60 minutes in a water bath at 37 °C, washed using Haemonetics model ACP 215, and re-suspended in 0.9%, NaCl, 0.2% Dextrose solution.

* SEM images series (references 4-8 and 15) were prepared from a single unit. Pennsylvania, School of Medicine, Philadelphia, PA. August 2014 (Unpublished data from bench research).

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