

Use of the Temperature-Indicator CHECK-SPOT™ for Temperature Monitoring of RBCs

H. Schennach^a, *E.M. Amann*^a, *M. Meyer*^a, *H. Temmel*^b, *D. Schönitzer*^a
^a Central Institute For Blood Transfusion, University Clinic Innsbruck, Austria
^b Messrs. Harald H. Temmel KG, Austria, 8200 Gleisdorf, Kernstockgasse 4,
 tel: +43 3112 2917, fax +43 3112 4371, e-mail: office@temmel-austria.com



RBCs in added solution

- *Shipping conditions* in accordance with the European Council guidelines, AABB Standard: **+10°C** core temperature may not be exceeded
- *Guideline* :
 If, after proper storage the RBC handling is effected in an ambient temperature of **+22° C** for 30 minutes, the core temperature will exceed **+10°C**

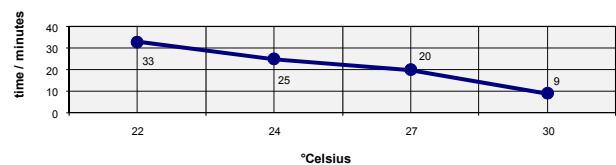


Spot-Gun: activation- and dispensing device – easy to use anywhere

Visualization



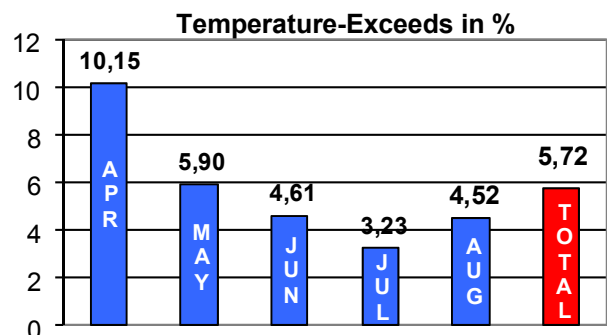
Color change variations in different ambient temperatures



Results

month	issuings	returns	temperature exceeds	temp. exceeds %
4	2898	818	83	10,15
5	2764	627	37	5,90
6	2711	629	29	4,61
7	3335	868	28	3,23
8	3174	730	33	4,52
	14882	3672	210	5,72

Quality Assurance – It was possible to significantly reduce the incidence of temperatures exceeding the set limit thanks to proper training and to the reliability of the CHECK-SPOT



Conclusion

- valid system for temp monitoring and related documentation
- easy handling without any complicated support
- relatively economical: about 0,5 € / pcs.
- if after monitoring the RBCs no red color is shown, they may be put back in stock
- careful handling of the donated blood and RBCs as well is highly recommended