

# **Blood circulation. Analysis of costs**

EZKERRALDEA - ENKARTERRI - CRUCES ERAKUNDE SANITARIO INTEGRATUA ORGANIZACIÓN SANITARIA INTEGRADA EZKERRALDEA - ENKARTERRI - CRUCES

*Ustarroz Aguirre, Iker*; Acaiturri Ayesta, Mª Teresa; Gómez Inhiesto, Elisa; León Araujo, Carmen; Uresandi Iruin, Amaia; Mateos Mazón, Juan; Benito Ruiz de la Peña, Raquel; Ibarrola Gutiérrez, Mª Inmaculada; Armentia Arsuaga, Iñaki; Quintas Gómez, José Luis. *OSI Ezkerraldea Enkarterri Cruces* 

### INTRODUCTION

To ensure that blood products retain their properties, they must be kept at a temperature of between 2 and 6°C. During transport and distribution, they must be kept between 1 and 10°C, without refrigerating units that exceed this temperature again (Spanish Royal Decree 1088/2005 of 16 September, Official Spanish Gazette (BOE) number 225).

At Cruces University Hospital, an average of 732 units of red

**Discarded Units** 

cell concentrates were thrown away per year in the period of 2009-2015. This represents 3% of the total number of units used every year.

**OBJECTIVE** 



To minimise avoidable wastage of red cell concentrates by monitoring their temperature.



**MATERIAL AND METHODS** 

Search the market for a solution / product (QTA Tracer System)

A TRIDENTIFY

 $\bullet$  Establish a partnership with the provider by means of a collaboration agreement.

- Design, develop and launch the blood products traceability project in heart and liver surgery departments for a duration of 1 year.
- Issue an economic report and viability study for the project. The unit price for the concentrates is €142 (Osakidetza Price List 2016).



# CONCLUSIONS

- Implementing the blood products traceability system ensures that the temperature of all bags sent to surgical departments is monitored.
- From January to September 2016, 74% of the bags returned to the Transfusion Service (419/565) were recovered, with an annual forecast of 559 bags being recovered. As these are a scarce commodity, donated in an altruistic manner, it is necessary to implement measures to ensure



that they are used wisely.

#### Sensible Usage

## ANNUAL IMPACT OF THE PROJECT

- Cost of the traceability system -14.825 €
- Value of non-discarded units 79.331 €
- Net saving for Osakidetza 64.506 €
- The traceability system has created a net saving of €64,506 for the Basque Health Service - Osakidetza.
- Temperature monitoring can also be applied to other blood products and other surgical departments.



Would you like to download this poster?



XIII Health Management and Evaluation Workshops Ciudad Real, 26-28 October 2016