Comment on: Blood discard rate and the prevalence of infectious and contagious diseases in blood donors from provincial towns of the state of Paraná, Brazil

Danielle Venturini

Universidade Estadual de Londrina - UEL, Londrina, PR, Brazil

this group. The importance of these donors should be stressed, as the rejection rate due to positive serology or high-risk behavior is low. Blood donation is regulated by the Brazilian Health Ministry through the National Health Surveillance Agency (ANVISA)(1). One study presented in this issue of the Revista Brasileira de Hematologia e Hemoterapia⁽²⁾ investigated the predominance of infections-contagious diseases through positive serological markers in blood donors of the Regional Blood Center in Maringá, Parana between January 2011 to December 2011. This current study showed that the predominance of infectious diseases among the blood donors was 1.55%. These results demonstrate a decrease in seropositivity in this population, which could be explained by the effectiveness of clinical and serological screening. Additionally, 52.5% of discarded blood bags by serological screening were characterized by the anti-HBc serological marker, which demonstrated a high prevalence for the hepatitis B virus in the blood donor population. The prevalences of serological markers were: anti-HBc (1.03%), HBsAg (0.07%), syphilis (0.35%), anti-HCV (0.04%), human immunodeficiency virus (HIV - 0.02%) and Chagas disease (0.02%). No positivity occurred in this study with respect to human T-lymphotropic virus (HTLV) I/II markers. A study conducted by Salles et al. in 2001 showed that the prevalence of infectious diseases among donors was: 0.04% for HIV, 0.21% for hepatitis C virus (HCV), 0.06% for HTLV, 0.14% for Chagas' disease, and 1.10% for syphilis. For hepatitis B virus, the prevalences found were 0.14% for anti-HBc and HBsAg, 1.68% for anti-HBc and anti-HBs, and 1.67% for anti-HBc in isolation⁽³⁾. As new technologies are developed, the discovery of new infectious agents and the reemergence of old threats are an ongoing challenge in blood banks. I believe that similar studies should be encouraged in order to reinforce the importance of characterizing the prevalence of these serological markers in the blood donor population. In conclusion, this study is of great scientific relevance and reinforces the importance in establishing the prevalence of serological markers in blood donors. These results increase the knowledge about the role of the educational measures that have been carried out and may support the structuring of new awareness-raising campaigns for spontaneous blood donation.

The safety of blood products from their source, the blood donor, until their use in the recipient is of the utmost importance. Blood banks have a constant concern to find the ideal

profile of the donor with the potential of repeat donations, in order to target campaigns towards

References

- 1. Brasil. Agência Nacional de Vigilância Sanitária. Resolução RDC nº 12, de 2 de janeiro de 2001. Aprova o regulamento técnico sobre padrões microbiológicos para alimentos [Internet]. Brasília, DF: Ministério da Saúde; 2001. [cited 2013 Sept 17]. Available from: http://portal.anvisa.gov.br/wps/wcm/connect/ a47bab8047458b909541d53fbc4c6735/RDC_12_2001.pdf?MOD=AJPERES
- Borelli SD, Mazzola JC, Matta AC, Takemoto AY, Bértoli M. Blood discard rate and the prevalence of infectious and contagious diseases in blood donors from provincial towns of the state of Paraná, Brazil. Rev Bras Hematol Hemoter. 2013;35(6):395-9.
- Salles NA, Sabino EC, Barreto CC, Barreto AM, Otani MM, Chamone DF. [The discarding of blood units and the prevalence of infectious diseases in donors at the Pro-Blood Foundation/Blood Center of São Paulo, São Paulo, Brazil]. Rev Panam Salud Publica. 2003;13(2-3):111-6. Portuguese.

The author declares no competing financial

Submitted: 9/17/2013 Accepted: 9/20/2013

interest

Conflict-of-interest disclosure:

Corresponding author:

Danielle Venturini Universidade Estadual de Londrina - UEL Department of Pathology, Clinical Analysis and Toxicology Av. Robert Koch, nº 60, Bairro Cervejaria 86038-440 Londrina, PR, Brazil danielle.venturini@bol.com.br

www.rbhh.org or www.scielo.br/rbhh

DOI: 10.5581/1516-8484.20130127

XXX -