ENHANCED ASSOCIATION OF FIBRINOGEN WITH ITS PLATELET RECEPTOR DUE TO SODIUM CITRATE INDICATION FOR ONE FIBRINOGEN RECEPTOR ONLY. S.K. Bowry. Clinical Research Unit for Blood Coagulation and Thrombosis of the Max-Planck-Gesellschaft, Gaffkystr. 11, D-3000 Giessen, West-Germany.

Washed platelet suspensions are almost always prepared from blood anticoagulated with sodium citrate. As citrate has been implicated as the direct platelet function and as estimations of the number of fibrinogen (Fbg) binding sites on platelets range from 4,700 to 82,500, we examined the involvement of citrate on the platelet-fibrinogen interaction. The binding of 125-I-fibrinogen to washed platelets from citrated blood was compared to those from gel-filtered non-anticoagulated blood. As no 14-C-citric acid binding to platelets was observed, citrate may affect the receptors without binding to Fbg receptor since non-specific binding was not affected by the presence of known platelet activators. The proteins responsible for this binding have been visualized by gel filtration. 1500 (PNB) ± 6,520 molecules/platelet, respectively. 5.10 ± 0.7 M determined for PCB. After another incubation, Fbg was added to 20 nM citrate, which showed no effect on the binding of Fbg to washed platelets from citrated blood.