

CAF/14/04 - Influence of Anaemia on Clot Structure

Anaemia is an important risk factor for the development of blood clots. Patients with a previous history of heart disease, stroke, leg or lung blood clots demonstrate changes to clot structure compared to healthy volunteers. Clot structure in anaemic patients has not been investigated.

Our preliminary studies on healthy individuals showed that clots formed with fewer numbers of red blood cells form stronger, more compact clots that break down slower. This research will examine clot development, structure and stability in anaemic patients compared to healthy volunteers. .

The results will help us understand the role anaemia plays in the development of blood clots. This work could provide a laboratory model to test new drugs for the treatment or prevention of blood clots and may lead to the use of new tools to distinguish anaemic patients at high risk of developing blood clots