Residual erythropoiesis protects against myocardial hemosiderosis in transfusion-dependent thalassemia by lowering labile plasma iron via transient generation of apotransferrin

Maciej W Garbowski, Patricia Evans, Evangelia Vlachodimitropoulou, Robert Hider, and John B Porter

Disclosures: Authors declare no relevant conflict of interest. The authors would like to thank Dr. Sukhvinder Bansal from the Department of Pharmacy at King’s College London for performing the hepcidin assay. MG would like to thank Dr. Farrukh Shah for co-supervision of Ph.D.; British Society for Haematology, Sickle Cell Society and UK Thalassaemia Society for the Haemoglobinopathy Fellowship Grant, as well as Leukaemia and Blood Diseases Appeal for grant support. JP would like to thank UCL Biomedical Research Centre for Cardiometabolic Programme support. All authors also would like to thank Wellcome Trust for grant support (WT093209MA).

Contributions: MG designed the research, recruited the patients, gathered data, performed in-vitro experiments, analyzed and interpreted the data and wrote the paper, as part of his Ph.D. thesis at the UCL. PE helped gather data and performed serum assays (NTBI, LPI, TfSat, sTfR1, GDF-15). EV helped conduct in-vitro experiments. RH donated crucial reagents (CP40), helped interpret the data and contributed to the discussion. JP co-designed and supervised the research, helped interpret the data and write the paper. All authors critically reviewed and accepted the manuscript before submission.