Platelet Counting: Ugly Traps and Good Advice. Proposals from the French-Speaking Cellular Hematology Group (GFHC)

Véronique Baccini 1,*, Franck Geneviève 2, Hugues Jacqmin 3, Bernard Chatelain 3, Sandrine Girard 4, Soraya Wuilleme 5, Aurélie Vedrenne 6, Eric Guiheneuf 7, Marie Toussaint-Hacquard 8, Fanny Everaere 9, Michel Soulard 10, Jean-François Lesesve 8 and Valérie Bardet 11

1 Laboratoire d’hématologie, CHU de la Guadeloupe, INSERM UMR S_1134, 97159 Pointe-à-Pitre, France
2 Fédération Hospitalo-Universitaire ‘Grand Ouest Against Leukemia’ (FHU GOAL), 49033 Angers, France; frgenevieve@chu-angers.fr
3 Université Catholique de Louvain, CHU UCL Namur, Laboratoire d’hématologie, Namur Thrombosis and Hemostasis Center, 5530 Yvoir, Belgium; jacqmin.hugues@gmail.com (H.J.); bernard.chatelain@gmail.com (B.C.)
4 Hospices Civils de Lyon, Centre de biologie et pathologie Est, Service d’hématologie biologique, 69500 Bron, France; sandrine.girard@chu-lyon.fr
5 Laboratoire d’Hématologie, Institut de Biologie, CHU de Nantes; 44093 Nantes CEDEX, France; soraya.wuilleme@chu-nantes.fr
6 Service de biologie clinique, Hôpital Foch, 92150 Suresnes, France; a.vedrenne@hopital-foch.com
7 Service d’Hématologie Biologique, CHU Amiens-Picardie, 80054 Amiens CEDEX, France; guiheneuf.eric@chu-amiens.fr
8 Hématologie Biologique, CHRU Nancy, 54511 Vandoeuvre, France; m.toussaint-hacquard@chru-nancy.fr (M.T.-H.); jf.lesesve@chru-nancy.fr (J.-F.L.)
9 Audolys Biologie, 62219 Longuenesse, France; jfeveraere@audolys.fr
10 Plateau technique d’hématologie, Laboratoire Biogroup, 92300 Levallois-Perret, France; m.soulard@biogroup-lcd.fr
11 Service d’Hématologie-Immunologie-Transfusion, CHU Ambroise Paré, INSERM UMR 1184, AP-HP, Université Paris Saclay, 92100 Boulogne-Billancourt, France; valerie.bardet@aphp.fr

* Correspondence: veronique.baccini@chu-guadeloupe.fr

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Abstract: Despite the ongoing development of automated hematology analyzers to optimize complete blood count results, platelet count still suffers from pre-analytical or analytical pitfalls, including EDTA-induced pseudothrombocytopenia. Although most of these interferences are widely known, laboratory practices remain highly heterogeneous. In order to harmonize and standardize cellular hematology practices, the French-speaking Cellular Hematology Group (GFHC) wants to focus on interferences that could affect the platelet count and to detail the verification steps with minimal recommendations, taking into account the different technologies employed nowadays. The conclusions of the GFHC presented here met with a “strong professional agreement” and are explained with their rationale to define the course of actions, in case thrombocytopenia or thrombocytosis is detected. They are proposed as minimum recommendations to be used by each specialist in laboratory medicine who remains free to use more restrictive guidelines based on the patient’s condition.

Keywords: platelet count; thrombocytopenia; thrombocytosis; proposals