

Classical PNH

About this case study	
Details:	Classical PNH
Flow cytometry	
Details of flow cytometry instrument	BD FACSCanto
Cell populations evaluated for PNH clones:	Granulocytes, monocytes, RBCs
External control:	None
Internal control:	None
Antibodies/reagents and gating strategies used:	FLAER-Alexa 488, CD14 (61D3)-PE, CD15 (H198)-APC, CD24 (SN3)-PE, CD64 (10.1)-PE, CD45 (2D1)-PerCP-Cy5.5, CD59 (MEM43)-PE, CD235a (KC16)-FITC Practical Guidelines 2012
Clone sizes in all populations tested:	Granulocytes: 98.9% (Type II + III) Monocytes: 99.8% (Type II + III) RBCs: 29.7% (Type III), 1.5% (Type II)
LDH level:	58.5 μkat/L (2.2–3.6)
Ferritin level:	335 μg/L (10–291)
Creatine level:	239 μmol/L (44–104)
RBC count:	4.01 × 10 ¹² /L (4.70–6.10)
WBC and neutrophil counts:	4.3 x 10 ⁹ /L (4.00–10.80)
Download .fcs for RBCs, Monocytes and Granulocytes:	

https://www.alexion.de/-/media/alexion_de/ws_alexion_germany/download/netflowconnect

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Evaluation of PNH RBCs







BOOM

Evaluation of PNH granulocytes





Step 3: Gate granulocytes on CD15 strong vs SC lin and backgate on CD45 vs SS lin and FS lin vs SS lin to discriminate immature granulocytes and eosinophils.



Evaluation of PNH monocytes







Step 3: Gate monocytes on CD64 vs SS lin and backgate on CD45 vs SS lin and FS lin vs SS lin to discriminate dendritic cells and apoptotic monocytes.

