

Correct use of HemoStep in the presence of concomitant peripheral blood pathologies

When analysing samples with different pathologies, the data to be entered are those referring to the pathology that is subject to cerebrospinal fluid (CSF) study. Pathologies present in peripheral blood (PB) that do not correspond to the infiltration observed in the CSF should be excluded from the calculations.

Case Study: Discordant Infiltration

- Clinical scenario:
 - Flow cytometry: Positive infiltration by high-grade lymphoma is observed in CSF.
 - No high-grade lymphoma infiltration in PB. However, a population of 0.5% compatible with chronic lymphocytic leukaemia (CLL) is detected.
 - Hemostep Test Result: Preliminary analysis indicates "Possible significant contamination".

When configuring the calculation parameters, the user must enter the value for the "% of pathological cells in PS" field. Given that the pathology studied in the CSF is *high-grade lymphoma*, and this entity is not present in the peripheral blood (0% specific infiltration for this pathology), the presence of CLL should be ignored. In this case, the value to be entered in the "% pathological cells in SP" field is 0%.

For the calculation in Hemostep, only peripheral blood data related to the pathology observed in the CSF is used. Any other disease present in the blood should be excluded.