



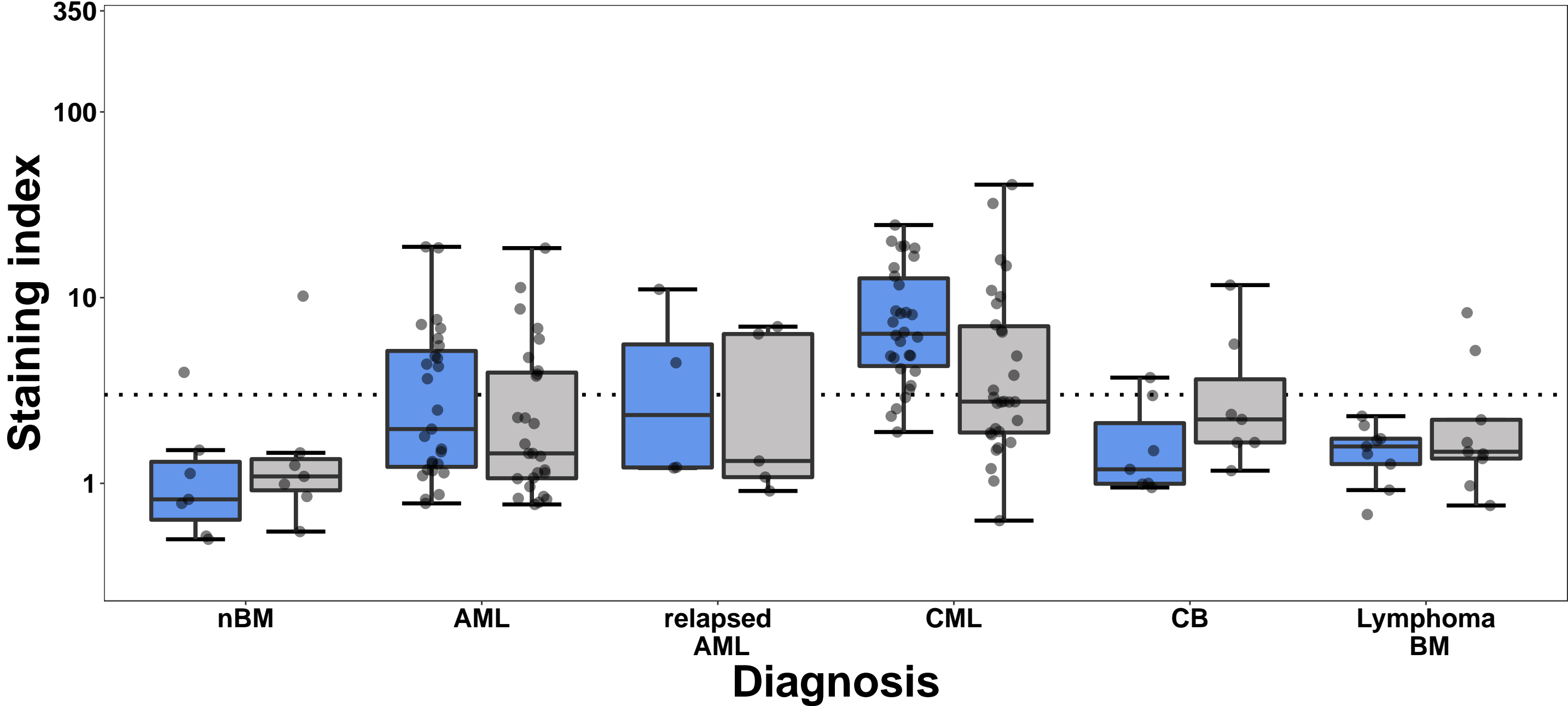
Supplemental - Flow Cytometric Analysis
Supplement to Manuscript



Delineation of target expression profiles in CD34⁺/CD38⁻ and CD34⁺/CD38⁺ stem- and progenitor cells in acute (AML) and chronic (CML) myeloid leukemia

This additional supplement shows the flow cytometric analysis of 75 markers and their expression profiles on CD34⁺/CD38⁻ stem cells (blue boxes) and CD34⁺/CD38⁺ progenitor cells (grey boxes) in normal bone marrow (nBM), patients with acute myeloid leukemia (AML) or chronic myeloid leukemia (CML) (both at diagnosis and relapse), myelodysplastic syndrome (MDS), cord blood (CB), idiopathic cytopenia of undetermined significance (ICUS), lymphoma BM, MDS/myeloproliferative neoplasm (MDS/MPN) and AML or CML in complete hematologic remission (CHR). Samples were examined by multi-color flow cytometry using antibodies shown in Table S1. The figures show the staining ratio compared to an unspecific isotype control antibody (staining index) and the percentage of reactive cells in each sample. The dotted line represents clear expression (staining index is higher than 3 or more than 20% positive cells). The range of each box represents the 25th (lower box margin) to 75th (upper box margin) percentile. The middle lines inside the boxes represent the median expression level. Each dot represents an individual patient.

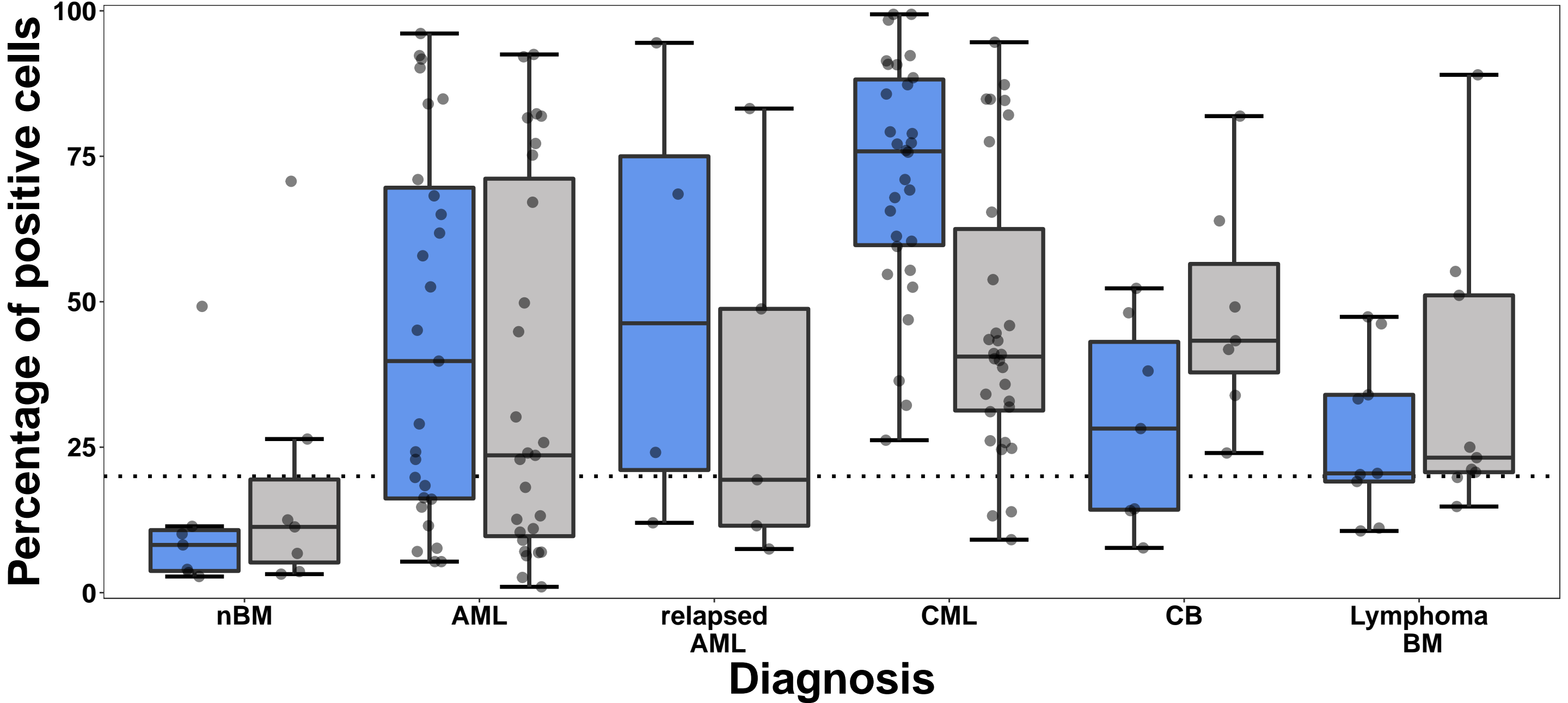
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD9 staining index



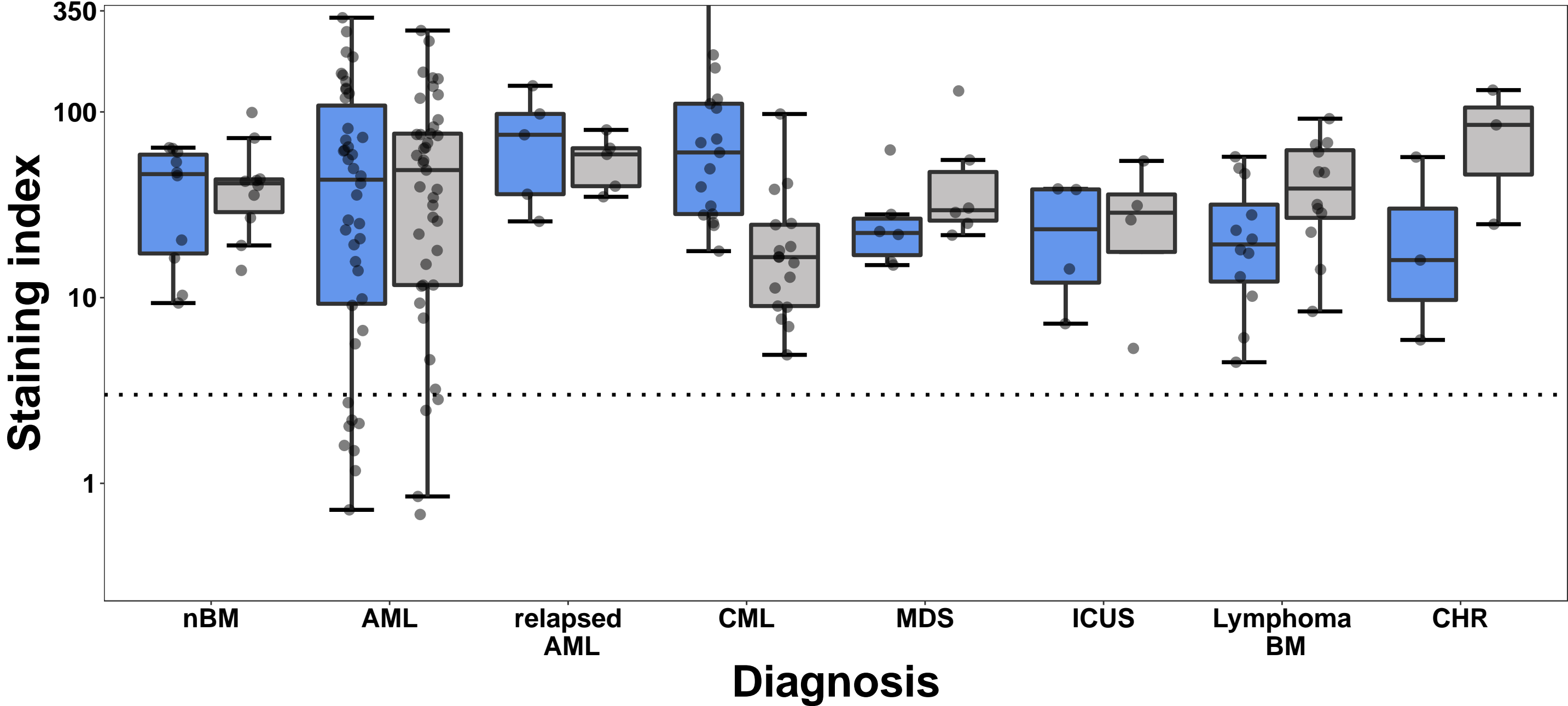
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD9 percentage



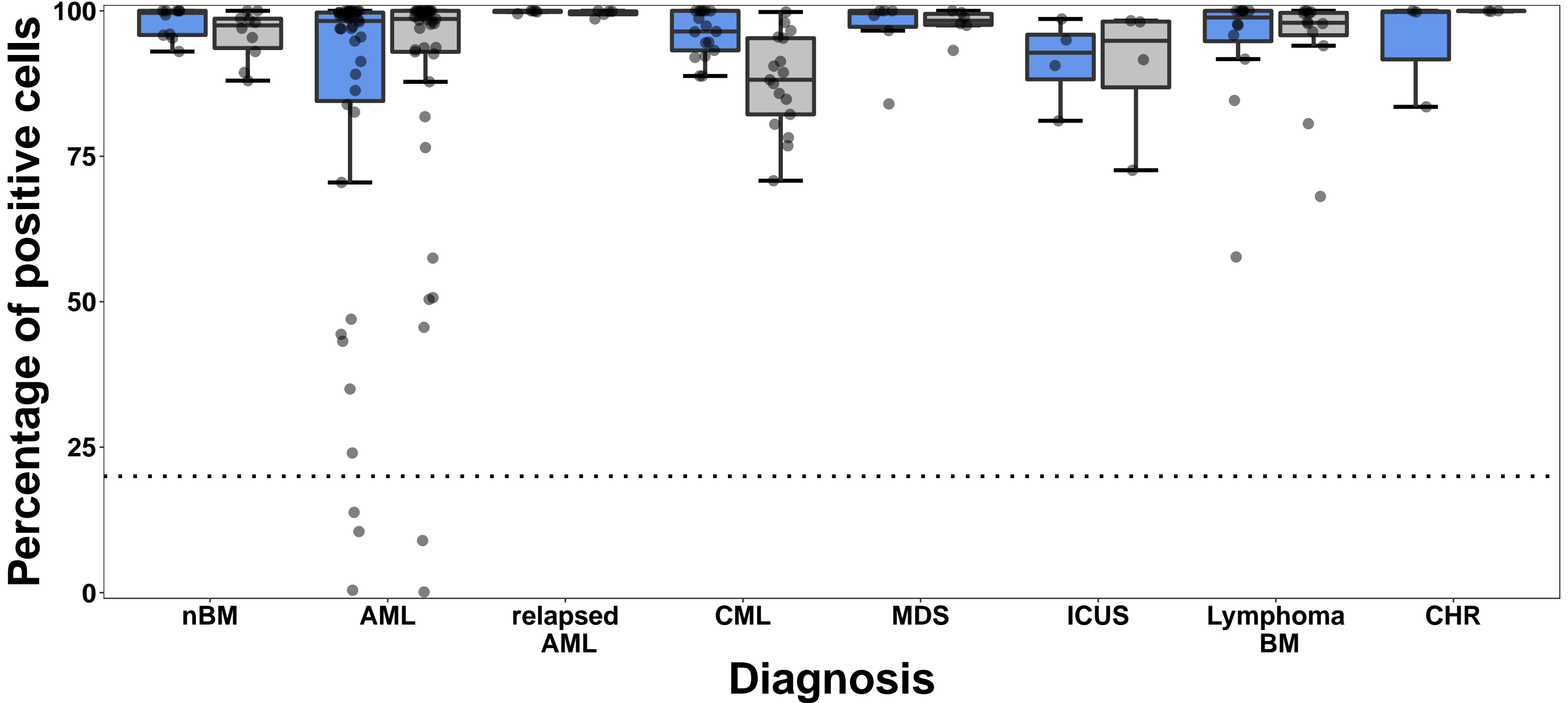
Cell fraction  CD34+/CD38-  CD34+/CD38+

CD11a staining index





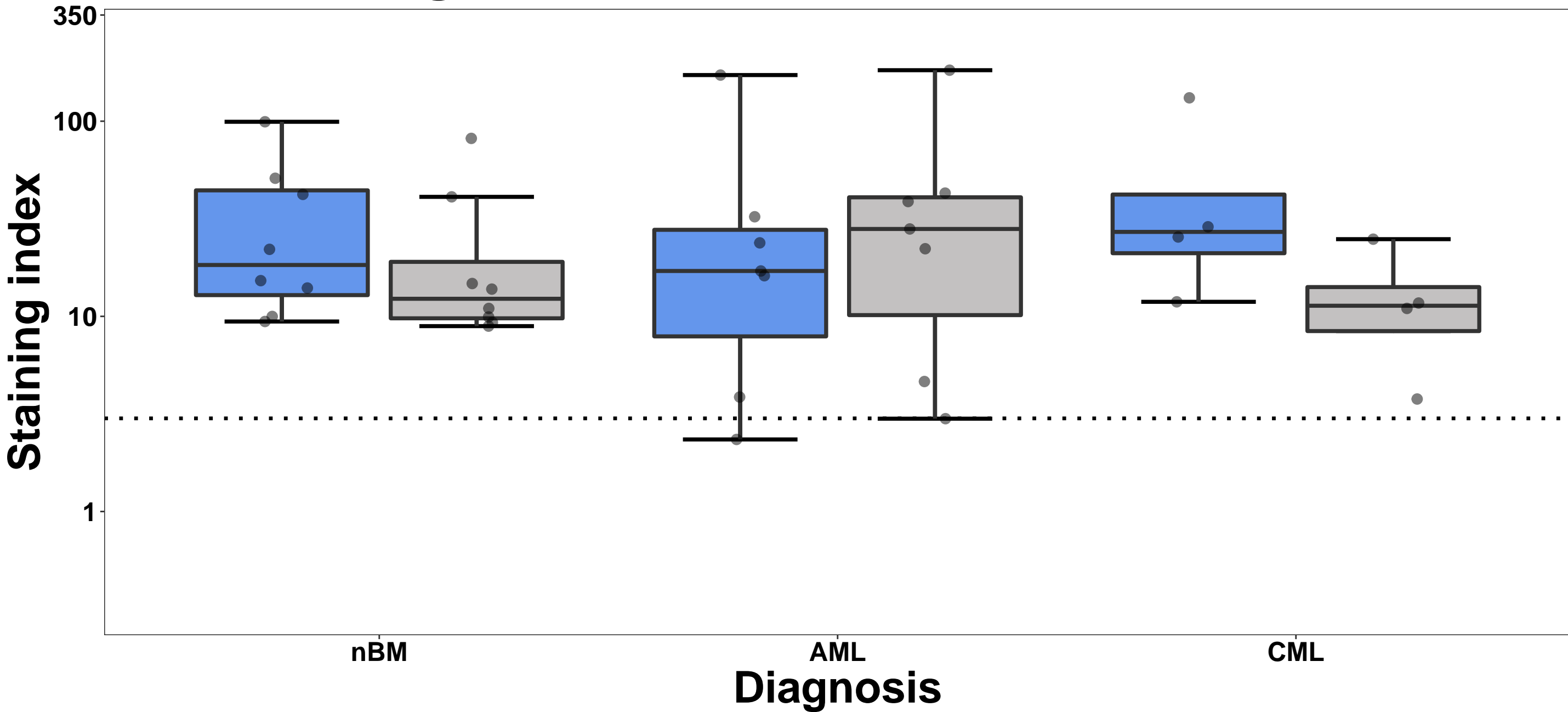
Cell fraction  CD34+/CD38-  CD34+/CD38+

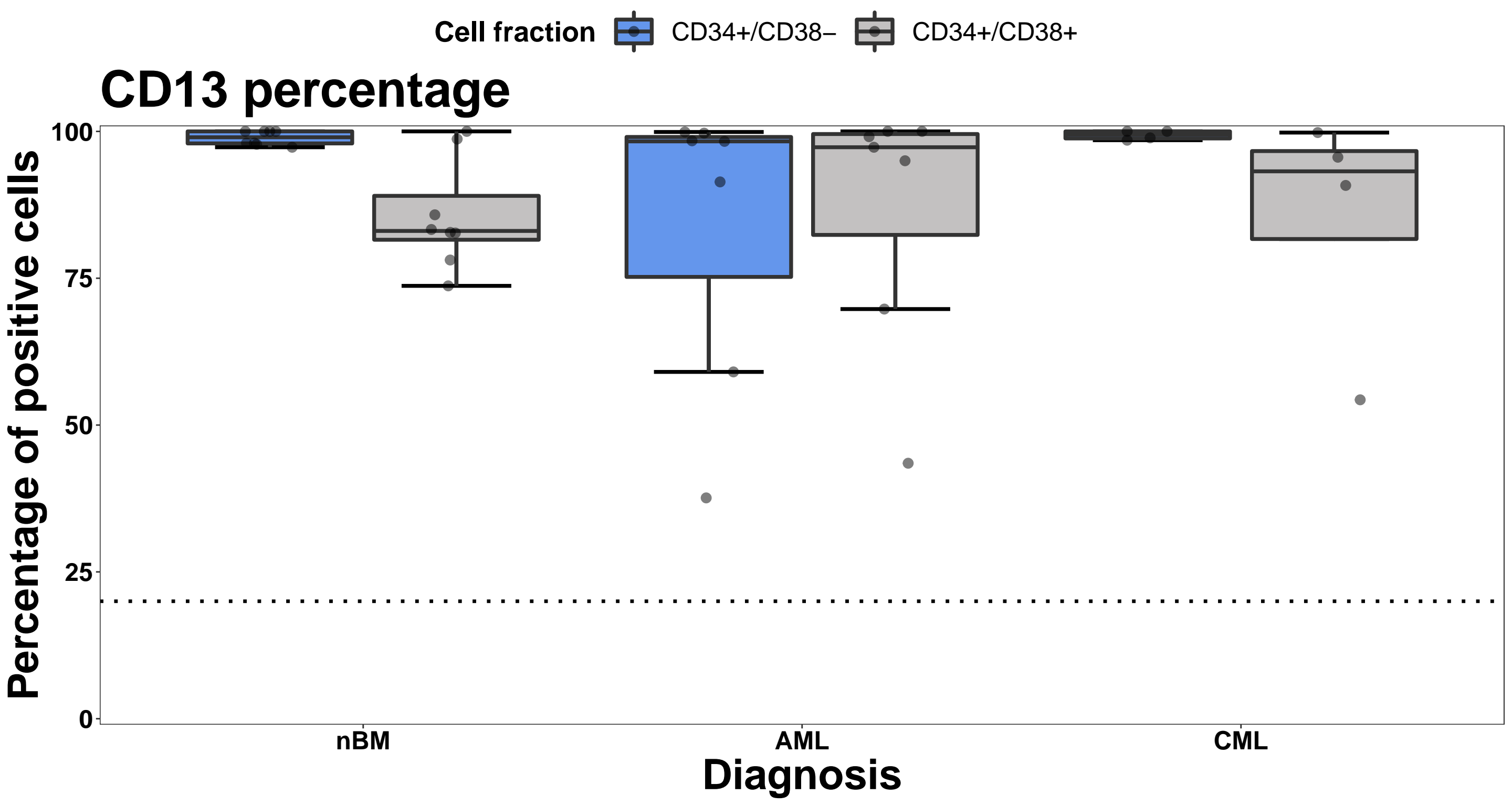
CD11a percentage





CD13 staining index

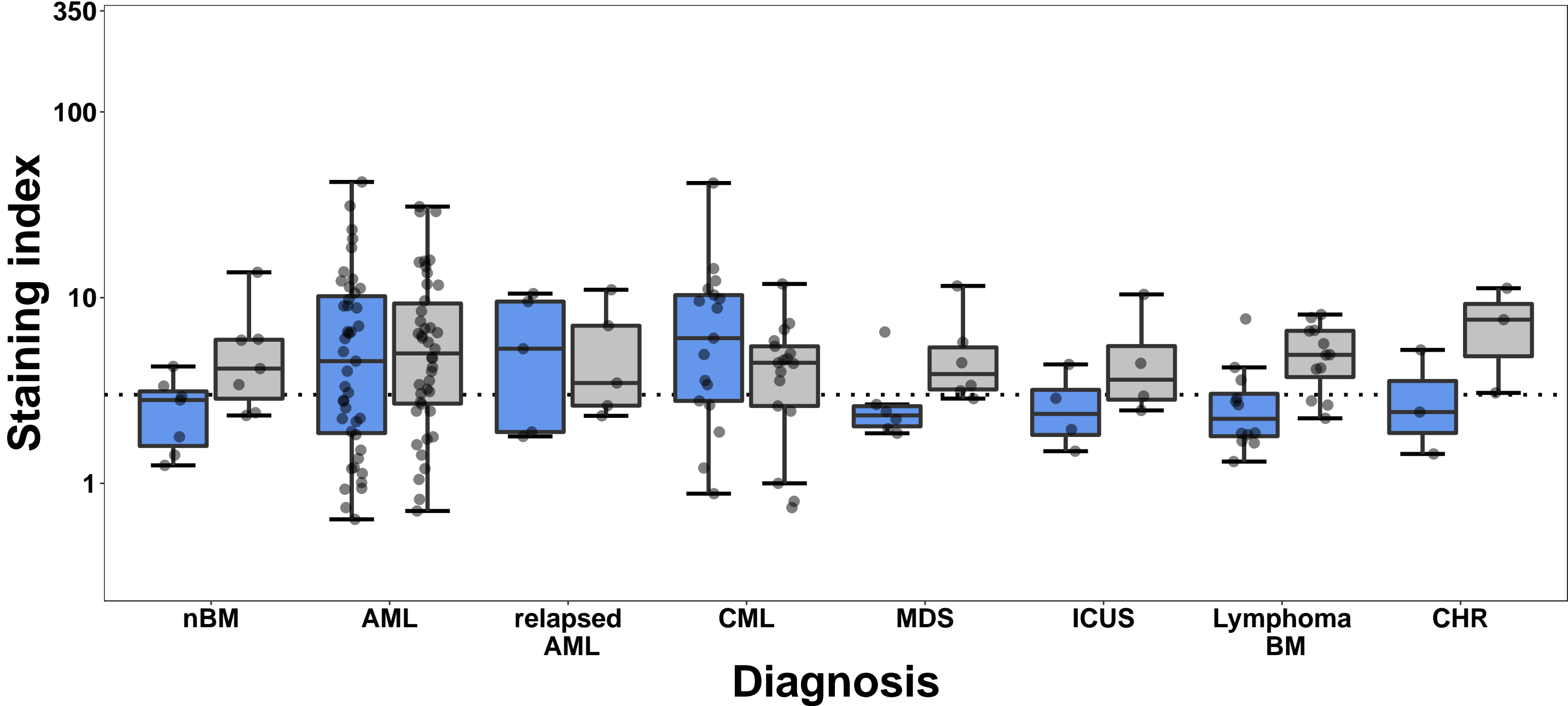
Cell fraction  CD34+/CD38-  CD34+/CD38+







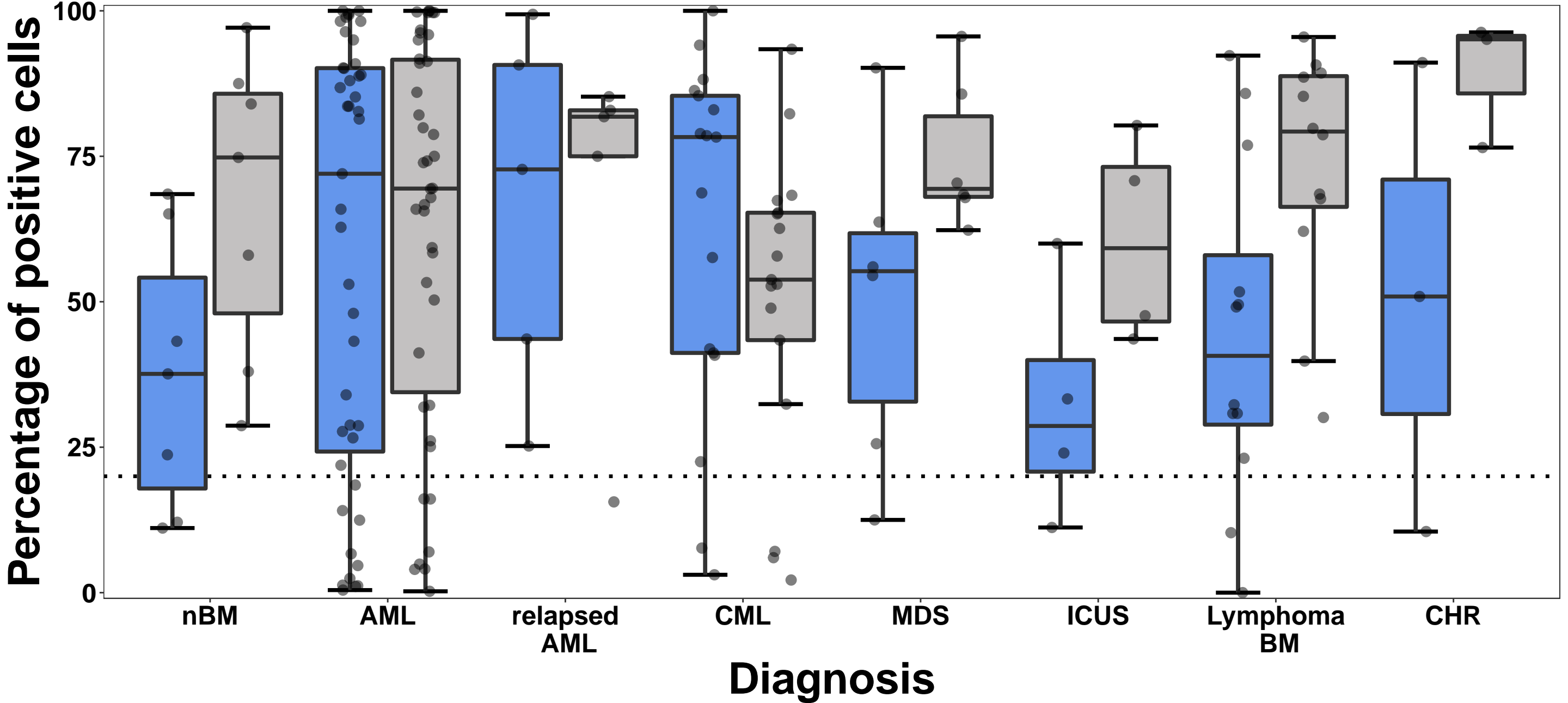
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD18 staining index



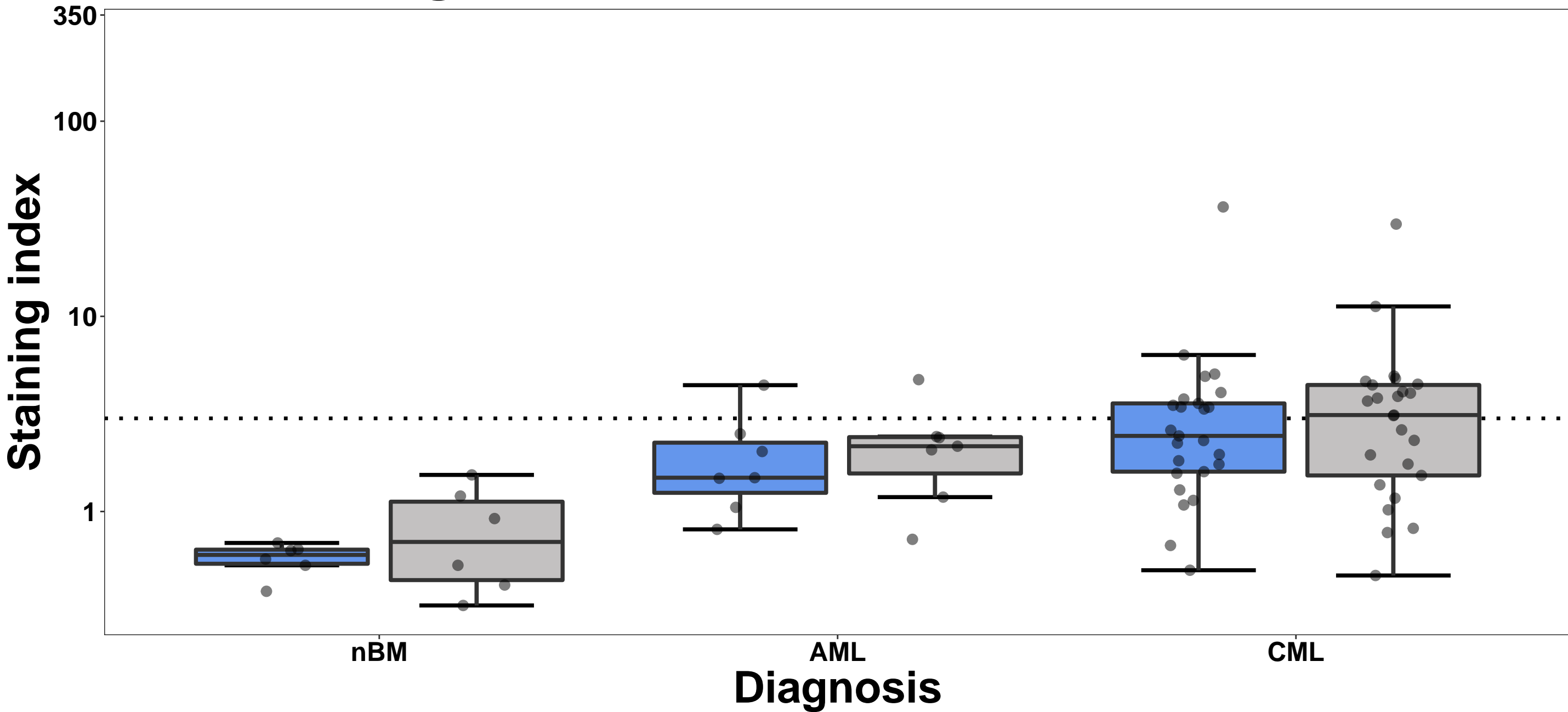
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD18 percentage



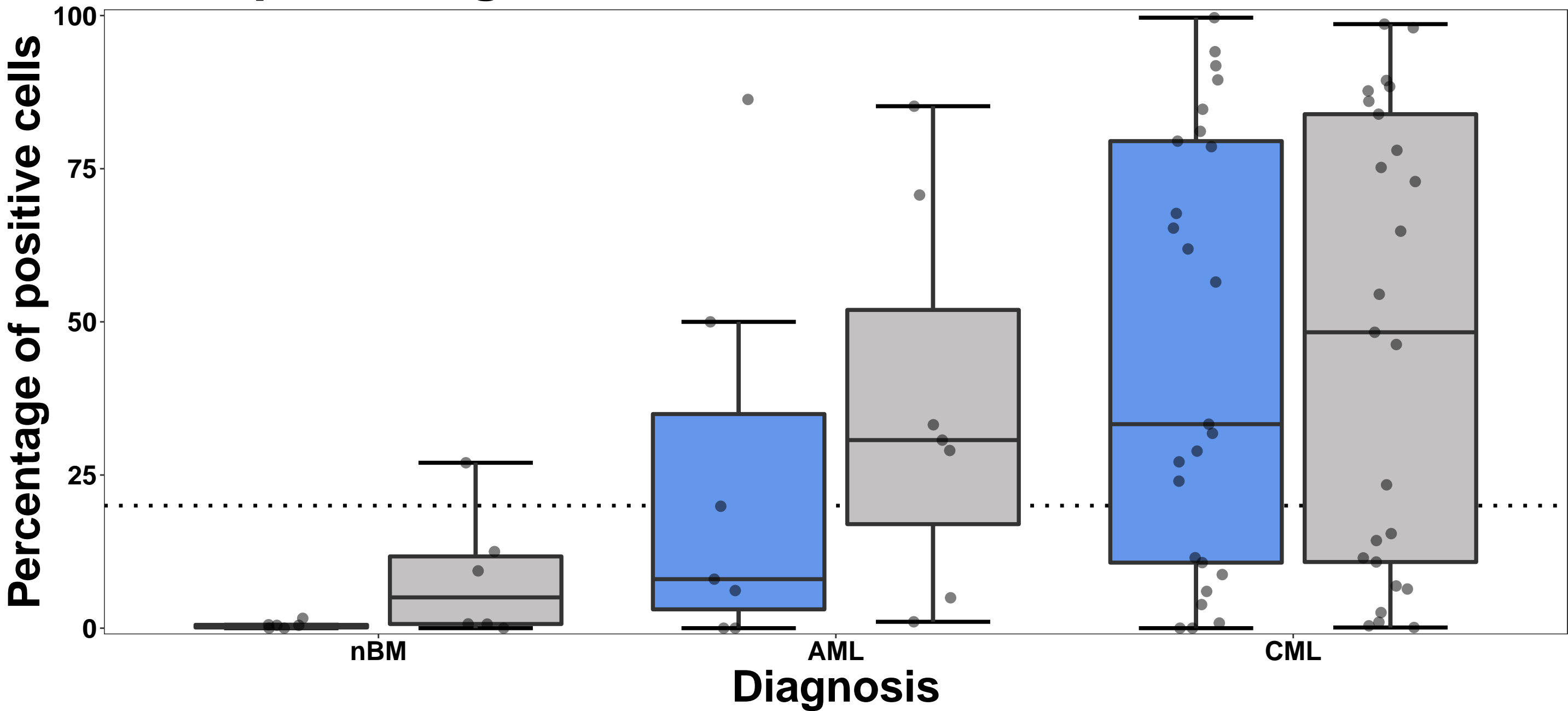
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD19 staining index



Cell fraction  CD34+/CD38-  CD34+/CD38+

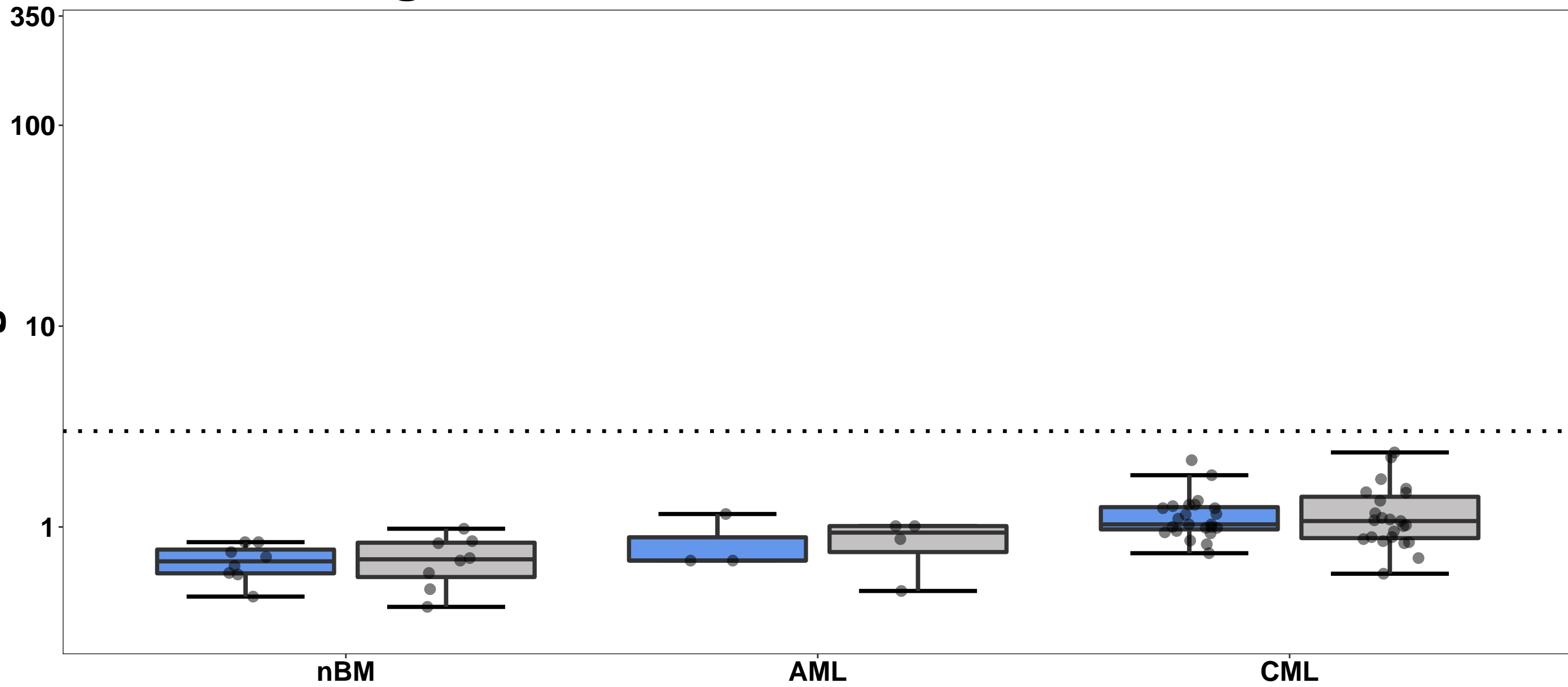
CD19 percentage





Cell fraction  CD34+/CD38-  CD34+/CD38+

CD20 staining index

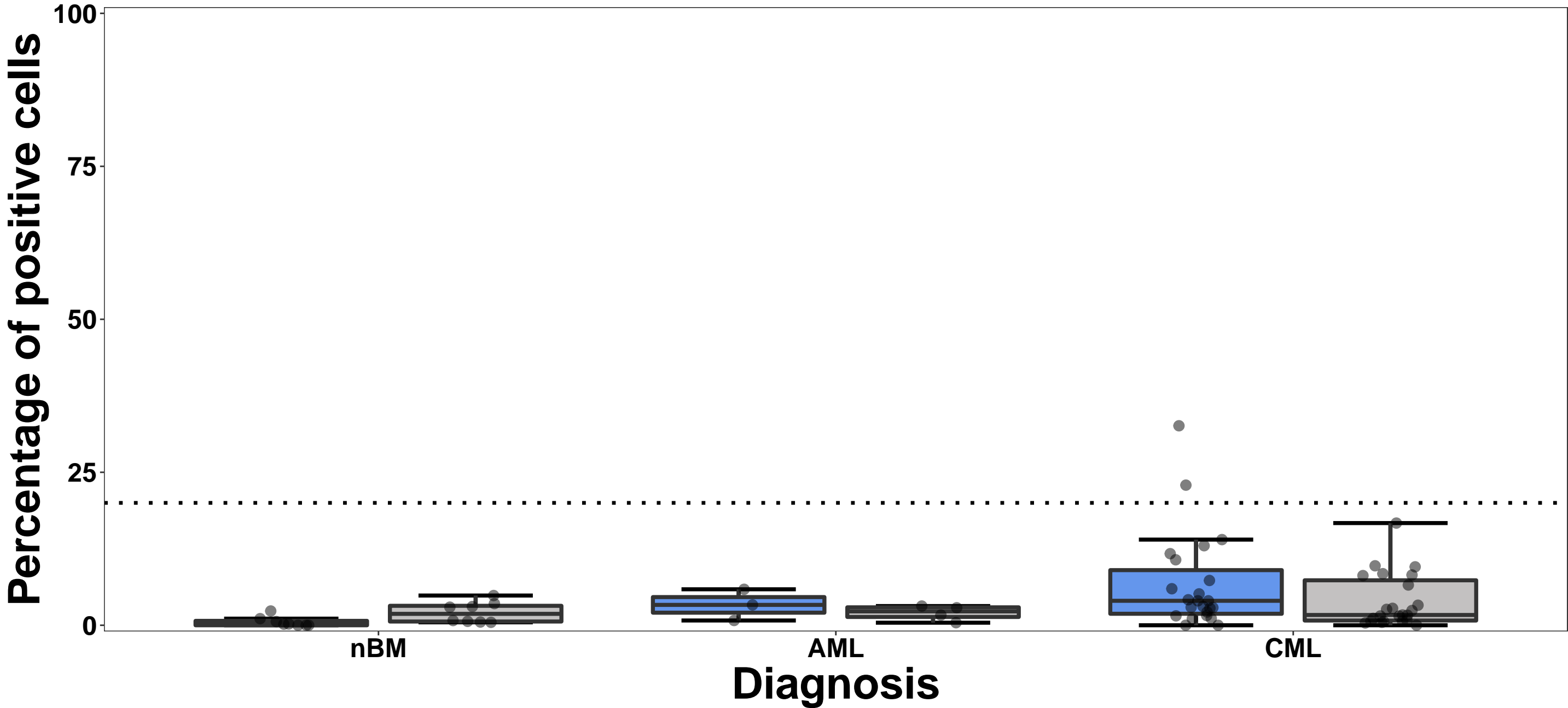
Staining index





Diagnosis

Cell fraction  CD34+/CD38-  CD34+/CD38+

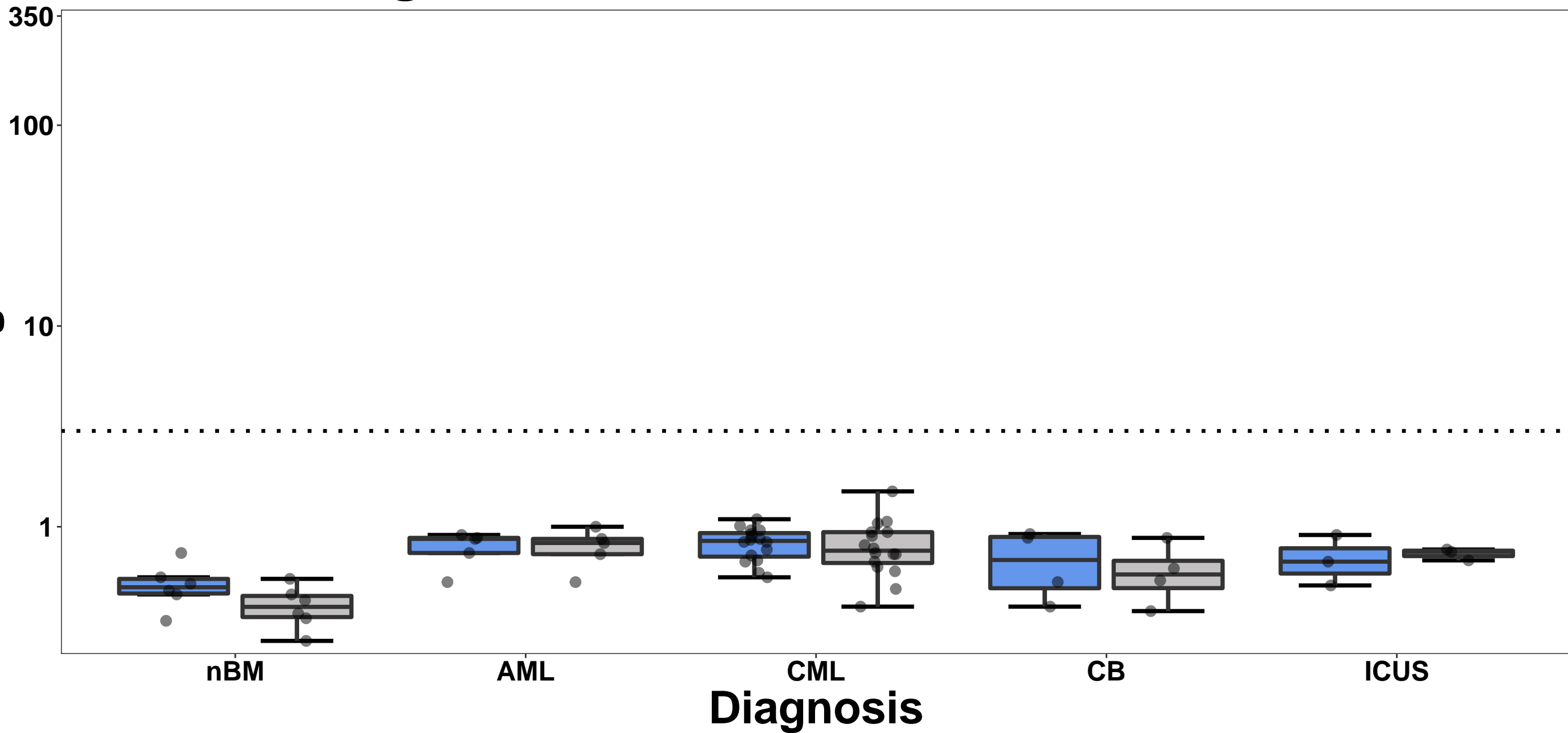
CD20 percentage



CD23 staining index

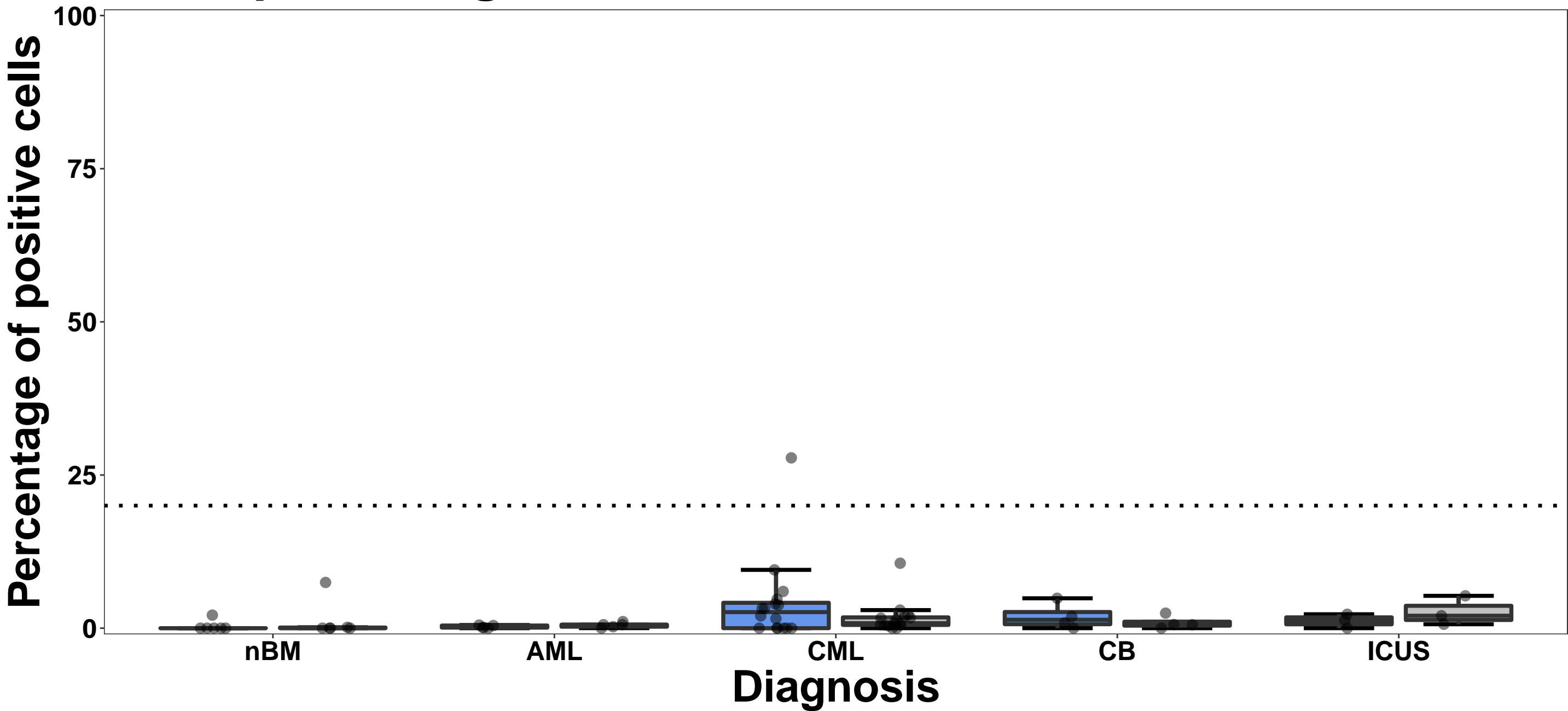
Cell fraction  CD34+/CD38-  CD34+/CD38+



Staining index



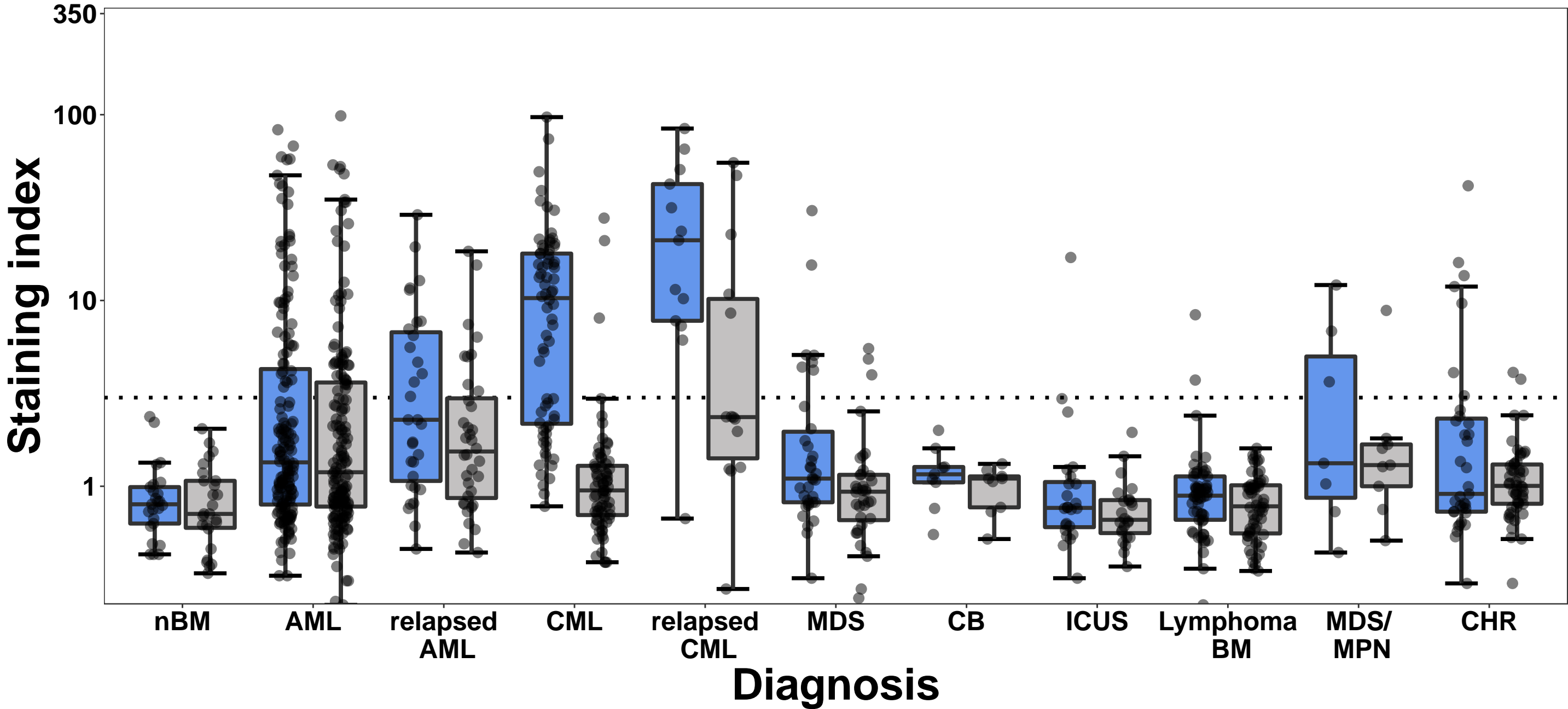
Cell fraction CD34+/CD38- CD34+/CD38+



CD23 percentage



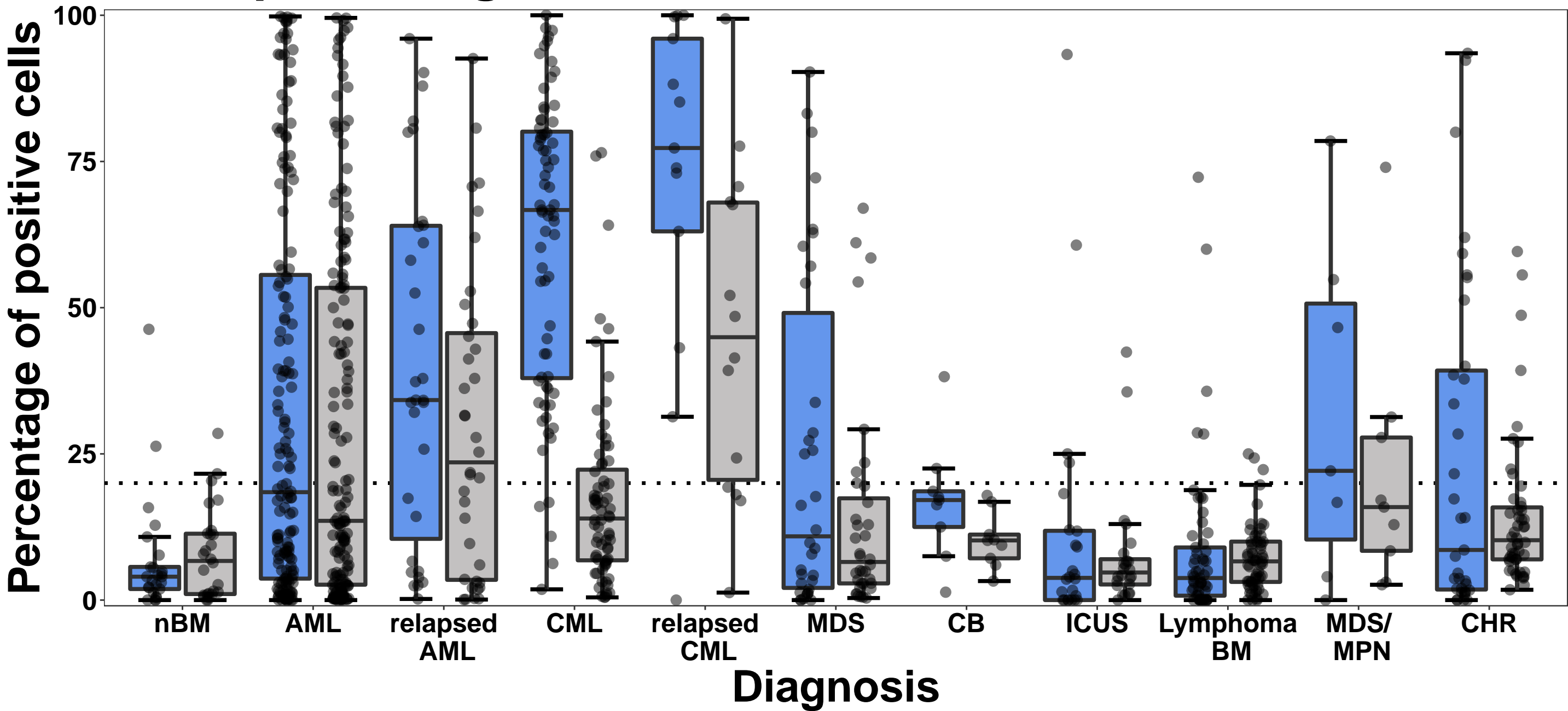
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD25 staining index



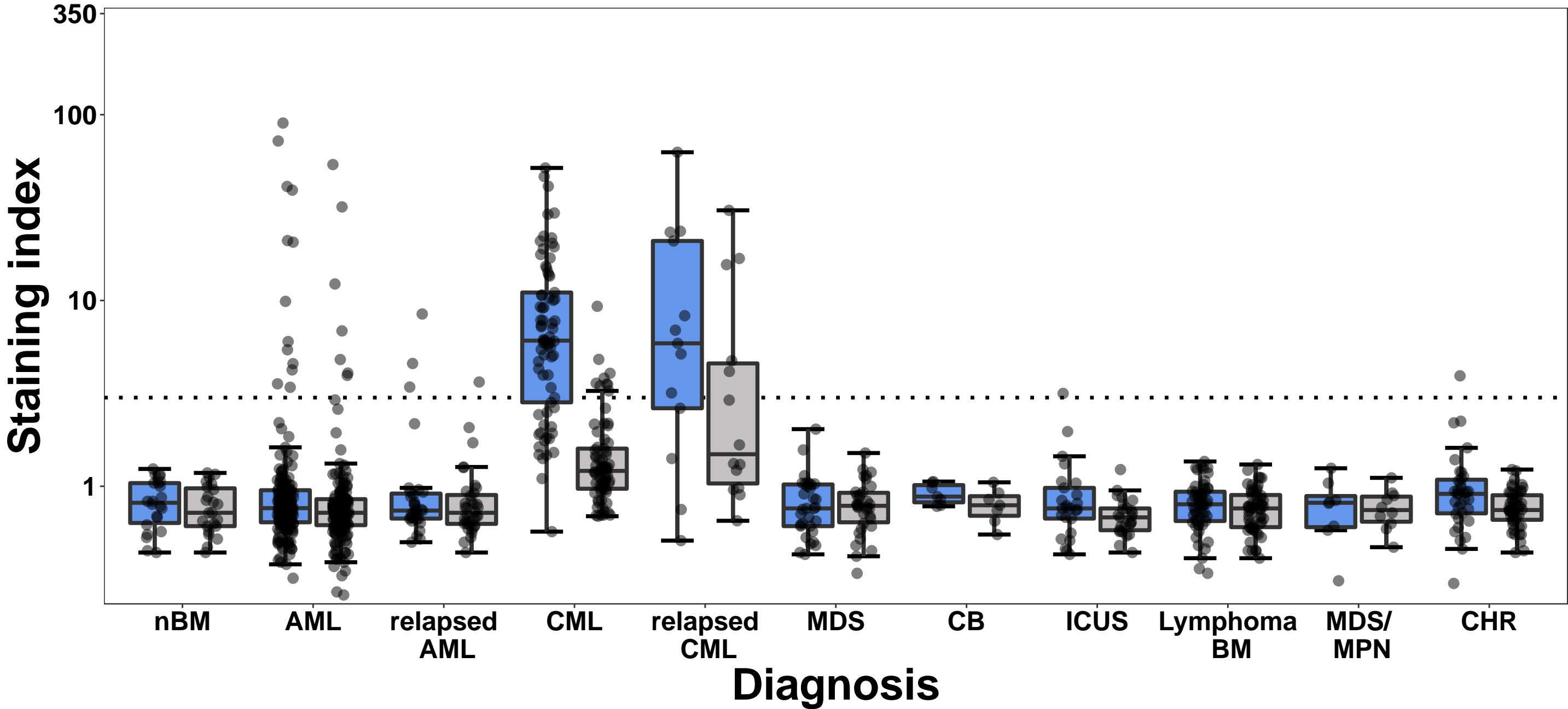
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD25 percentage



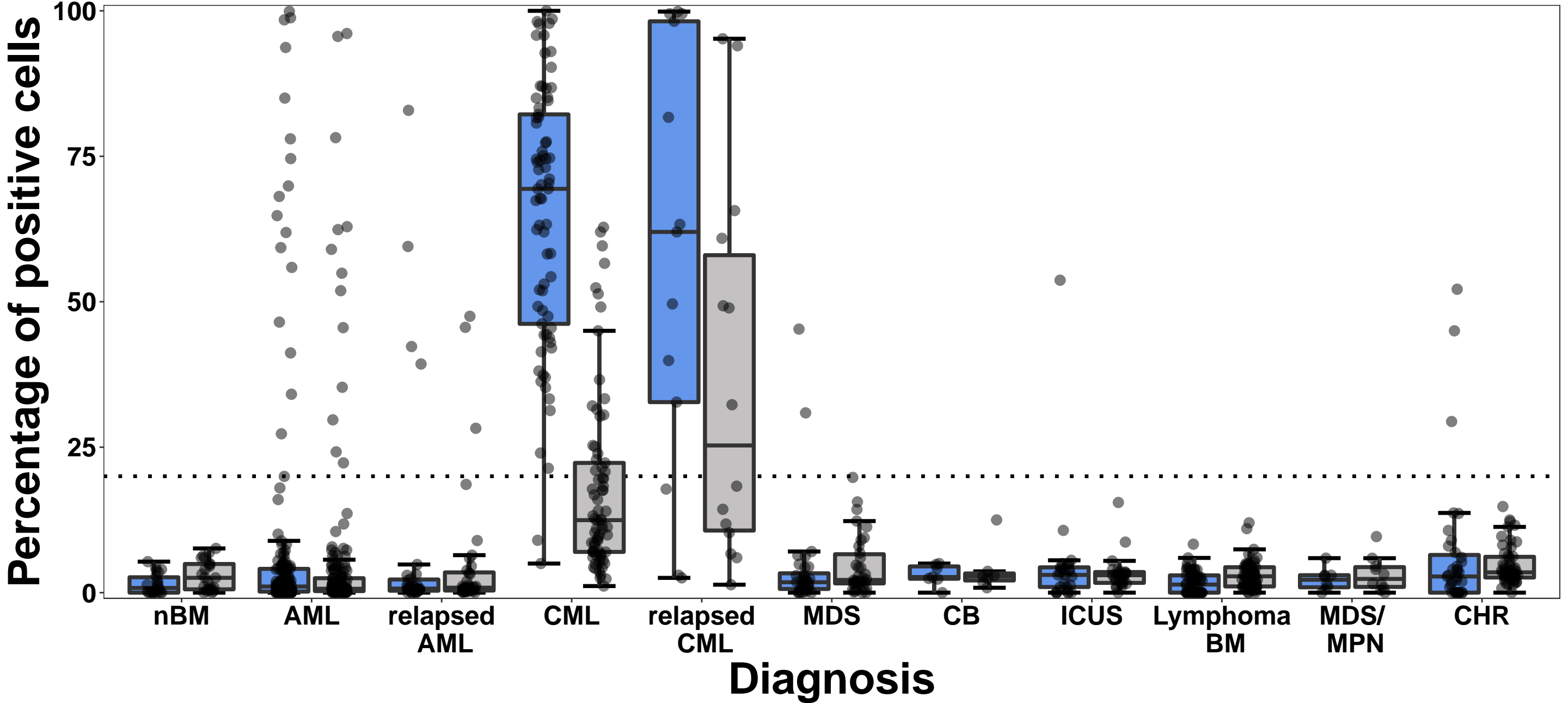
Cell fraction  CD34+/CD38-  CD34+/CD38+

CD26 staining index





Cell fraction  CD34+/CD38-  CD34+/CD38+

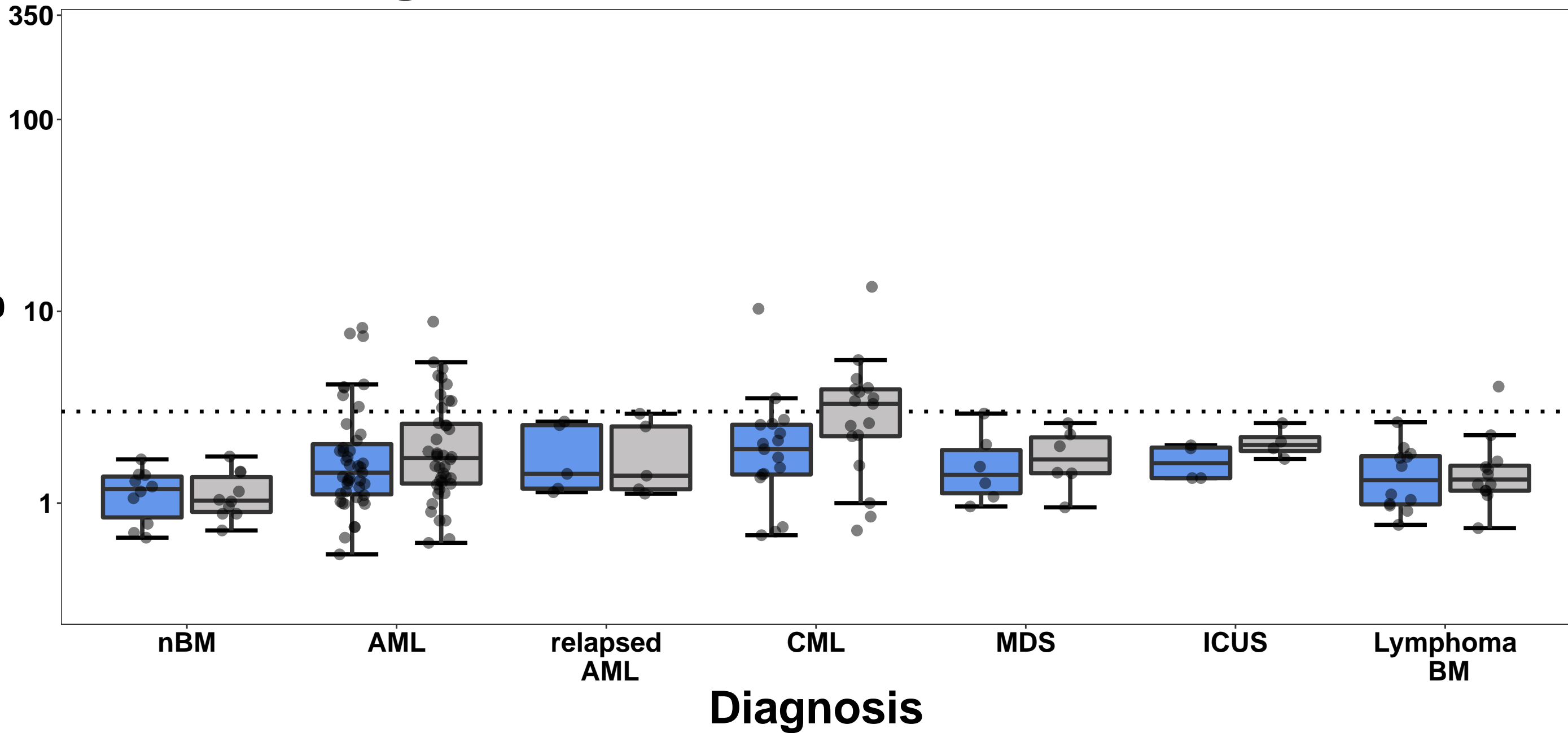
CD26 percentage





CD29 staining index

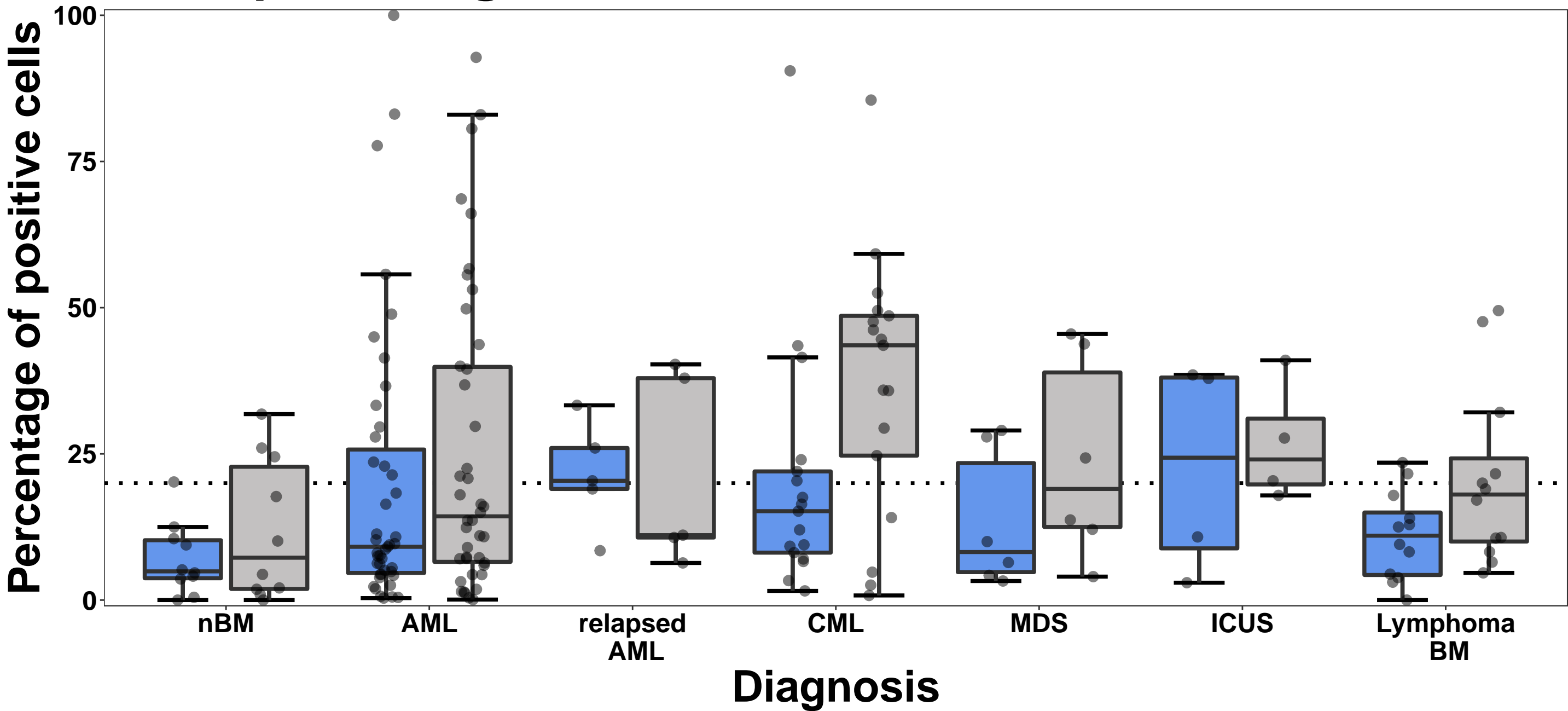
Cell fraction  CD34+/CD38-  CD34+/CD38+



Staining index



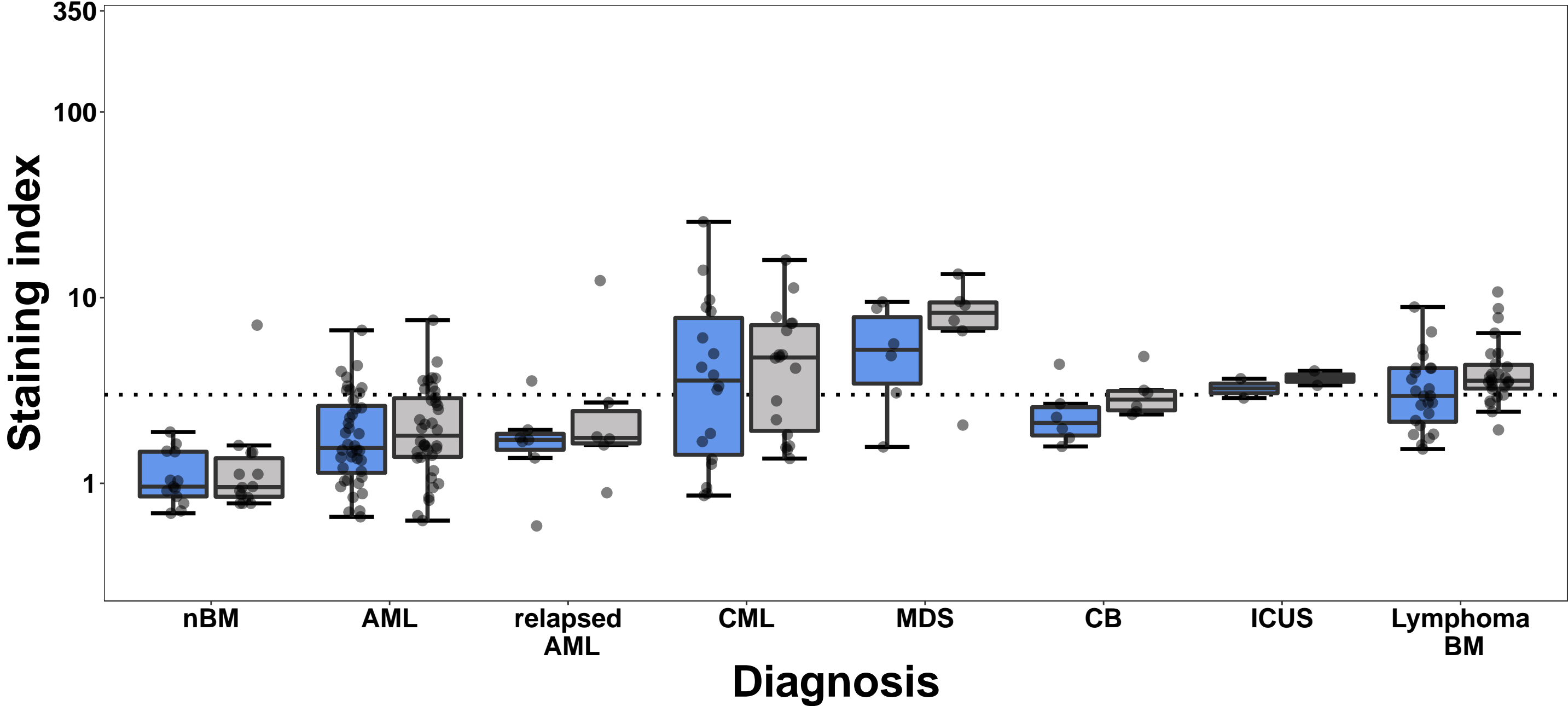
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD29 percentage



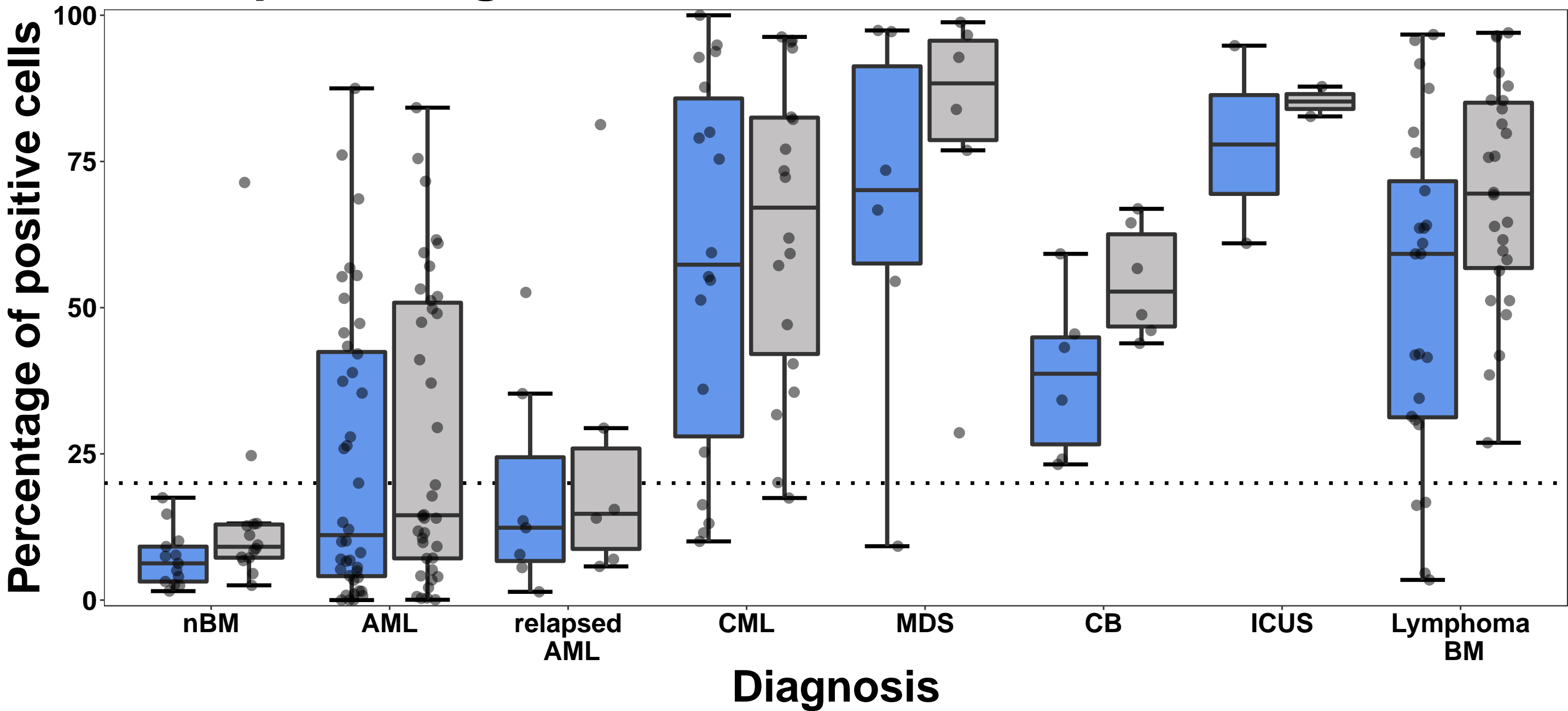
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD30 staining index



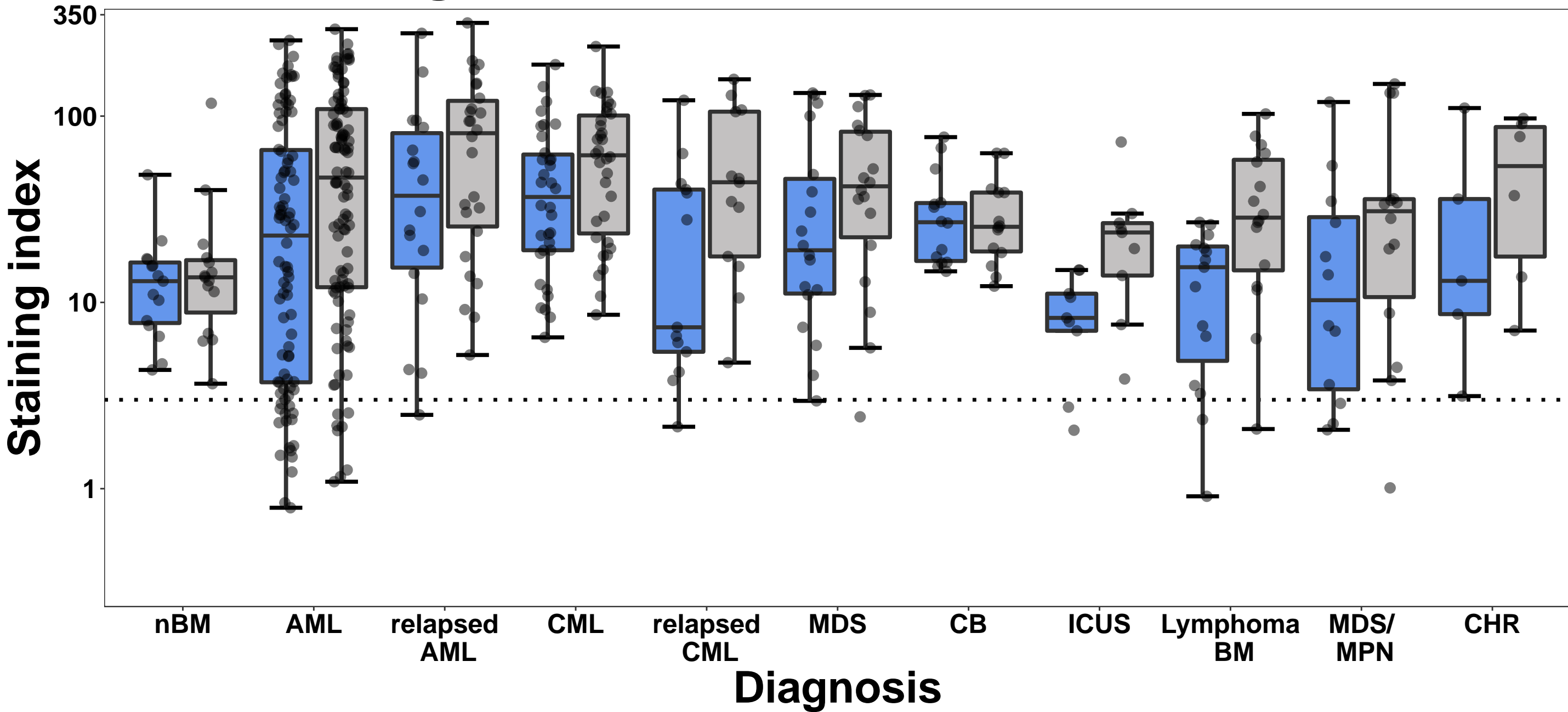
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD30 percentage



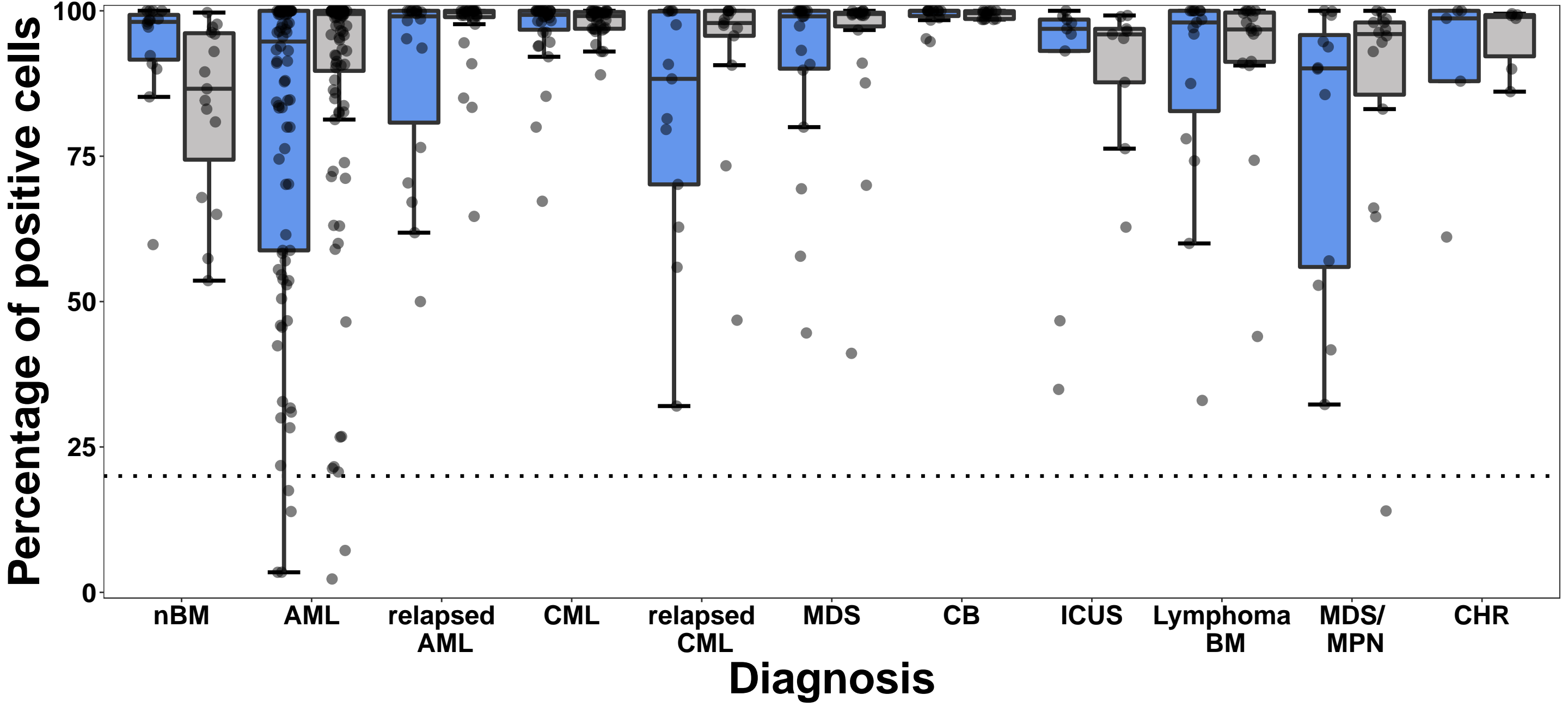
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD33 staining index



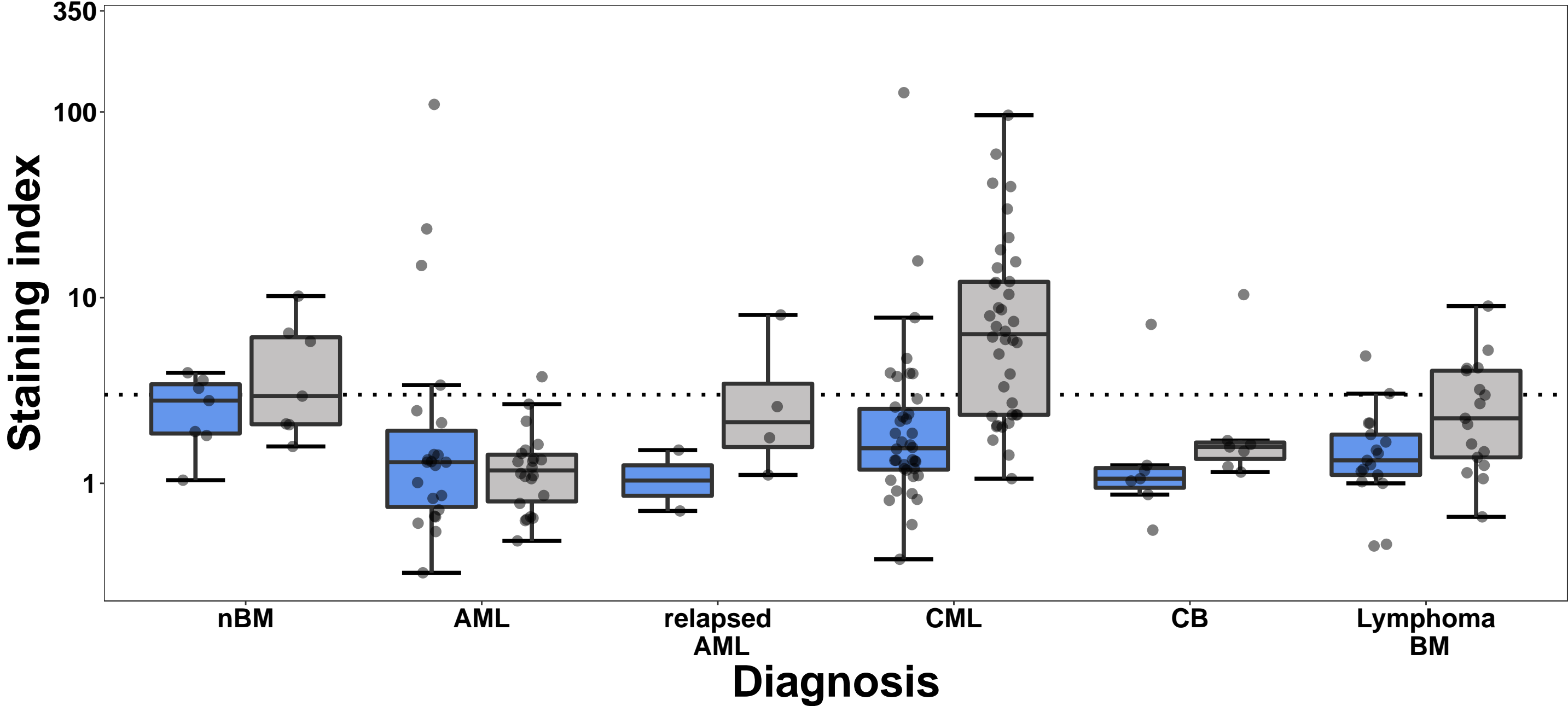
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD33 percentage



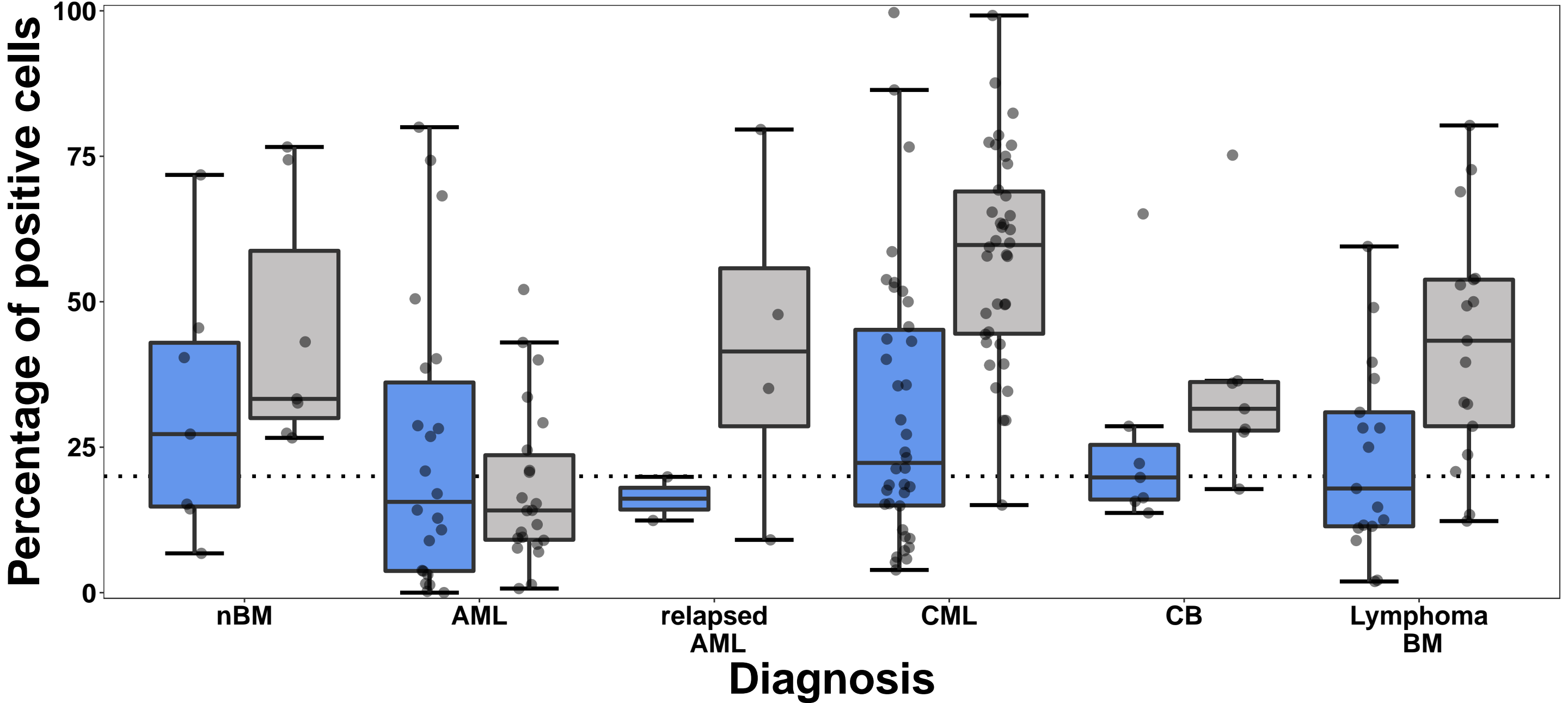
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD36 staining index



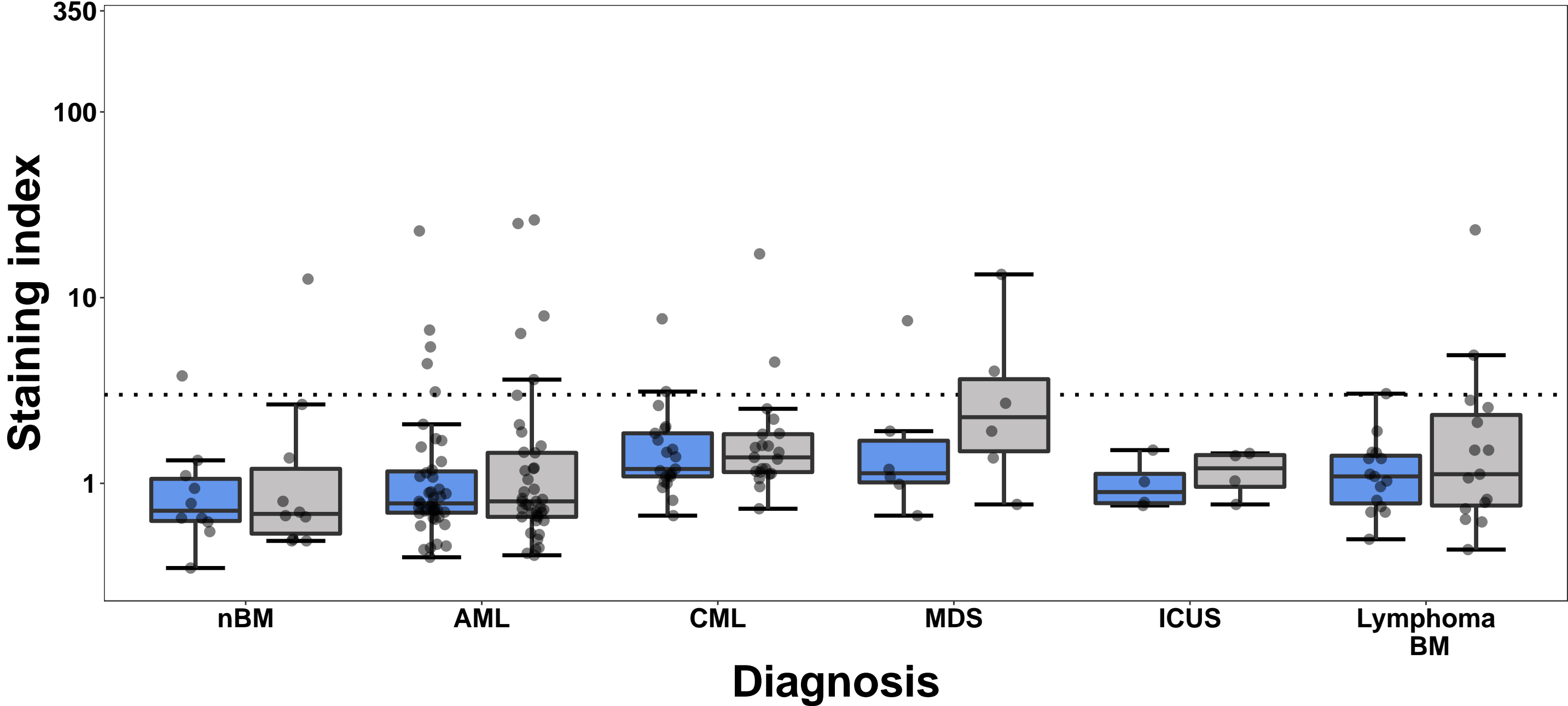
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD36 percentage



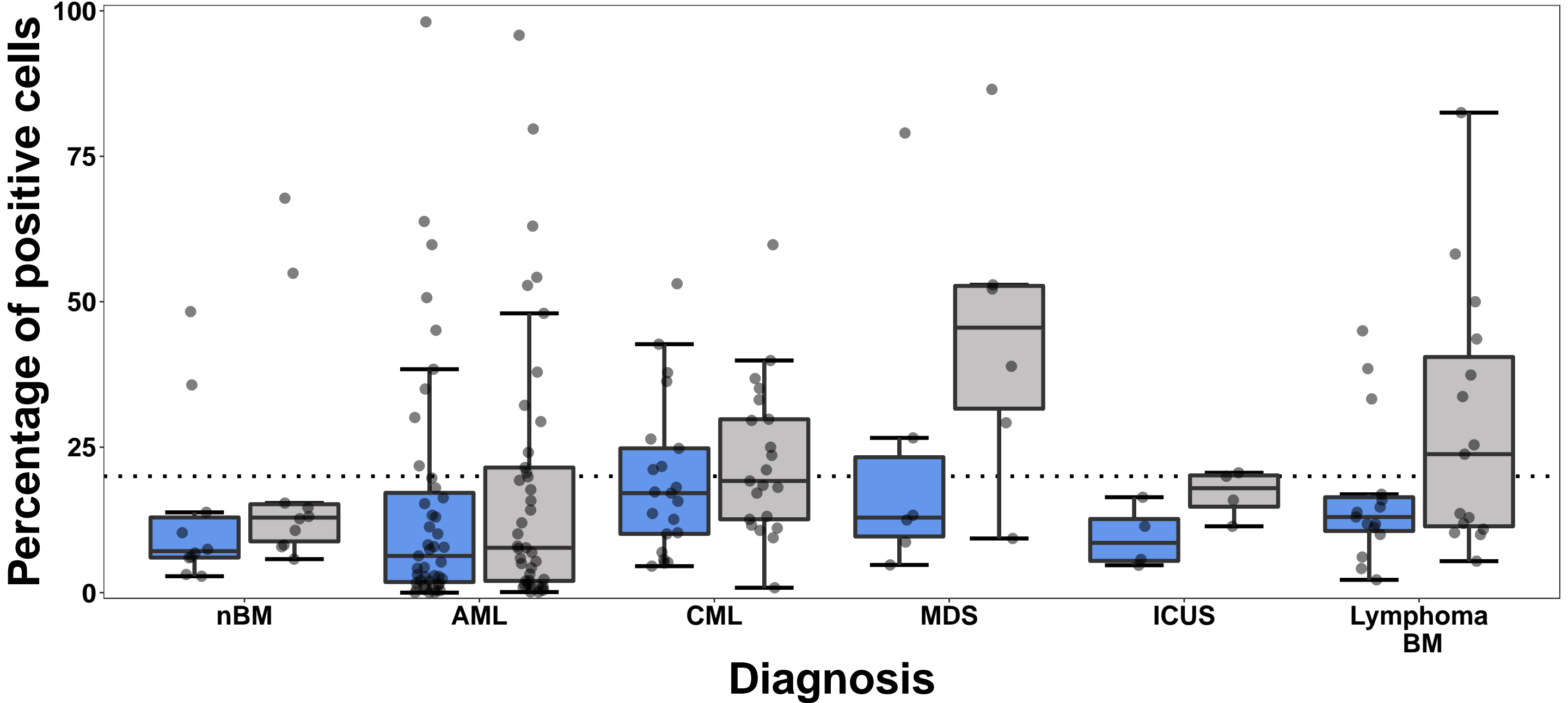
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD41 staining index



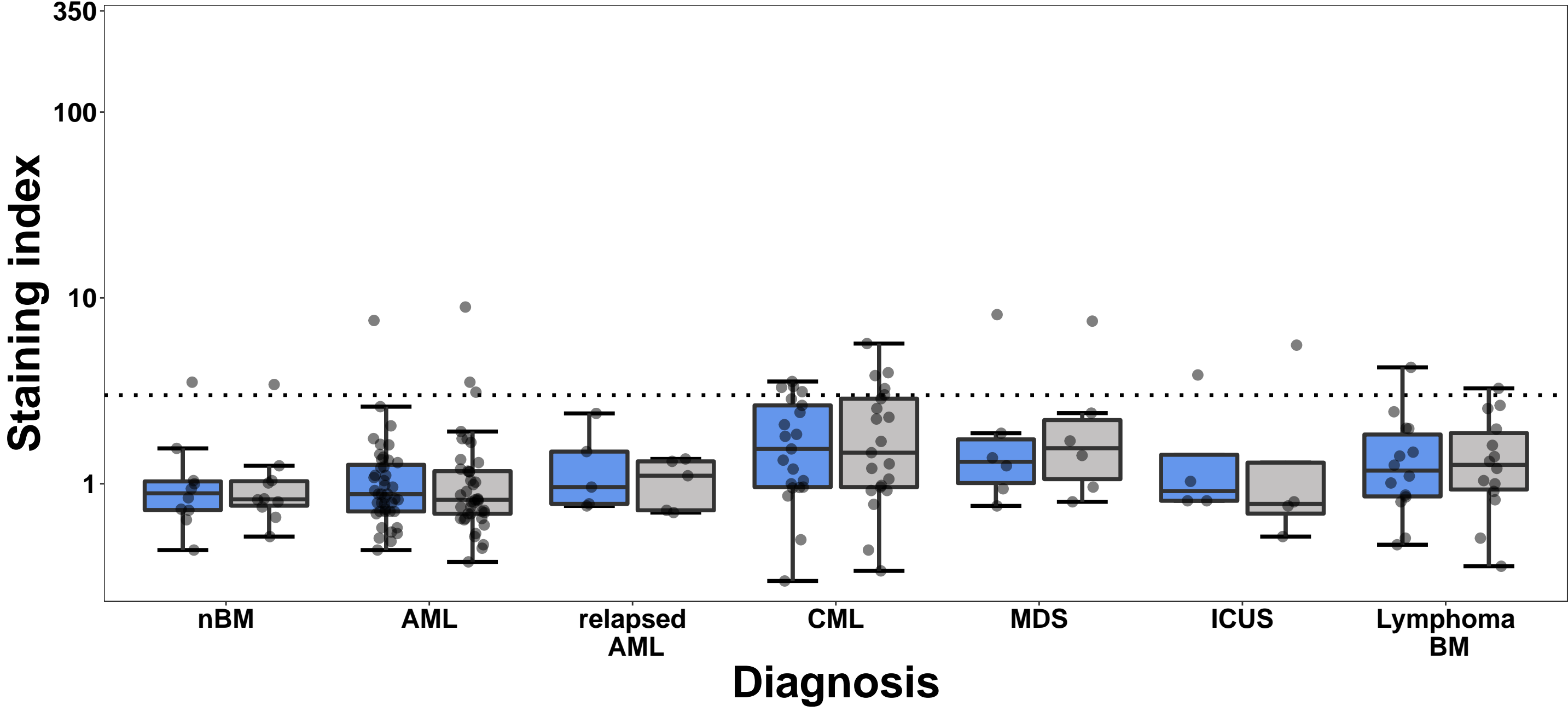
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD41 percentage



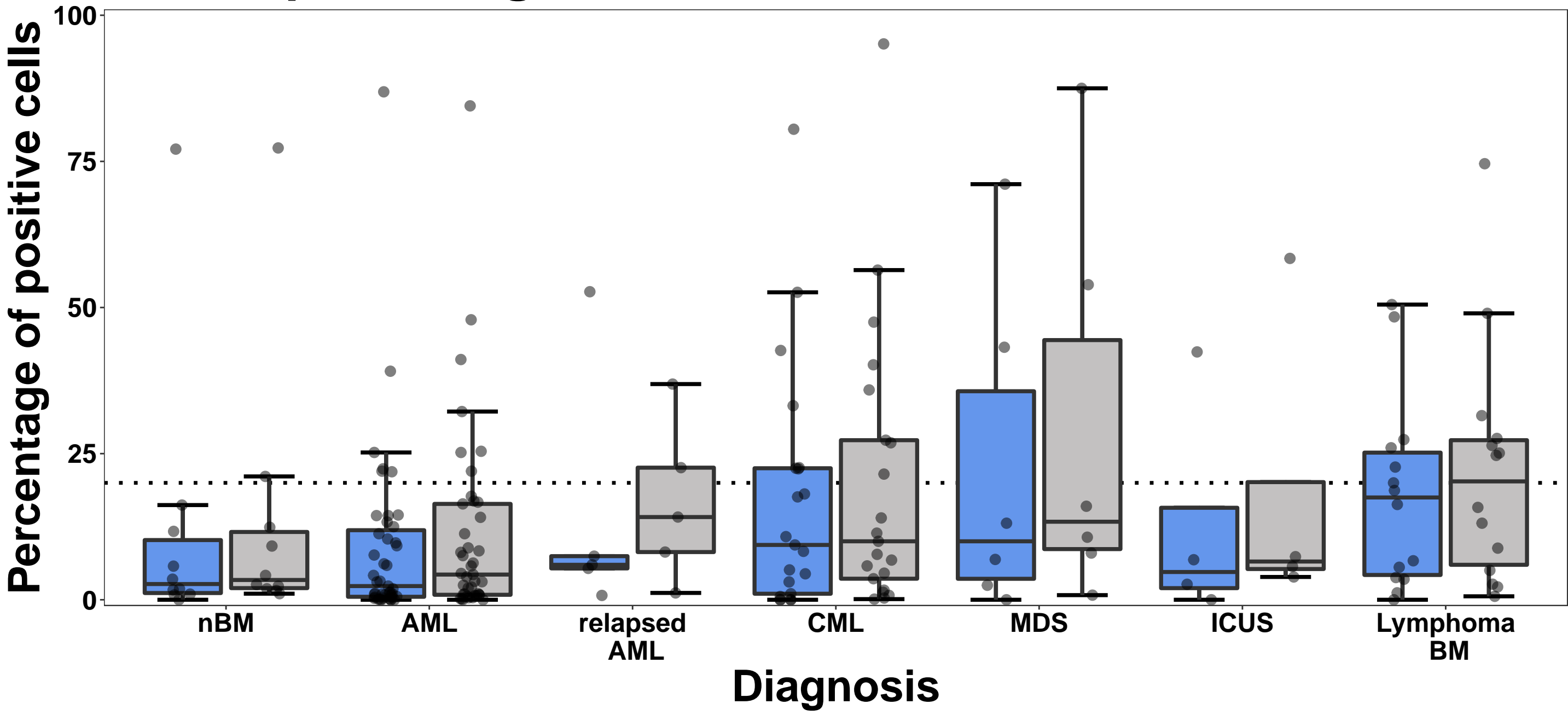
Cell fraction  CD34+/CD38-  CD34+/CD38+

CD42b staining index





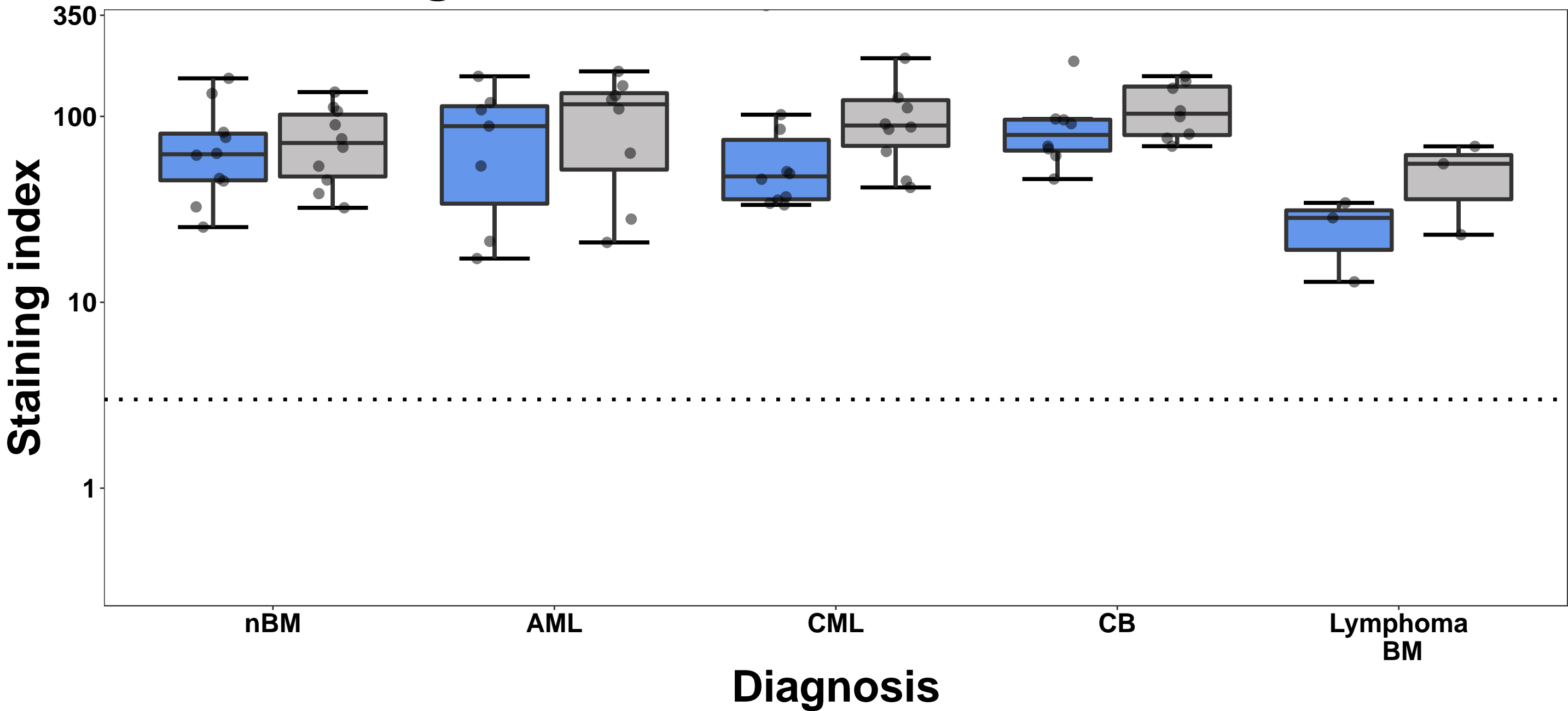
Cell fraction  CD34+/CD38-  CD34+/CD38+

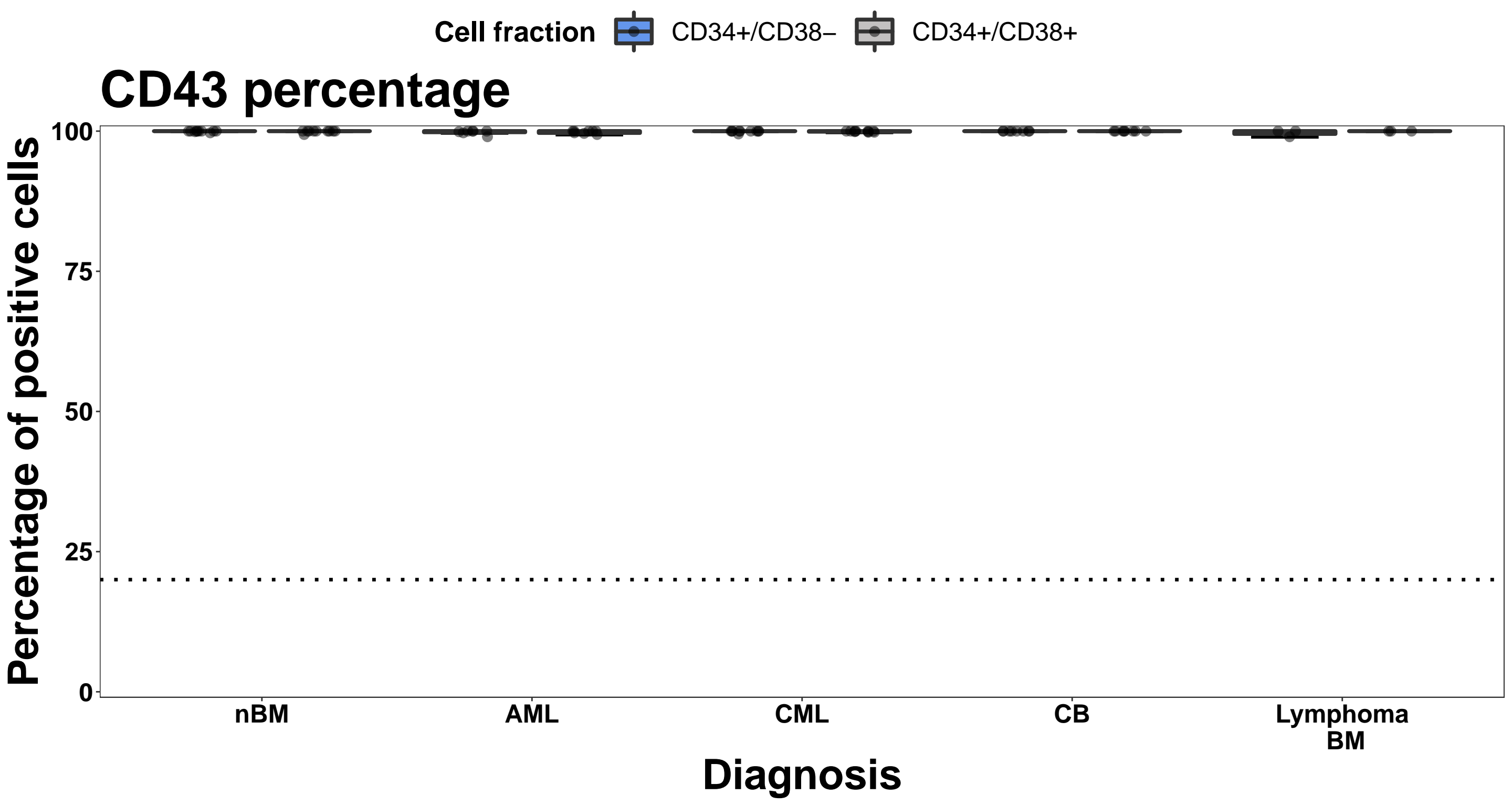
CD42b percentage





CD43 staining index

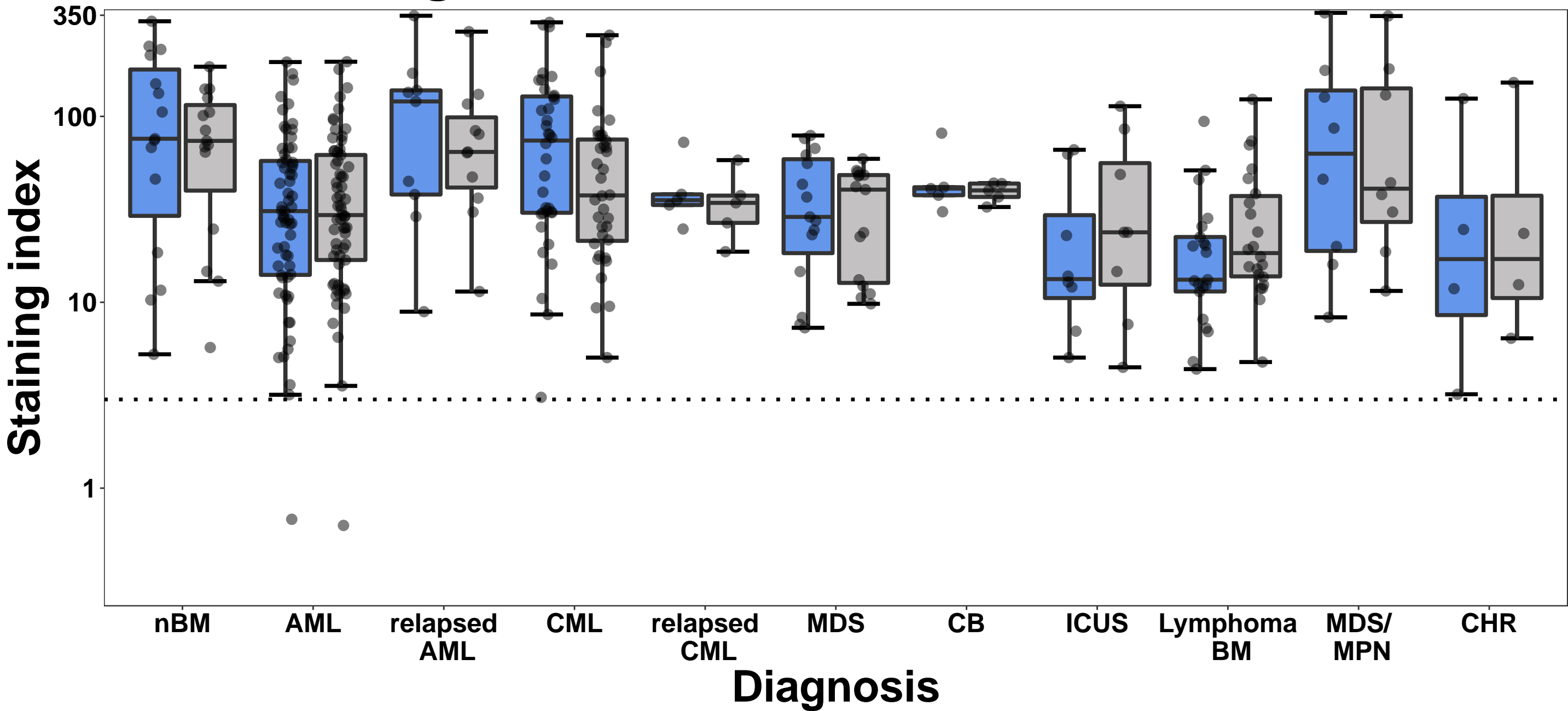
Cell fraction  CD34+/CD38-  CD34+/CD38+







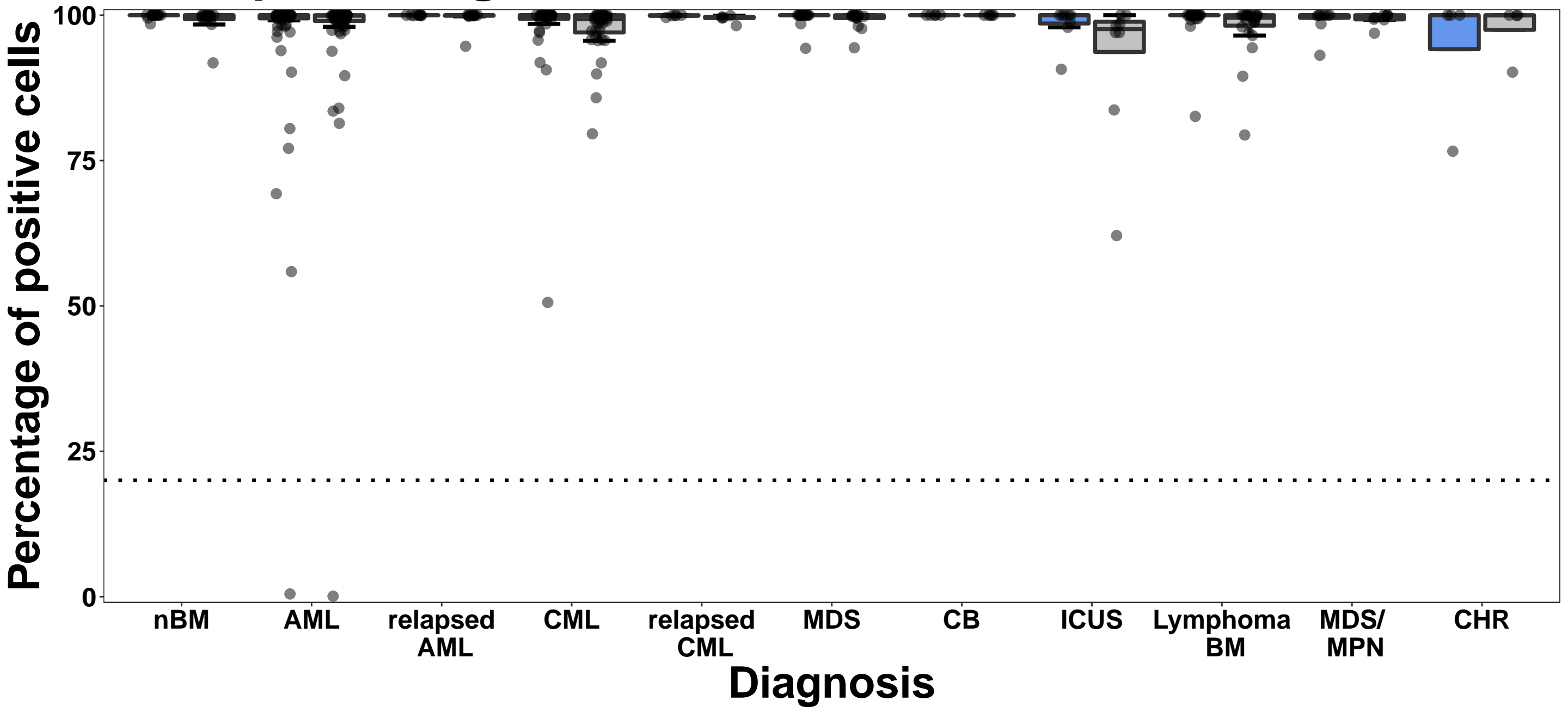
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD44 staining index



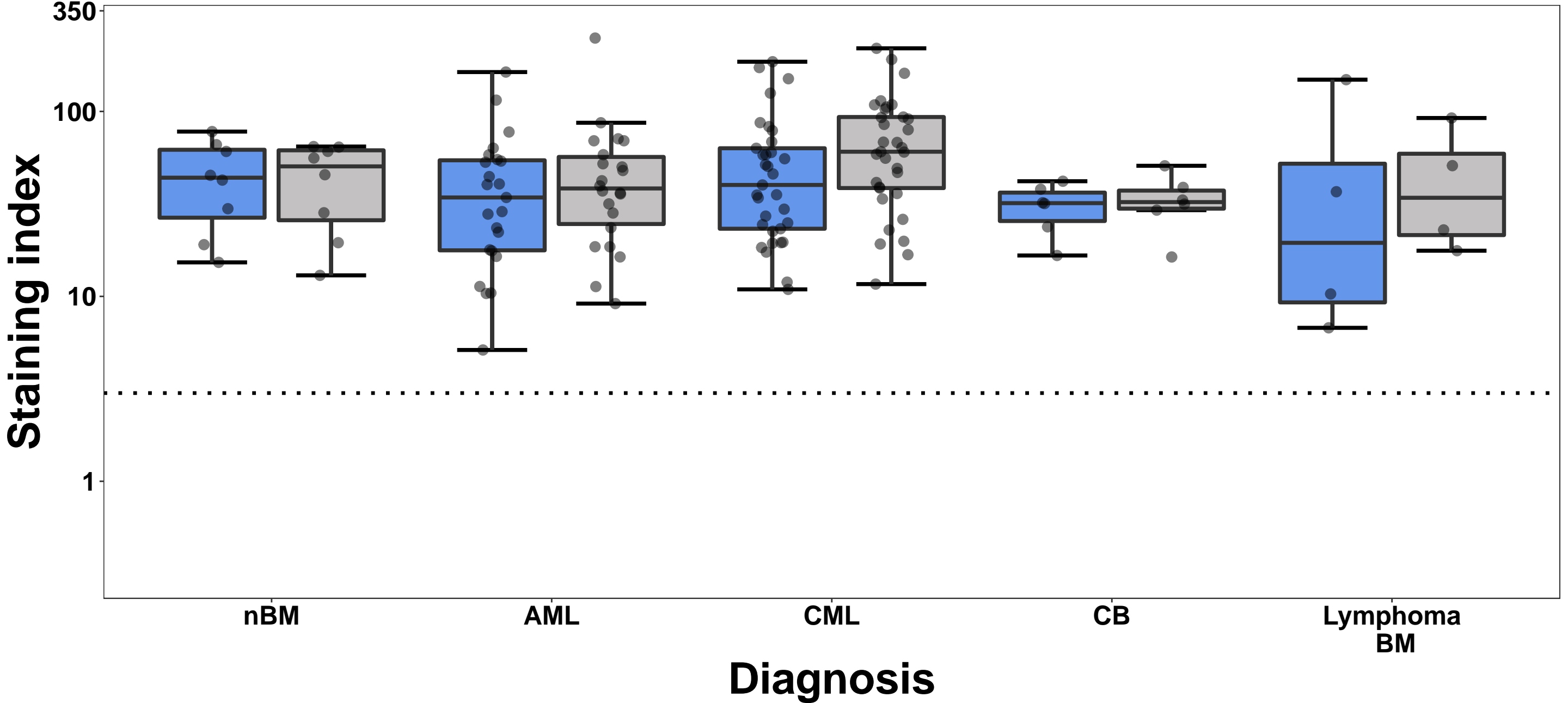
Cell fraction  CD34+/CD38-  CD34+/CD38+

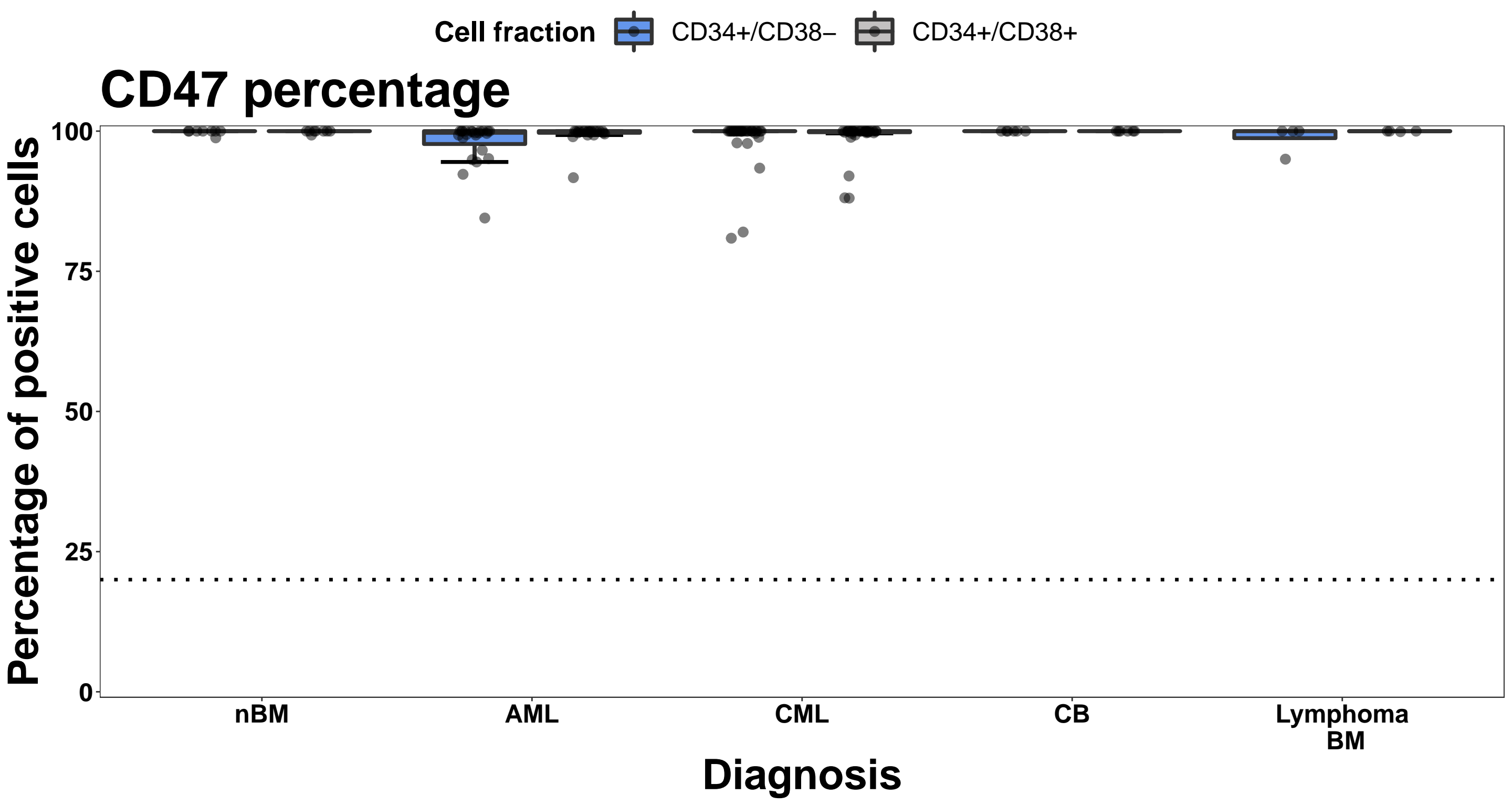
CD44 percentage





Cell fraction  CD34+/CD38-  CD34+/CD38+

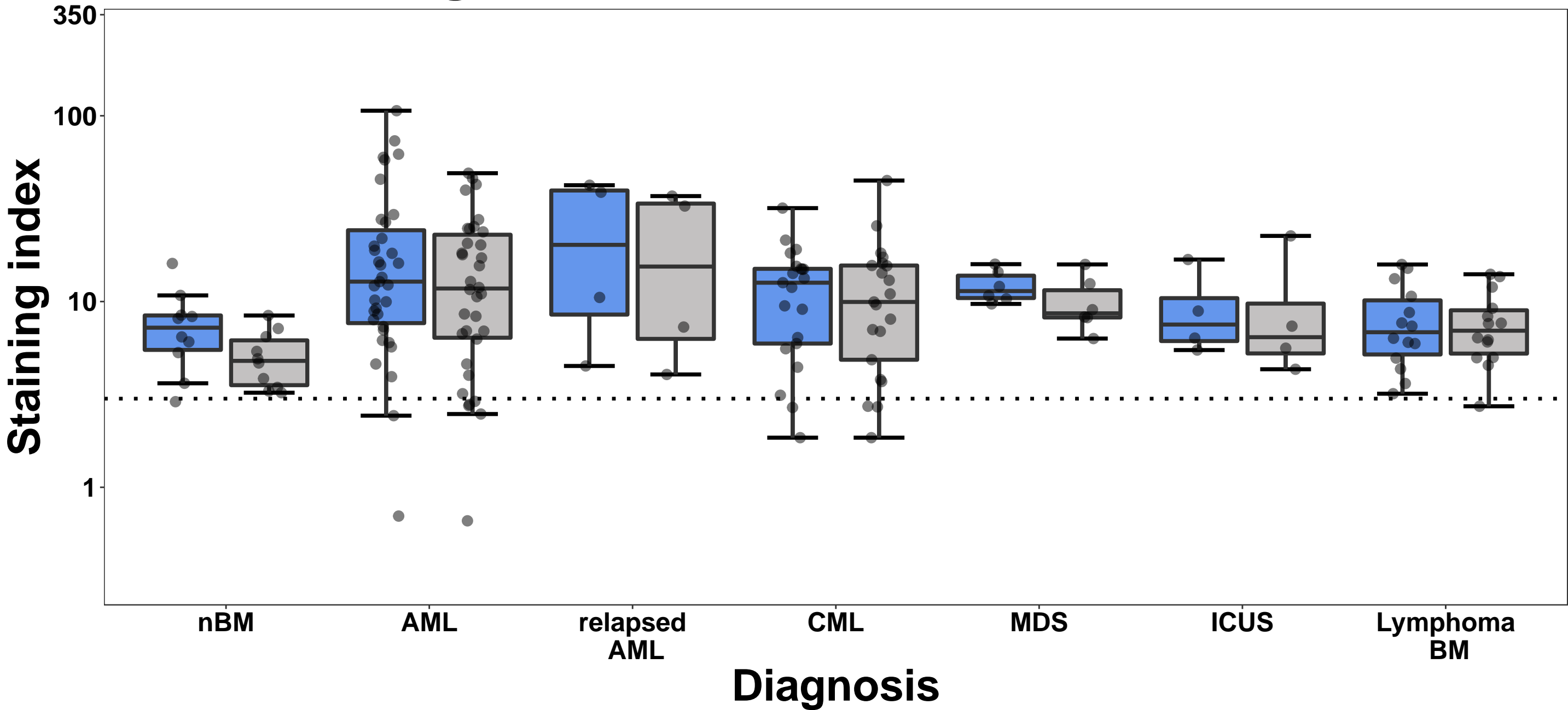
CD47 staining index







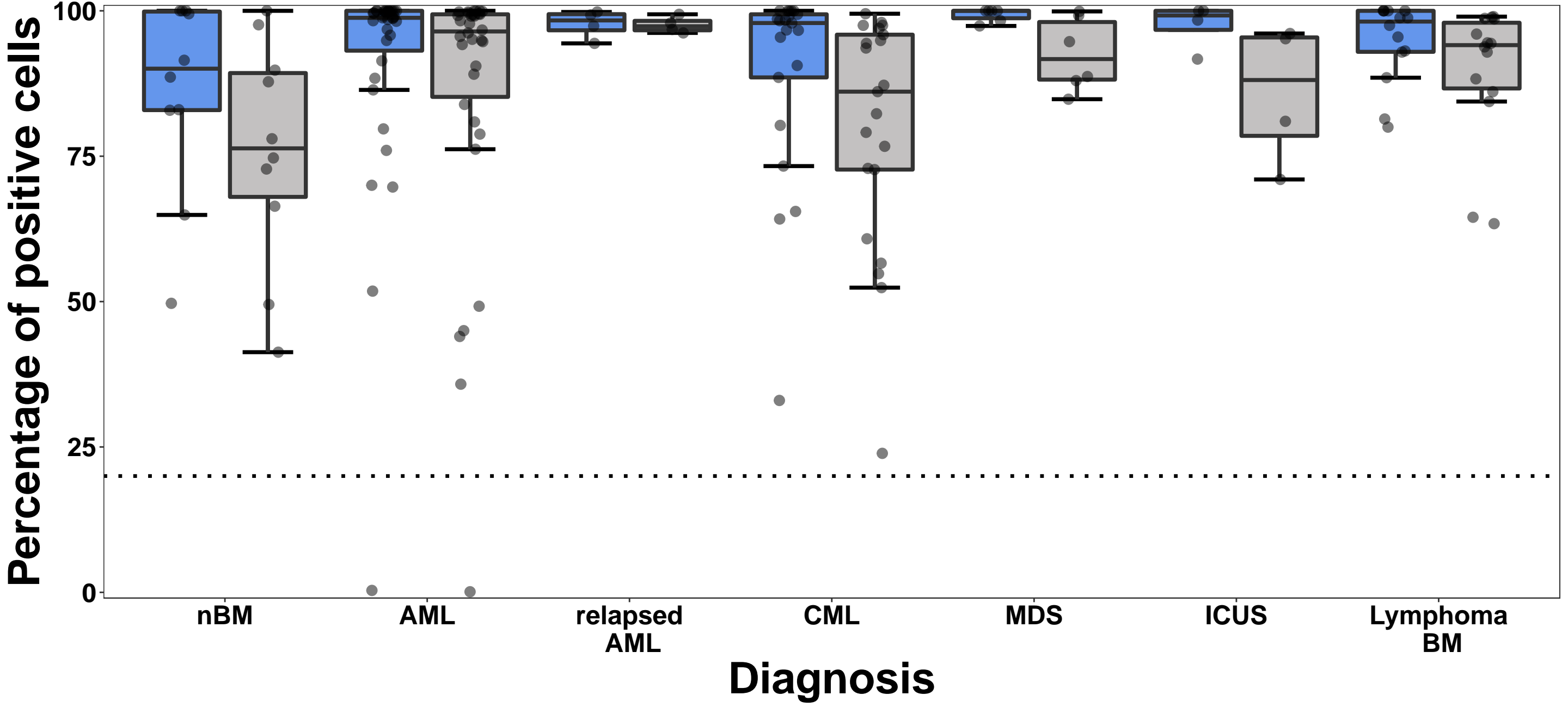
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD49f staining index



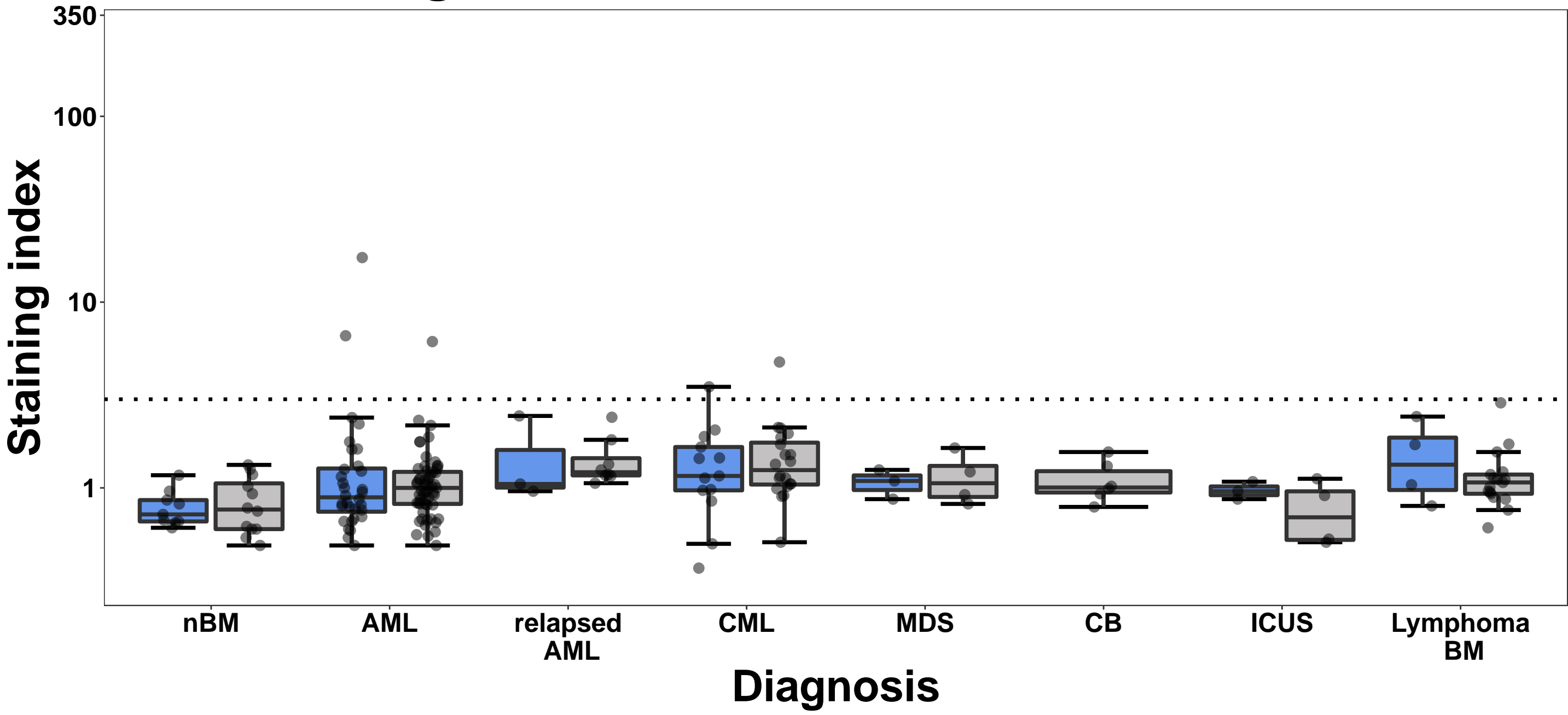
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD49f percentage



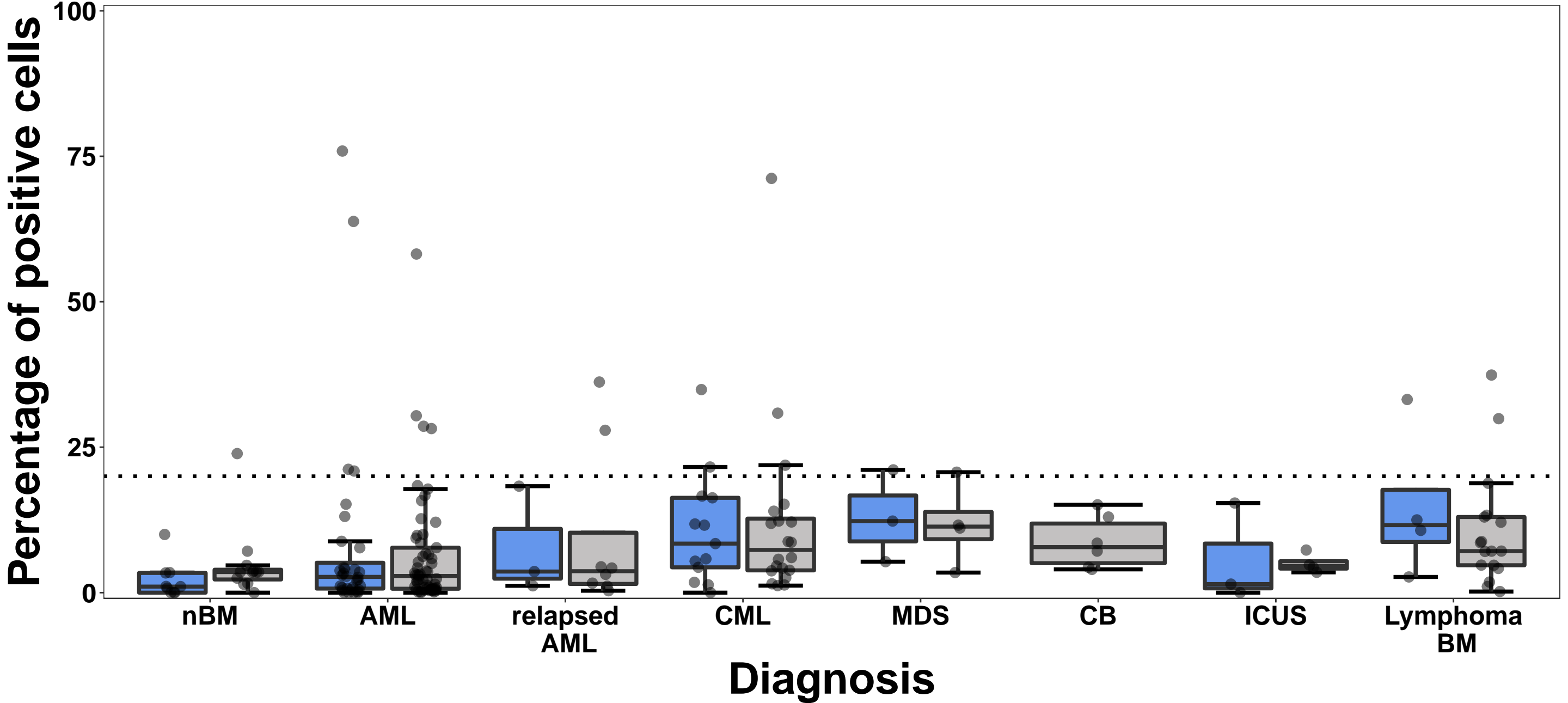
Cell fraction  CD34+/CD38-  CD34+/CD38+

CD51 staining index





Cell fraction  CD34+/CD38-  CD34+/CD38+

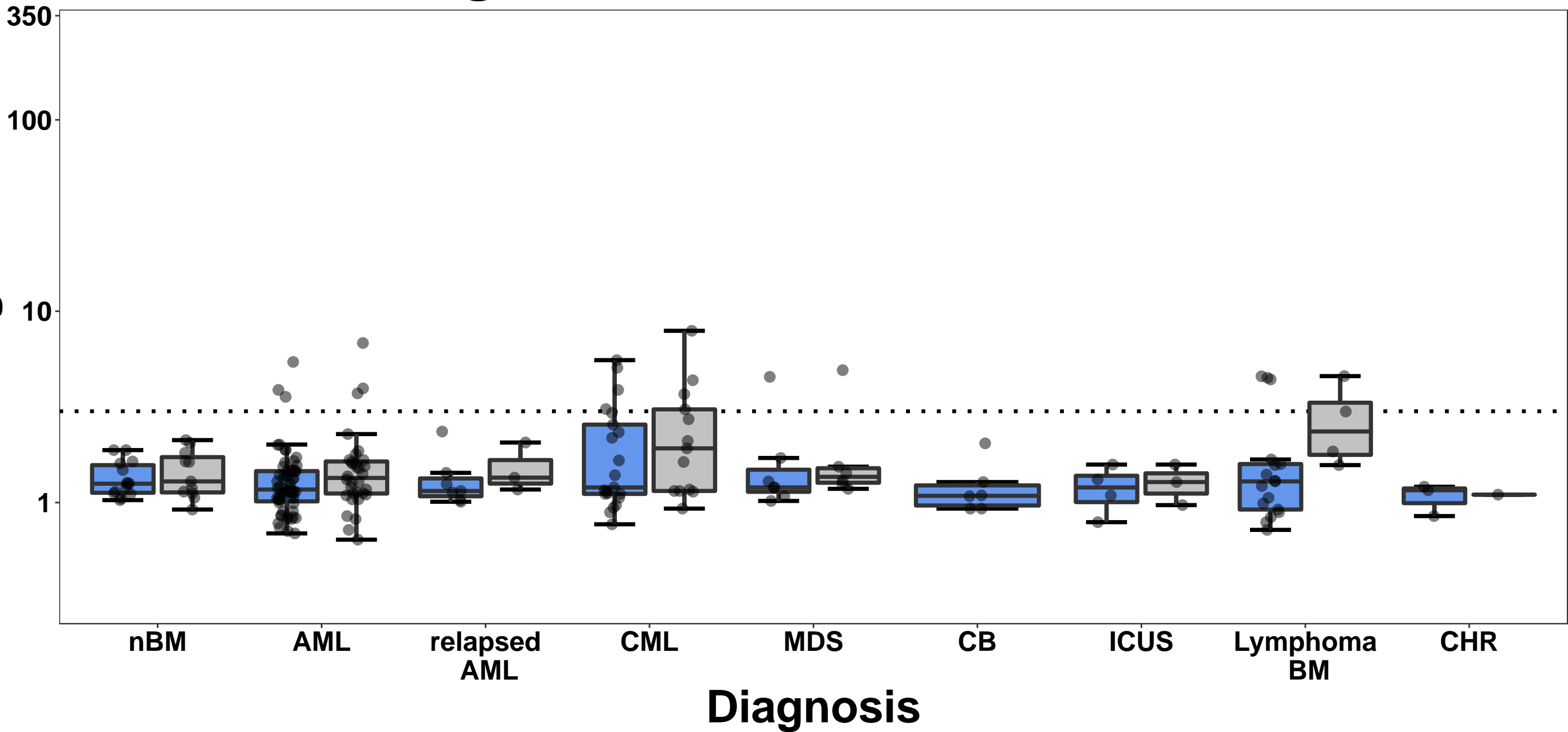
CD51 percentage





CD51/61 staining index

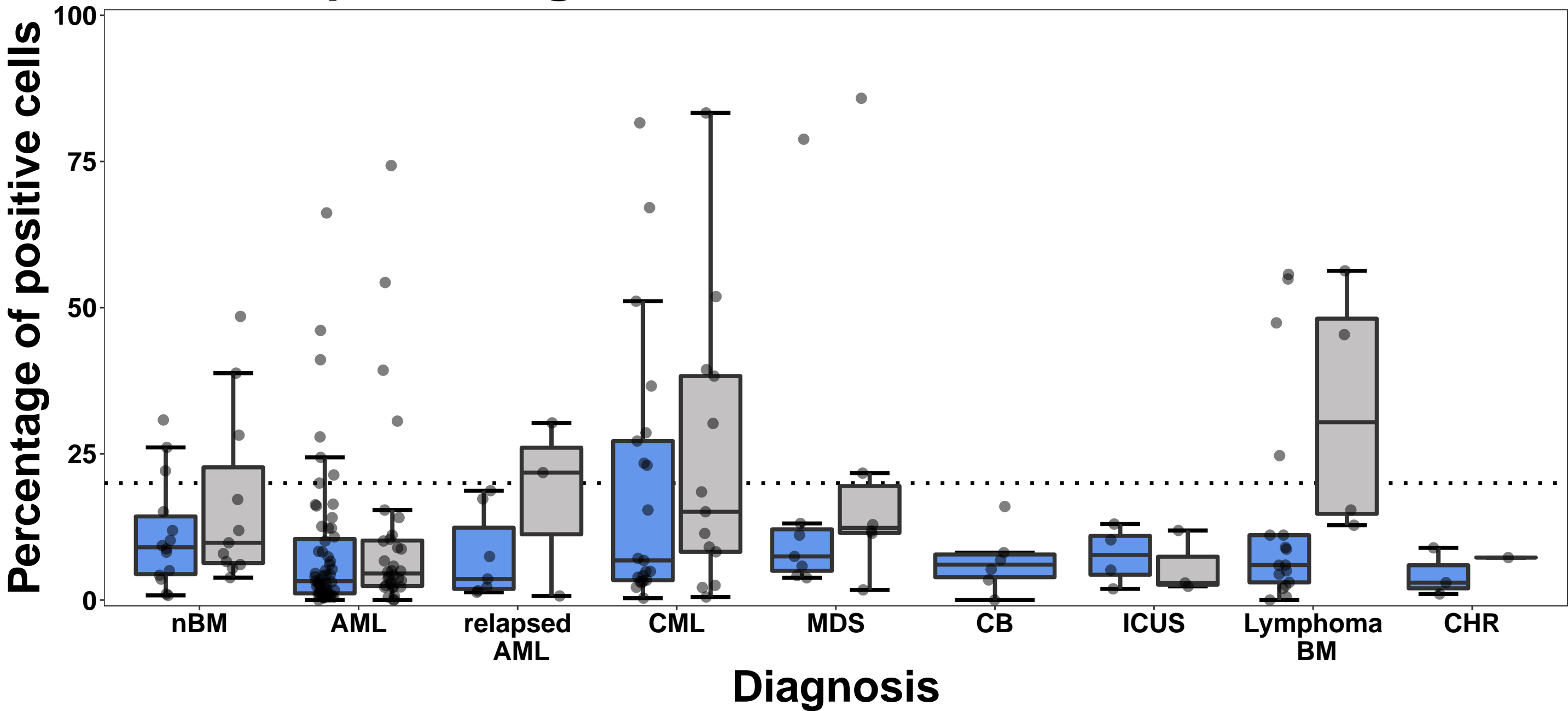
Cell fraction  CD34+/CD38-  CD34+/CD38+



Staining index



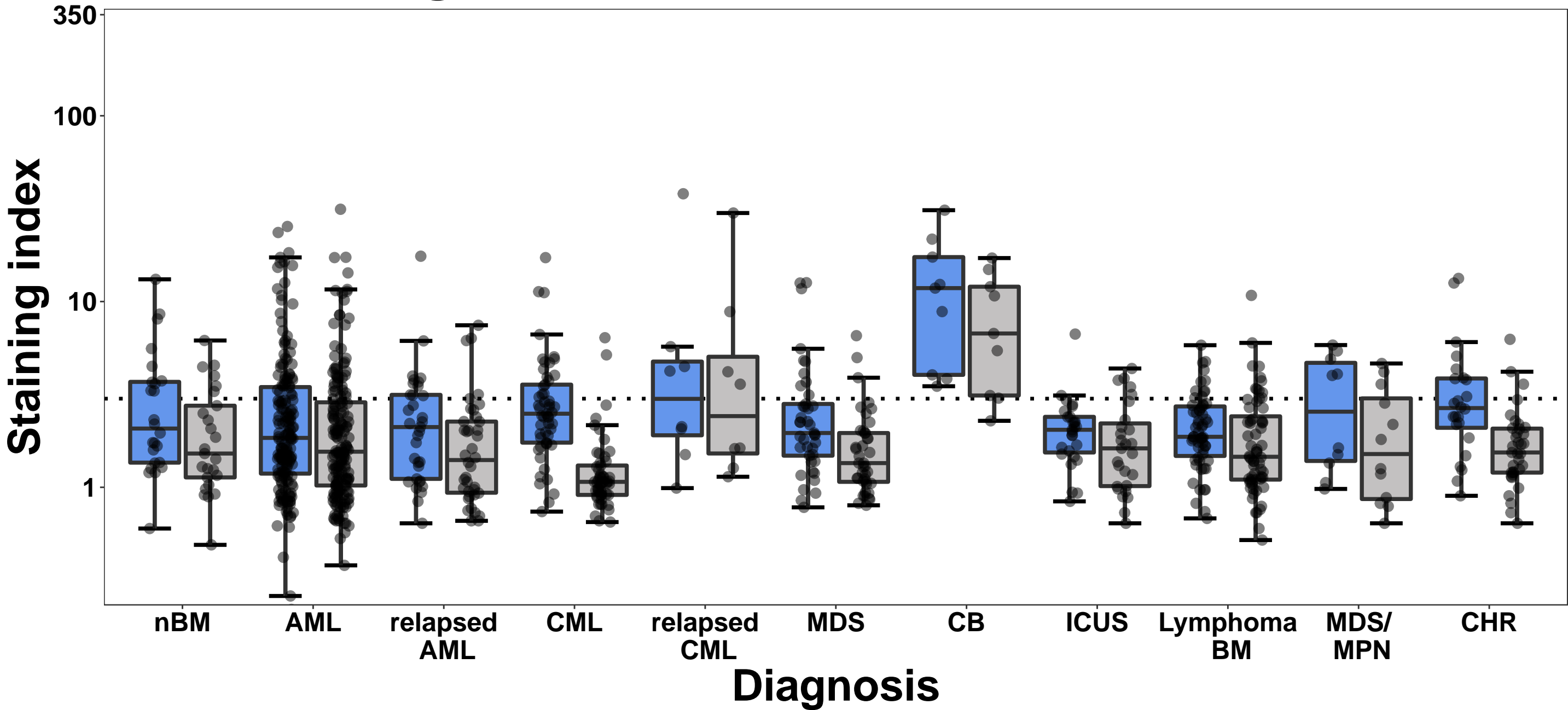
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD51/61 percentage



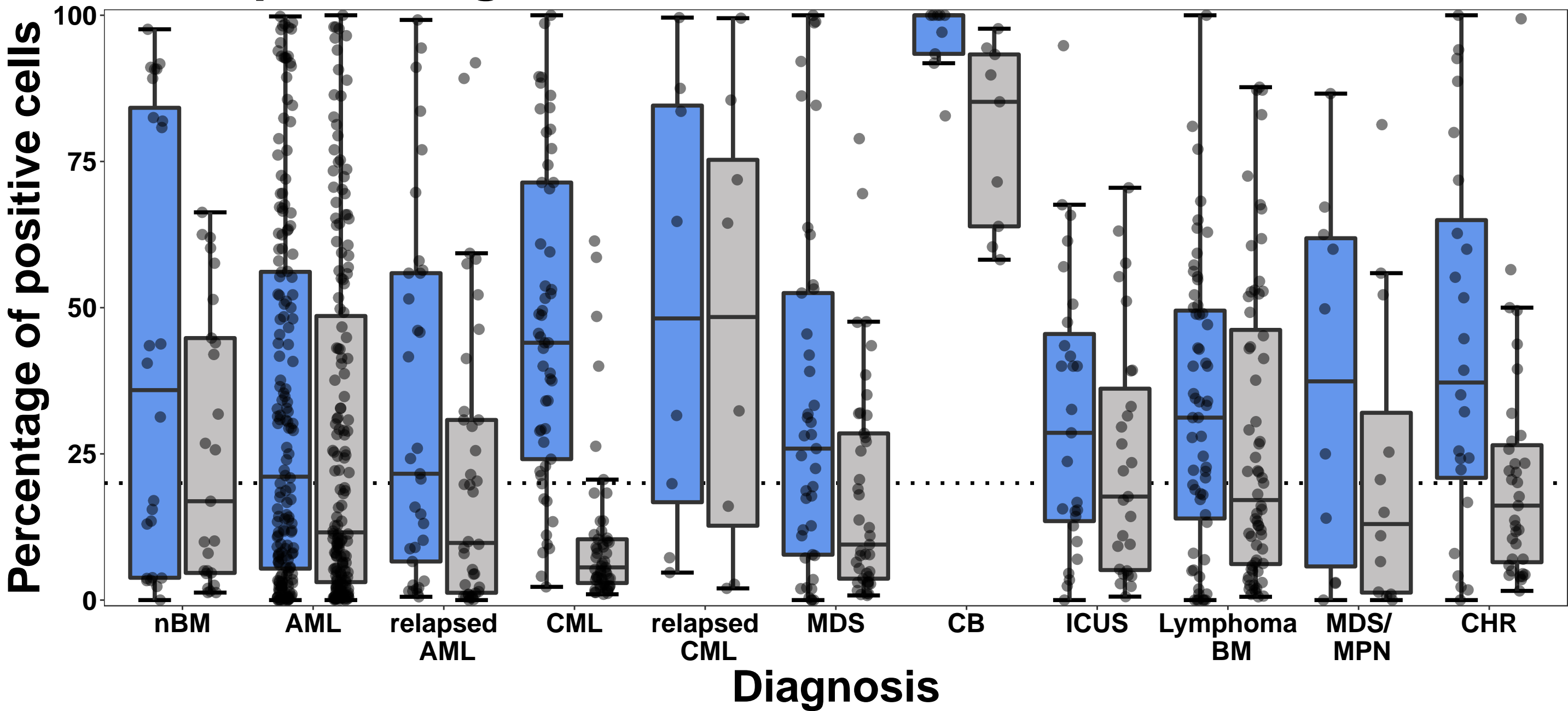
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD52 staining index



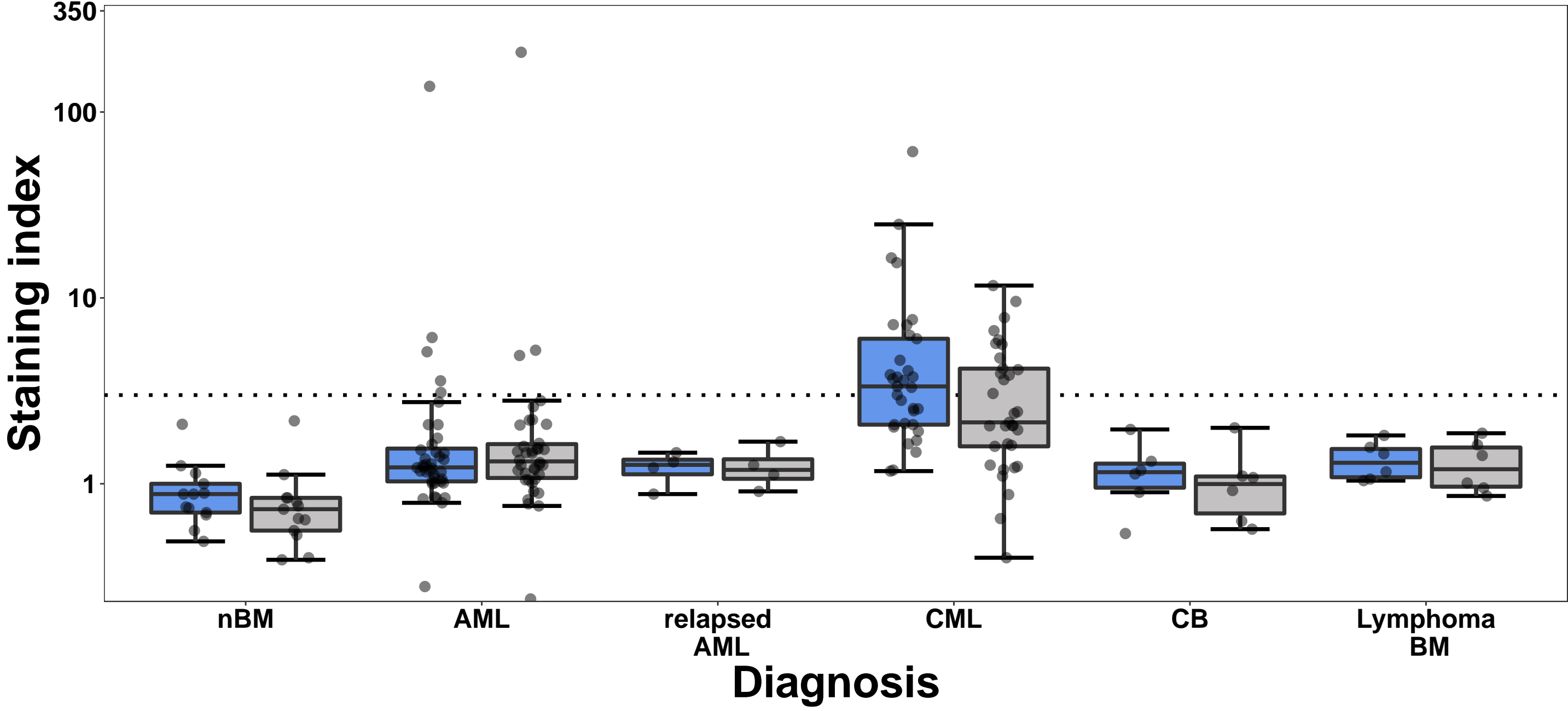
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD52 percentage



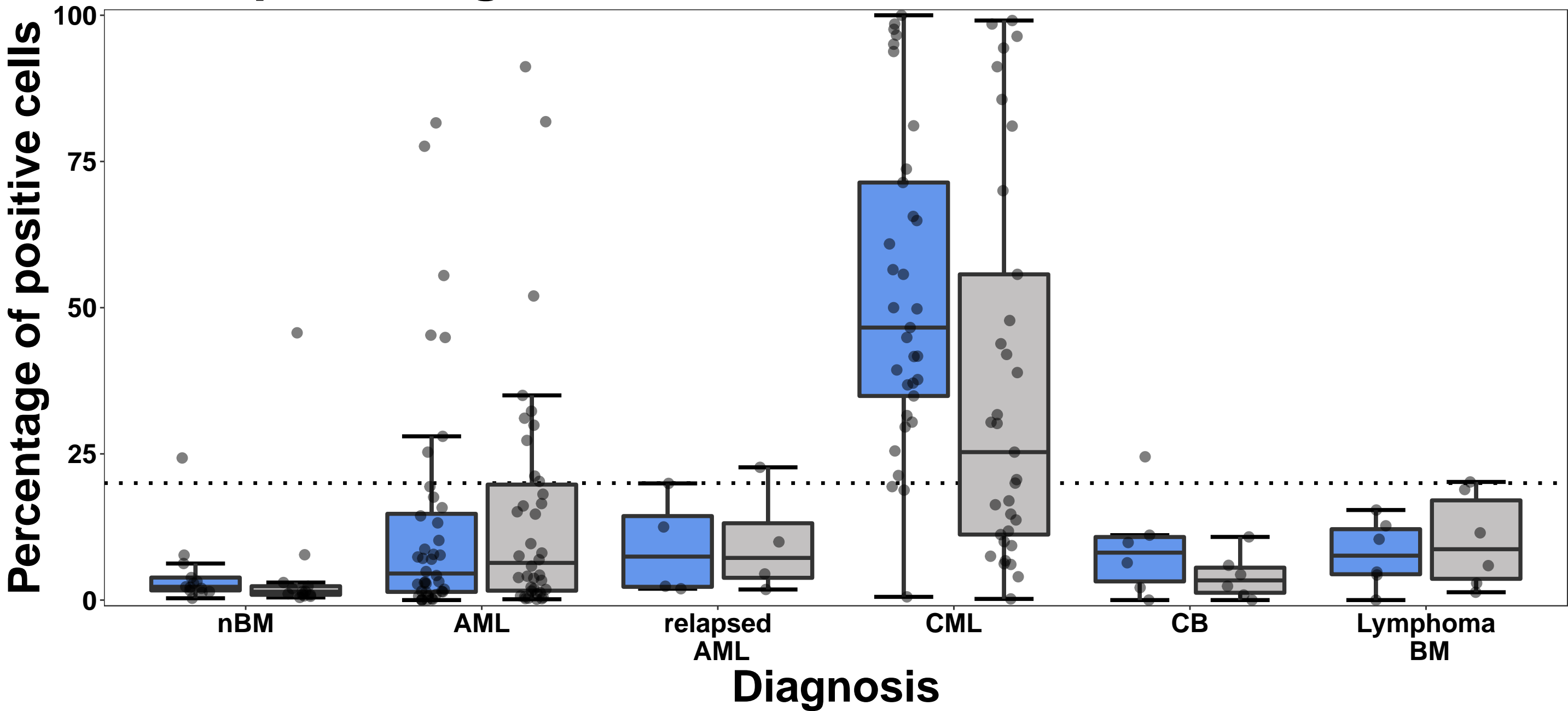
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD56 staining index



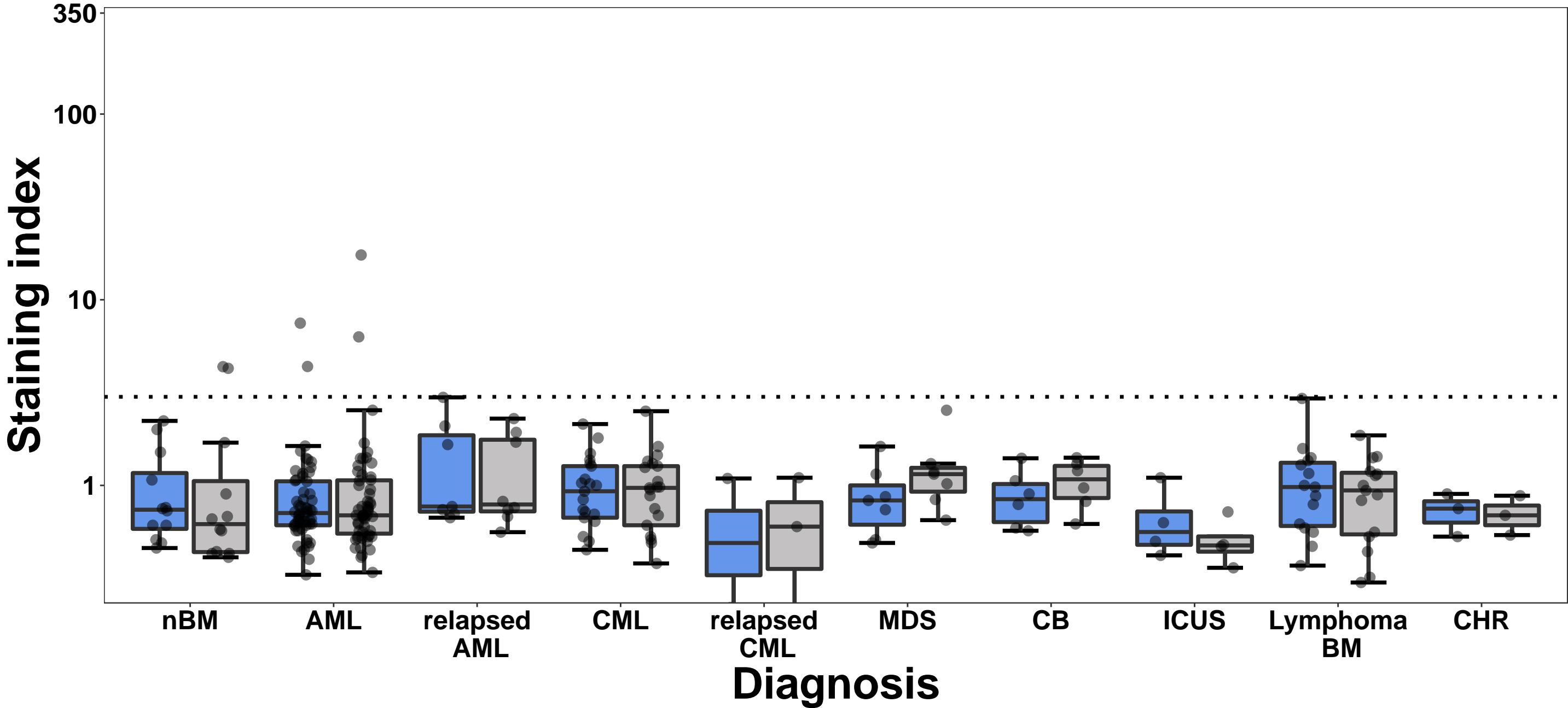
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD56 percentage



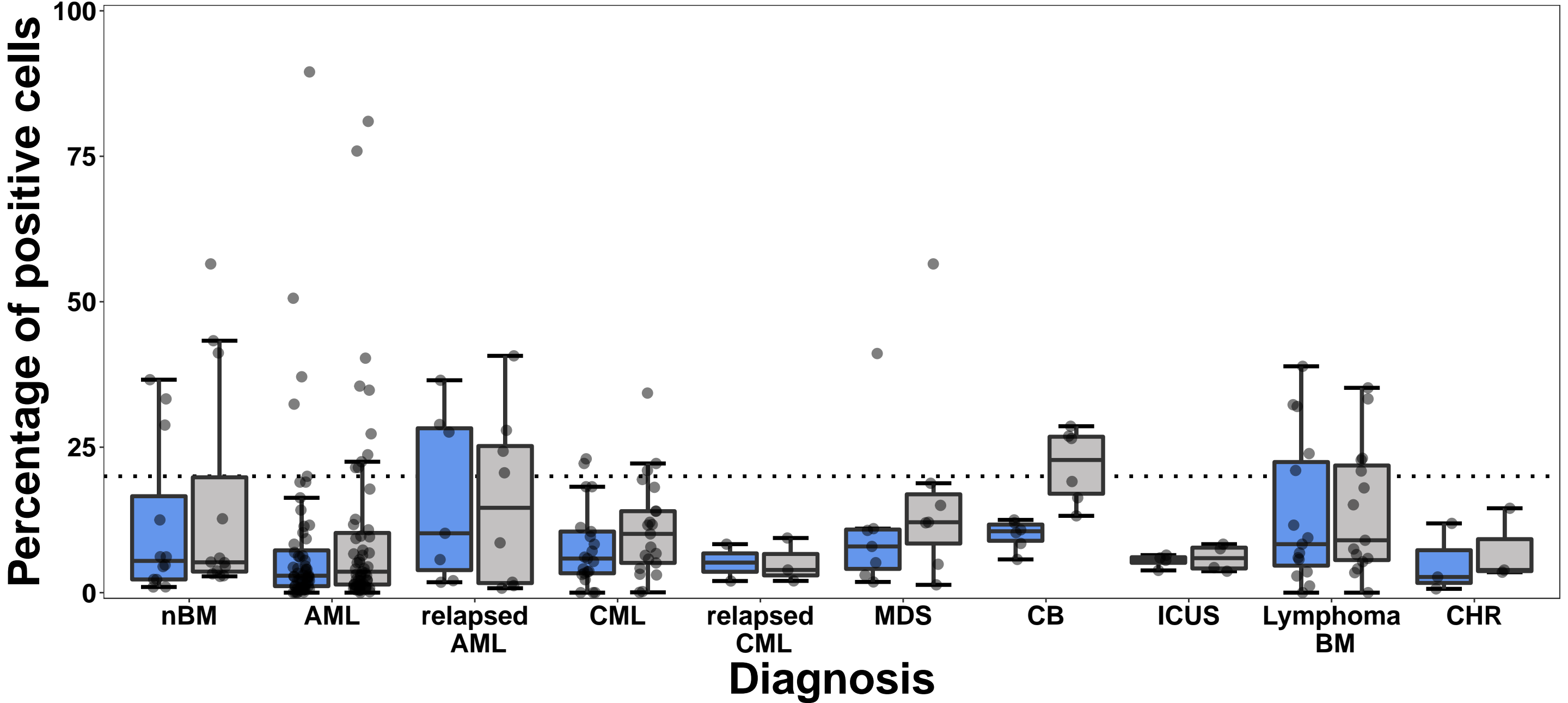
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD61 staining index



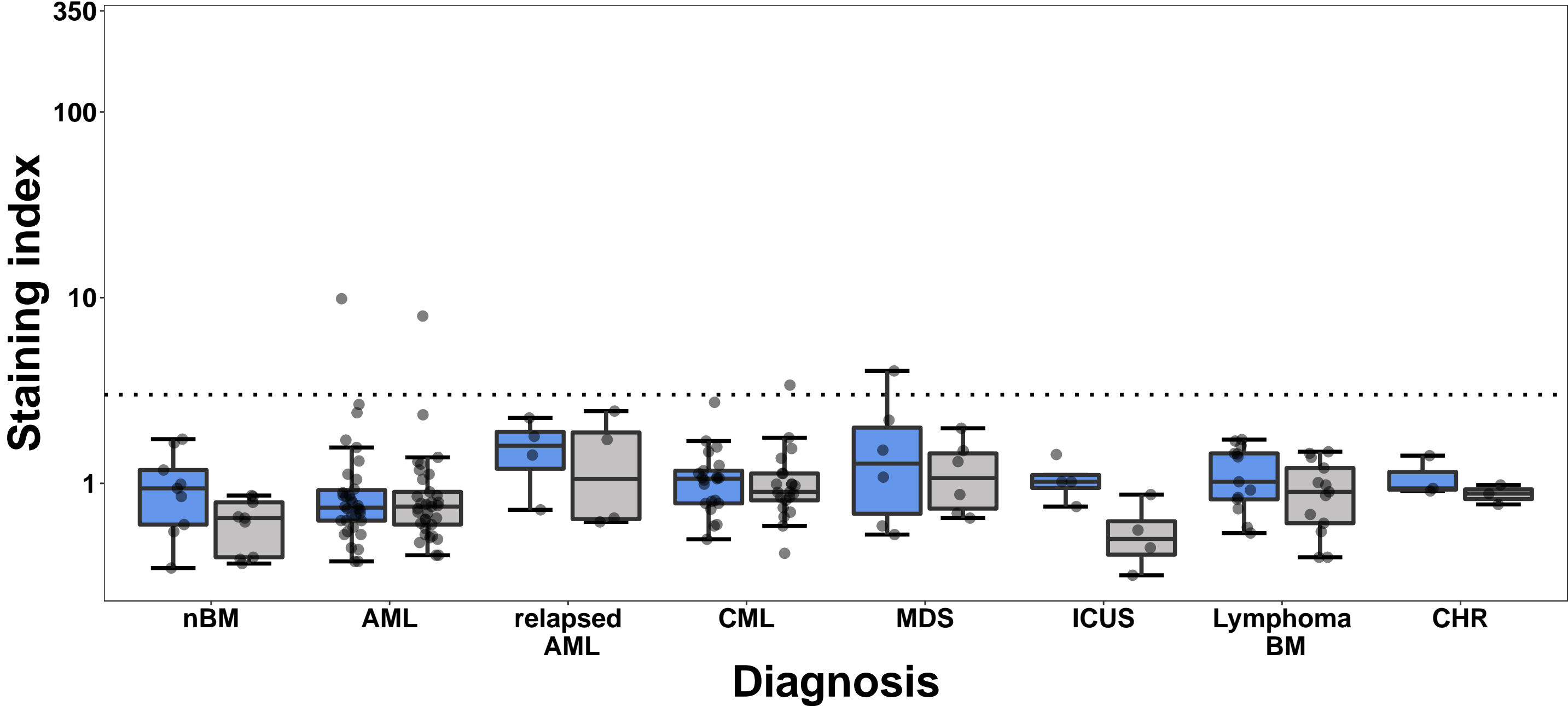
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD61 percentage



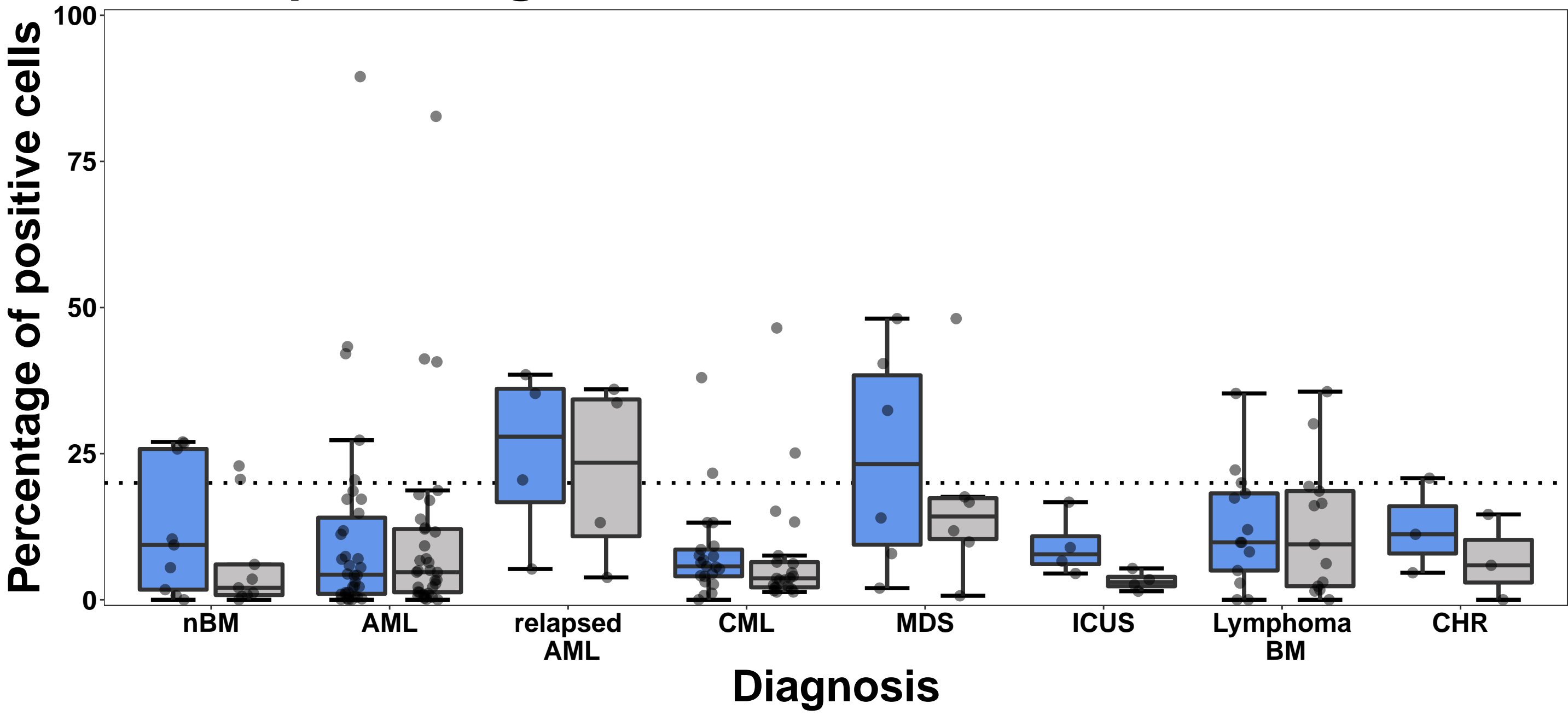
Cell fraction  CD34+/CD38-  CD34+/CD38+

CD62P staining index





Cell fraction  CD34+/CD38-  CD34+/CD38+

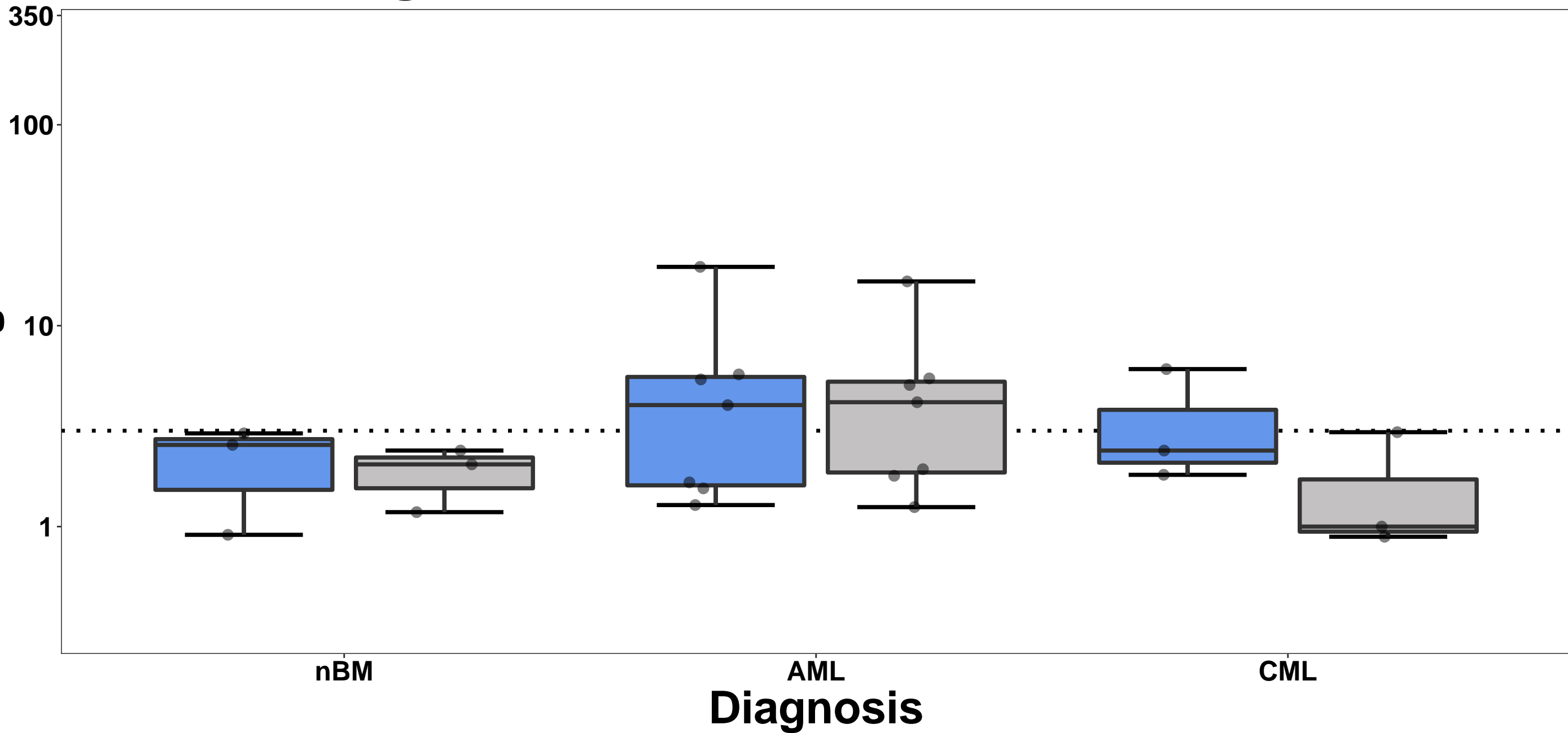
CD62P percentage





CD69 staining index

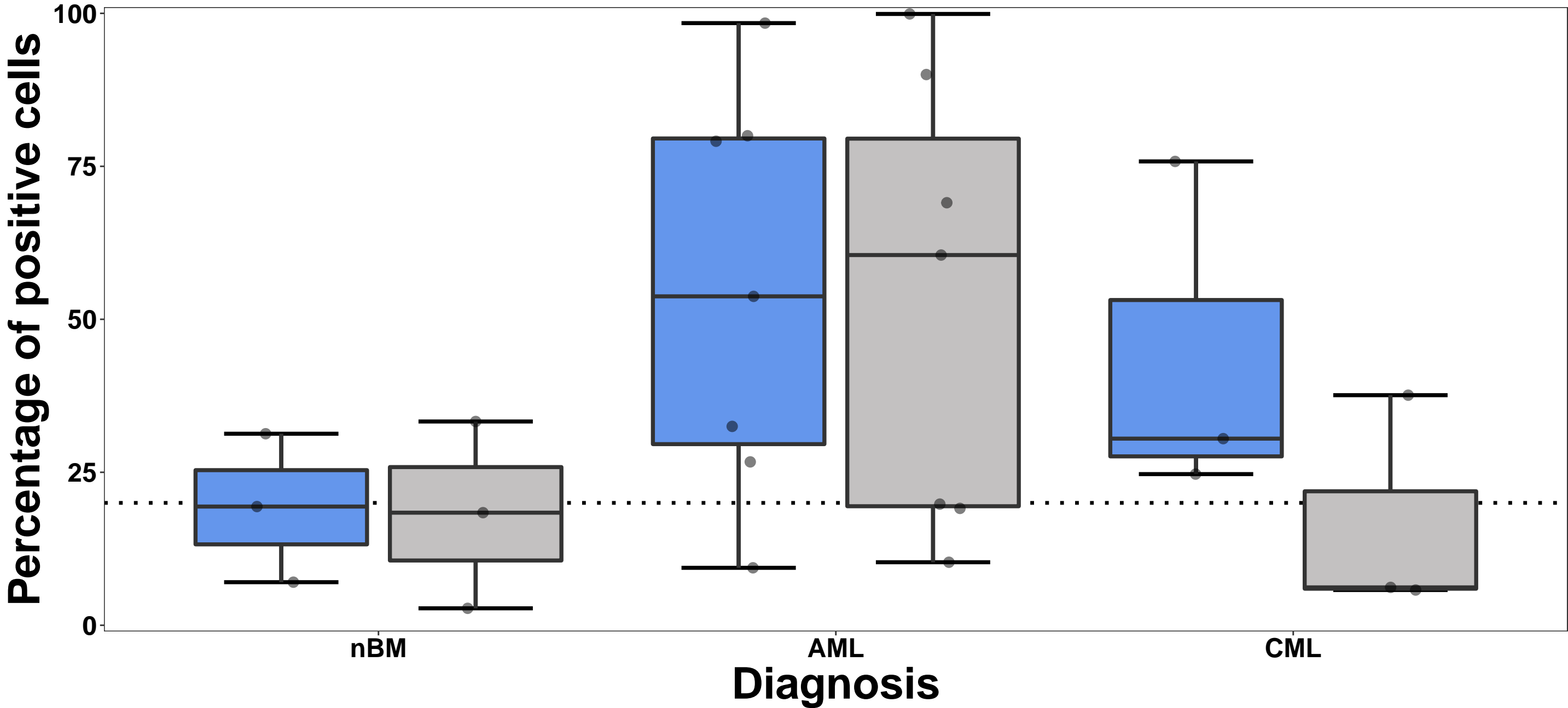
Cell fraction  CD34+/CD38-  CD34+/CD38+



Staining index



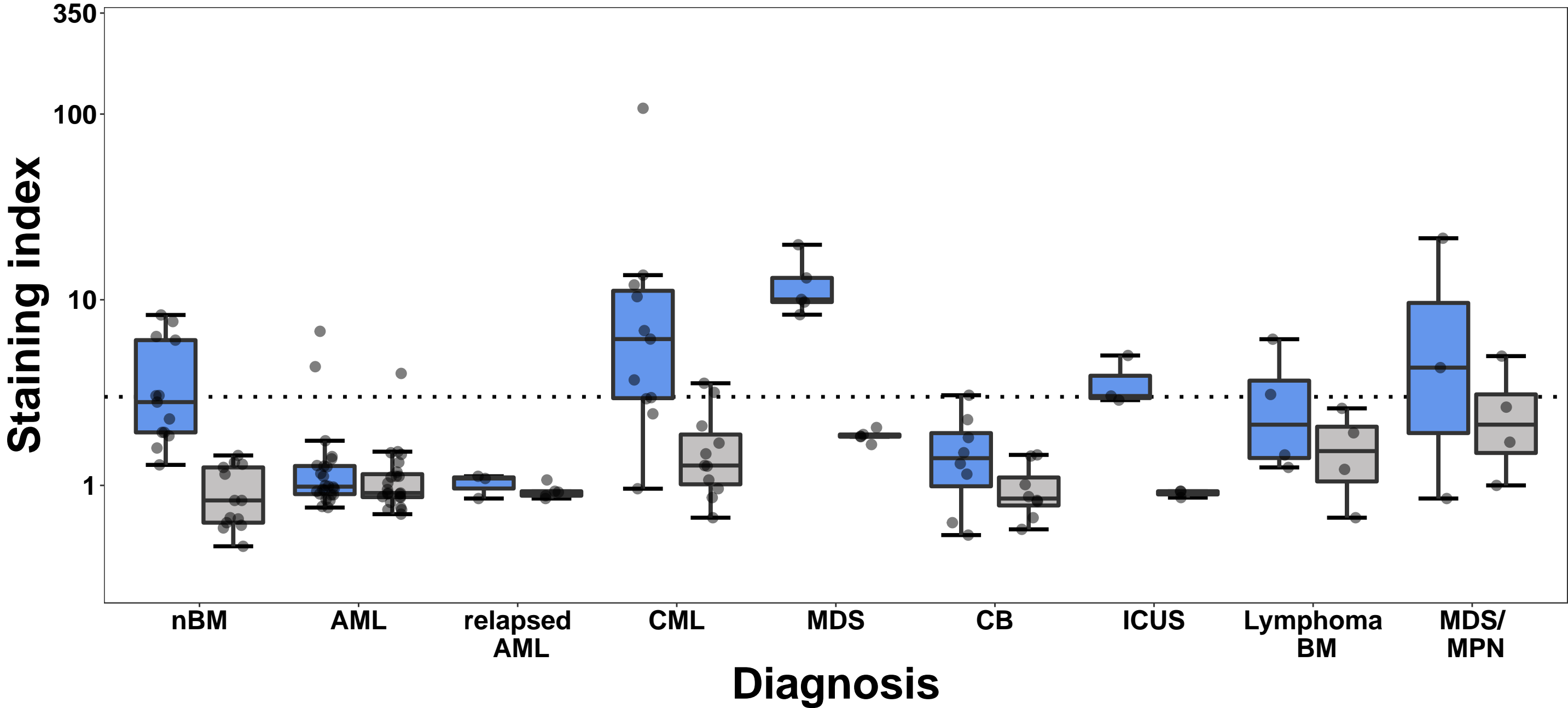
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD69 percentage



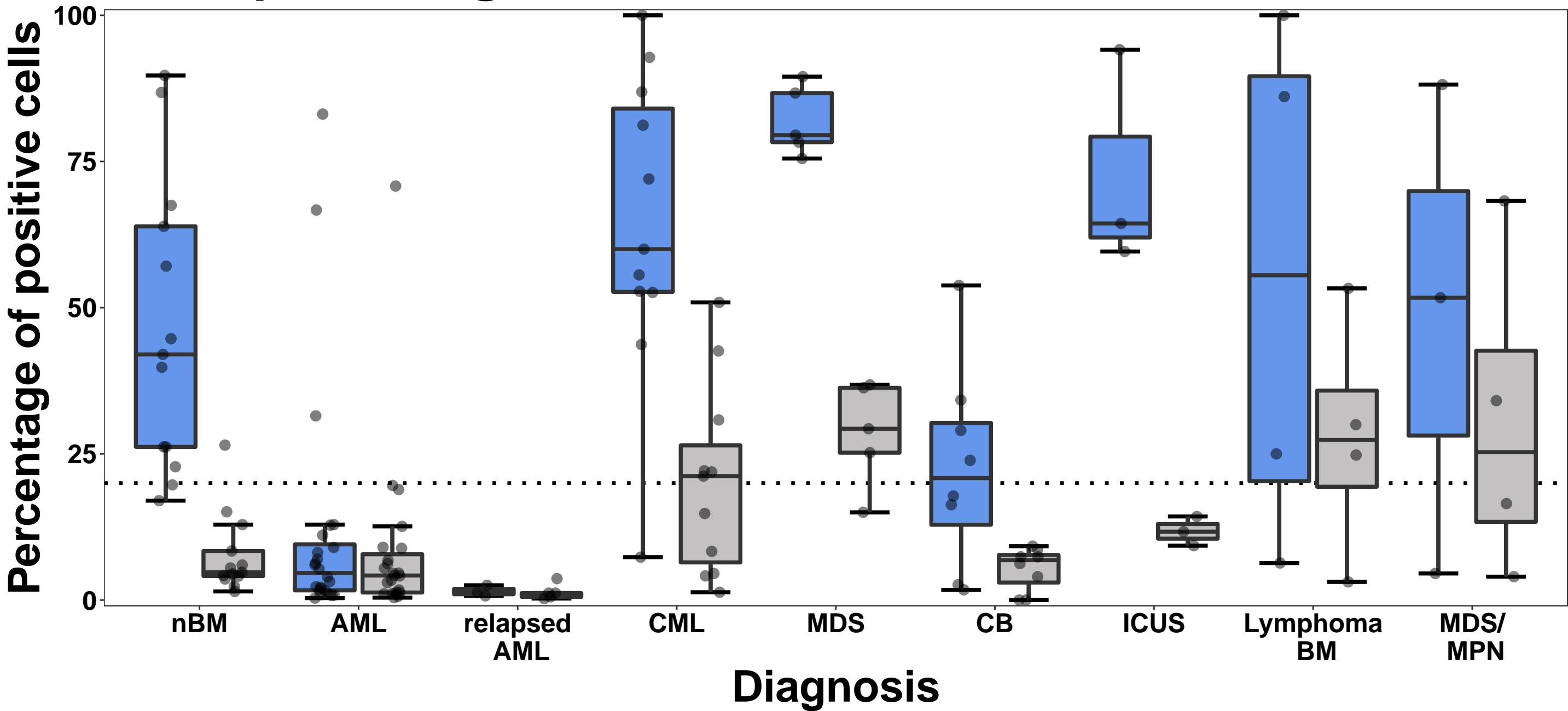
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD90 staining index



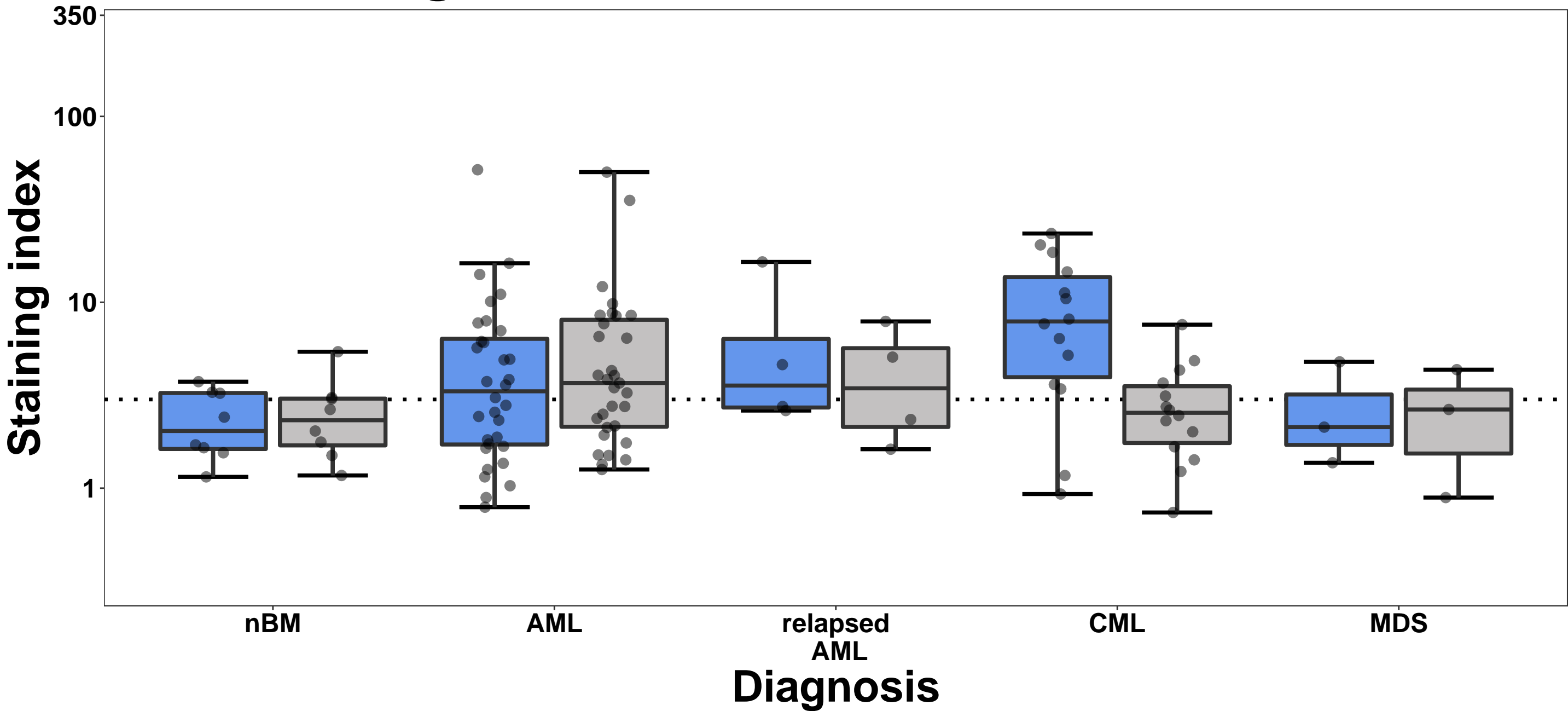
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD90 percentage



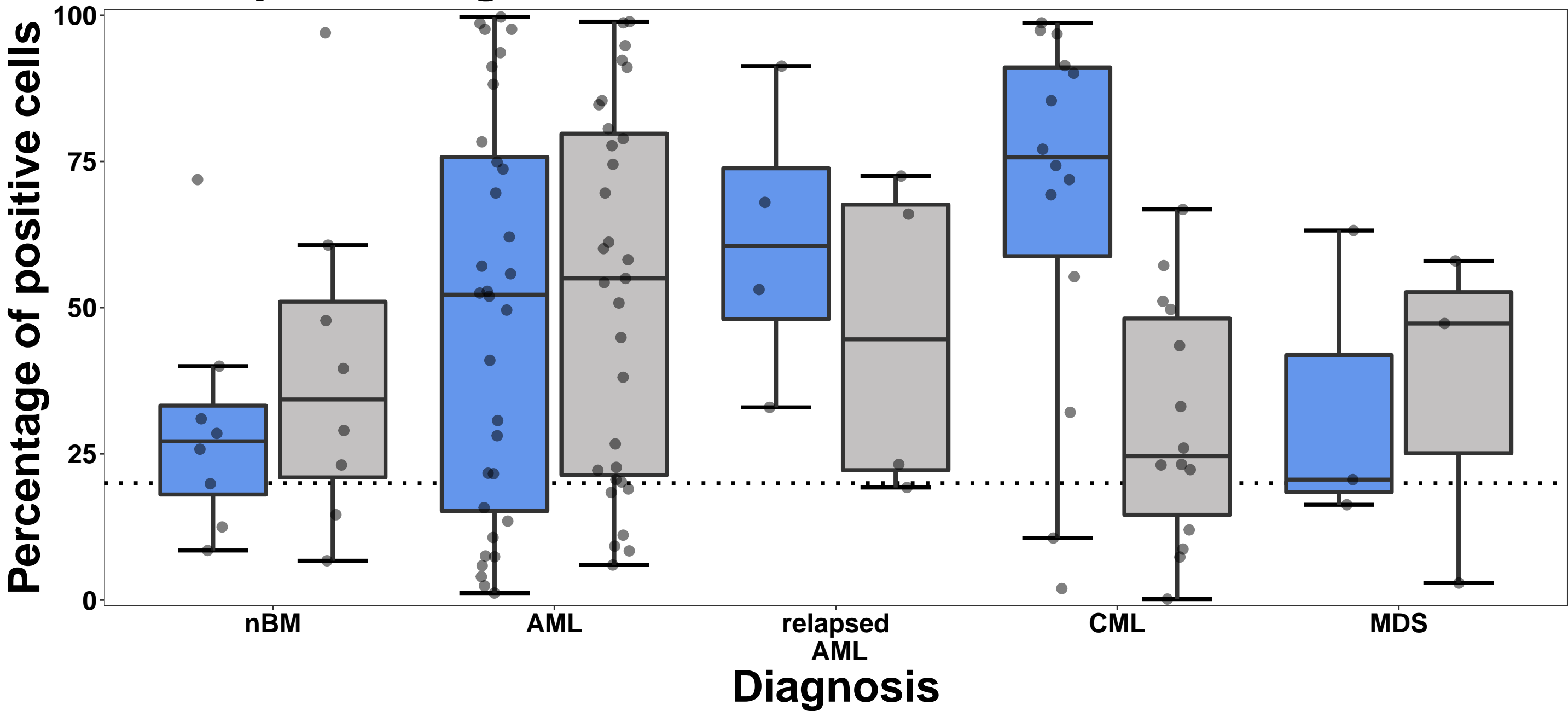
Cell fraction  CD34+/CD38-  CD34+/CD38+

CD93 staining index





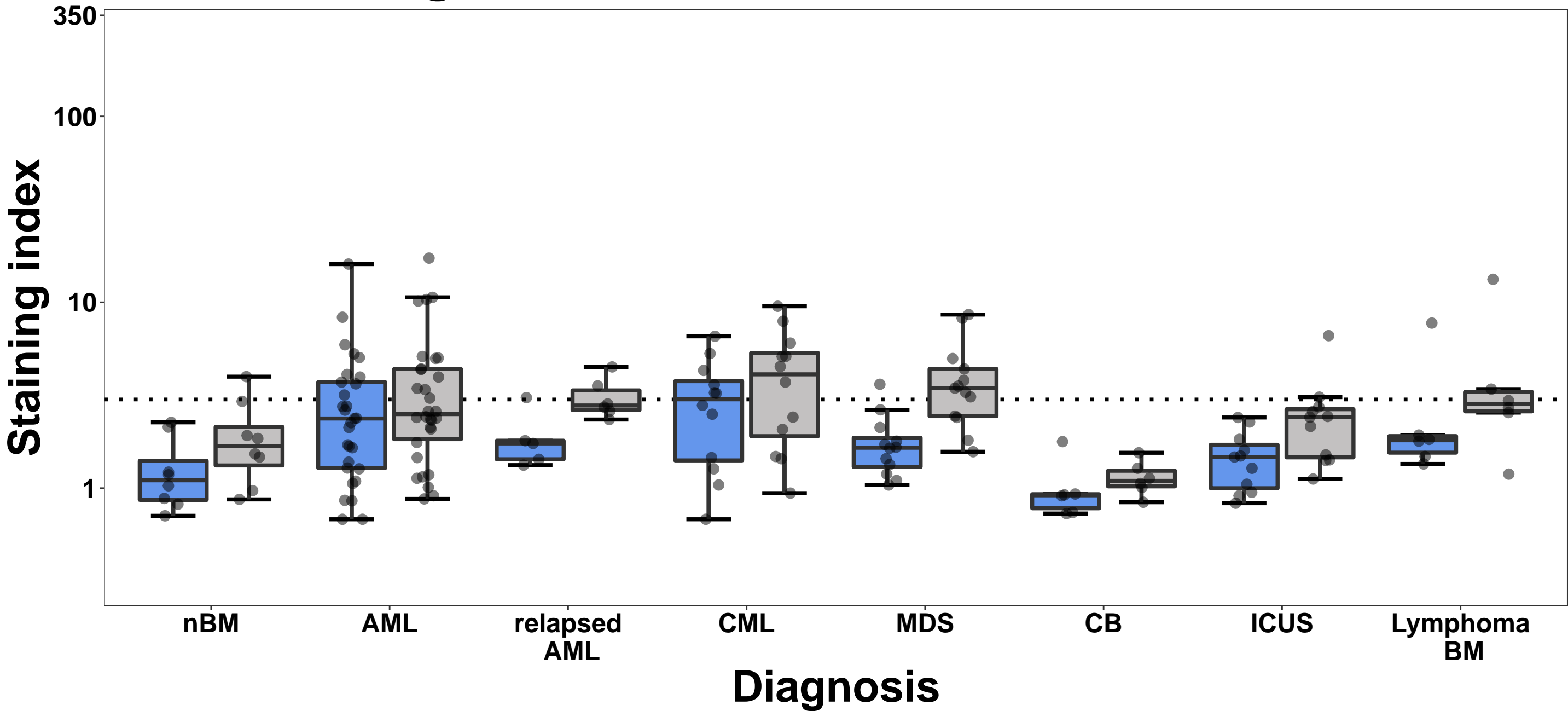
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD93 percentage



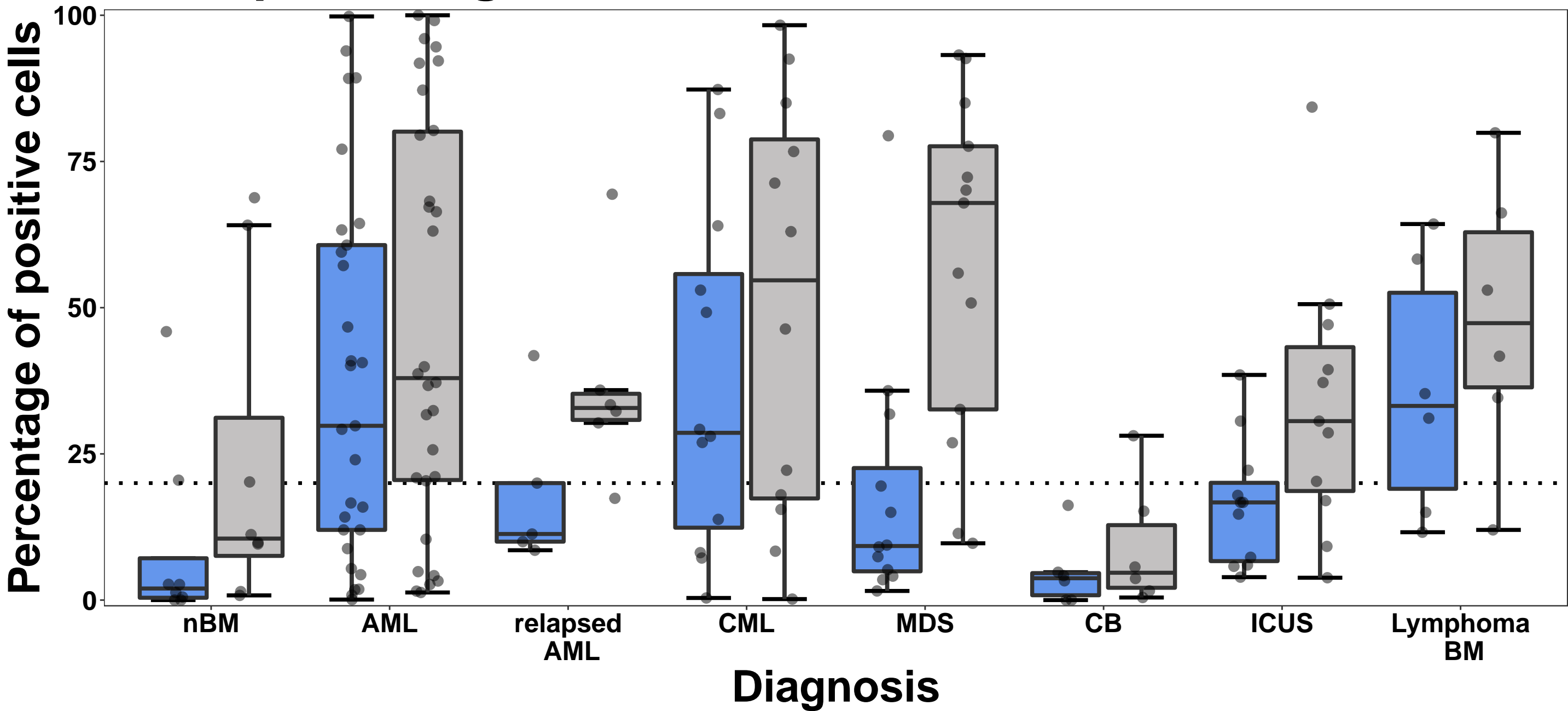
CD95 staining index

Cell fraction  CD34+/CD38-  CD34+/CD38+





Cell fraction  CD34+/CD38-  CD34+/CD38+

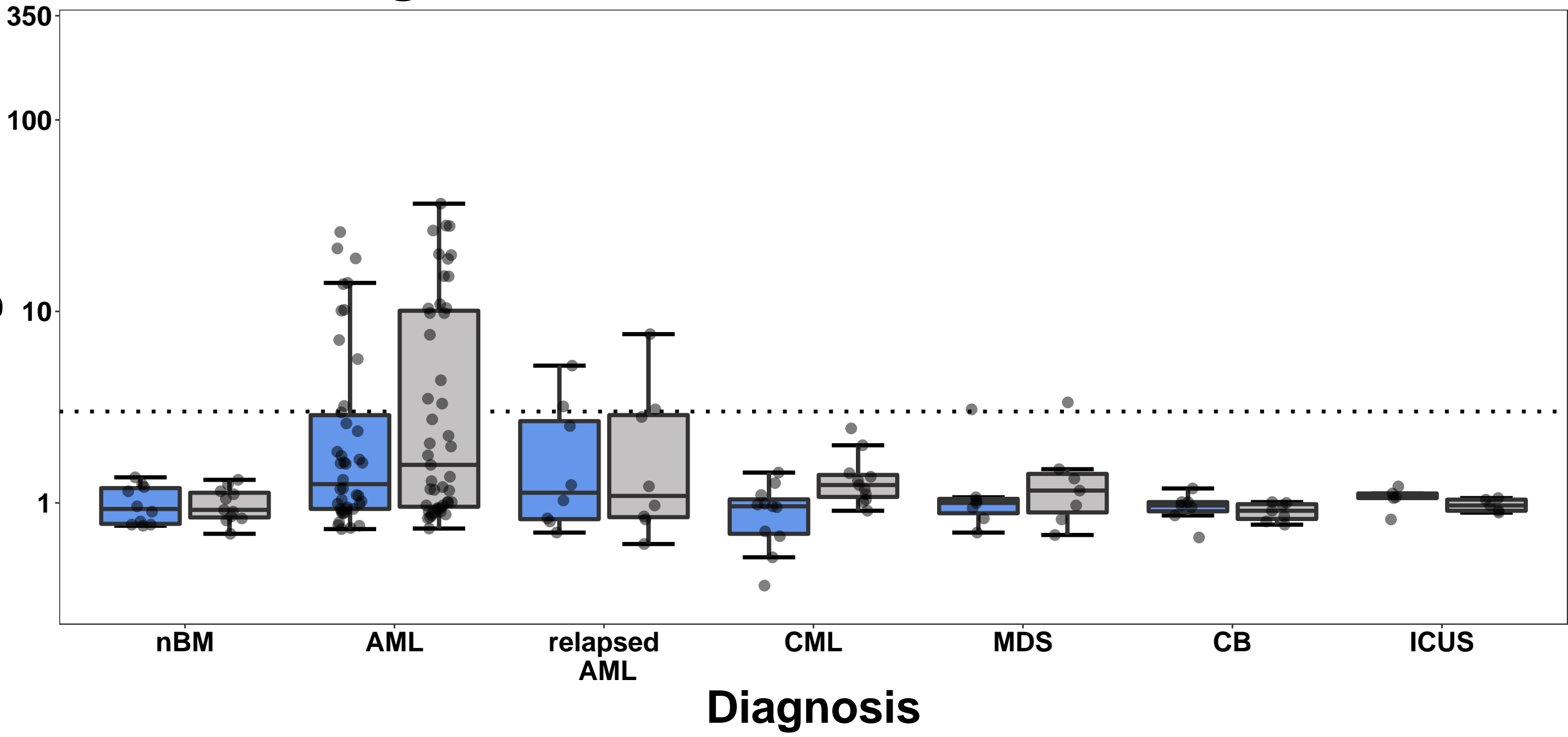
CD95 percentage





CD96 staining index

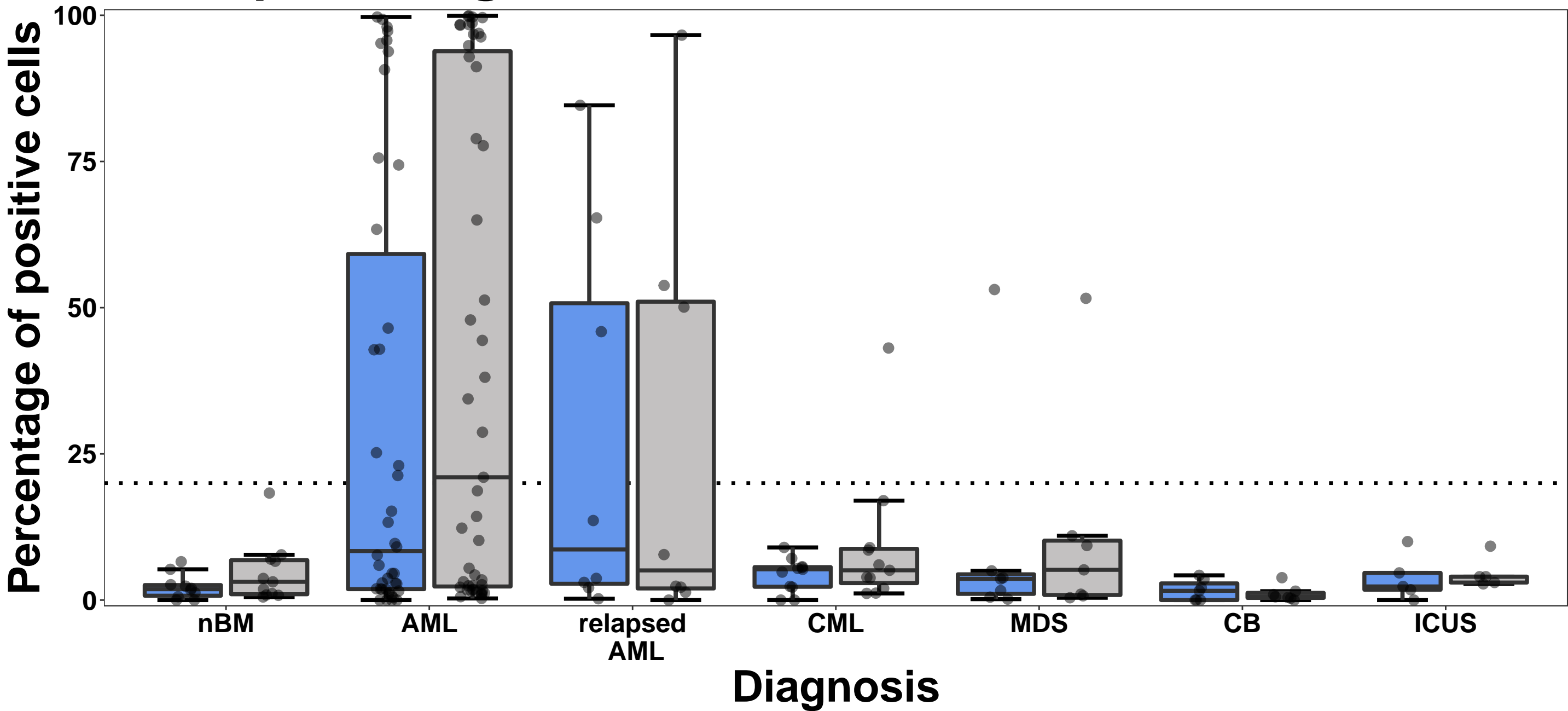
Cell fraction  CD34+/CD38-  CD34+/CD38+

Staining index





Cell fraction  CD34+/CD38-  CD34+/CD38+

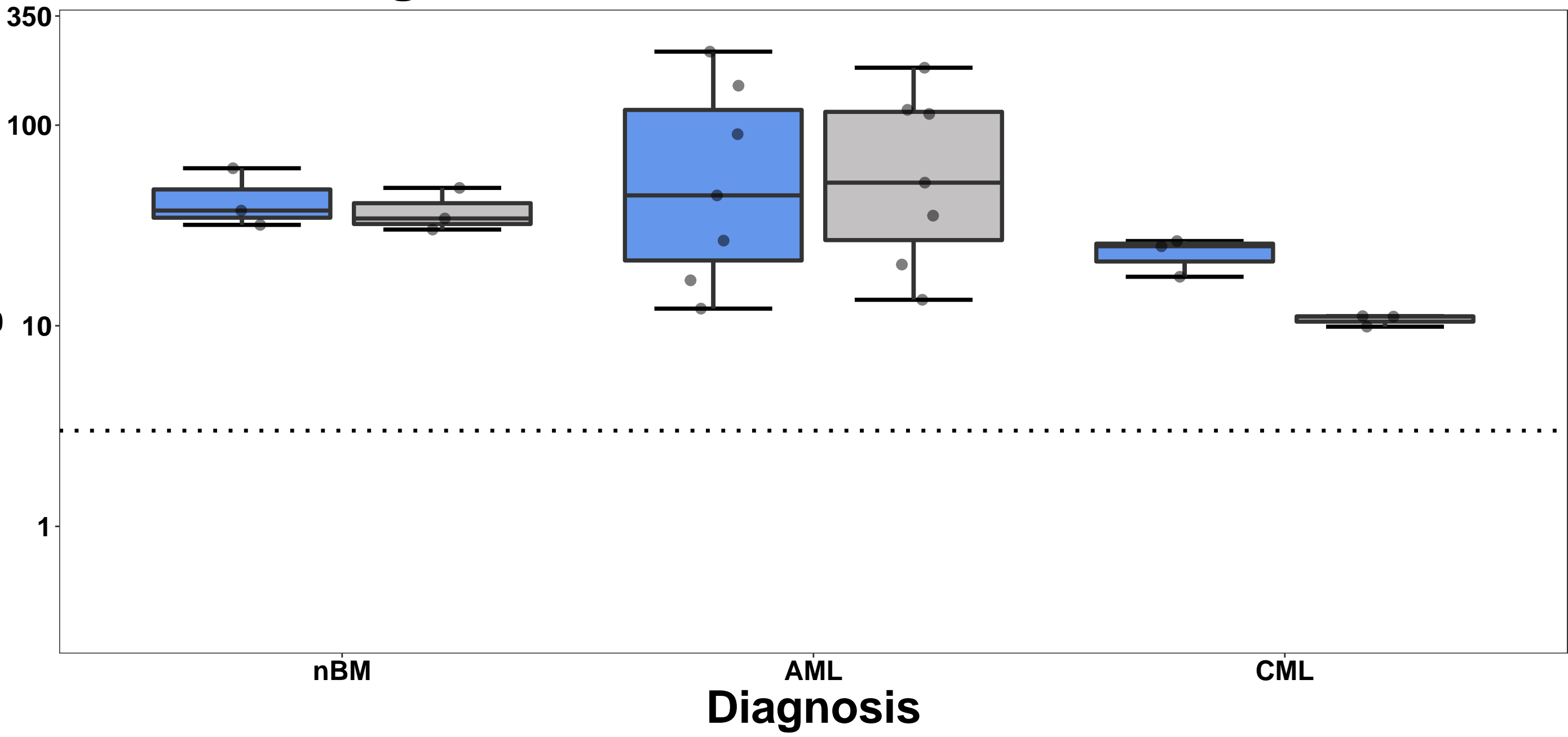
CD96 percentage

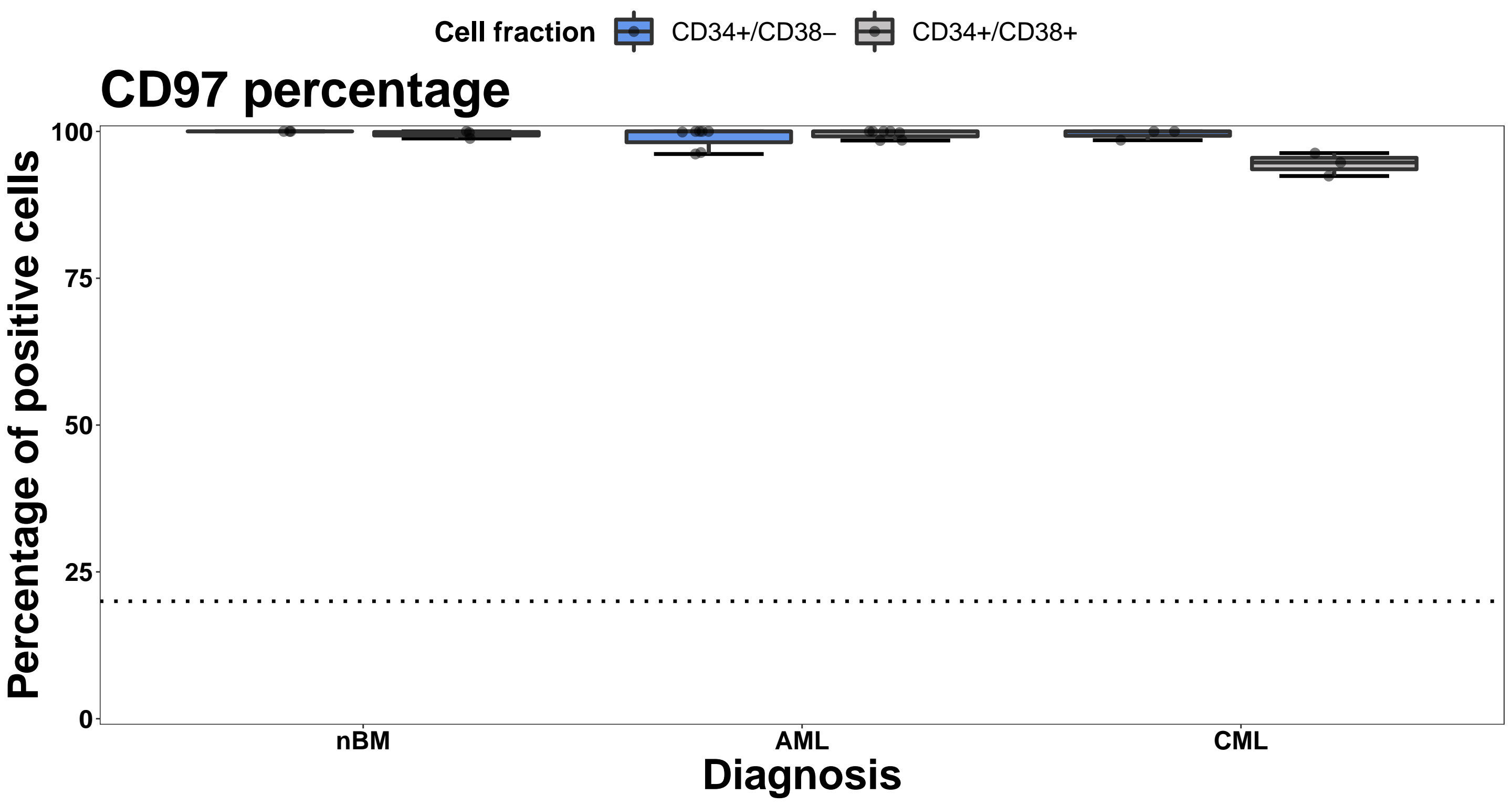


CD97 staining index



Cell fraction  CD34+/CD38-  CD34+/CD38+

Staining index

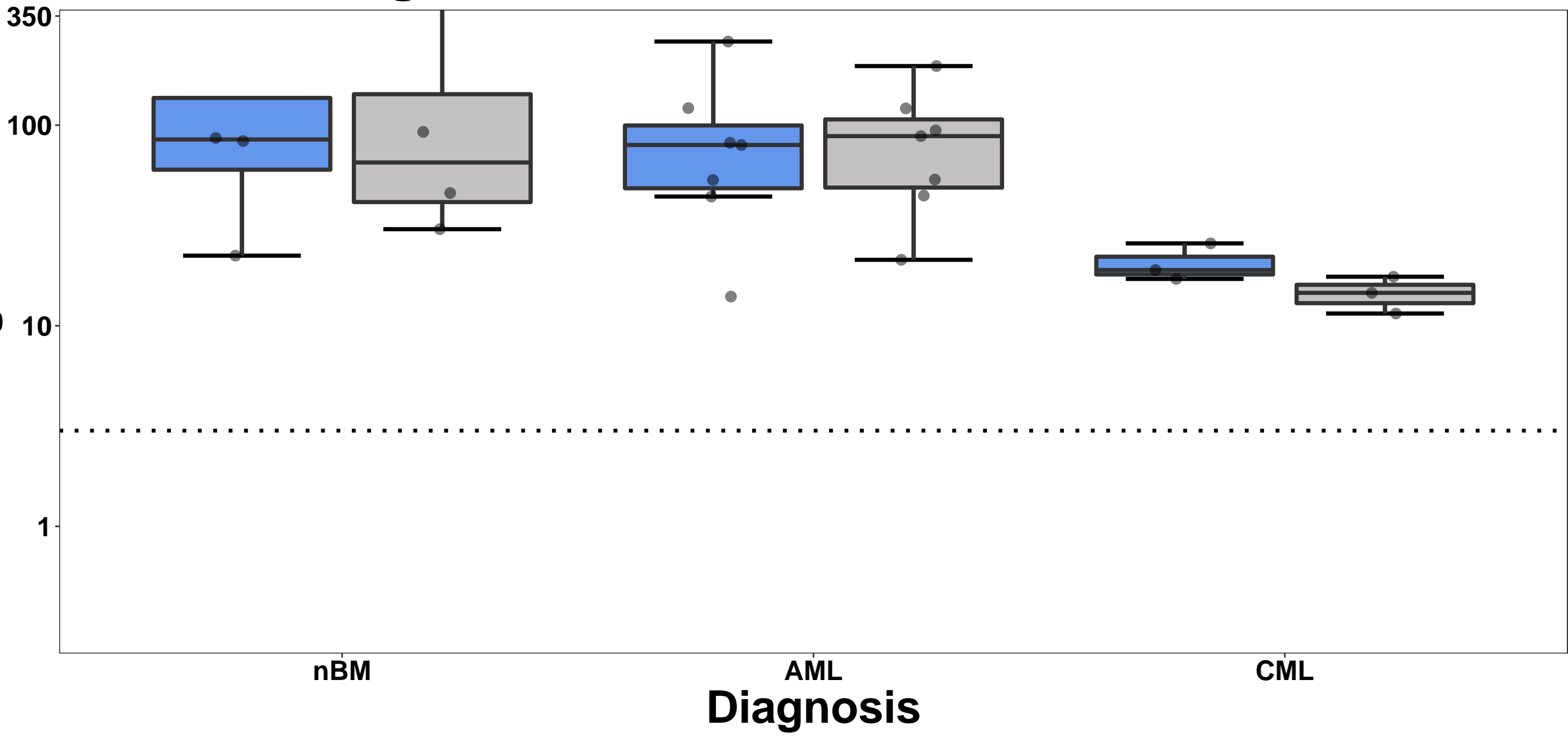


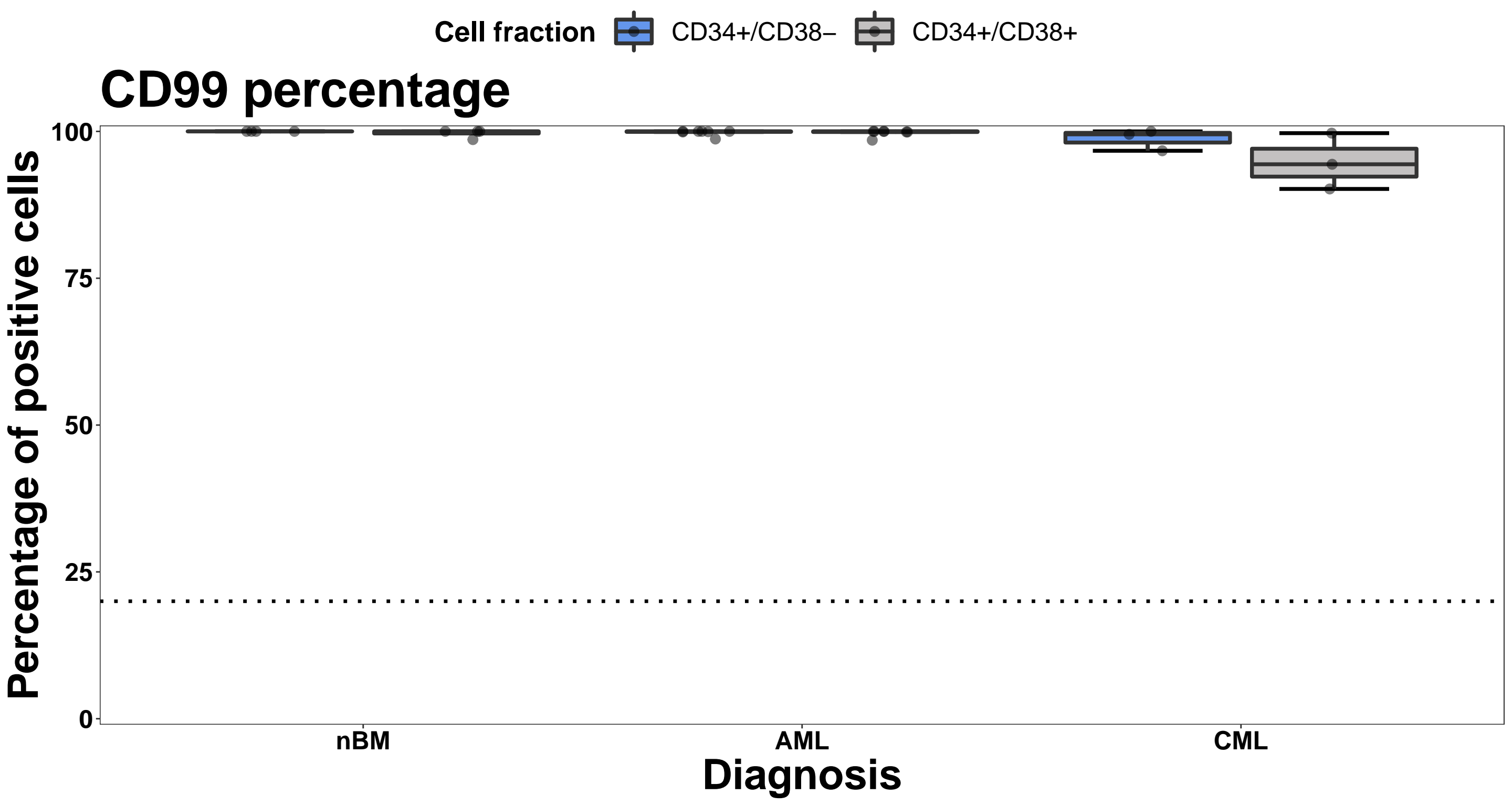




CD99 staining index

Cell fraction  CD34+/CD38-  CD34+/CD38+

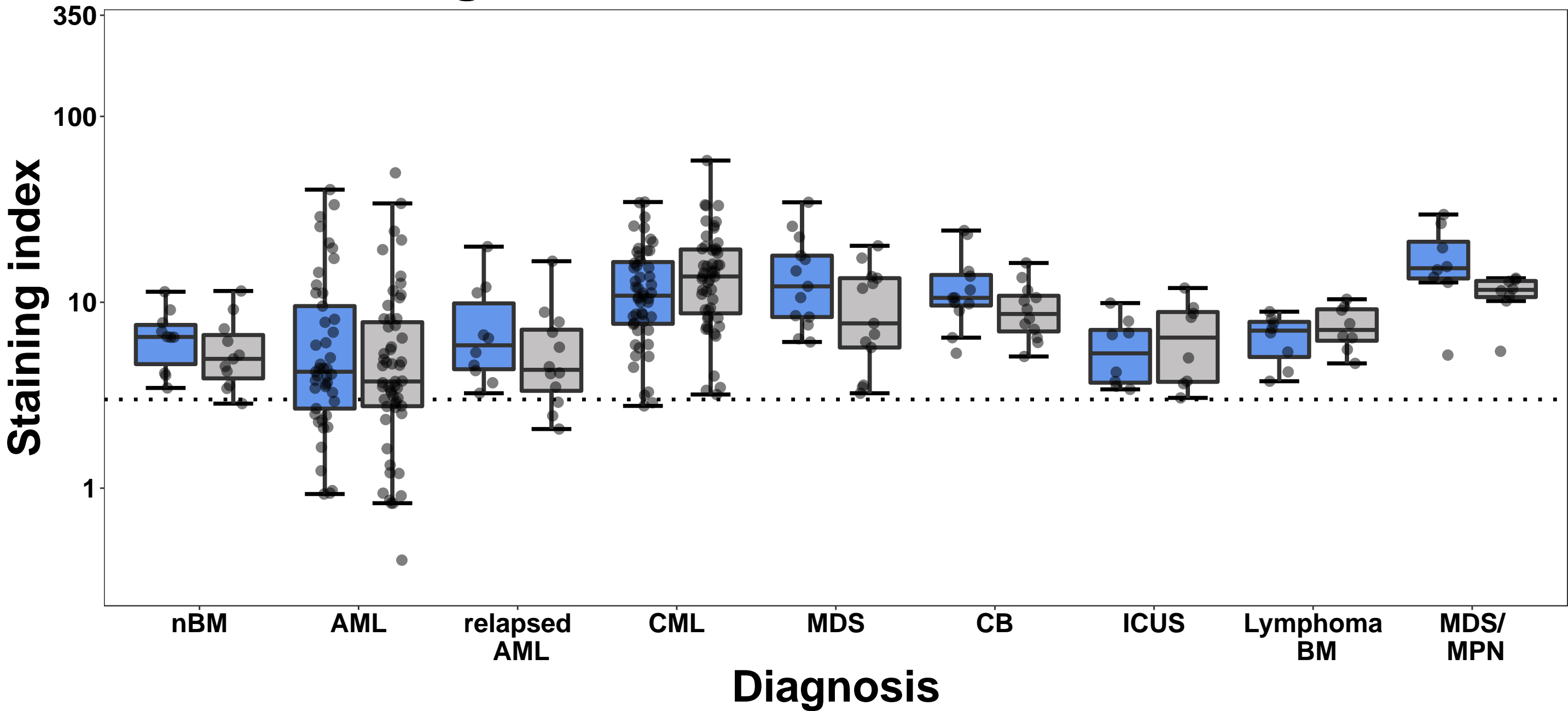
Staining index







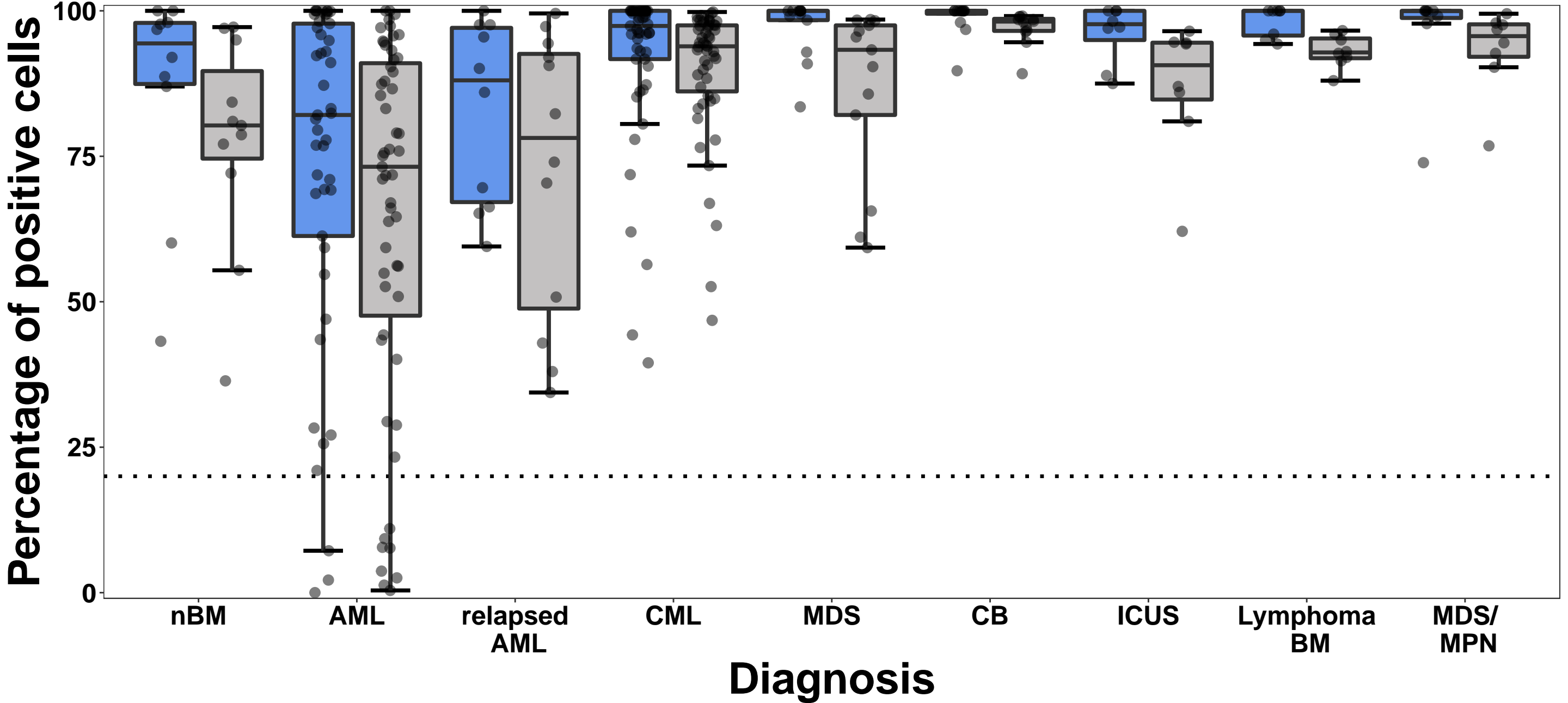
Cell fraction  CD34+/CD38-  CD34+/CD38+

CD105 staining index





Cell fraction  CD34+/CD38-  CD34+/CD38+

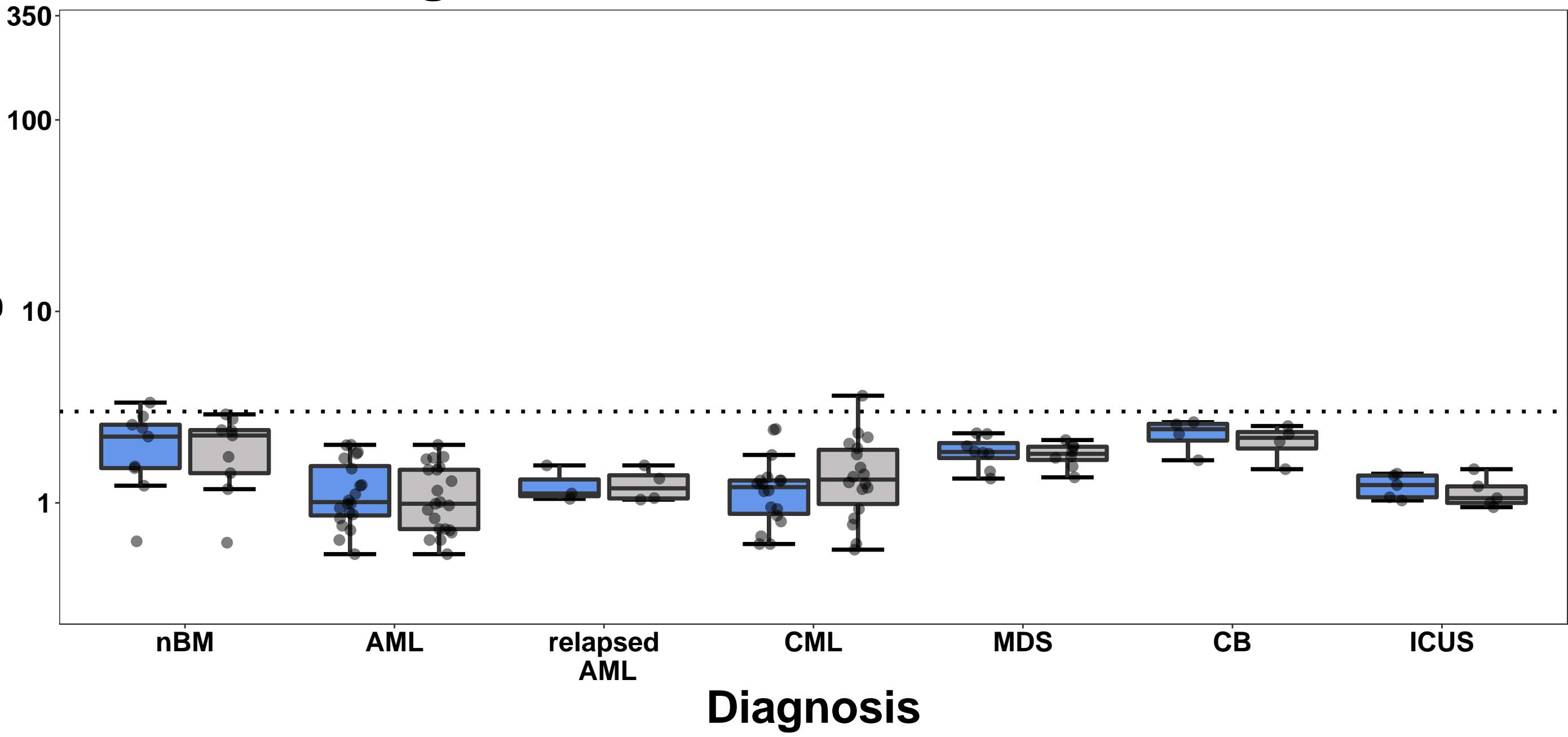
CD105 percentage





CD110 staining index

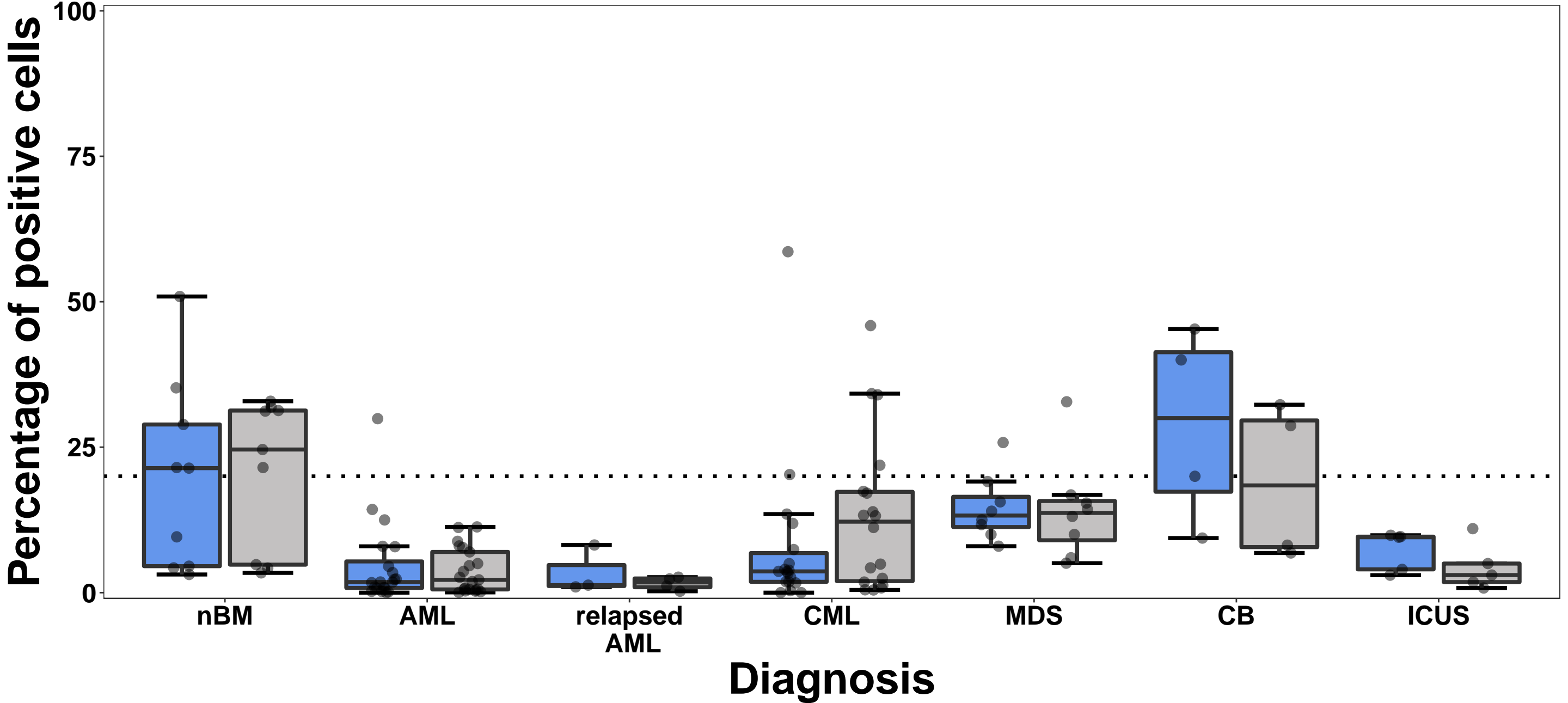
Cell fraction  CD34+/CD38-  CD34+/CD38+



Staining index



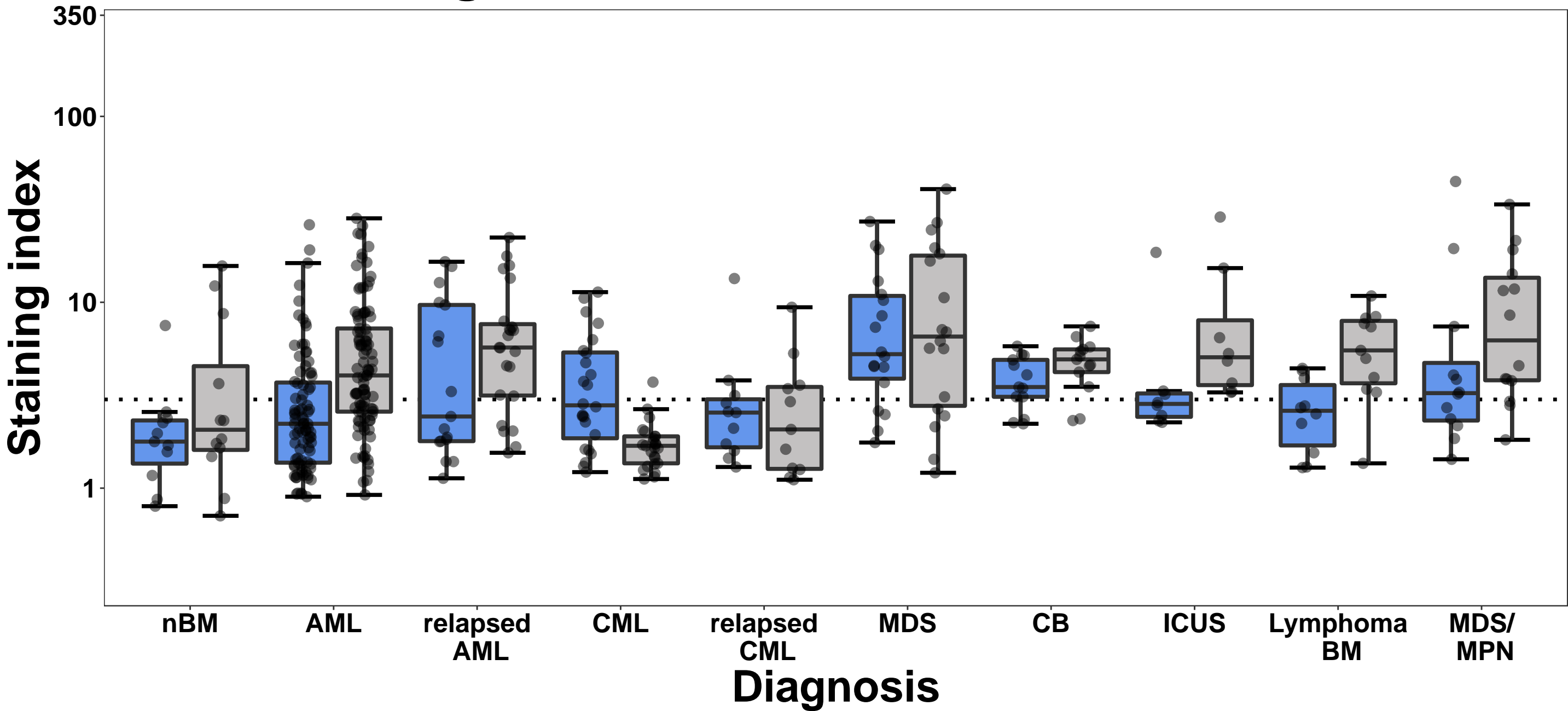
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD110 percentage



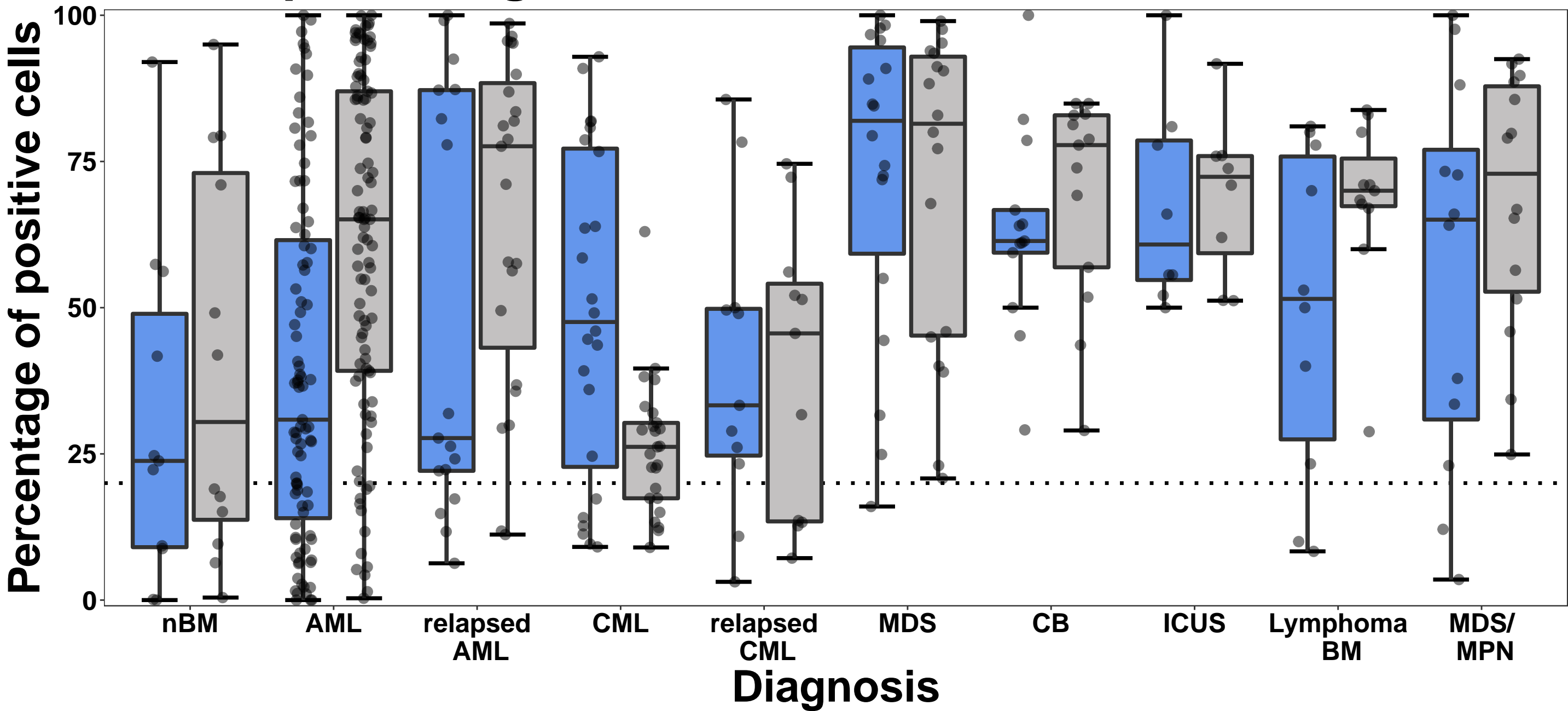
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD114 staining index



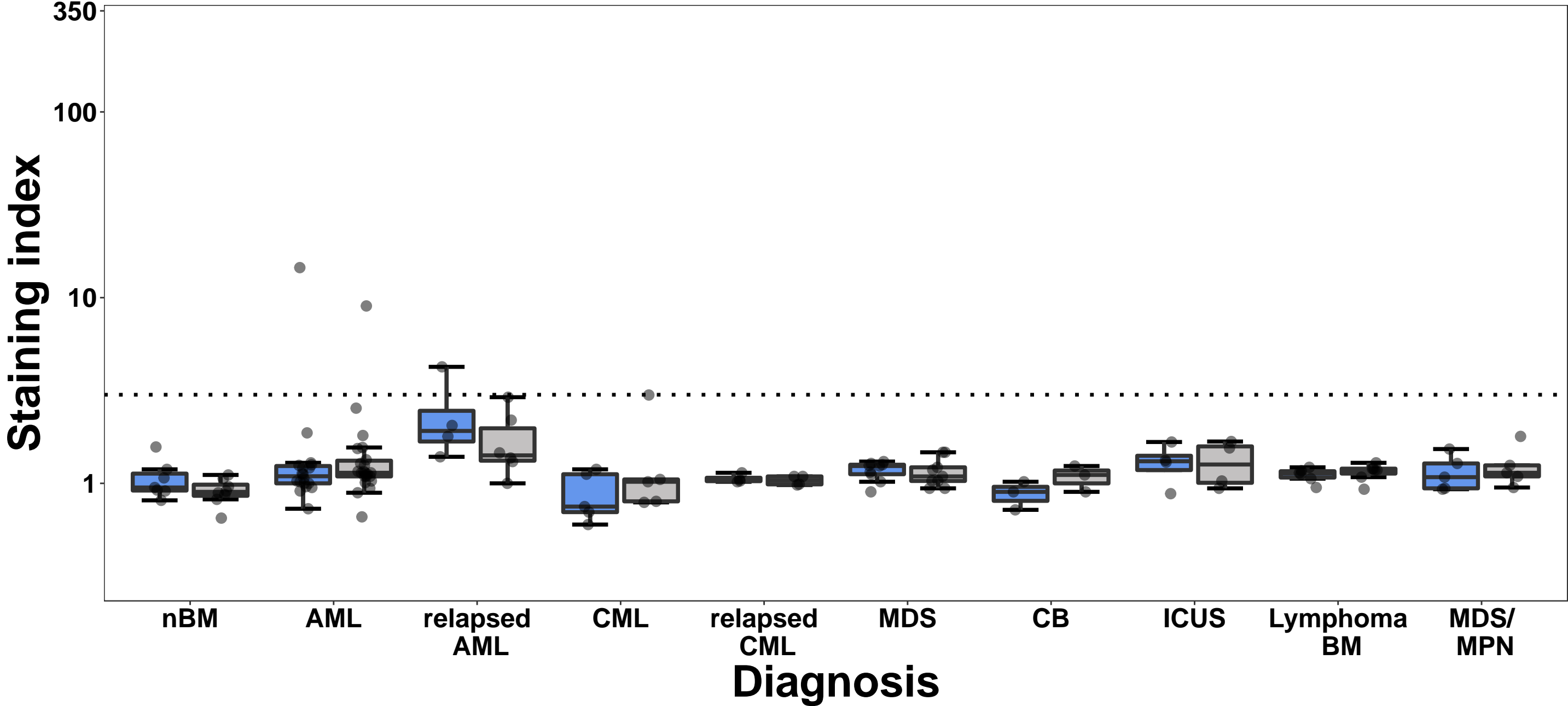
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD114 percentage



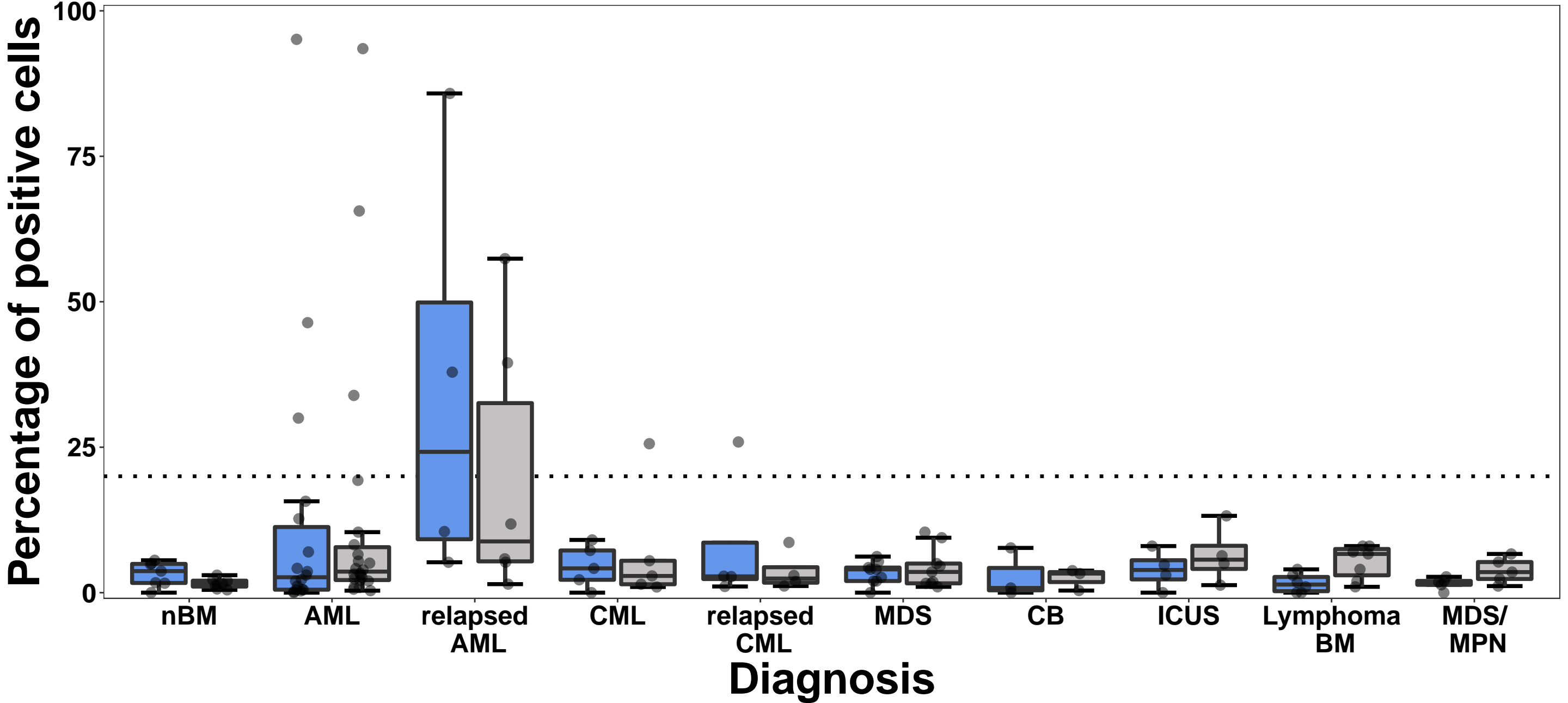
Cell fraction  CD34+/CD38-  CD34+/CD38+

CD115 staining index





Cell fraction  CD34+/CD38-  CD34+/CD38+

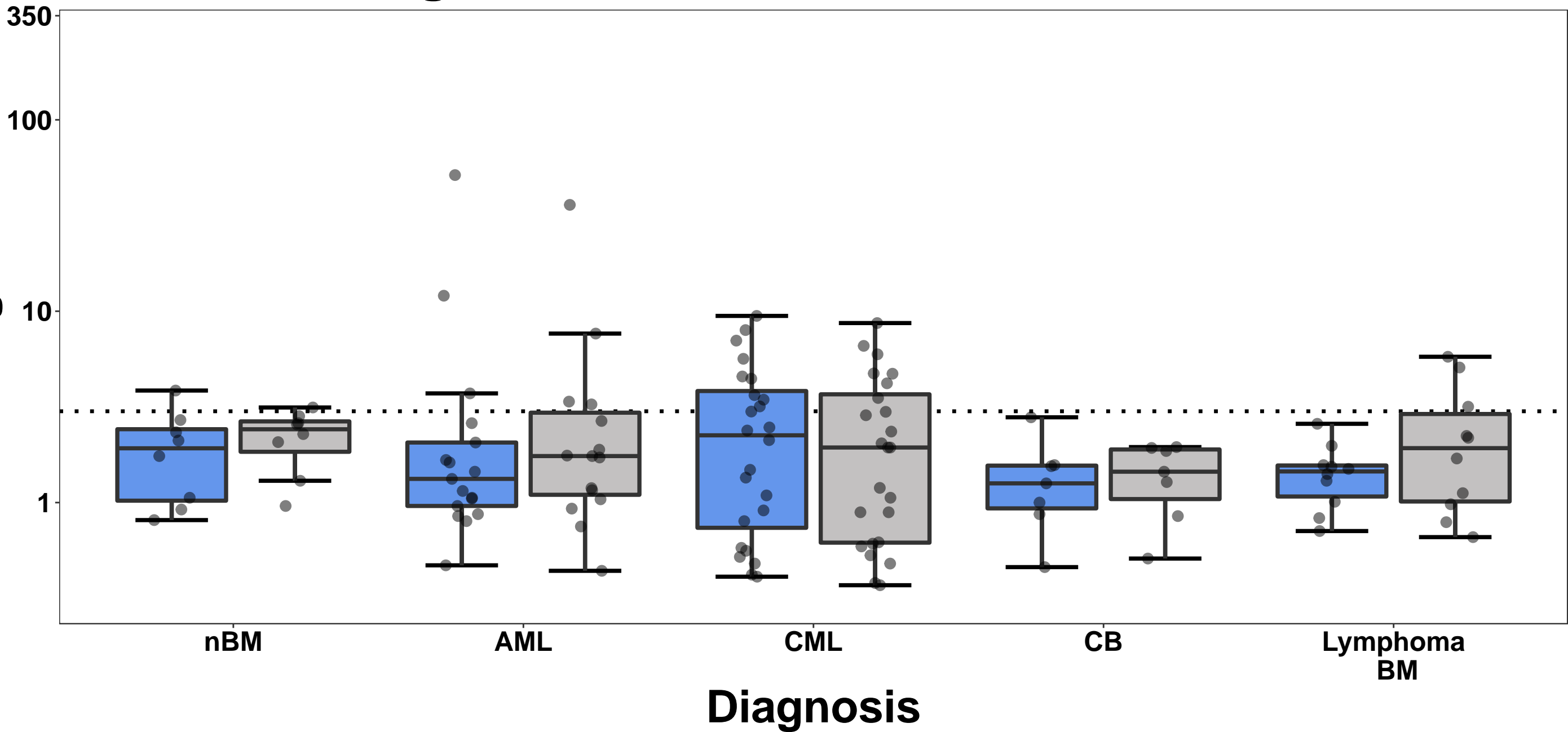
CD115 percentage





CD116 staining index

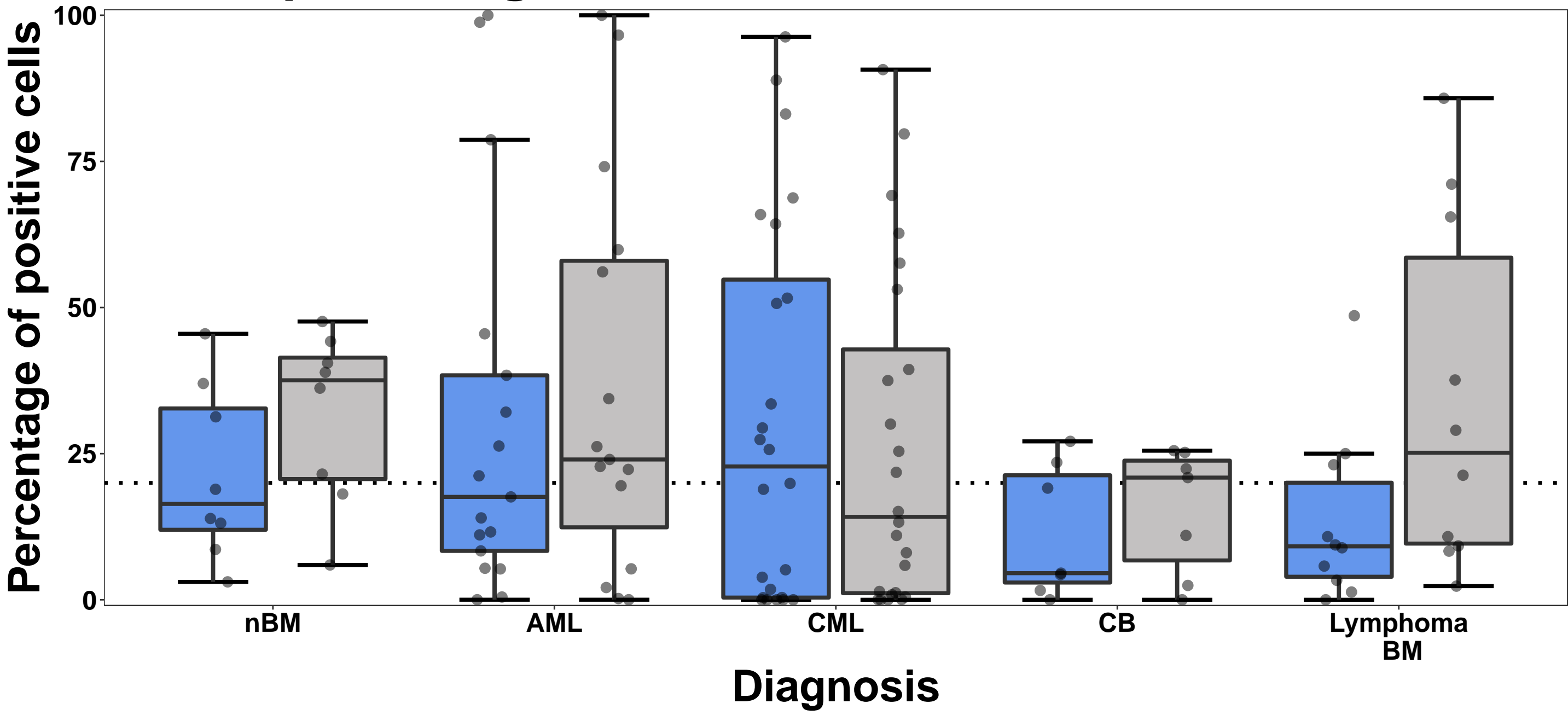
Cell fraction  CD34+/CD38-  CD34+/CD38+



Staining index



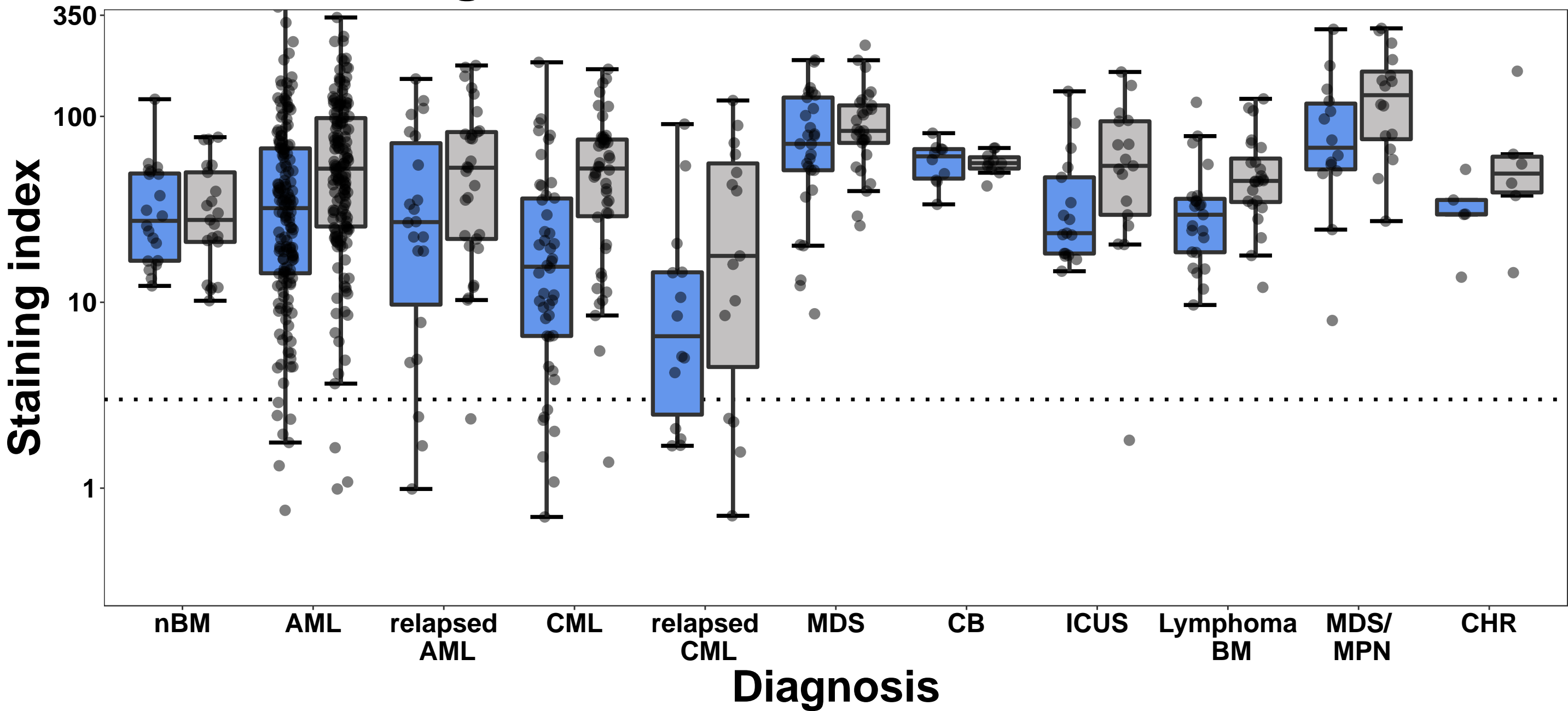
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD116 percentage



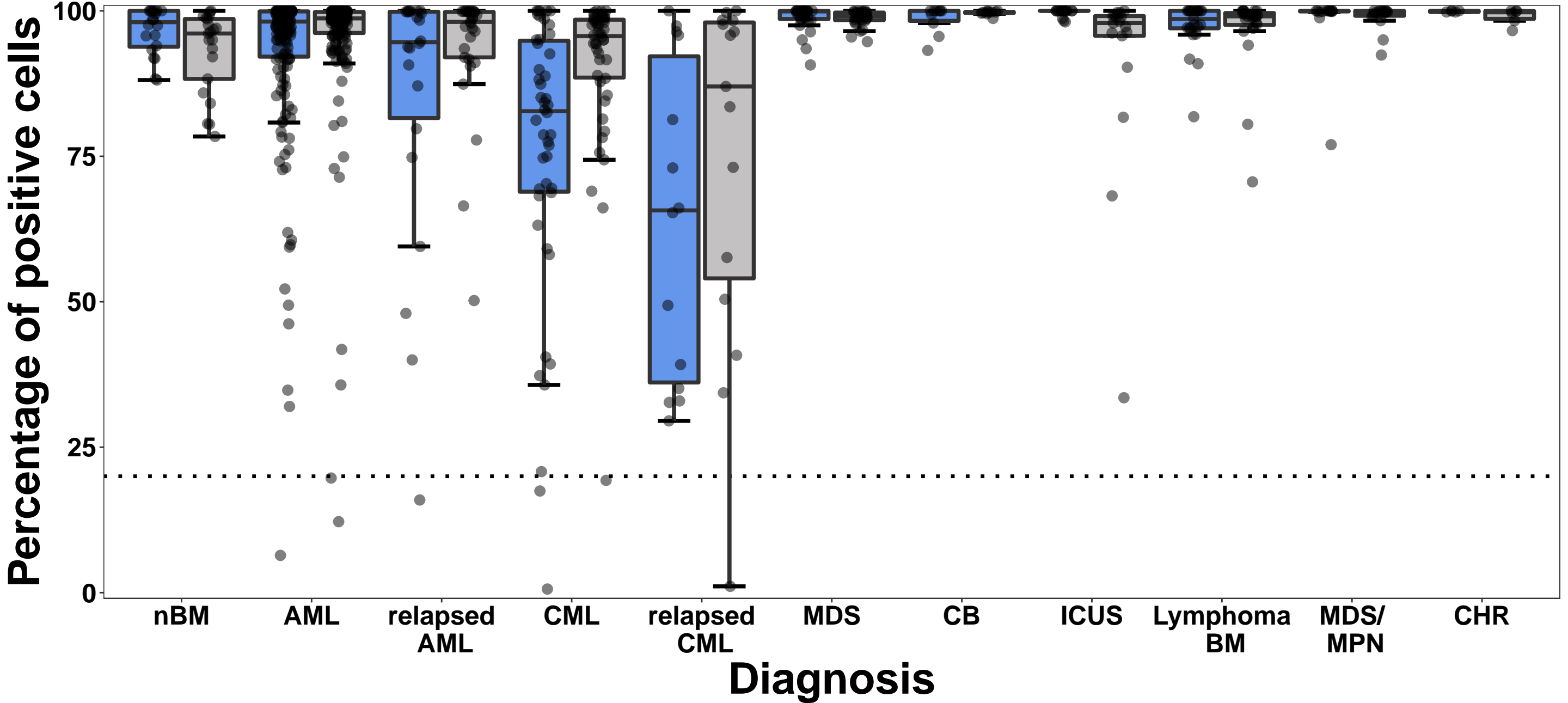
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD117 staining index



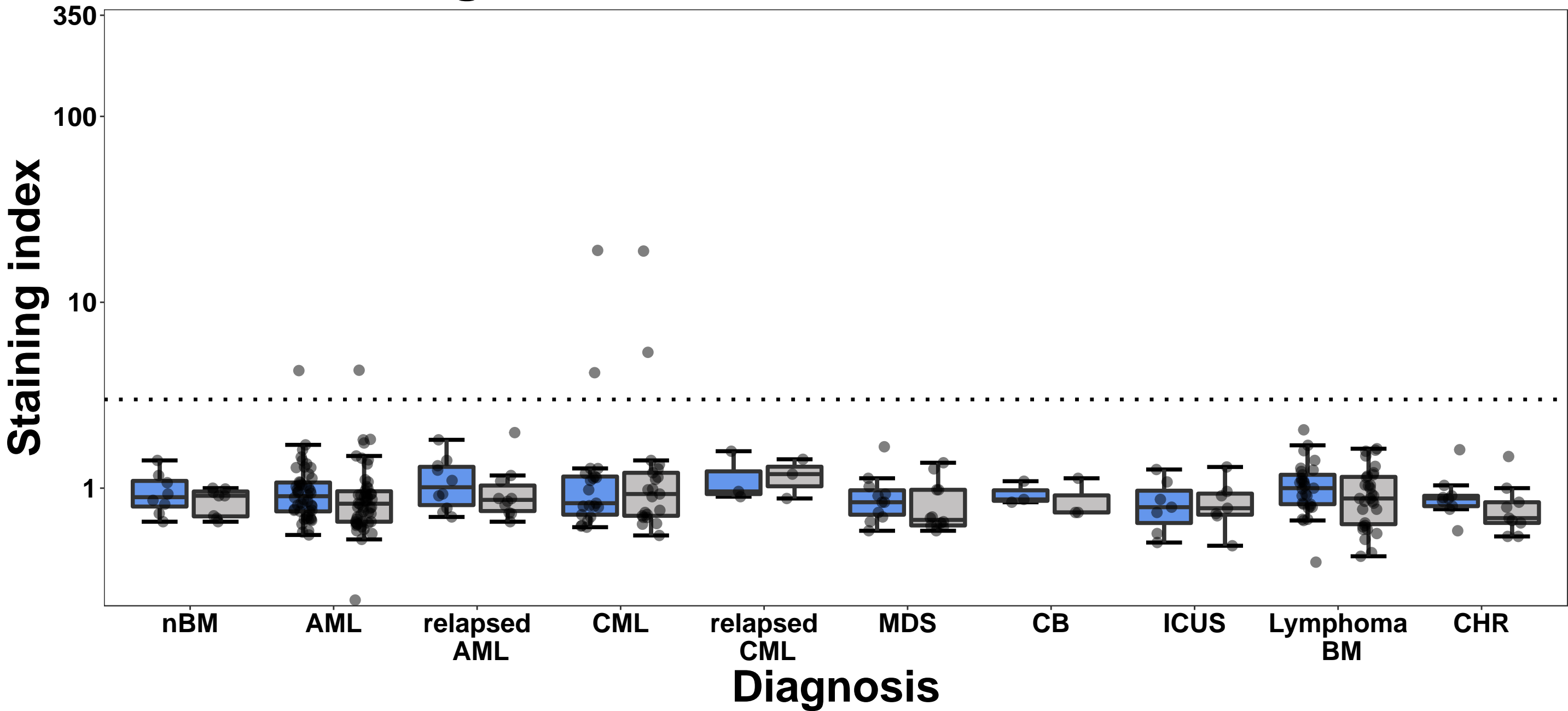
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD117 percentage



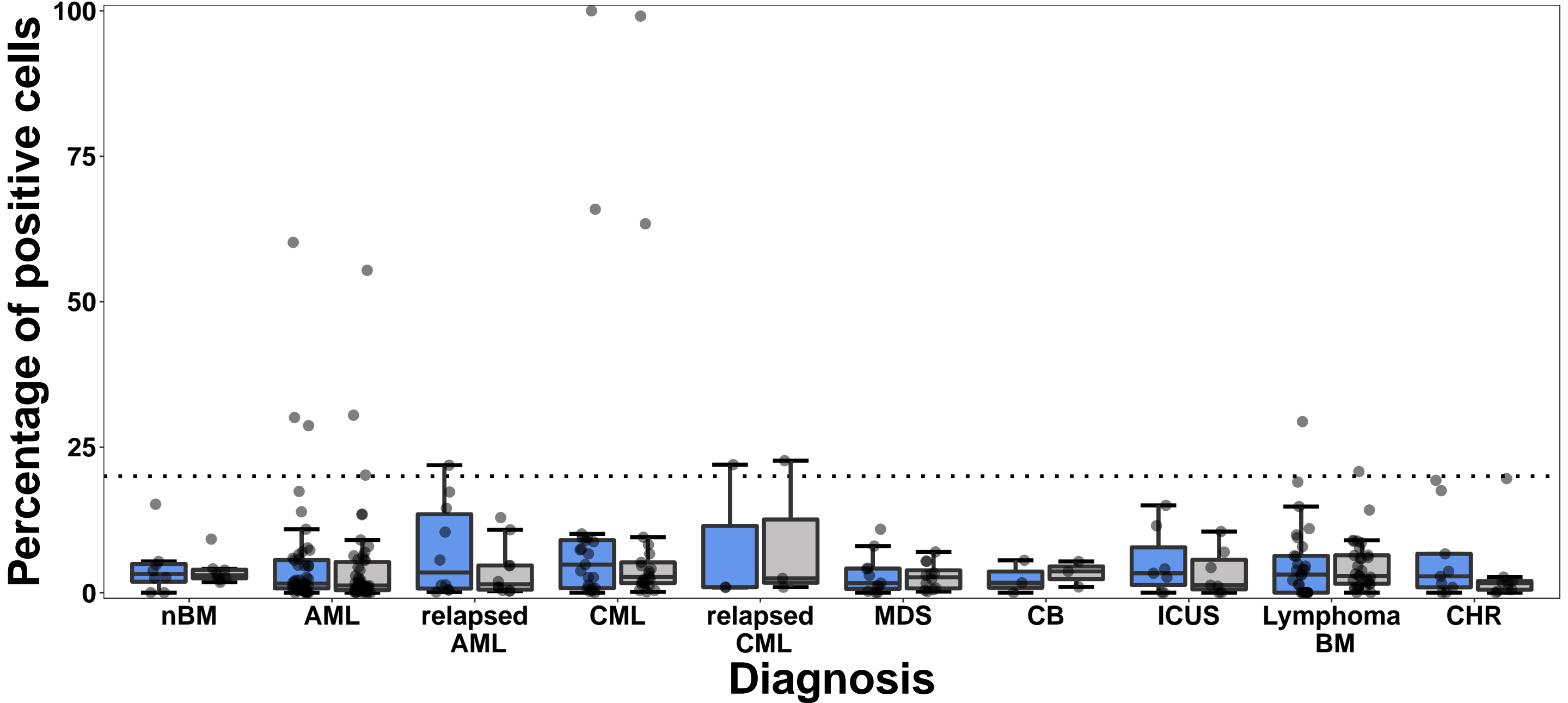
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD122 staining index



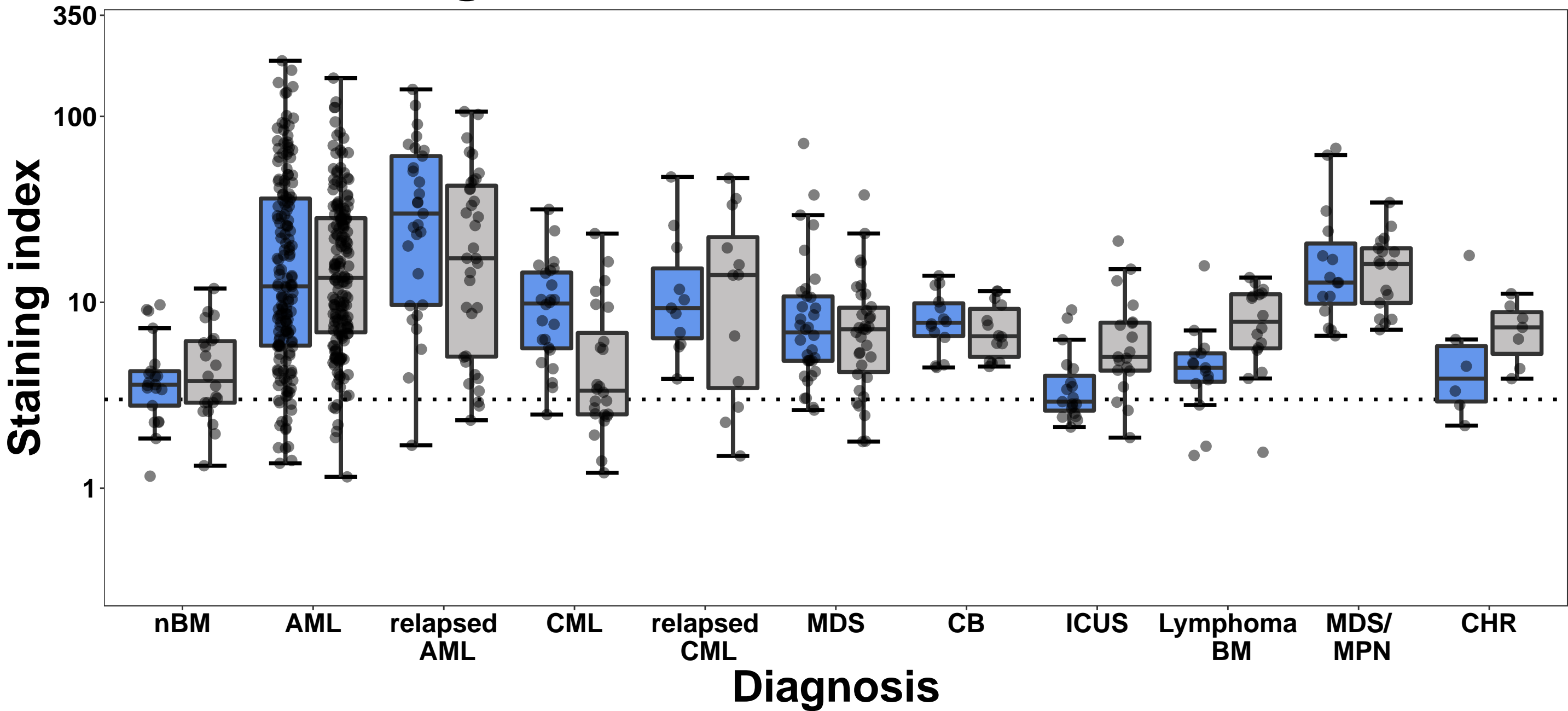
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD122 percentage



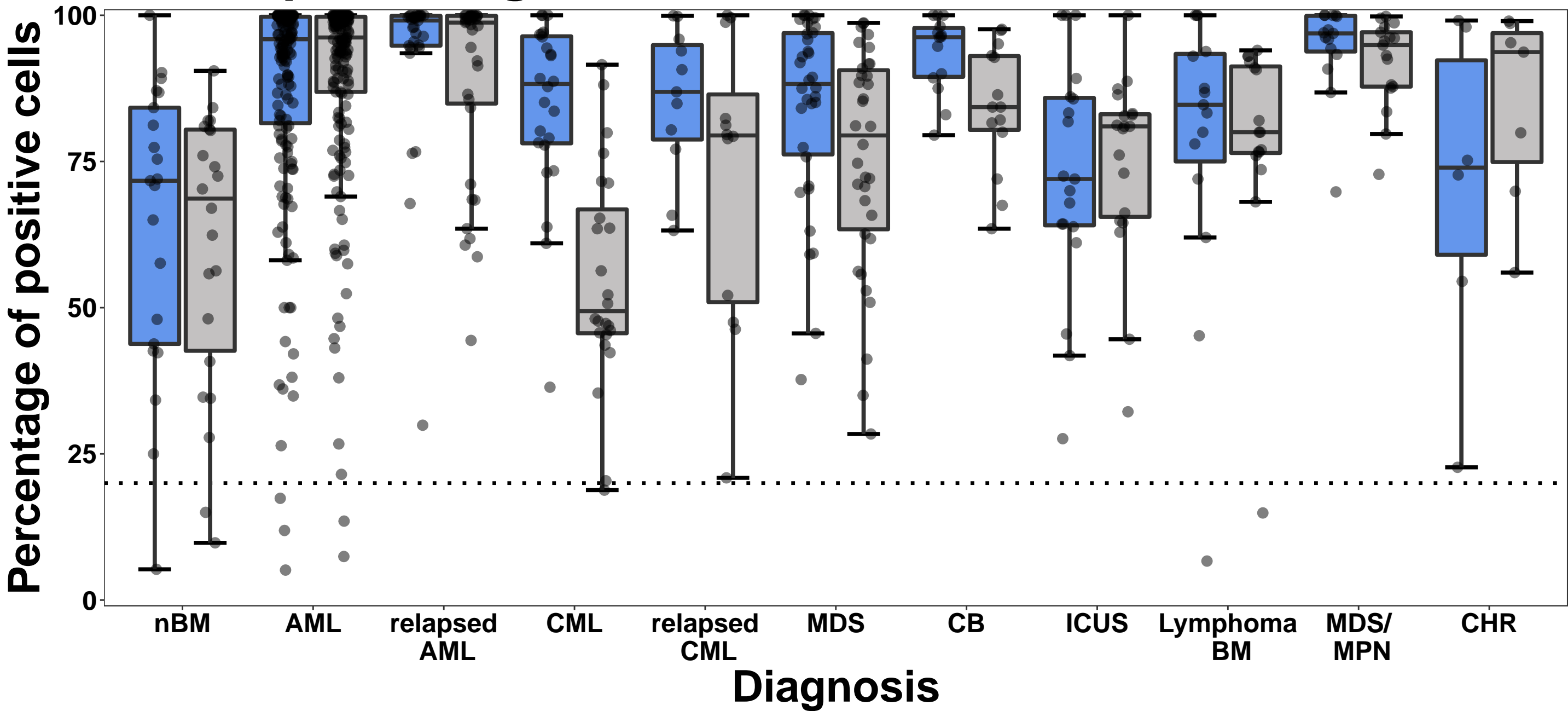
Cell fraction  CD34+/CD38-  CD34+/CD38+

CD123 staining index





Cell fraction  CD34+/CD38-  CD34+/CD38+

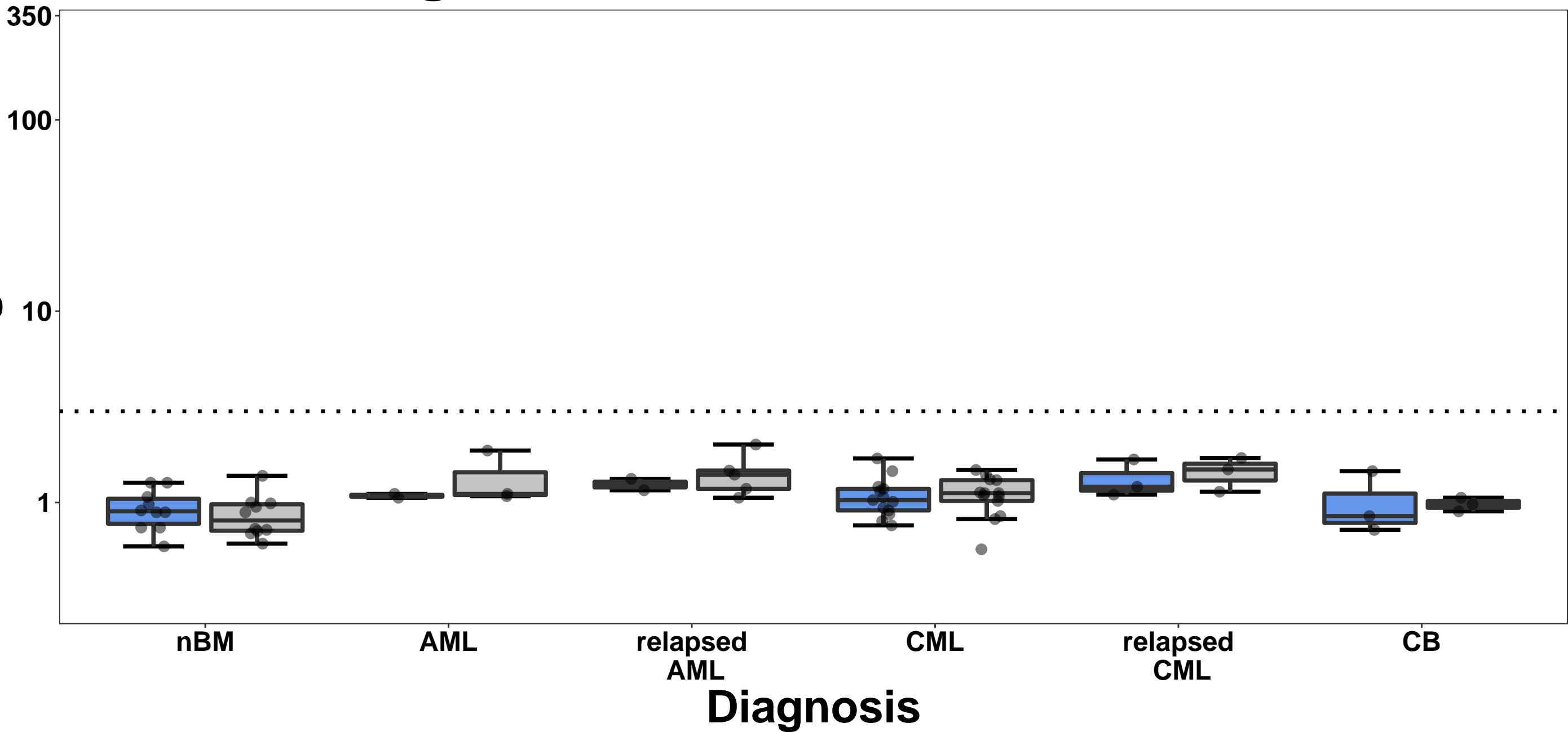
CD123 percentage





CD129 staining index

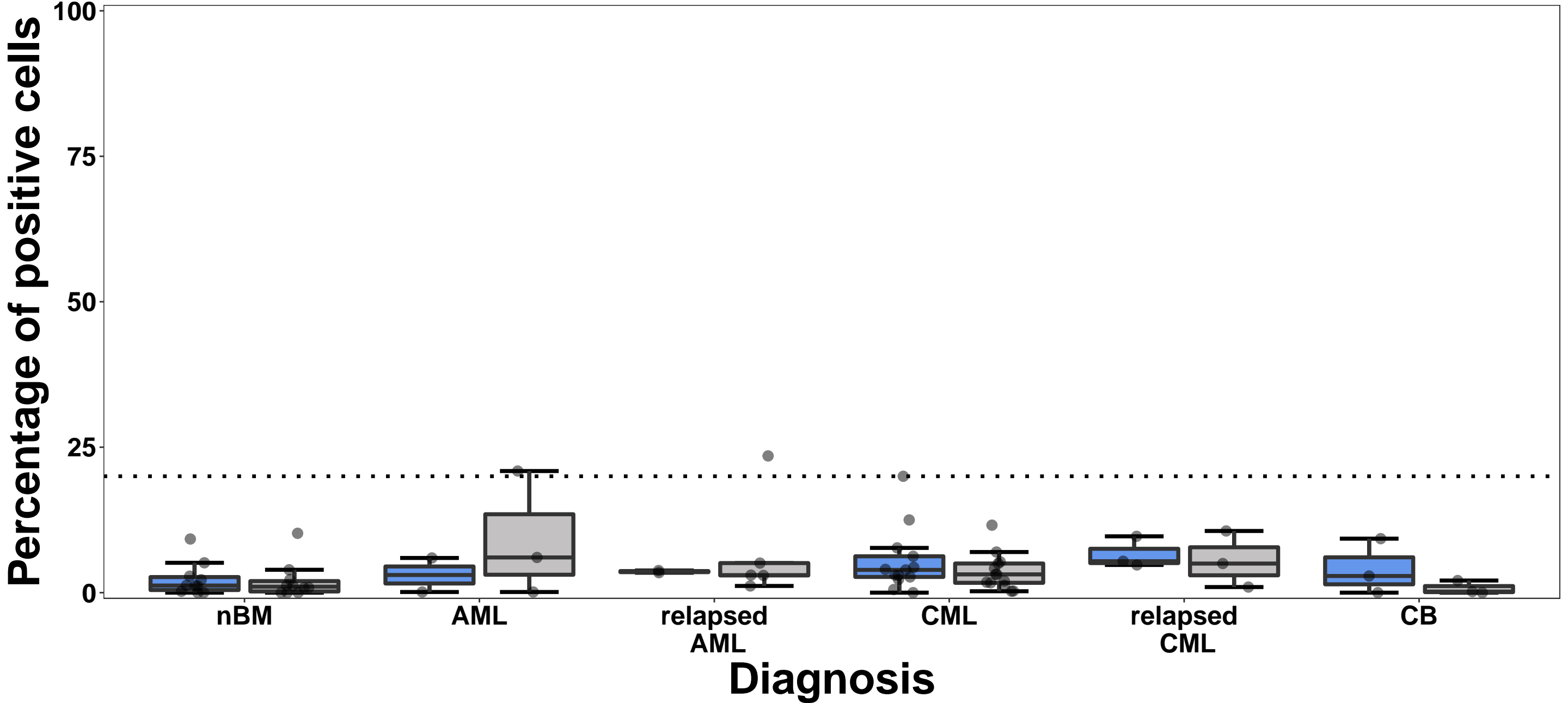
Cell fraction  CD34+/CD38-  CD34+/CD38+

Staining index





Cell fraction  CD34+/CD38-  CD34+/CD38+

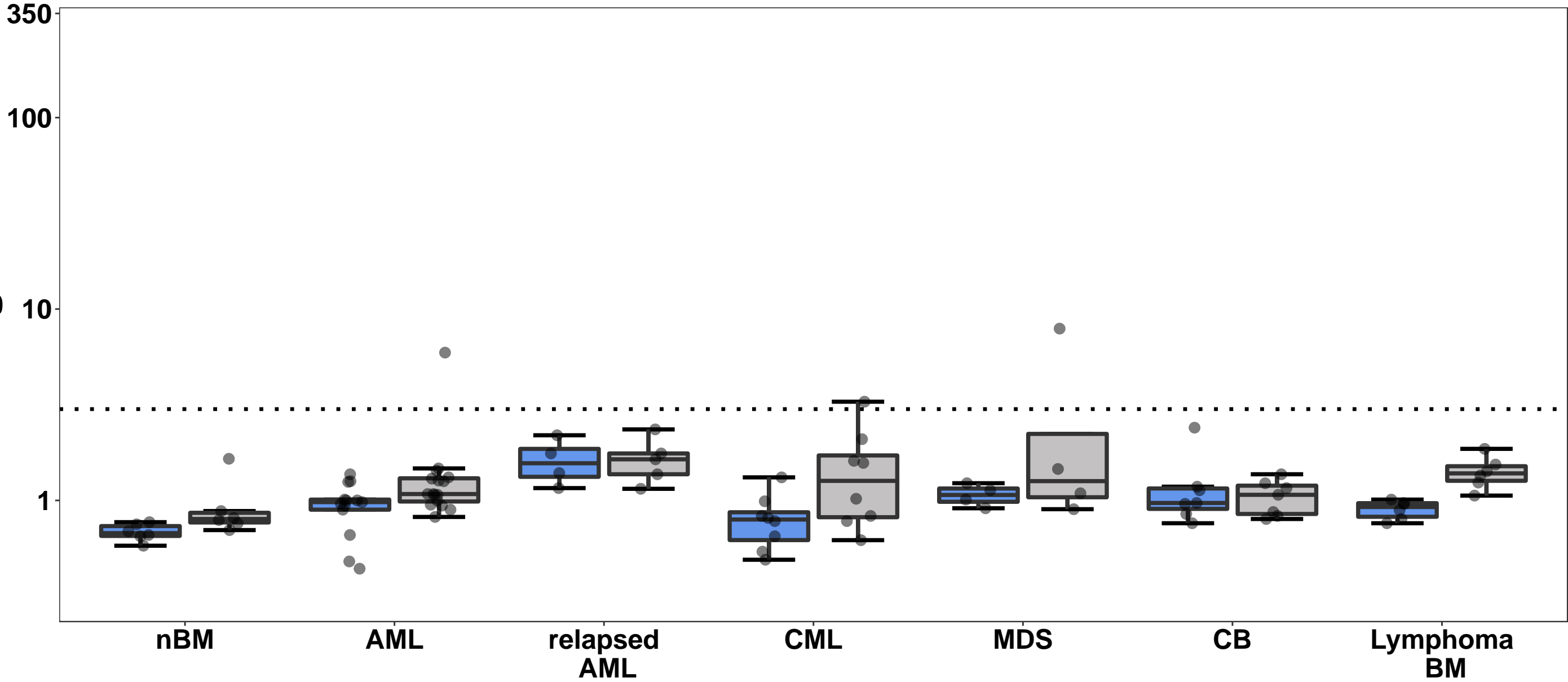
CD129 percentage





CD131 staining index

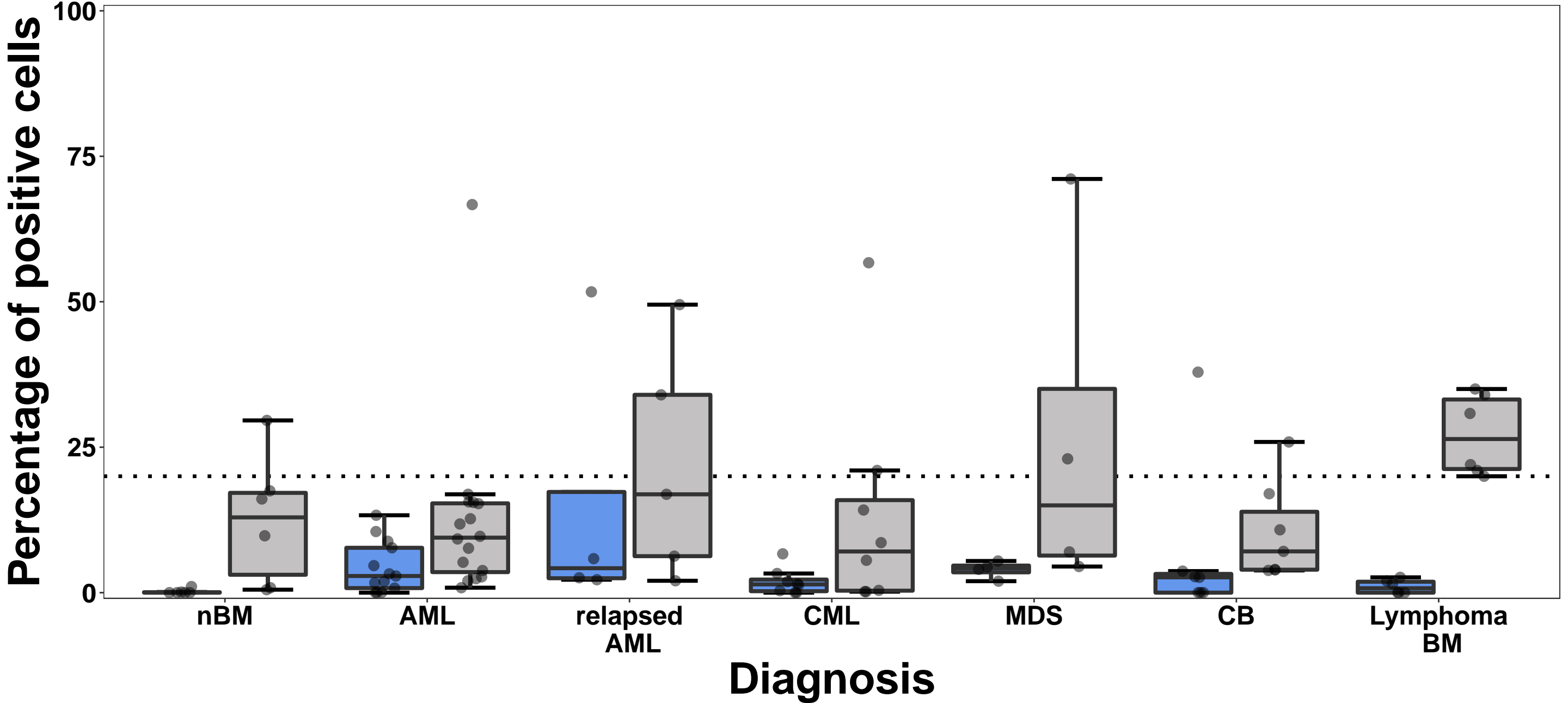
Cell fraction  CD34+/CD38-  CD34+/CD38+

Staining index





Cell fraction  CD34+/CD38-  CD34+/CD38+

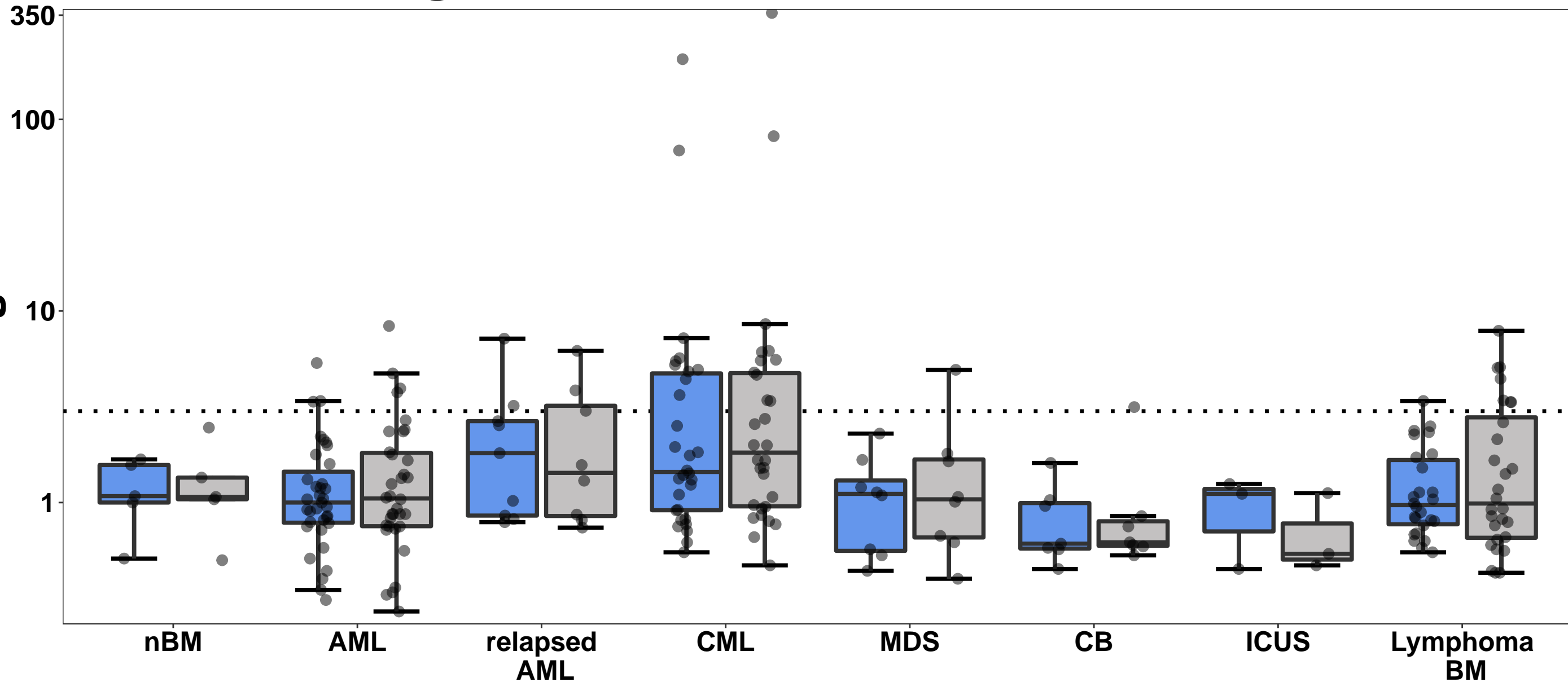
CD131 percentage





CD132 staining index

Cell fraction  CD34+/CD38-  CD34+/CD38+

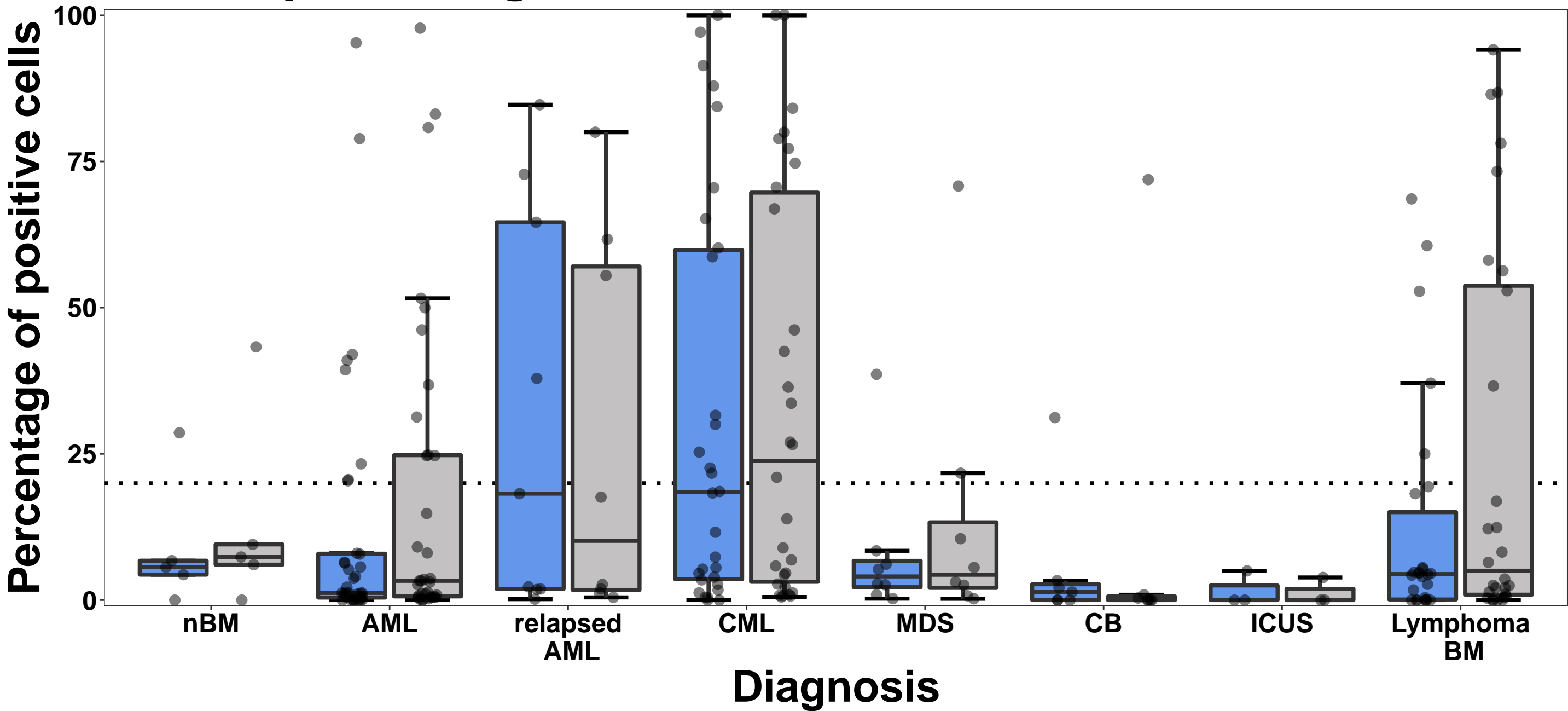
Staining index





Diagnosis

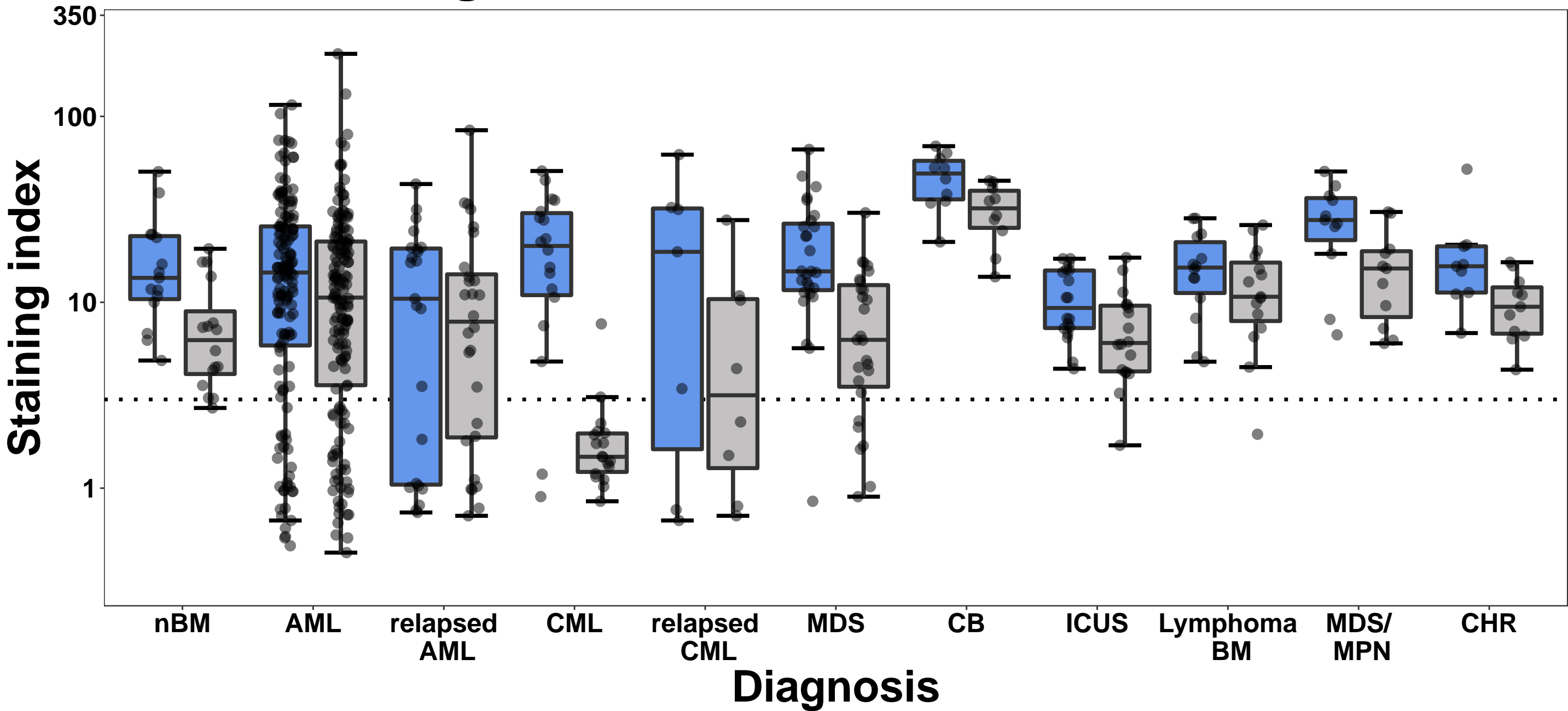
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD132 percentage



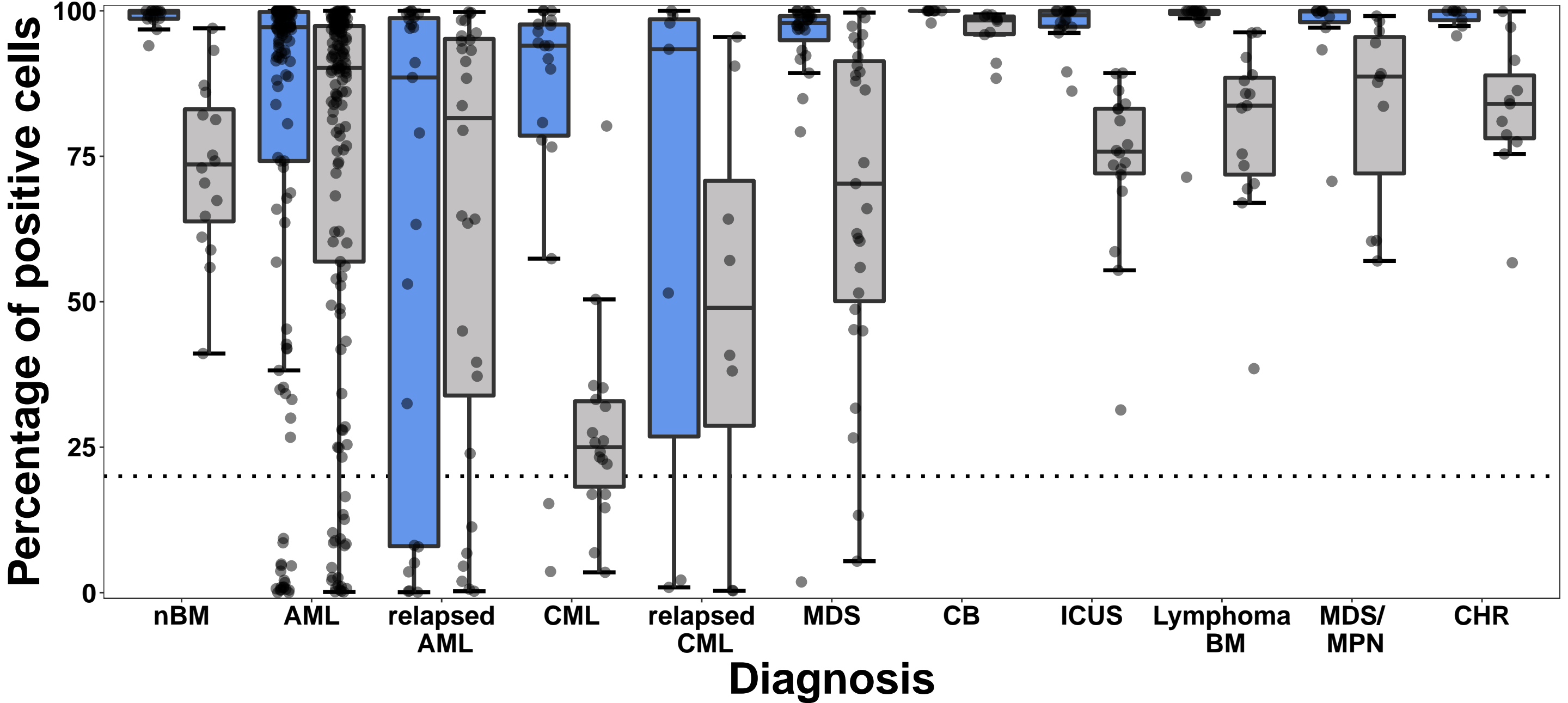
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD133 staining index



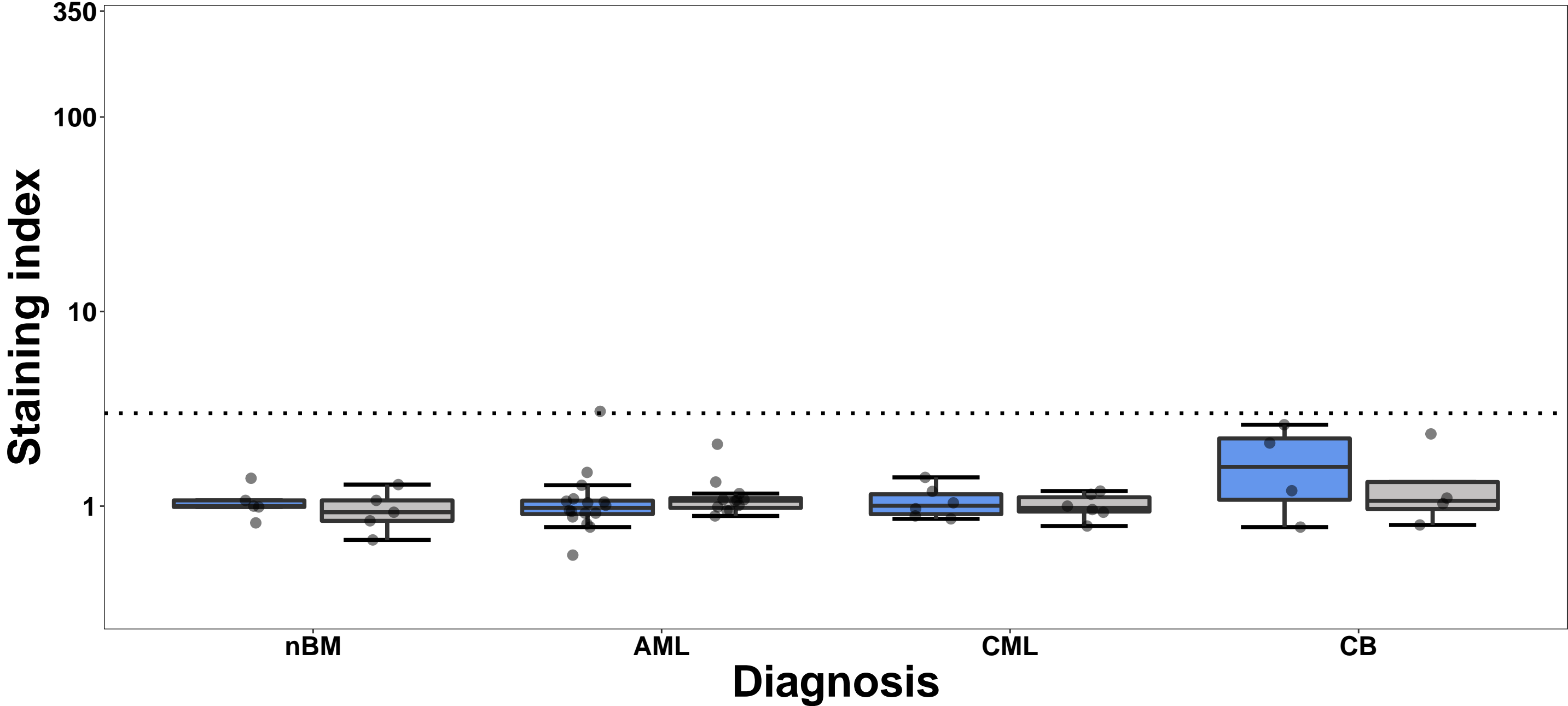
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD133 percentage



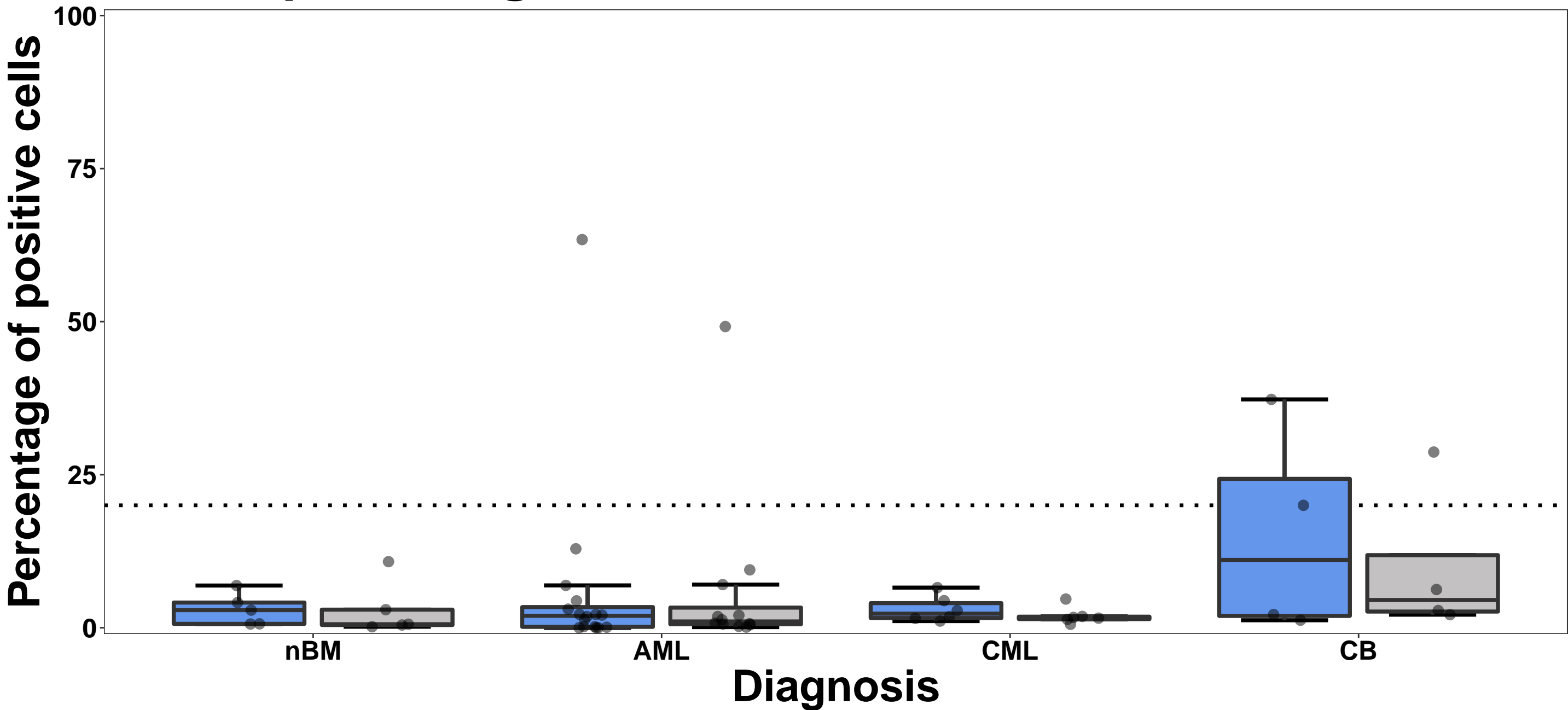
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD134 staining index



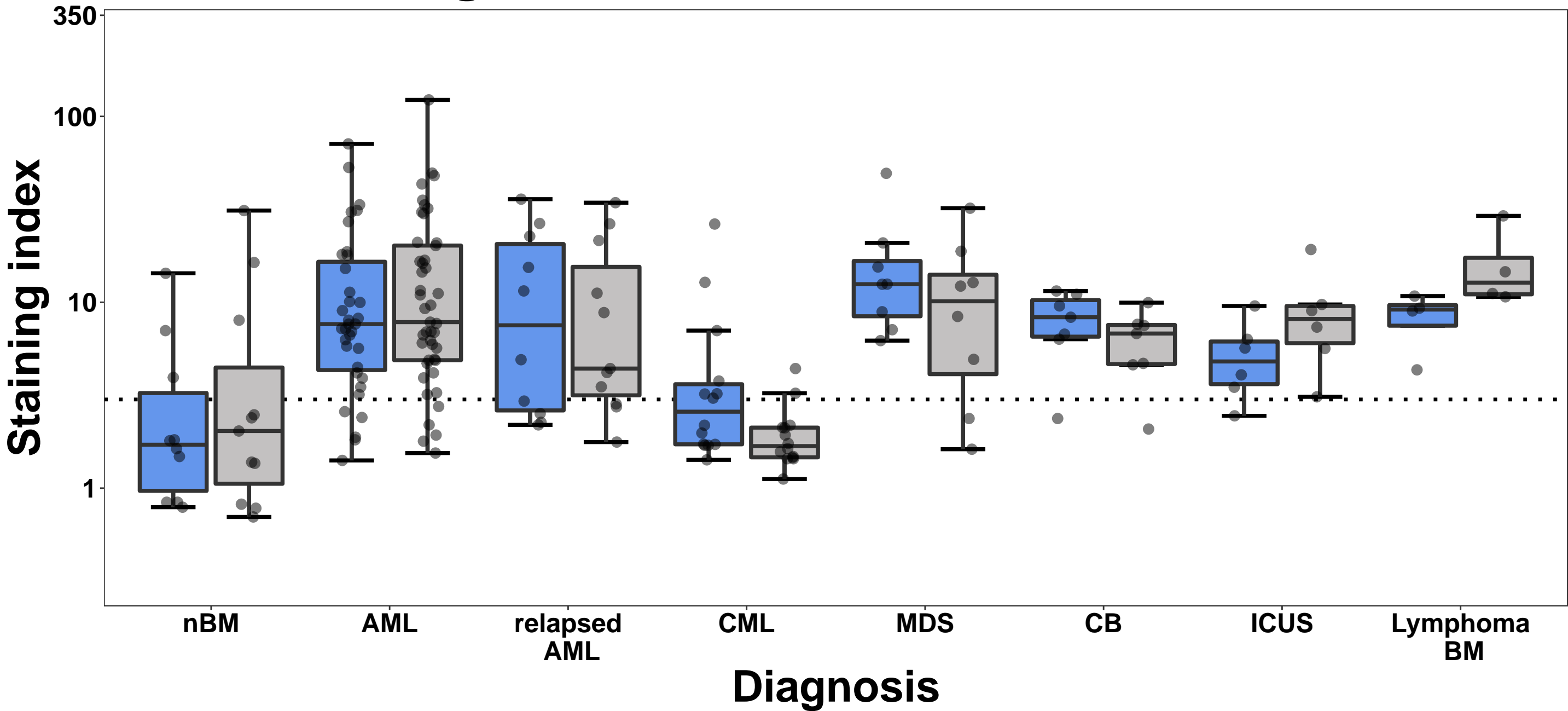
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD134 percentage



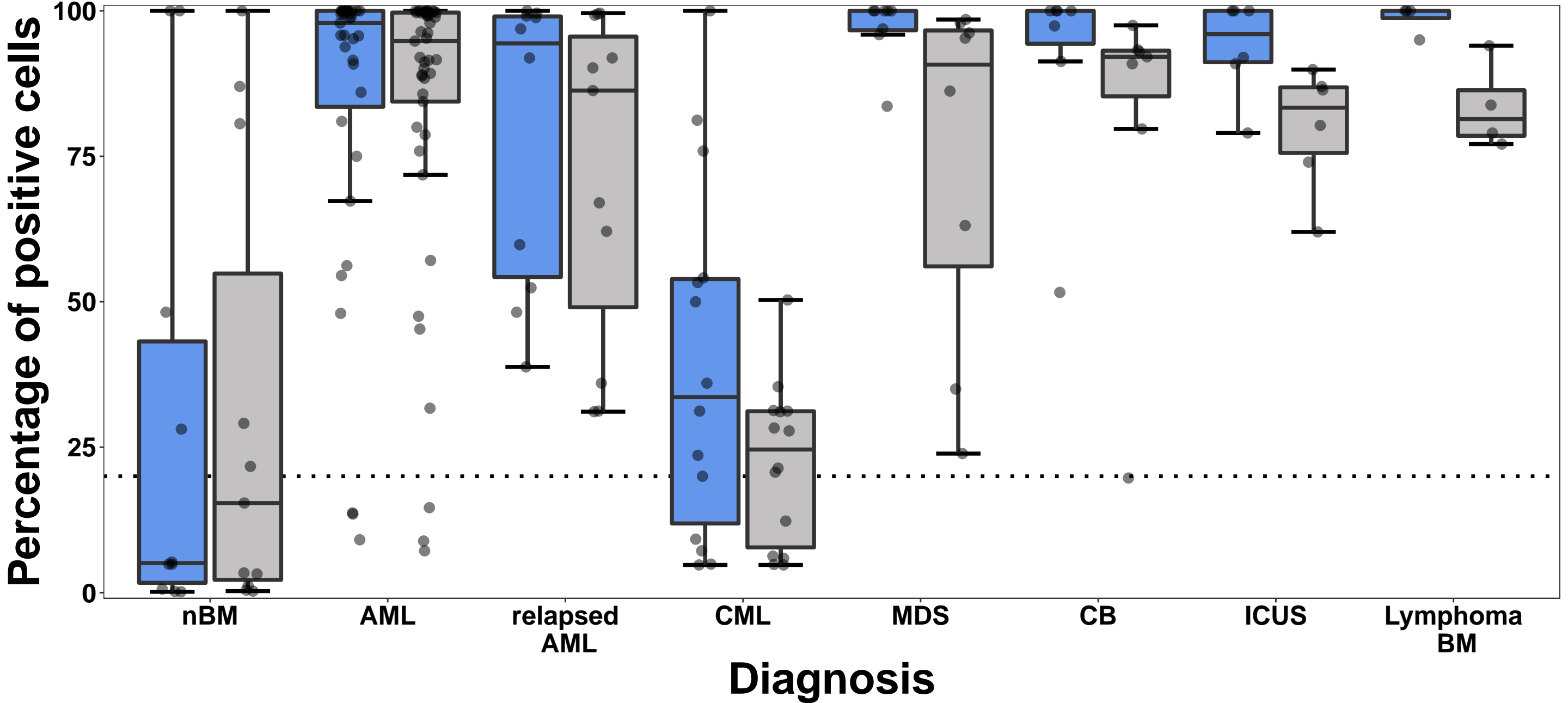
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD135 staining index



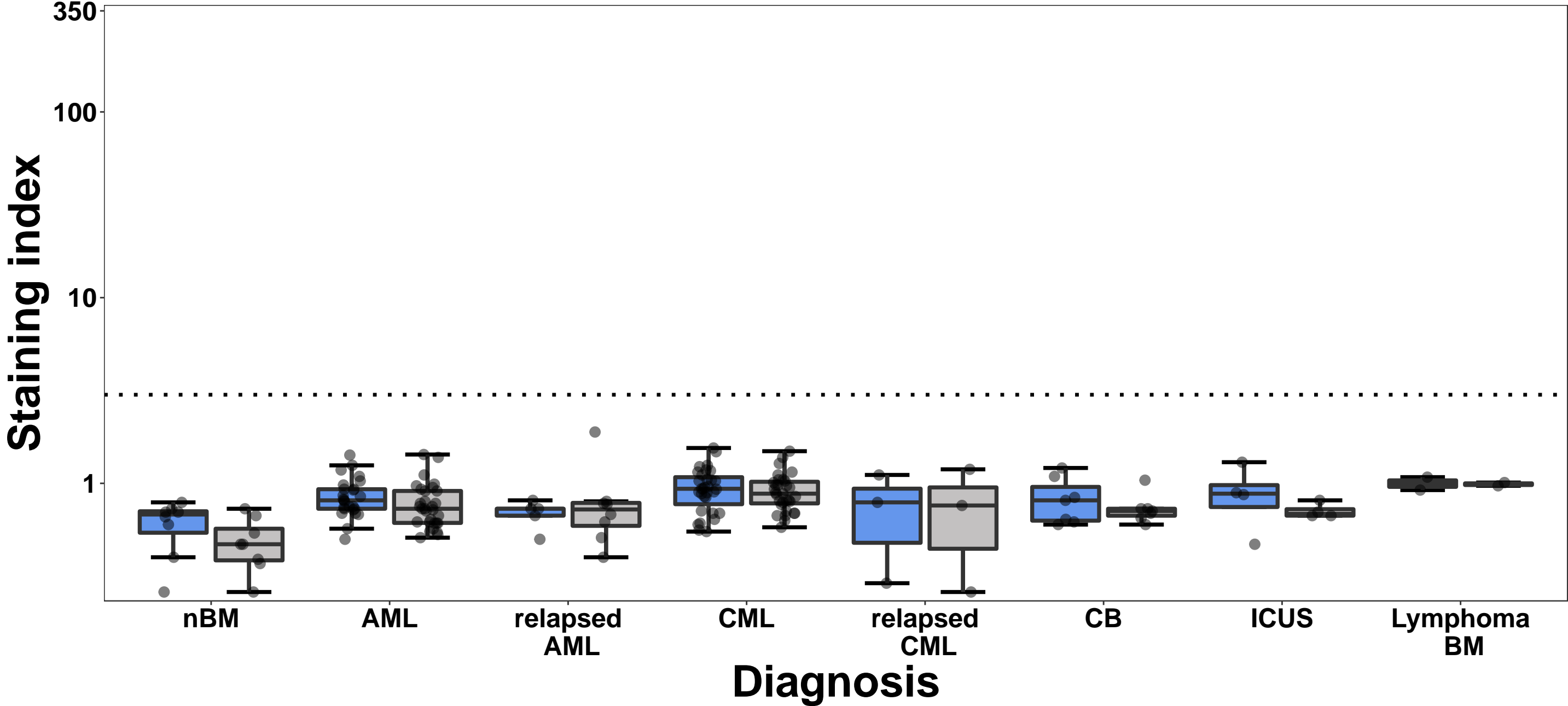
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD135 percentage



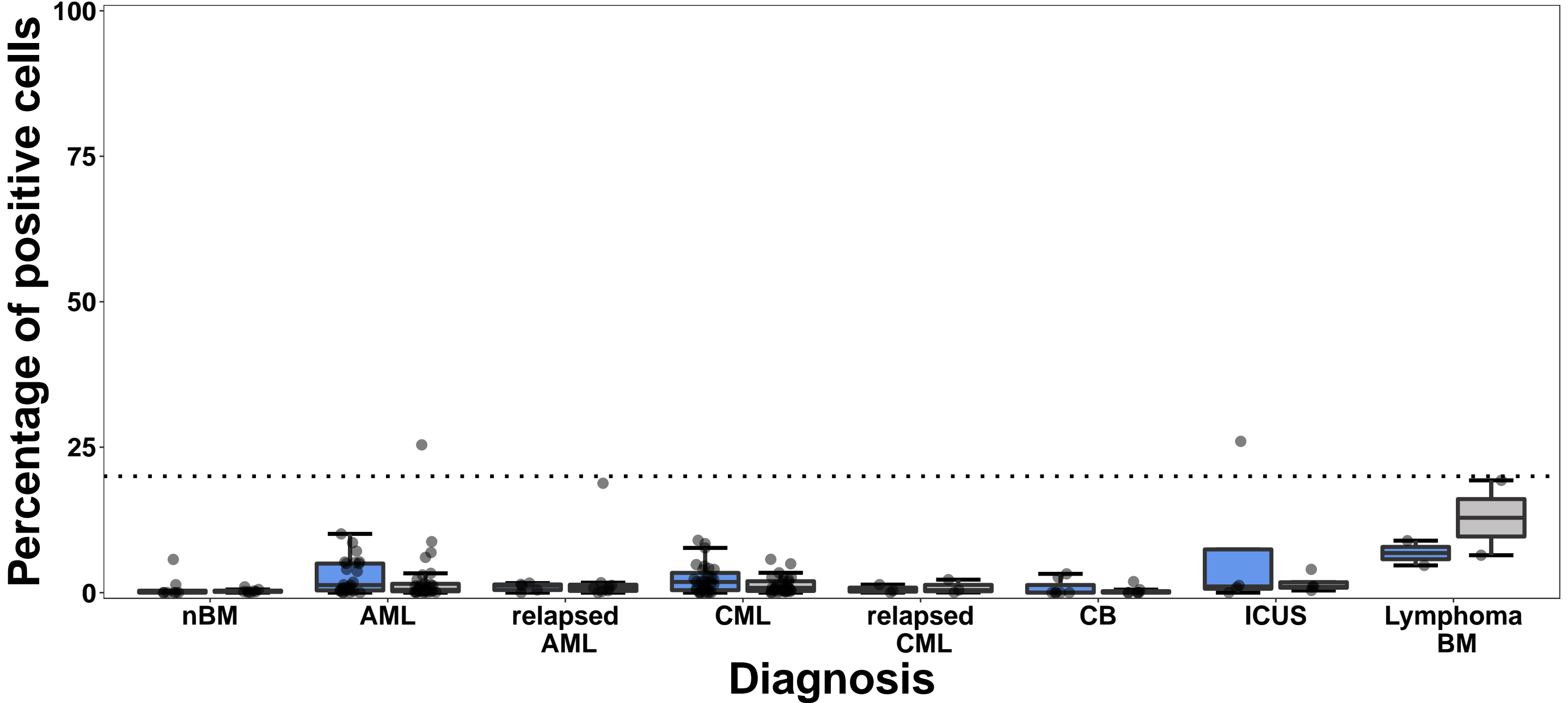
Cell fraction  CD34+/CD38-  CD34+/CD38+

CD150 staining index





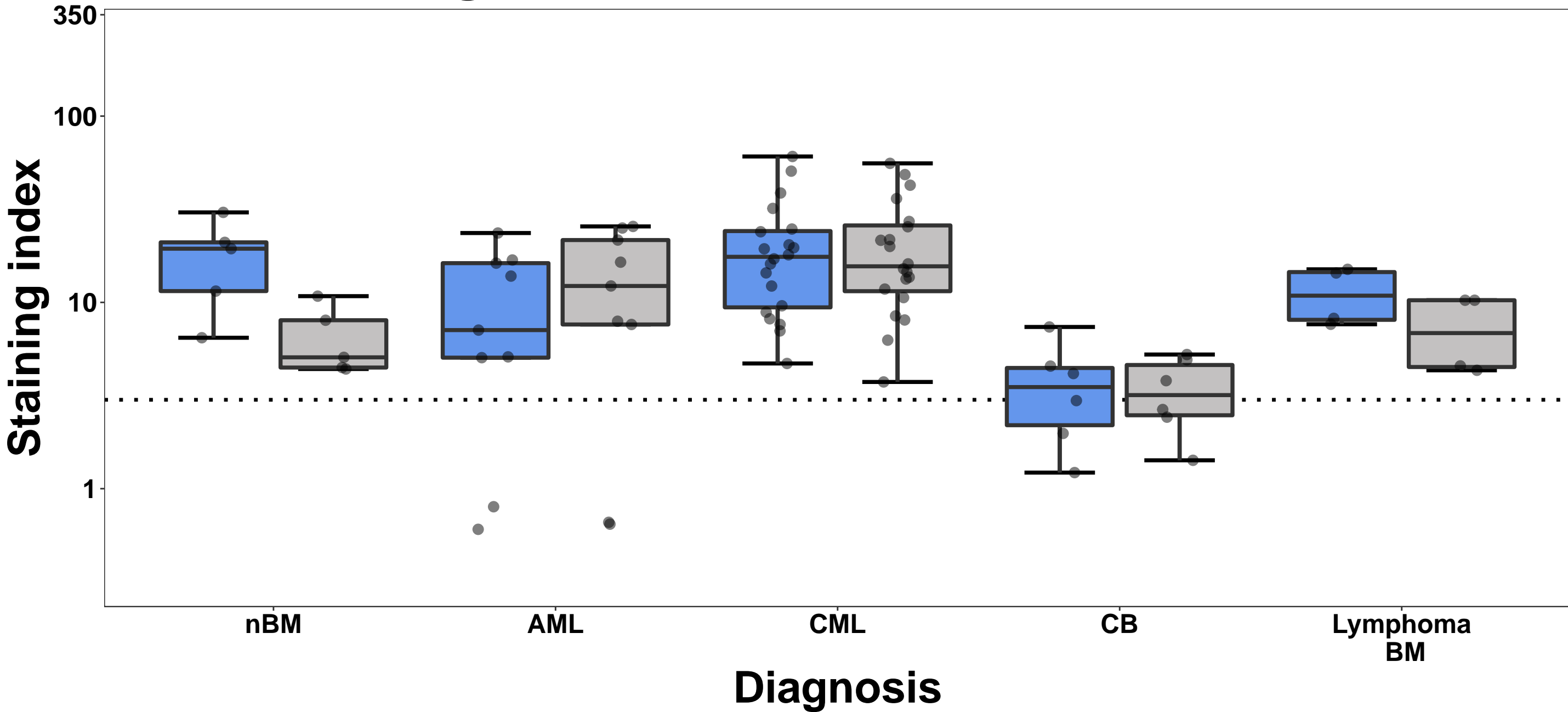
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD150 percentage



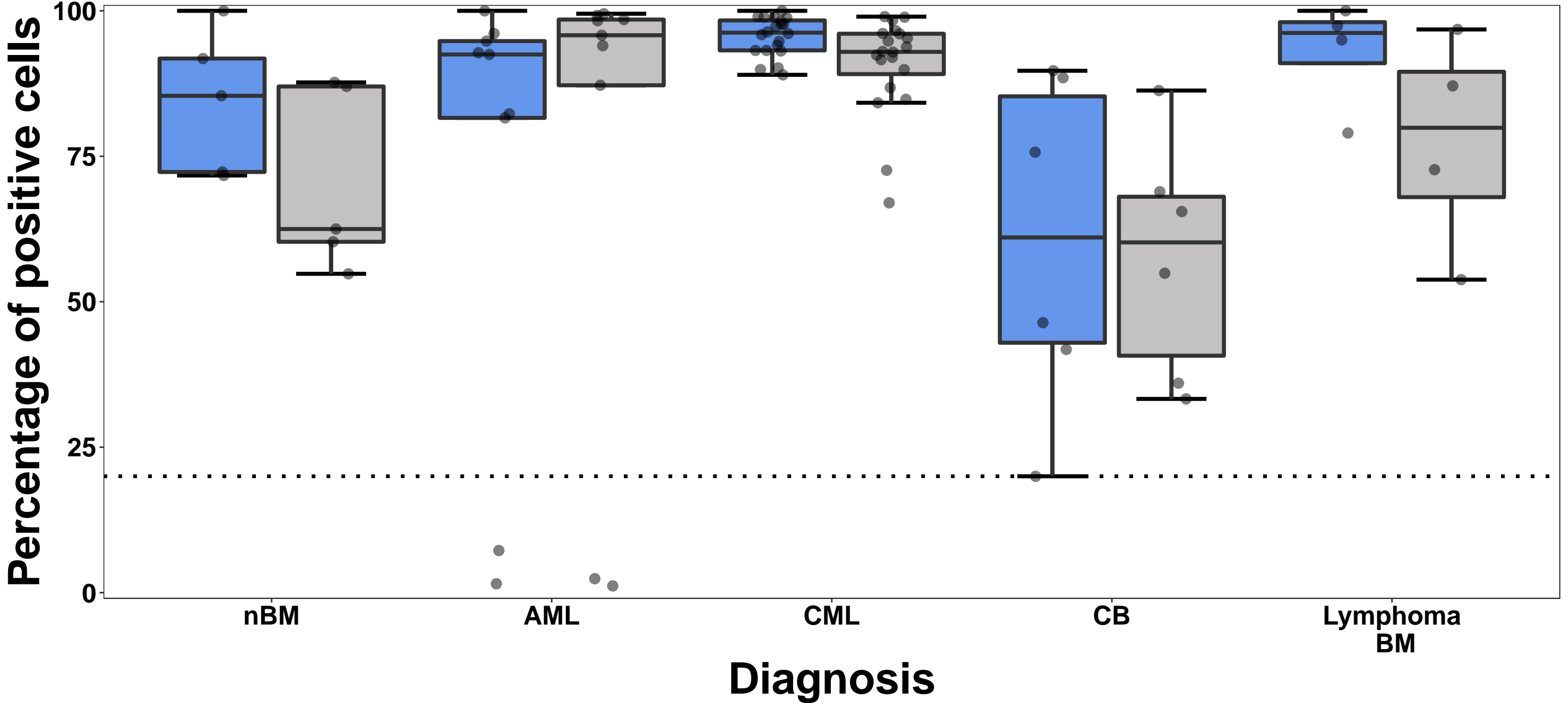
CD151 staining index



Cell fraction  CD34+/CD38-  CD34+/CD38+



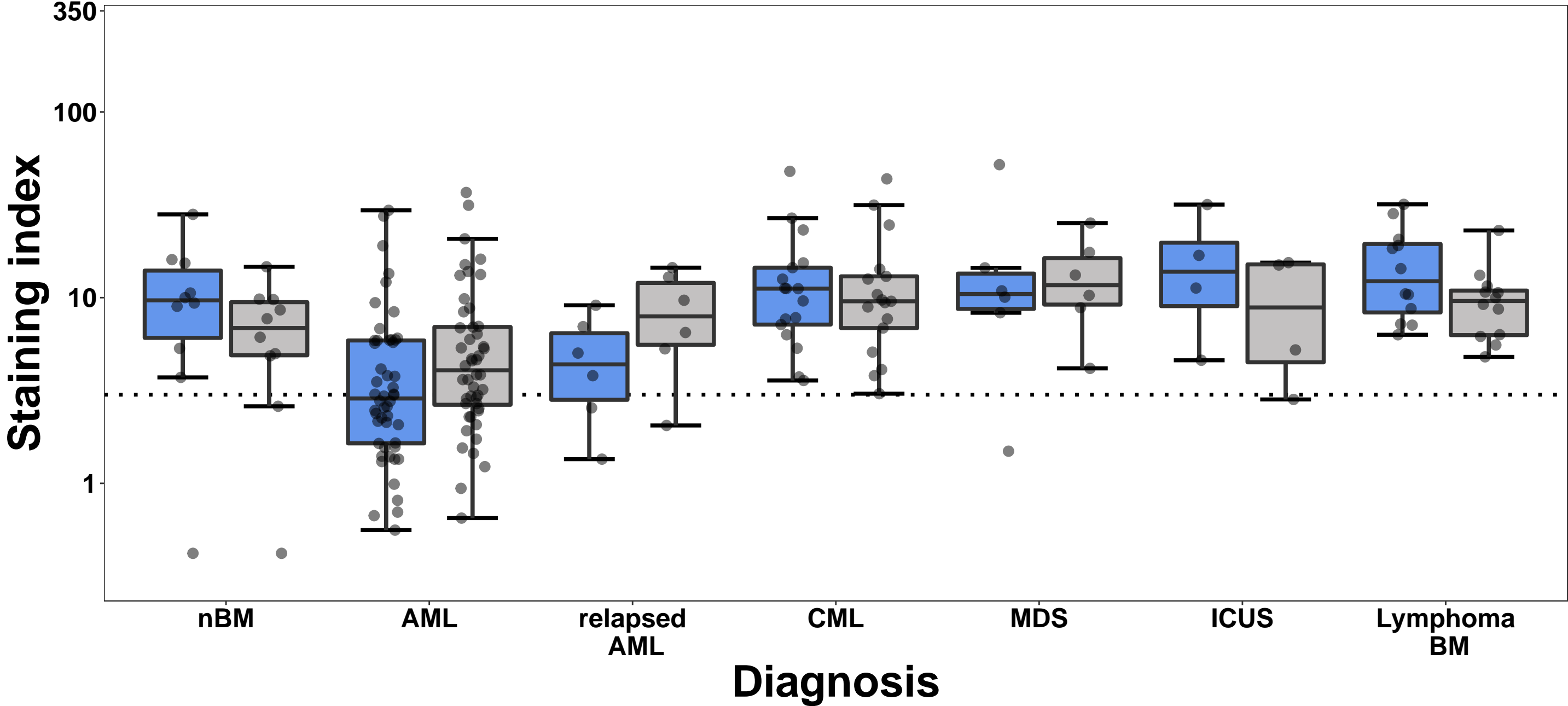
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD151 percentage



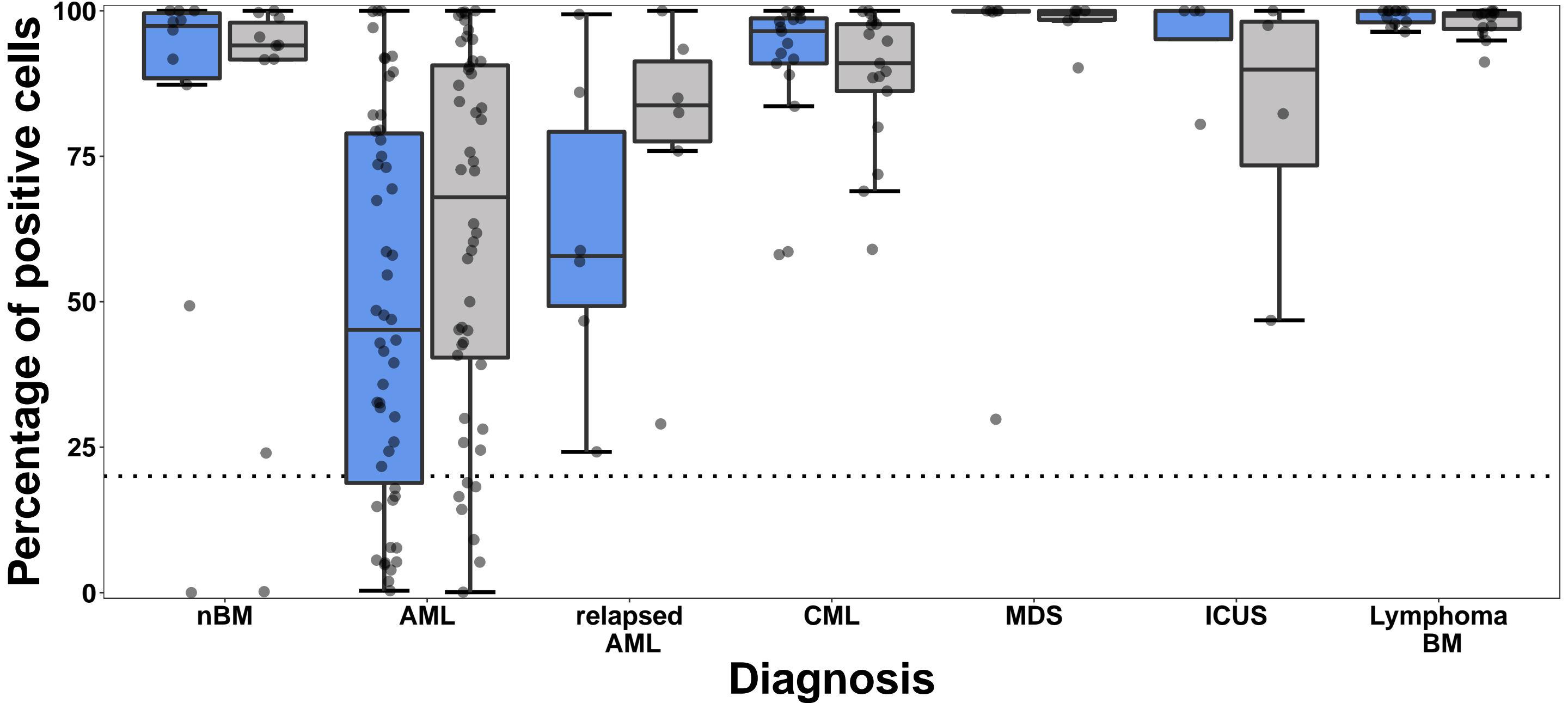
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD157 staining index



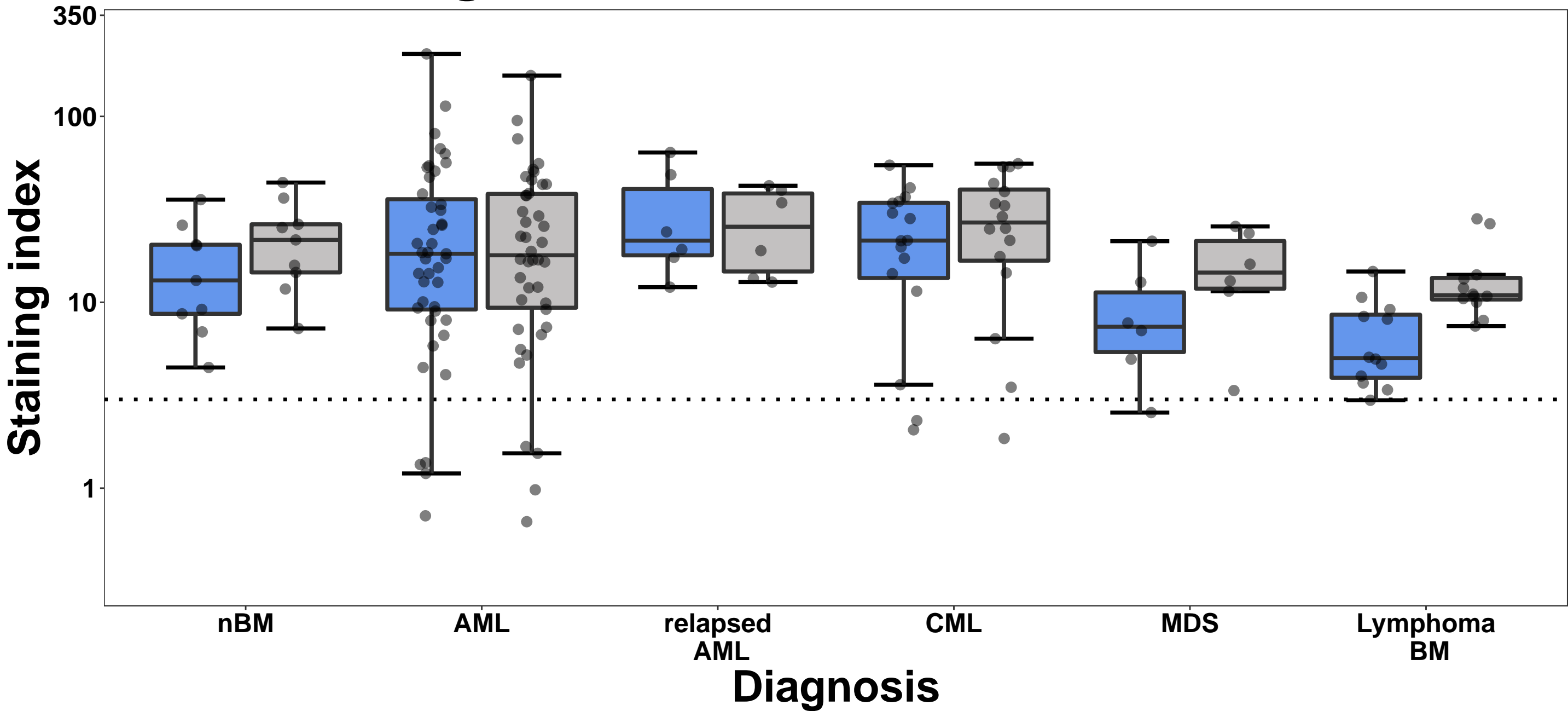
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD157 percentage



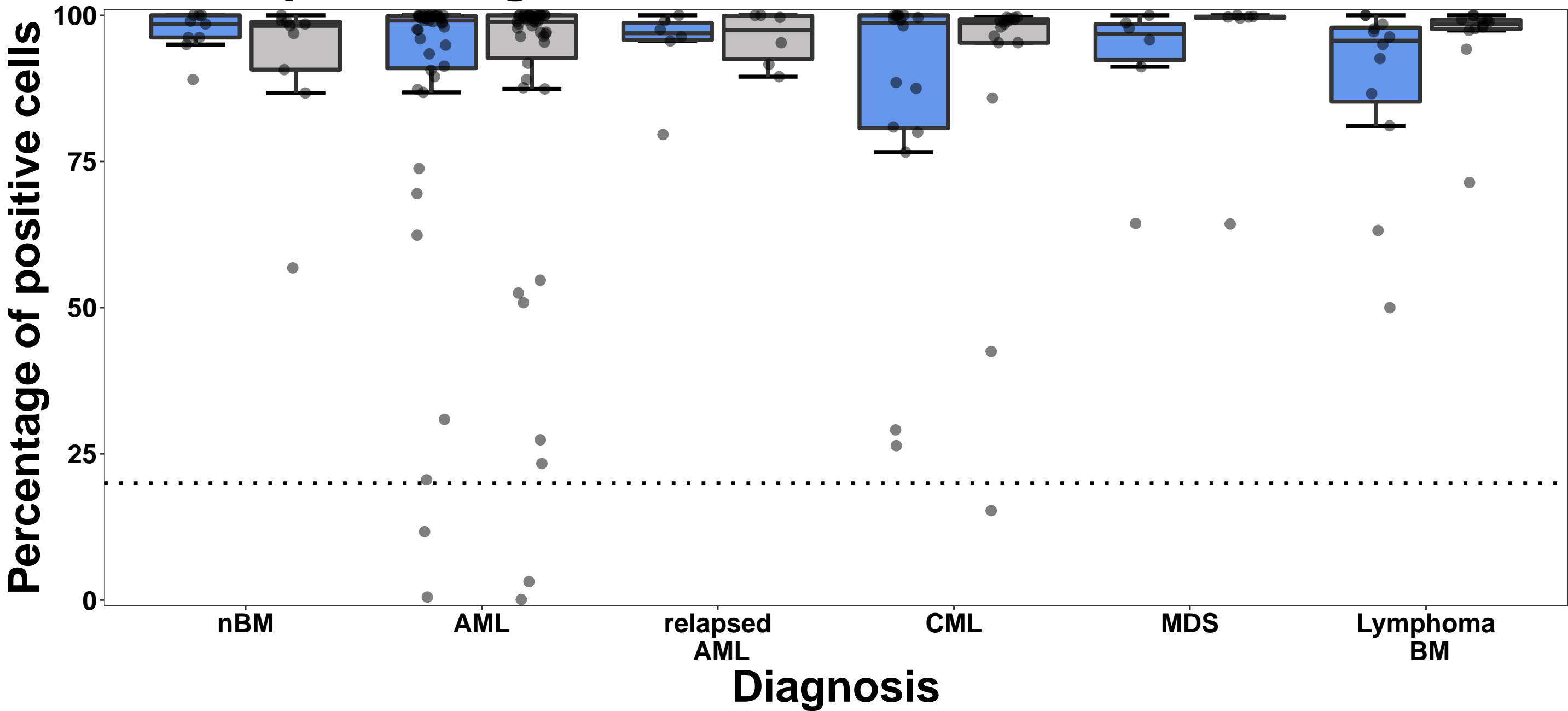
Cell fraction  CD34+/CD38-  CD34+/CD38+

CD162 staining index





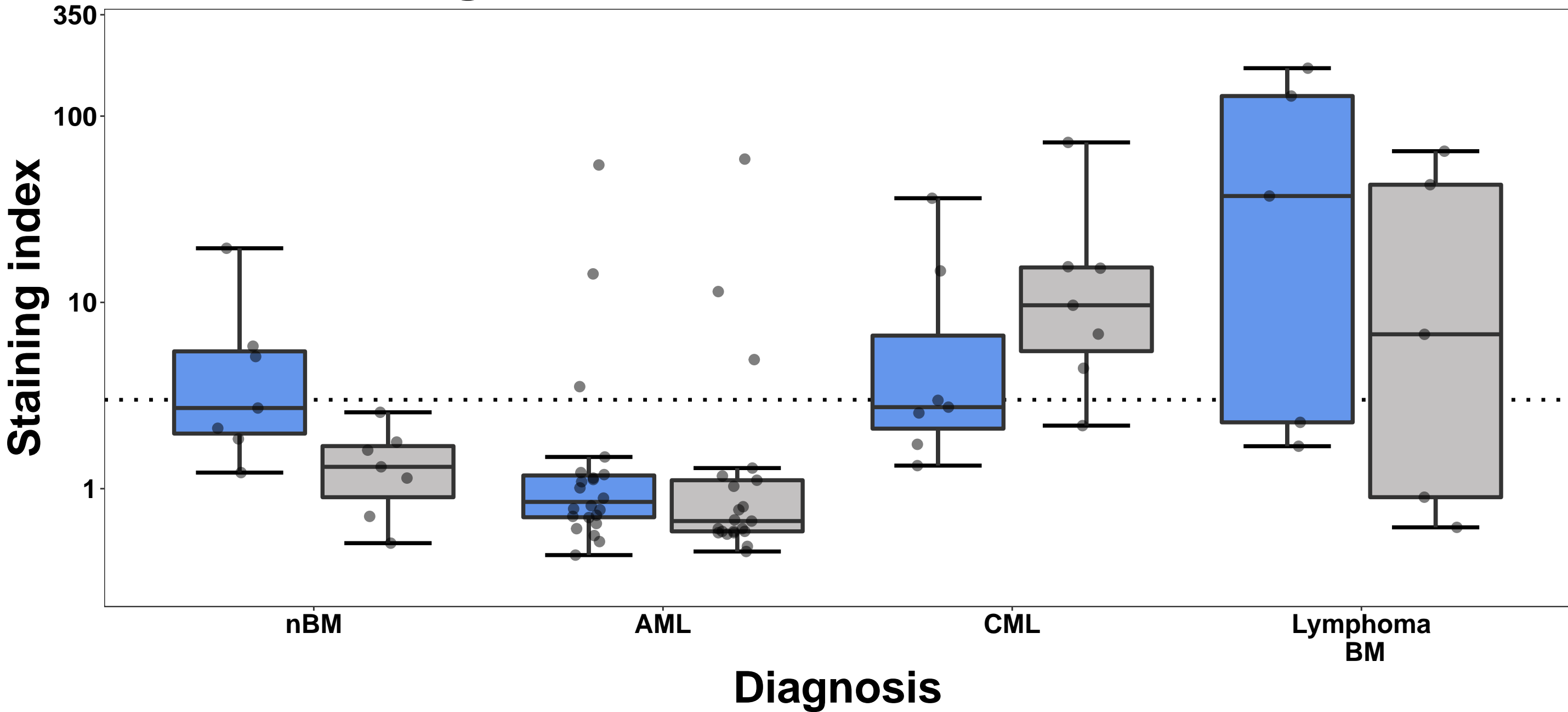
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD162 percentage



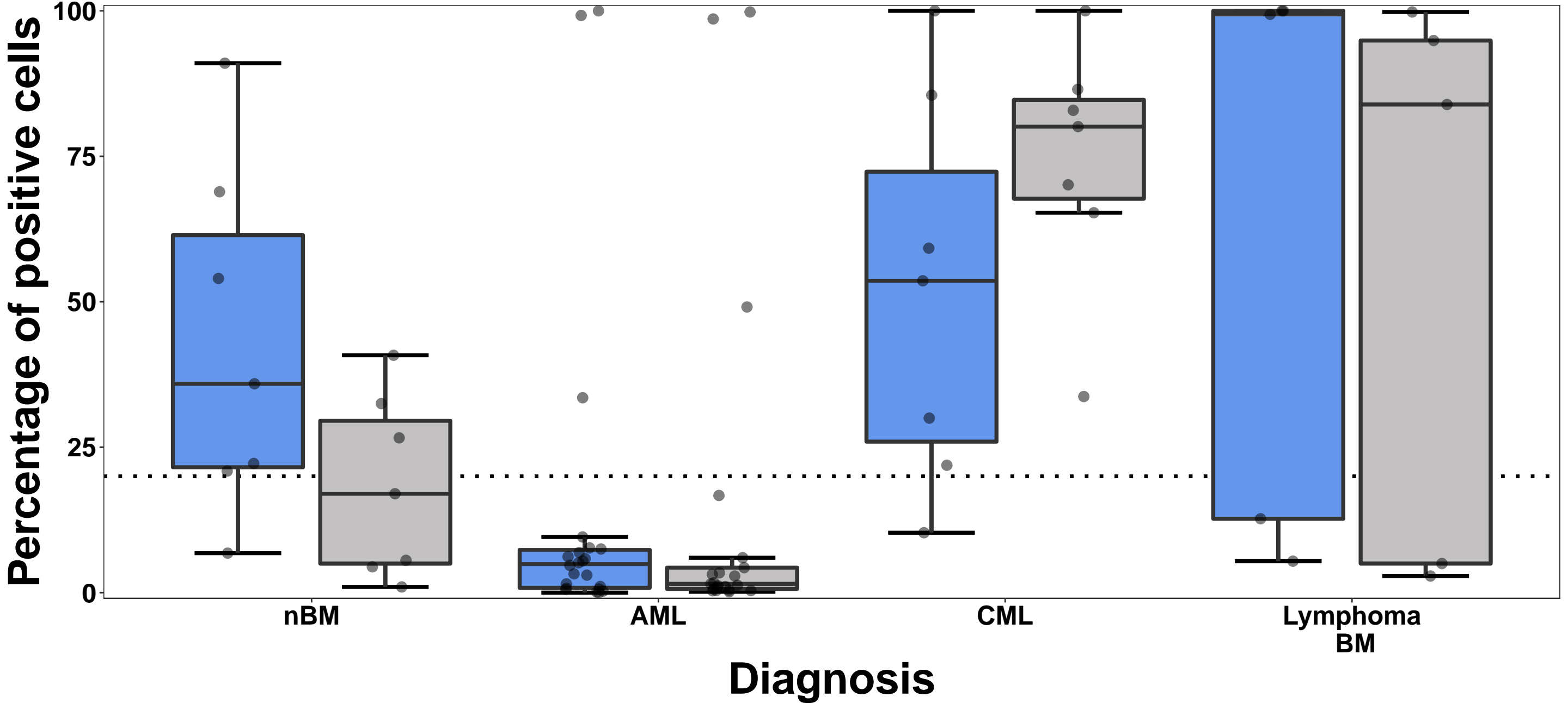
CD164 staining index

Cell fraction  CD34+/CD38-  CD34+/CD38+





Cell fraction  CD34+/CD38-  CD34+/CD38+

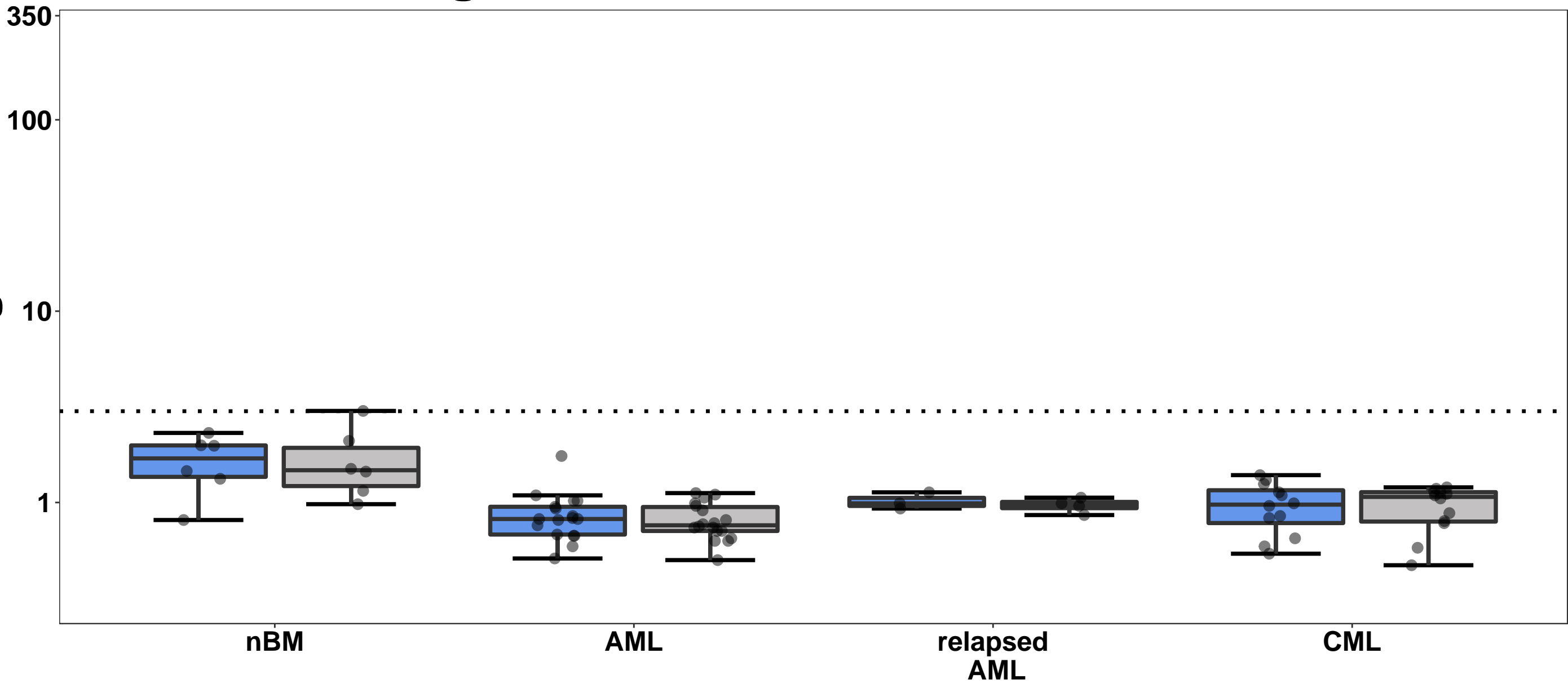
CD164 percentage



CD167a staining index

Cell fraction  CD34+/CD38-  CD34+/CD38+

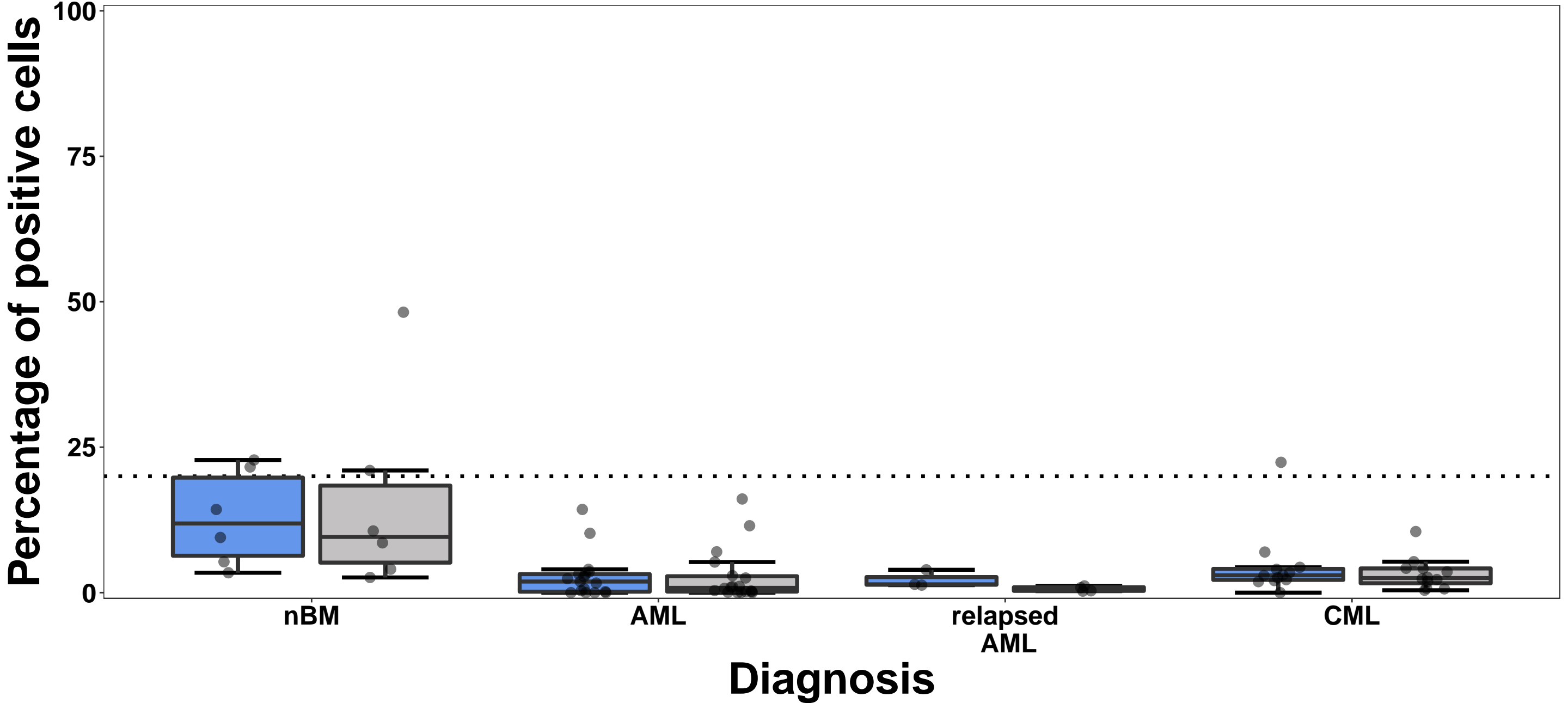
Staining index





Diagnosis

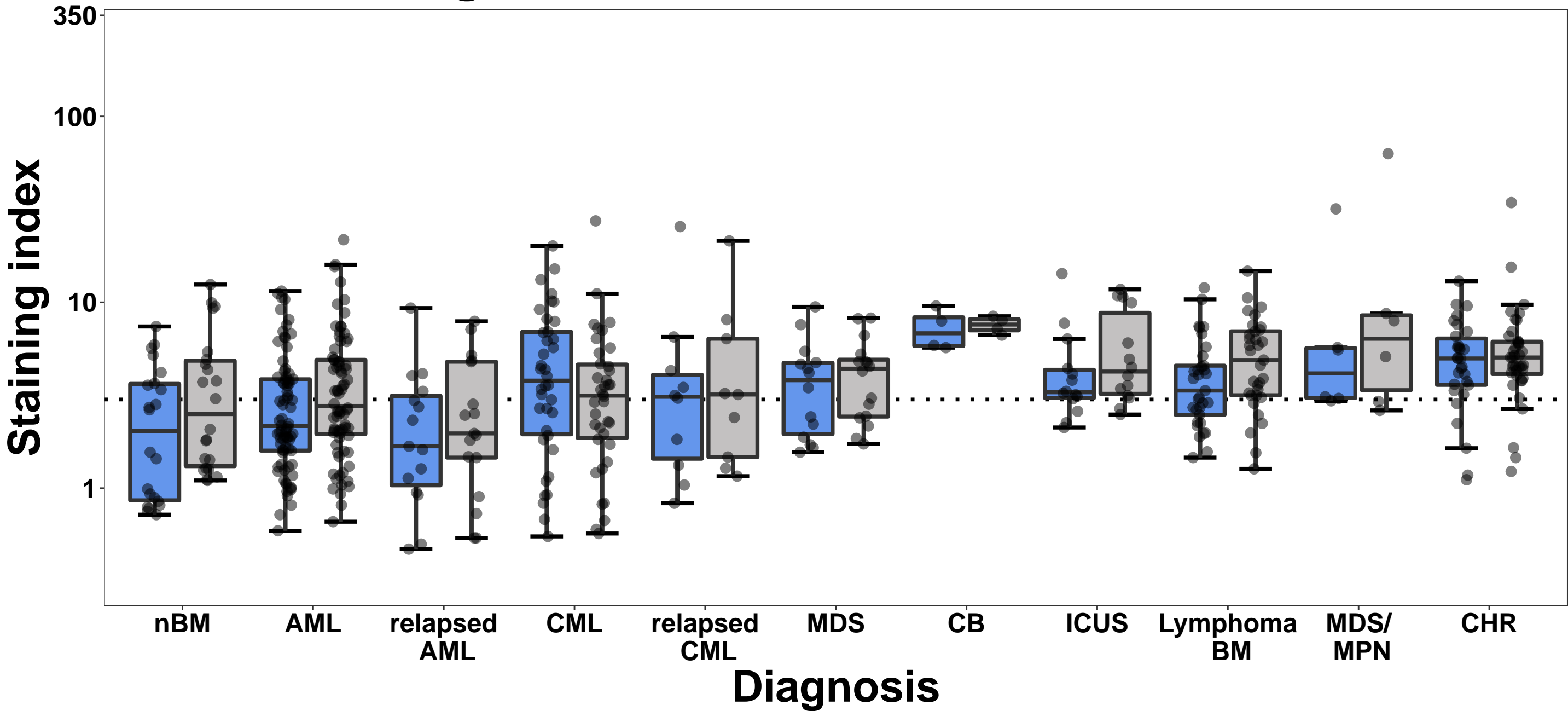
Cell fraction CD34+/CD38- CD34+/CD38+



CD167a percentage



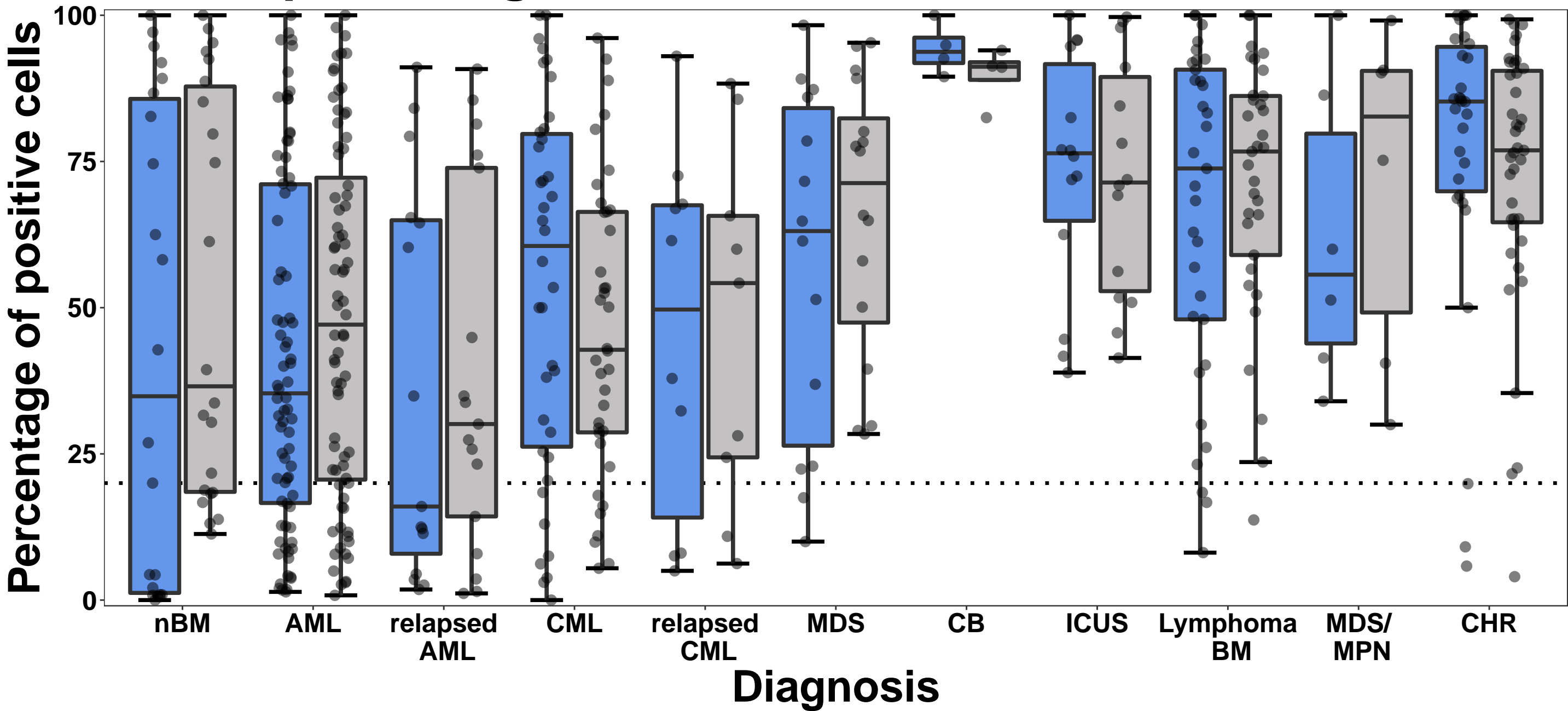
Cell fraction  CD34+/CD38-  CD34+/CD38+

CD184 staining index





Cell fraction  CD34+/CD38-  CD34+/CD38+

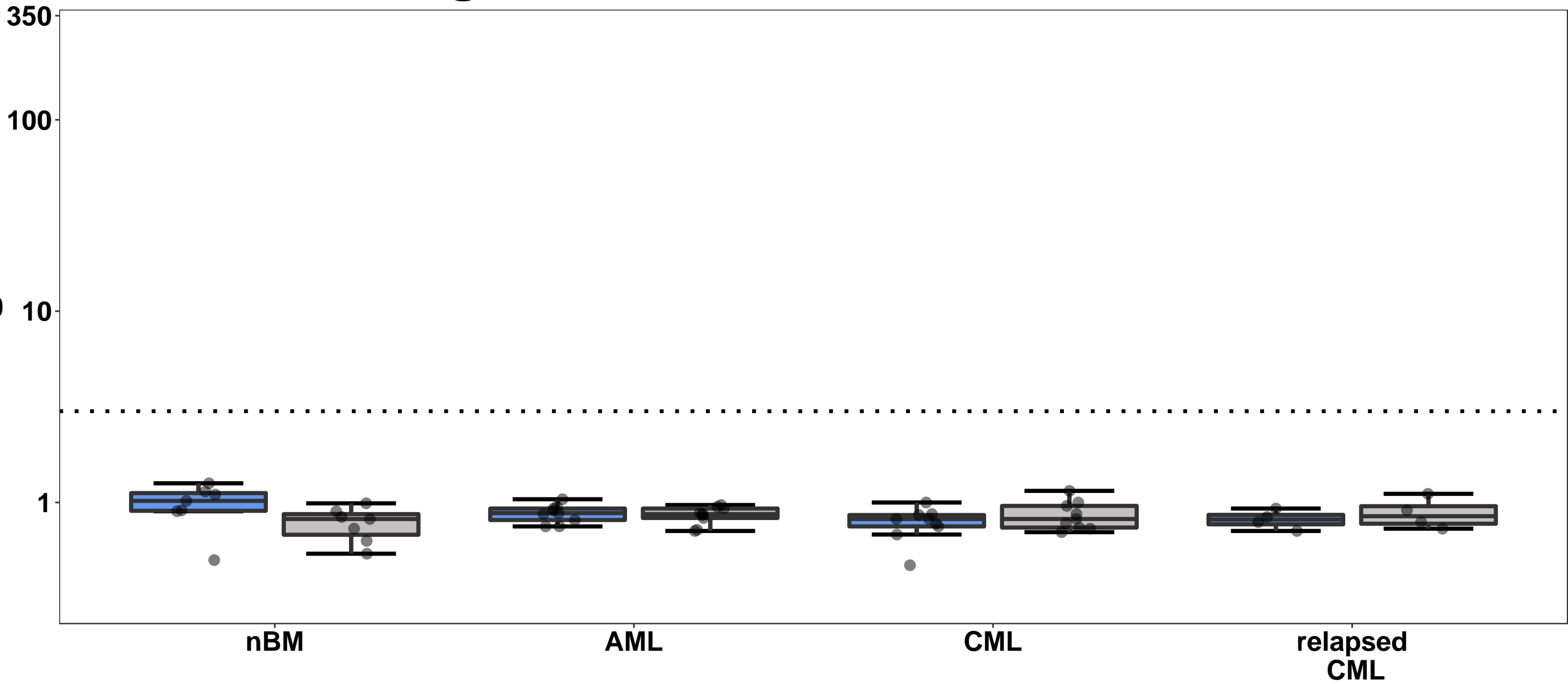
CD184 percentage



CD203c staining index

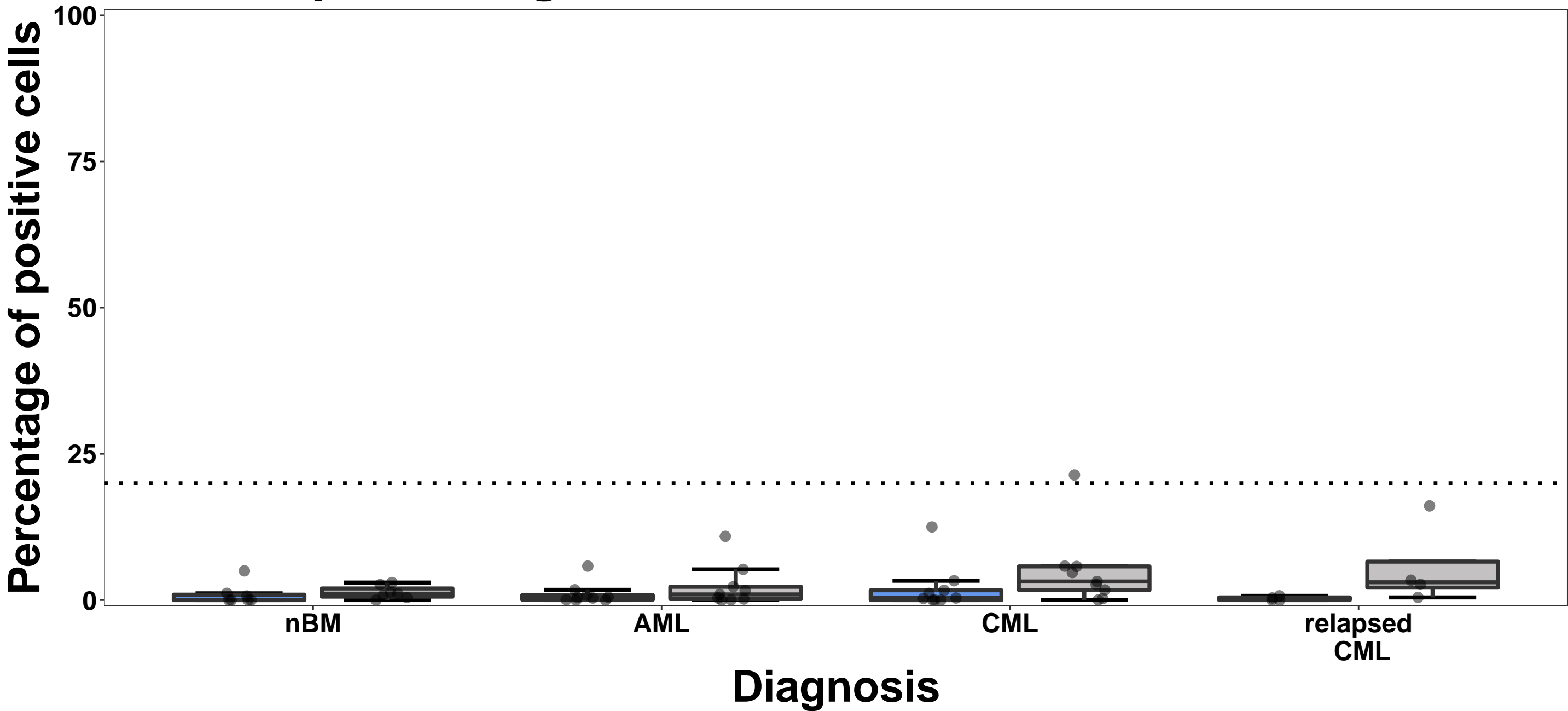
Cell fraction  CD34+/CD38-  CD34+/CD38+

Staining index





Cell fraction CD34+/CD38- CD34+/CD38+

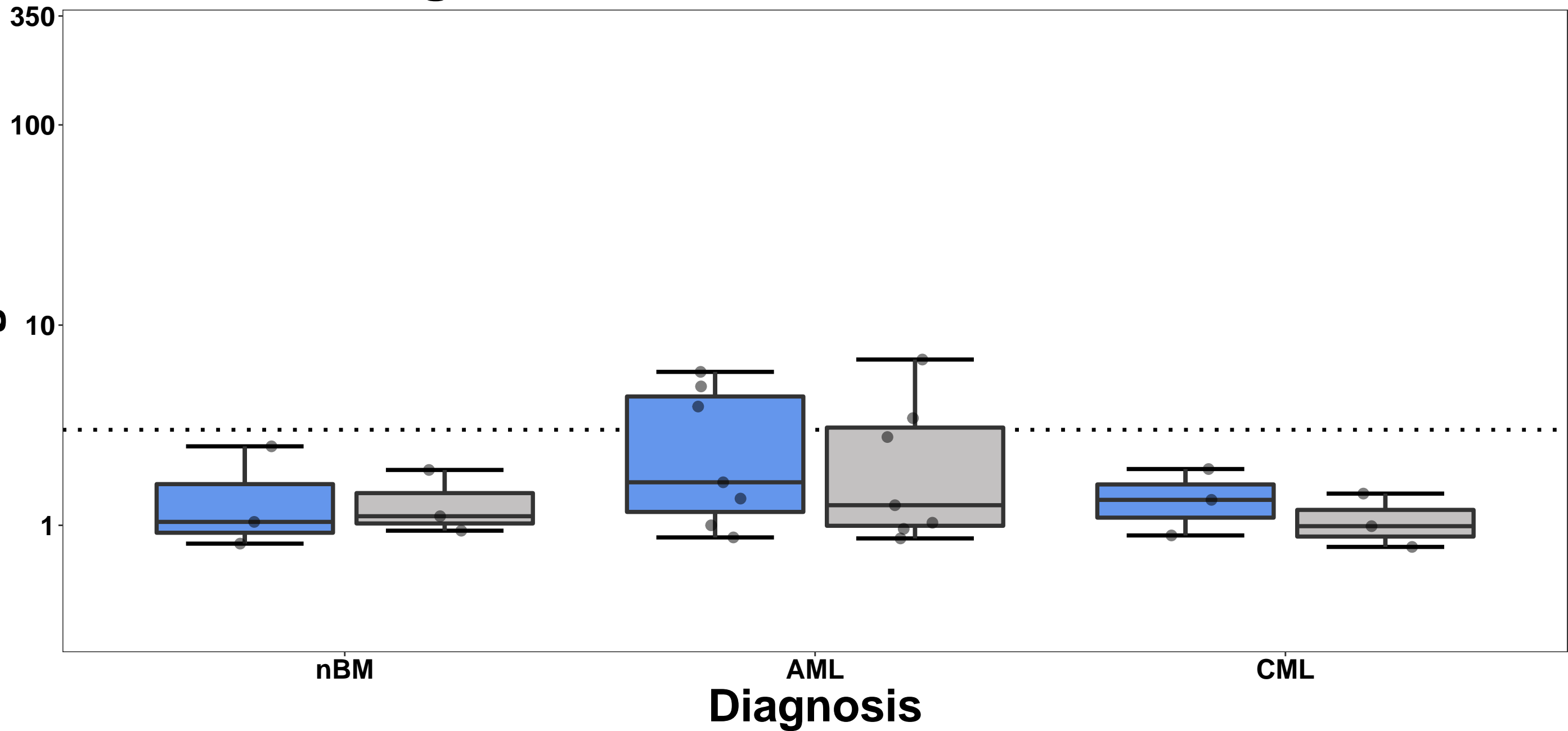
CD203c percentage





CD206 staining index

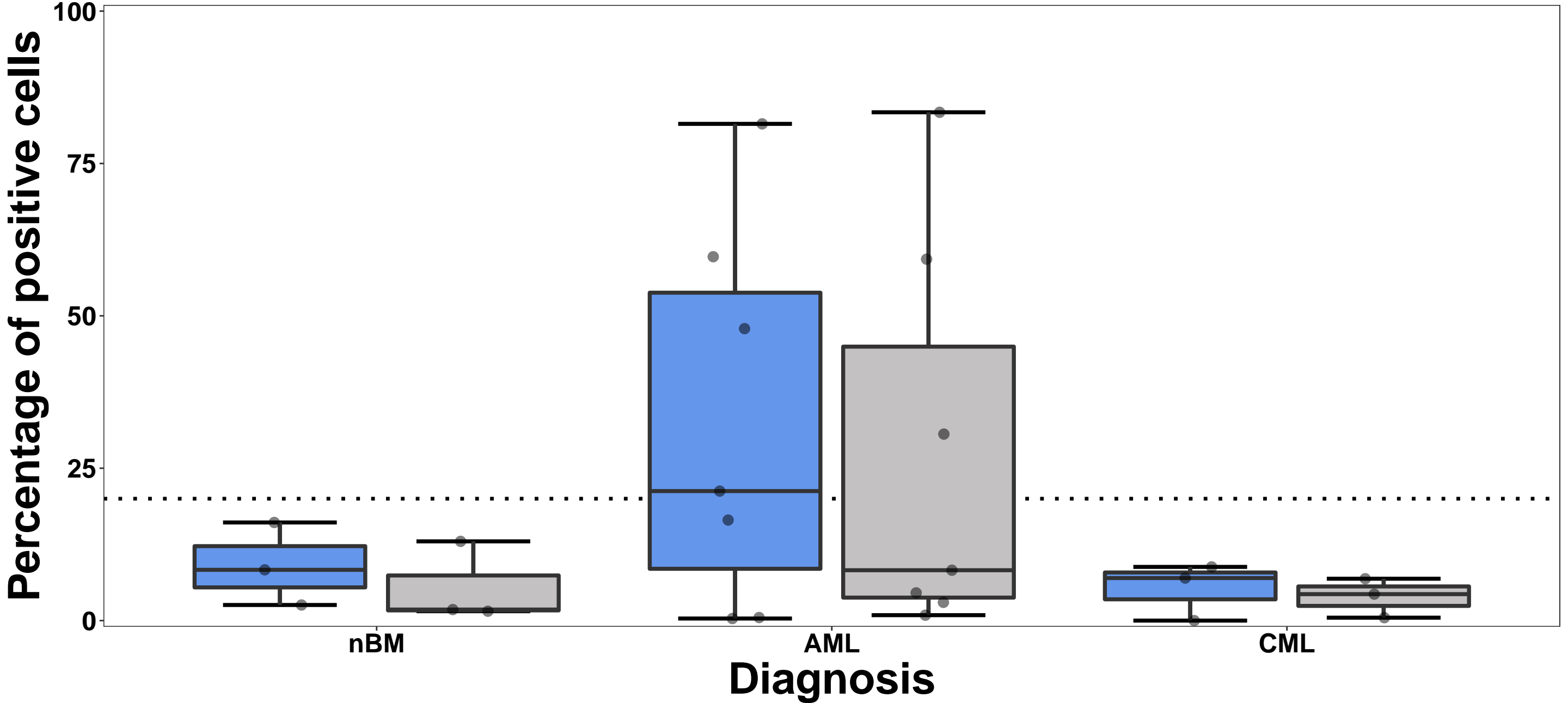
Cell fraction  CD34+/CD38-  CD34+/CD38+



Staining index



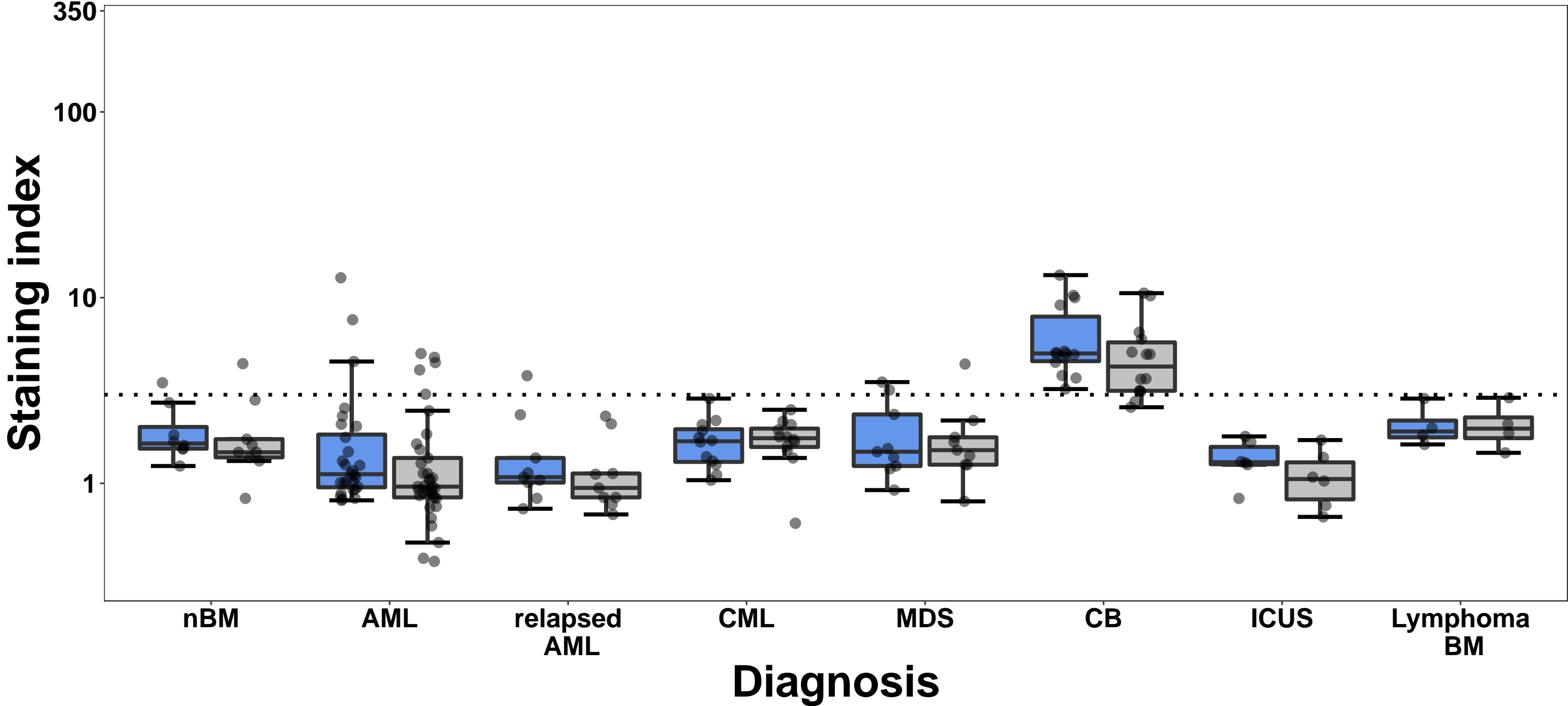
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD206 percentage



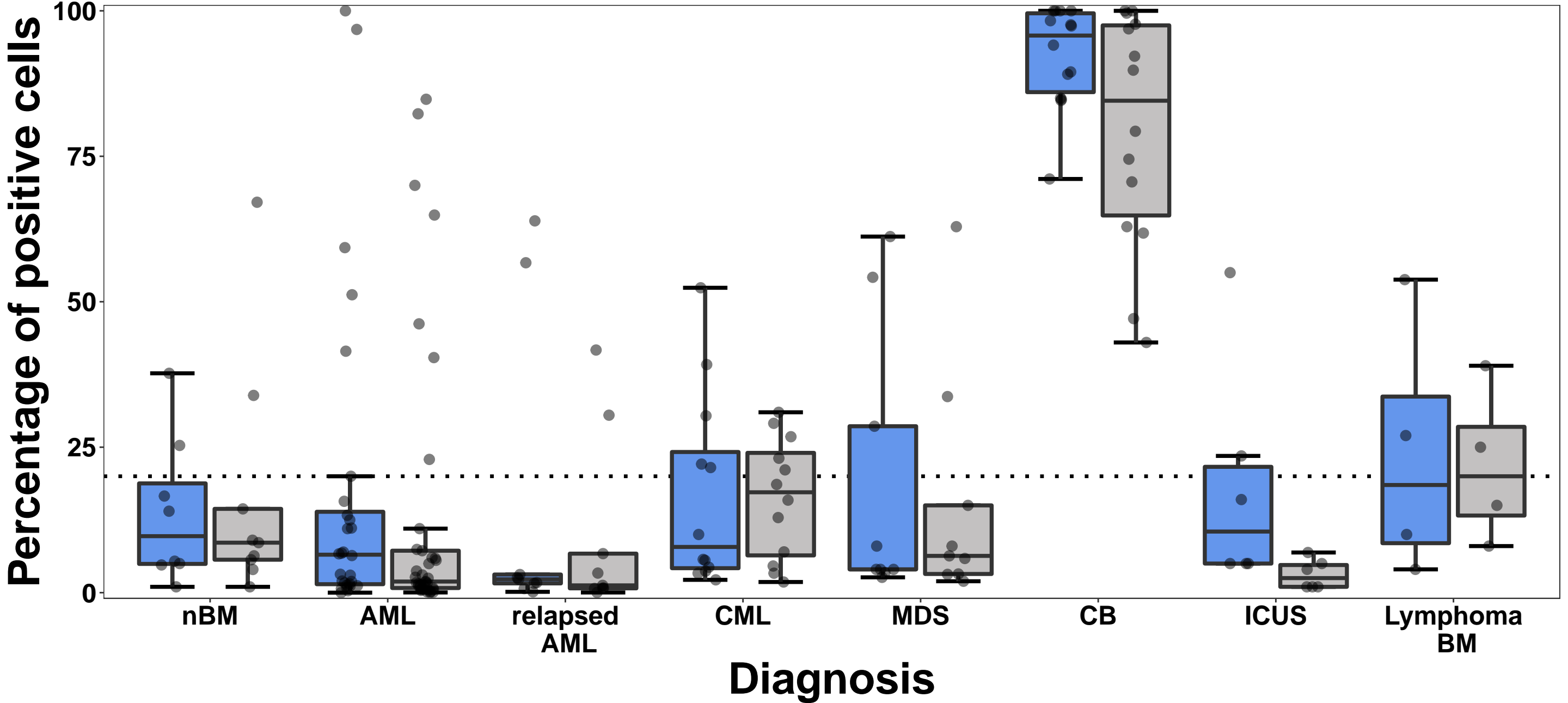
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD221 staining index



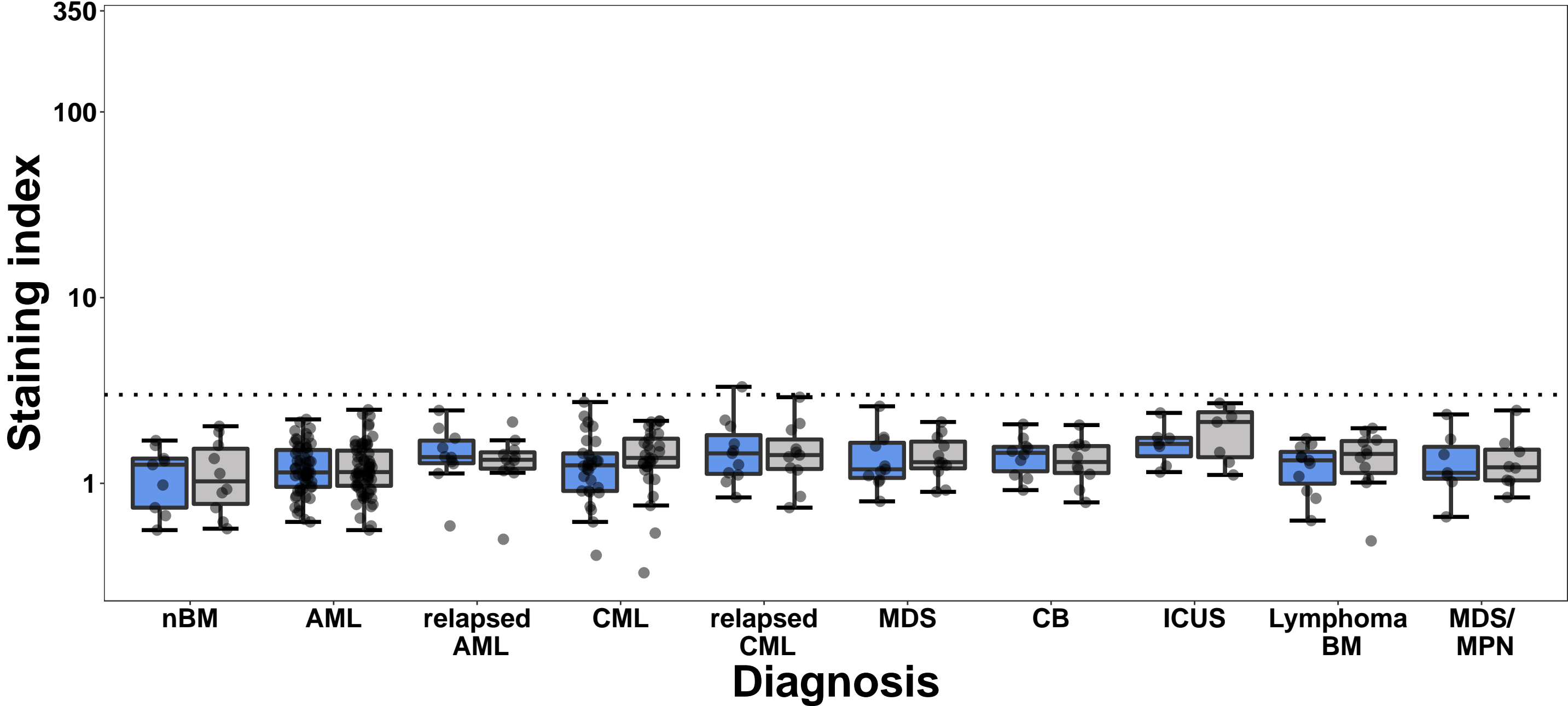
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD221 percentage



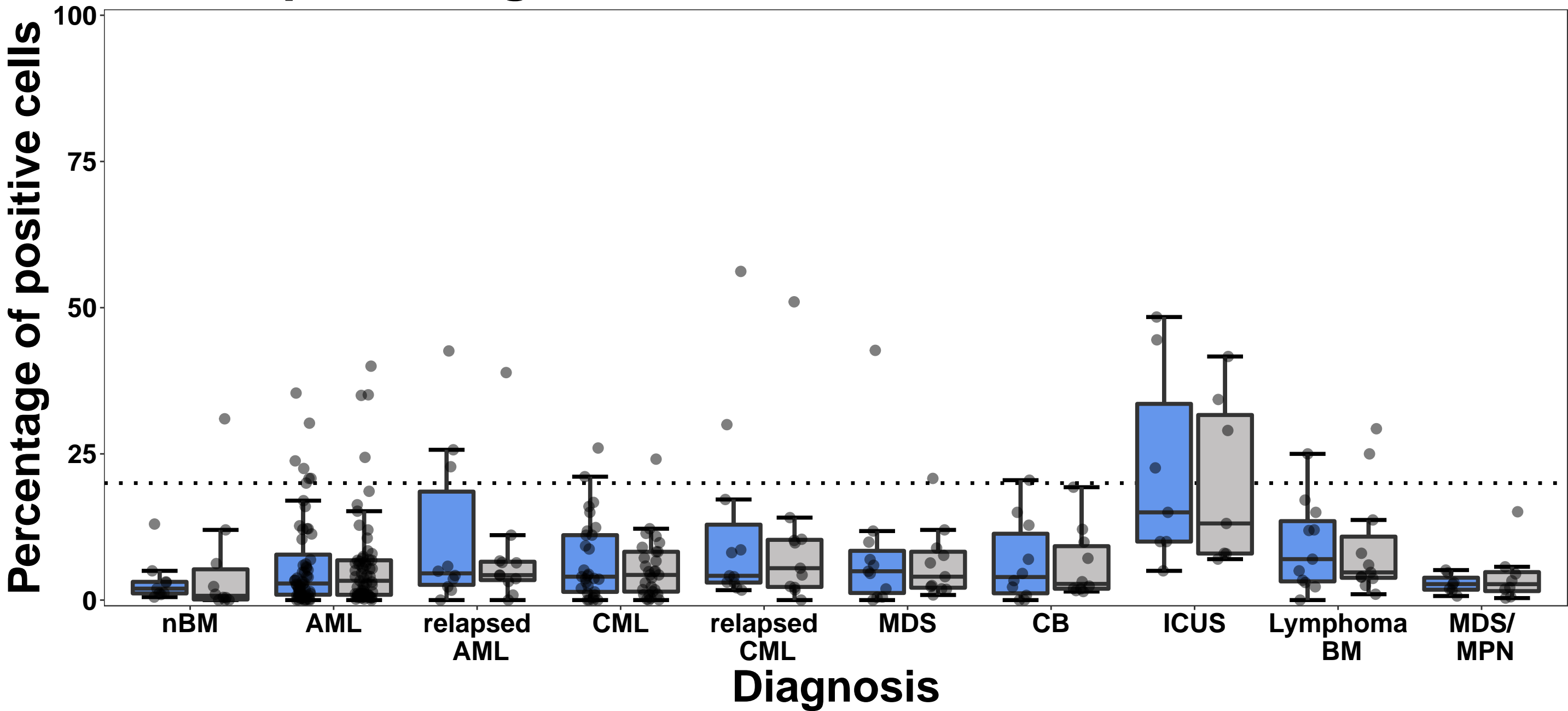
Cell fraction  CD34+/CD38-  CD34+/CD38+

CD243 staining index





Cell fraction  CD34+/CD38-  CD34+/CD38+

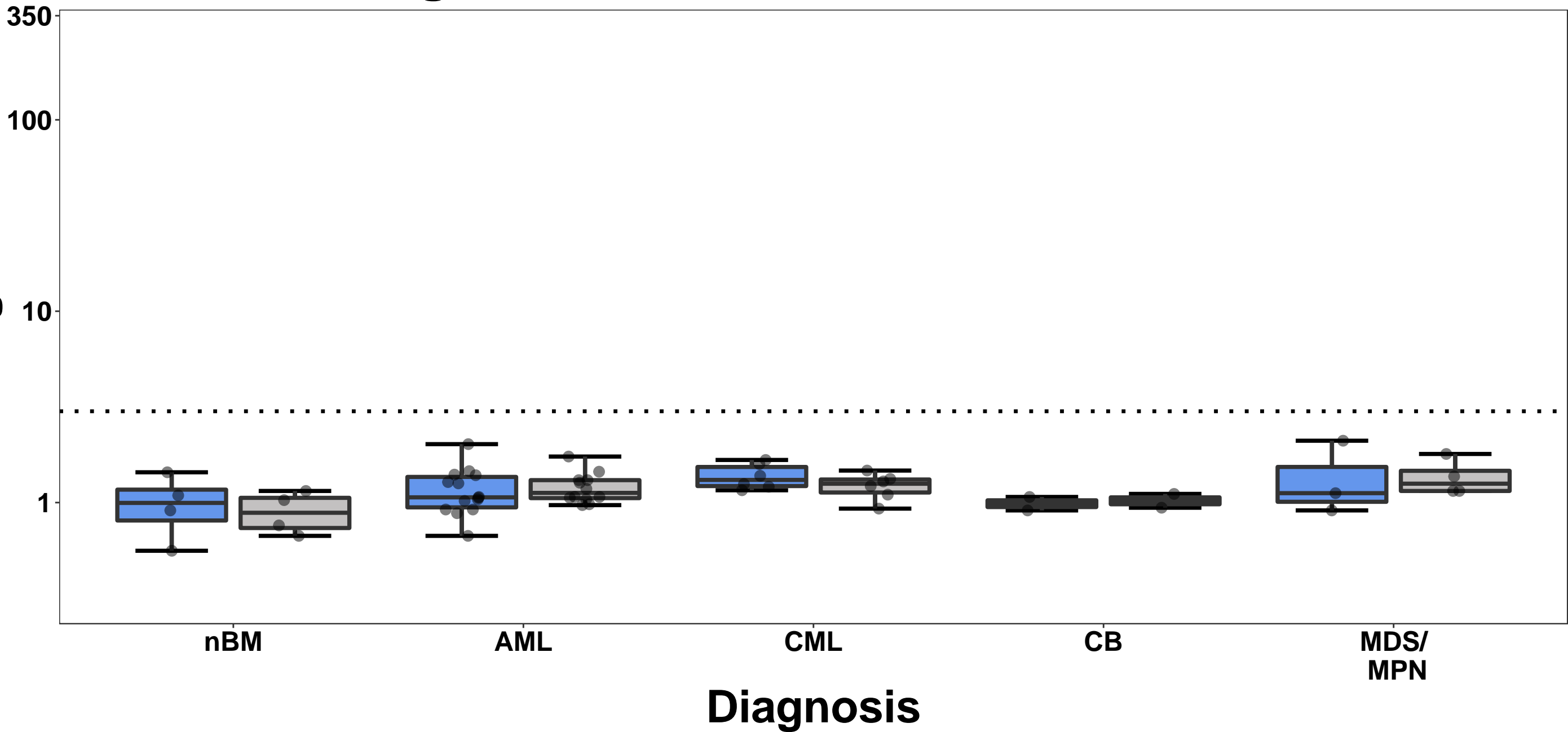
CD243 percentage





CD252 staining index

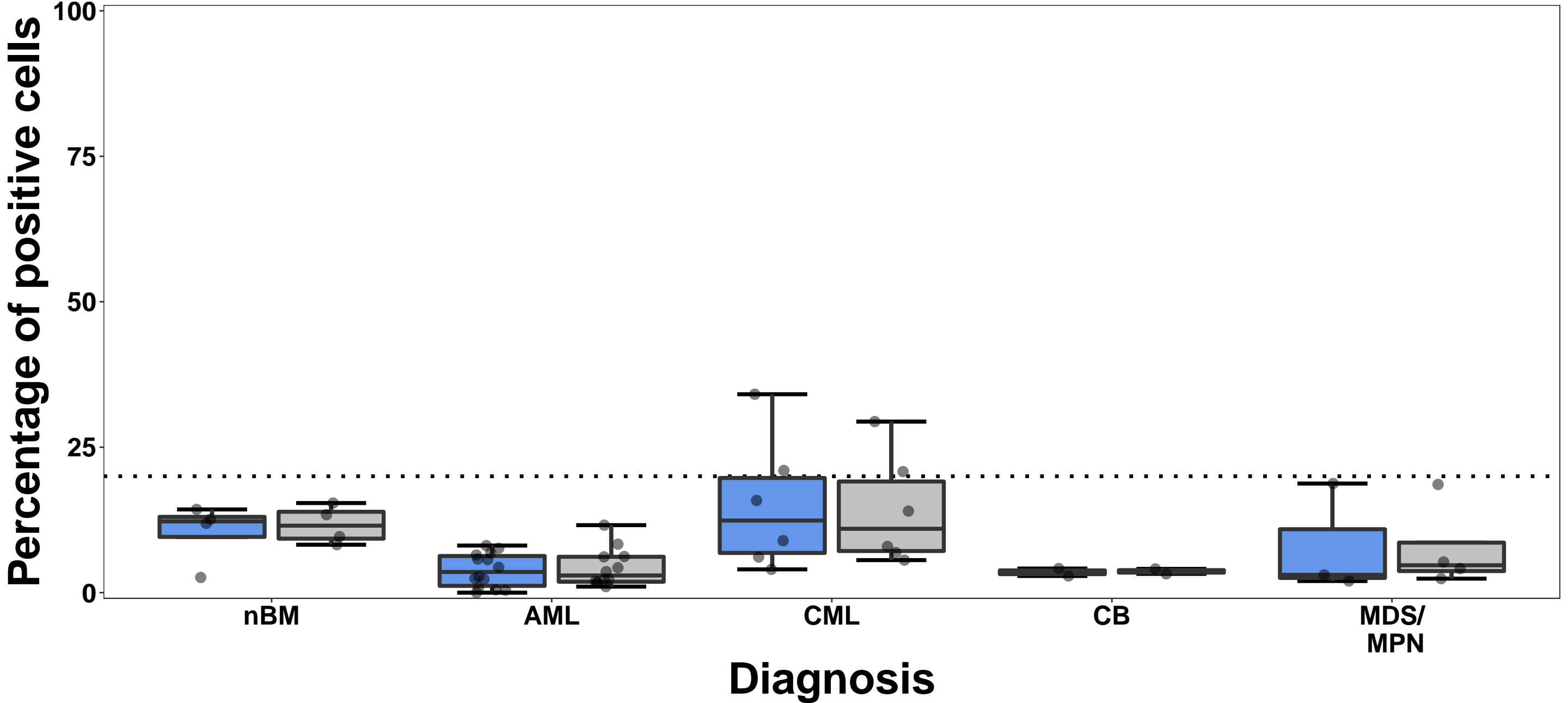
Cell fraction  CD34+/CD38-  CD34+/CD38+



Staining index



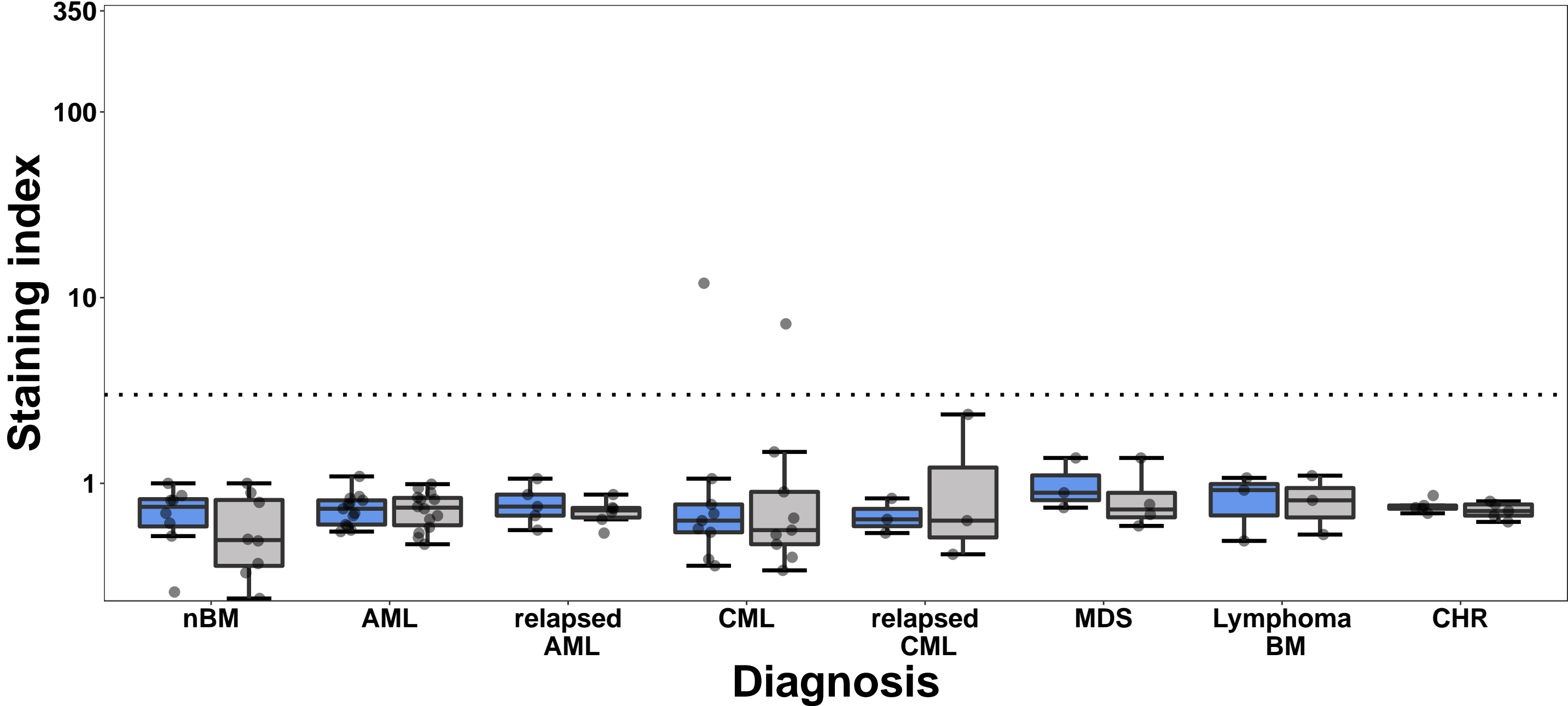
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD252 percentage



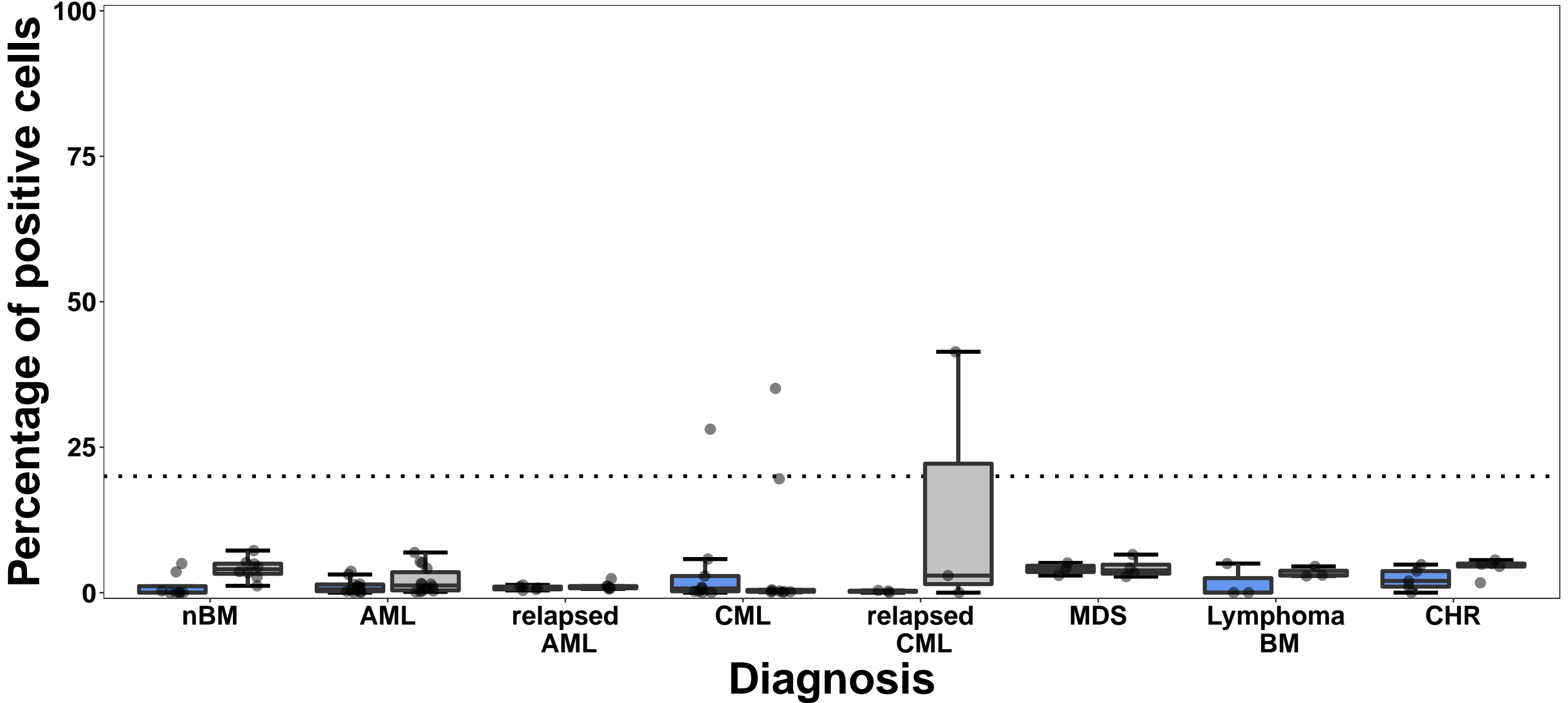
Cell fraction  CD34+/CD38-  CD34+/CD38+

CD271 staining index





Cell fraction  CD34+/CD38-  CD34+/CD38+

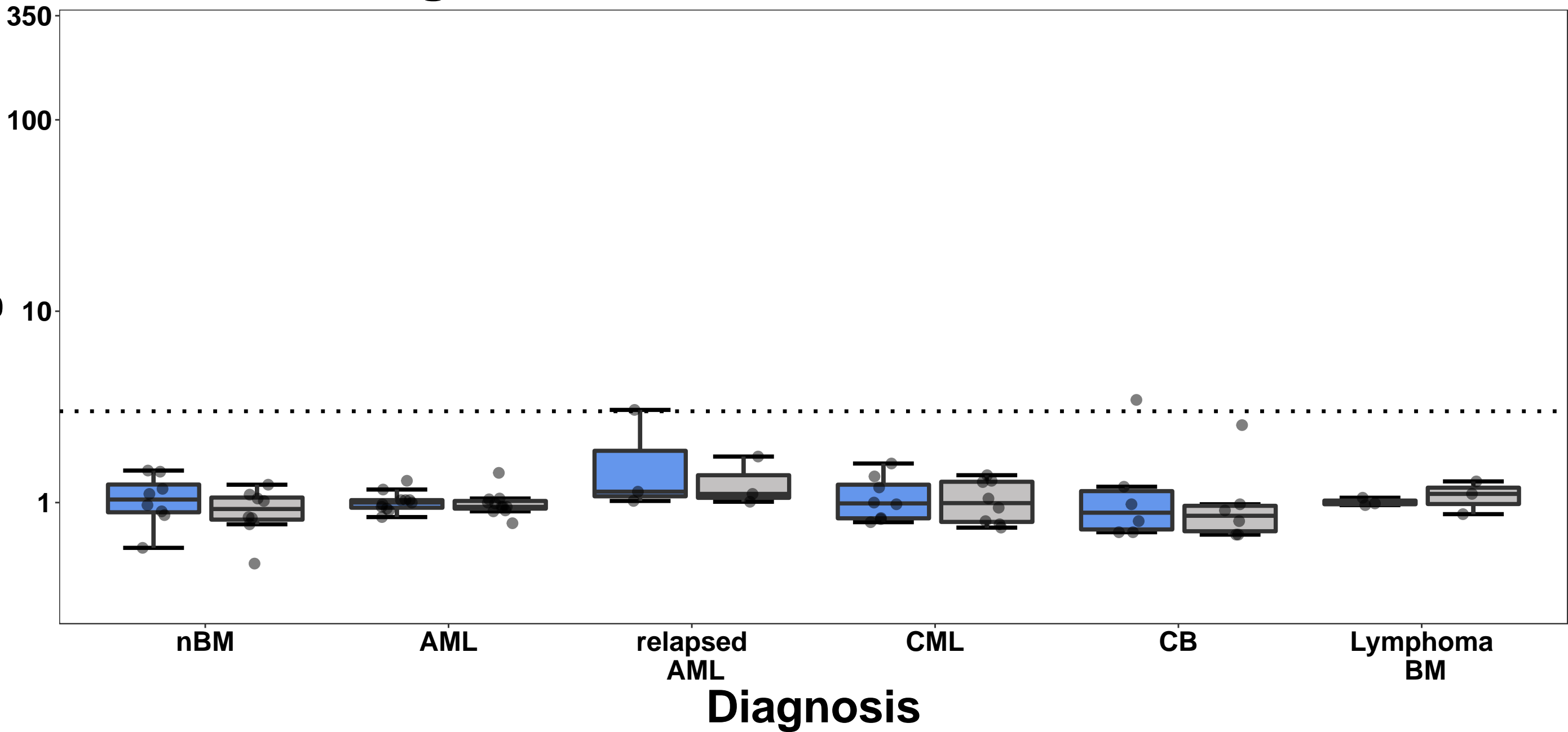
CD271 percentage





CD273 staining index

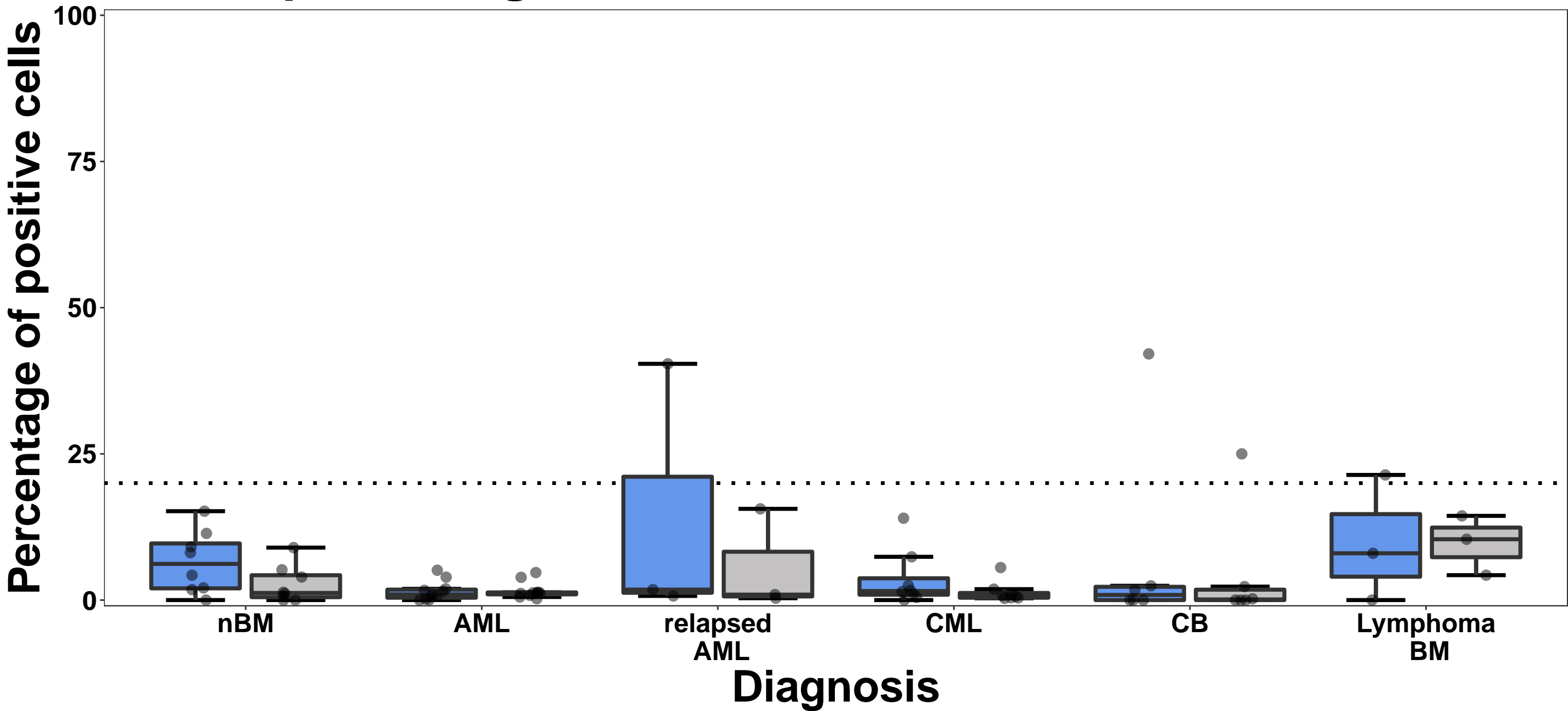
Cell fraction  CD34+/CD38-  CD34+/CD38+



Staining index



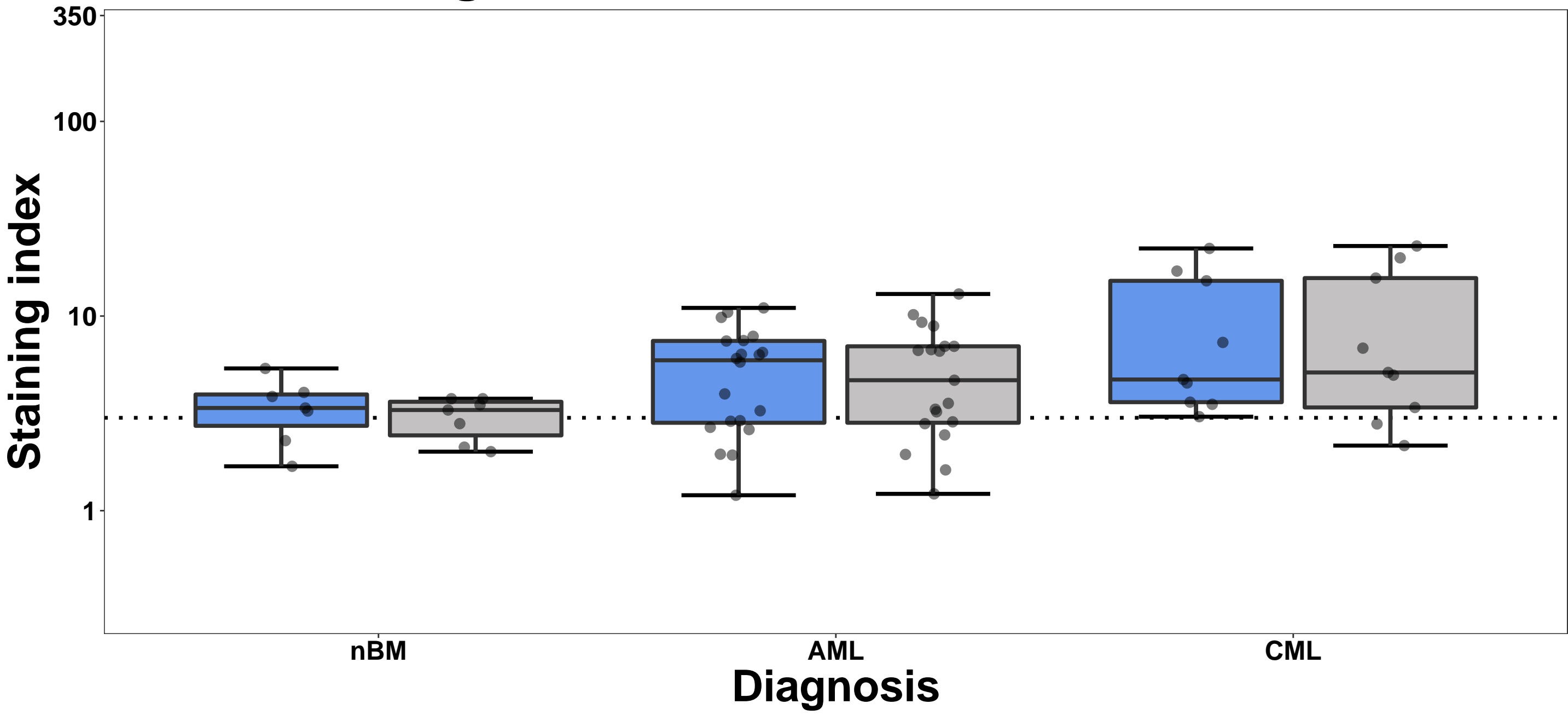
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD273 percentage



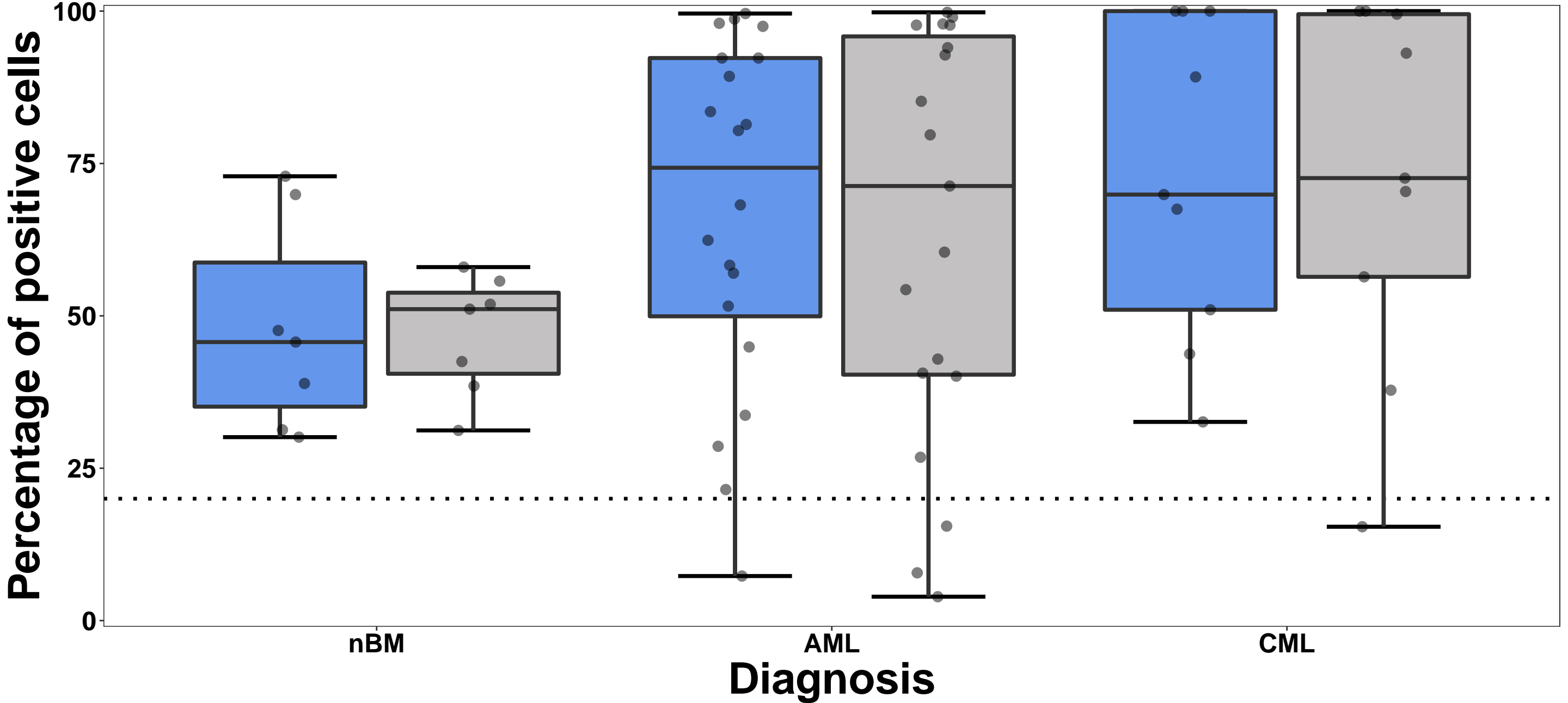
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD274 staining index



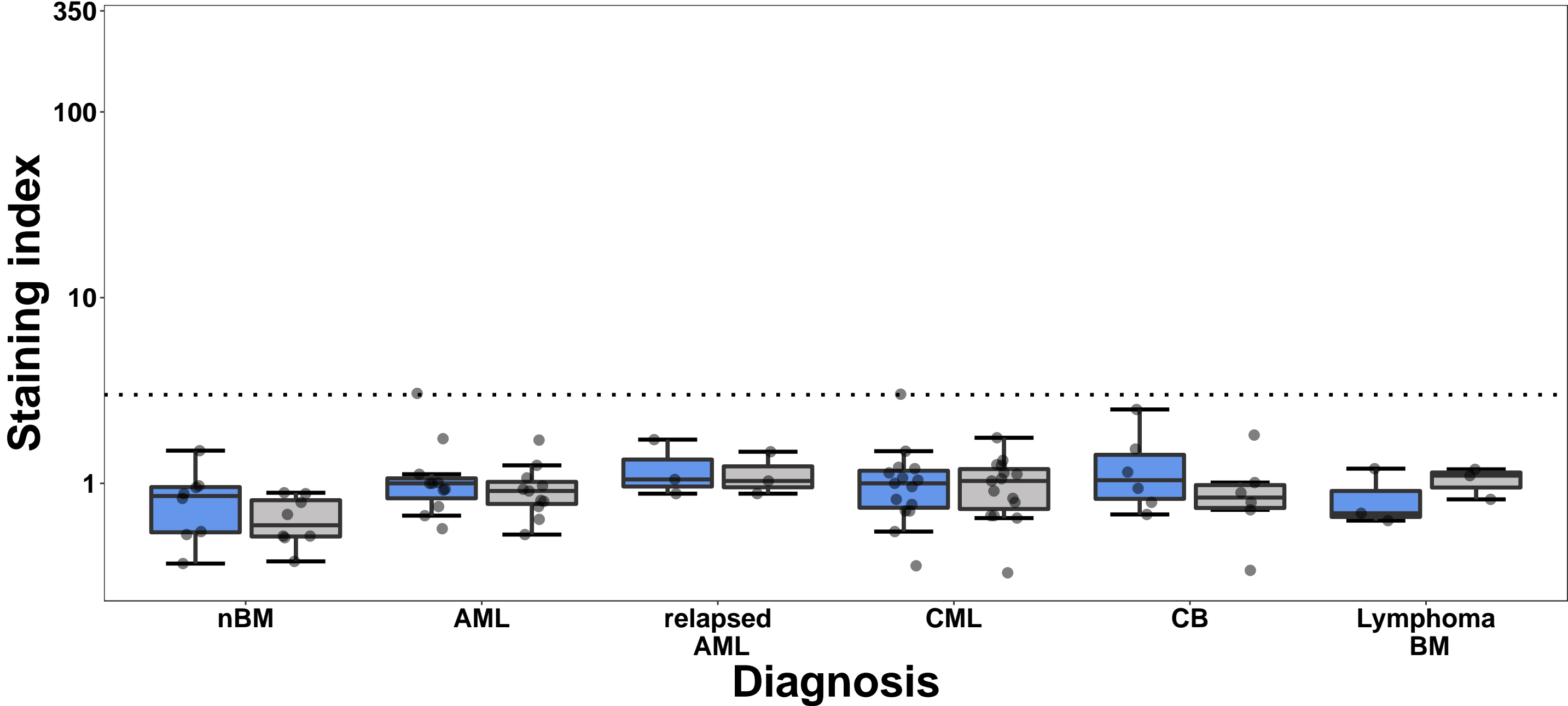
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD274 percentage



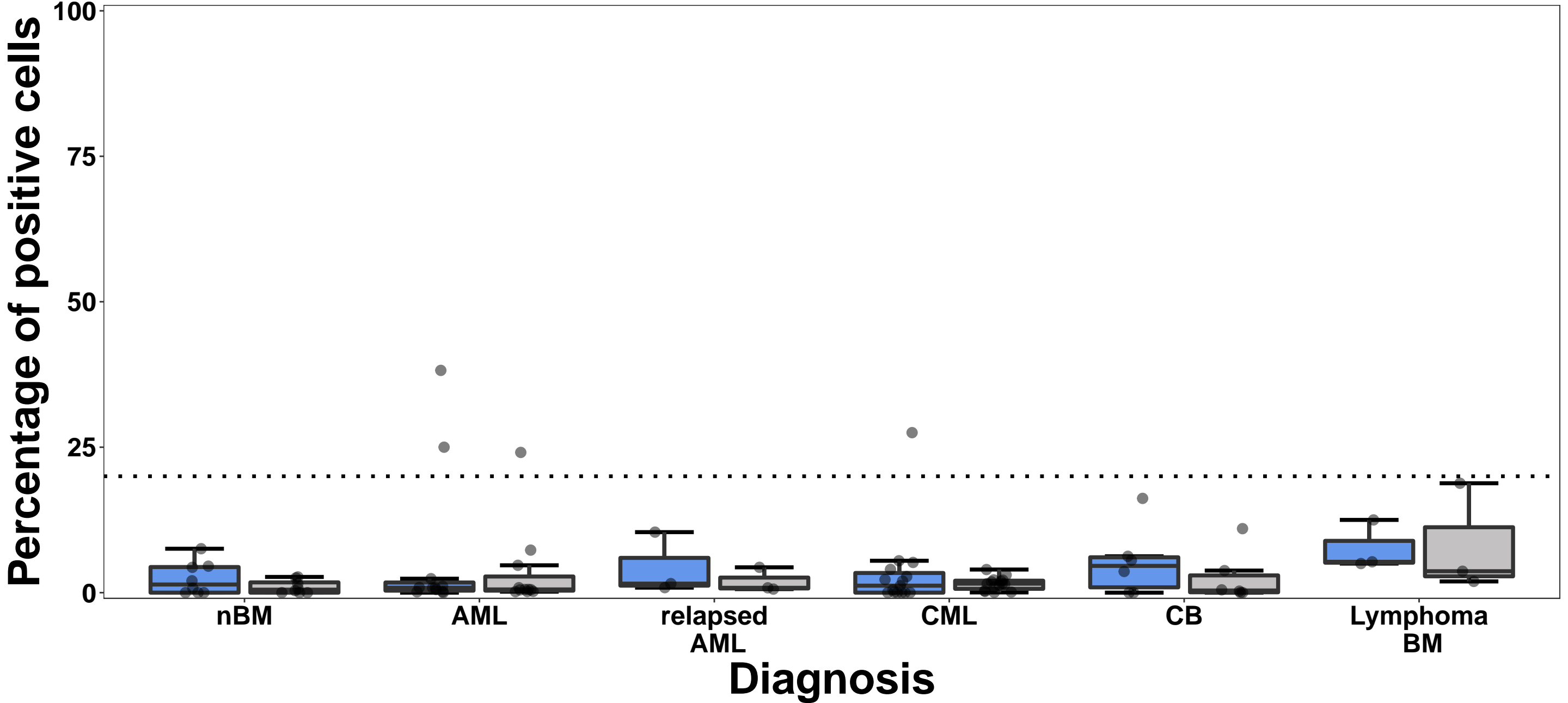
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD279 staining index



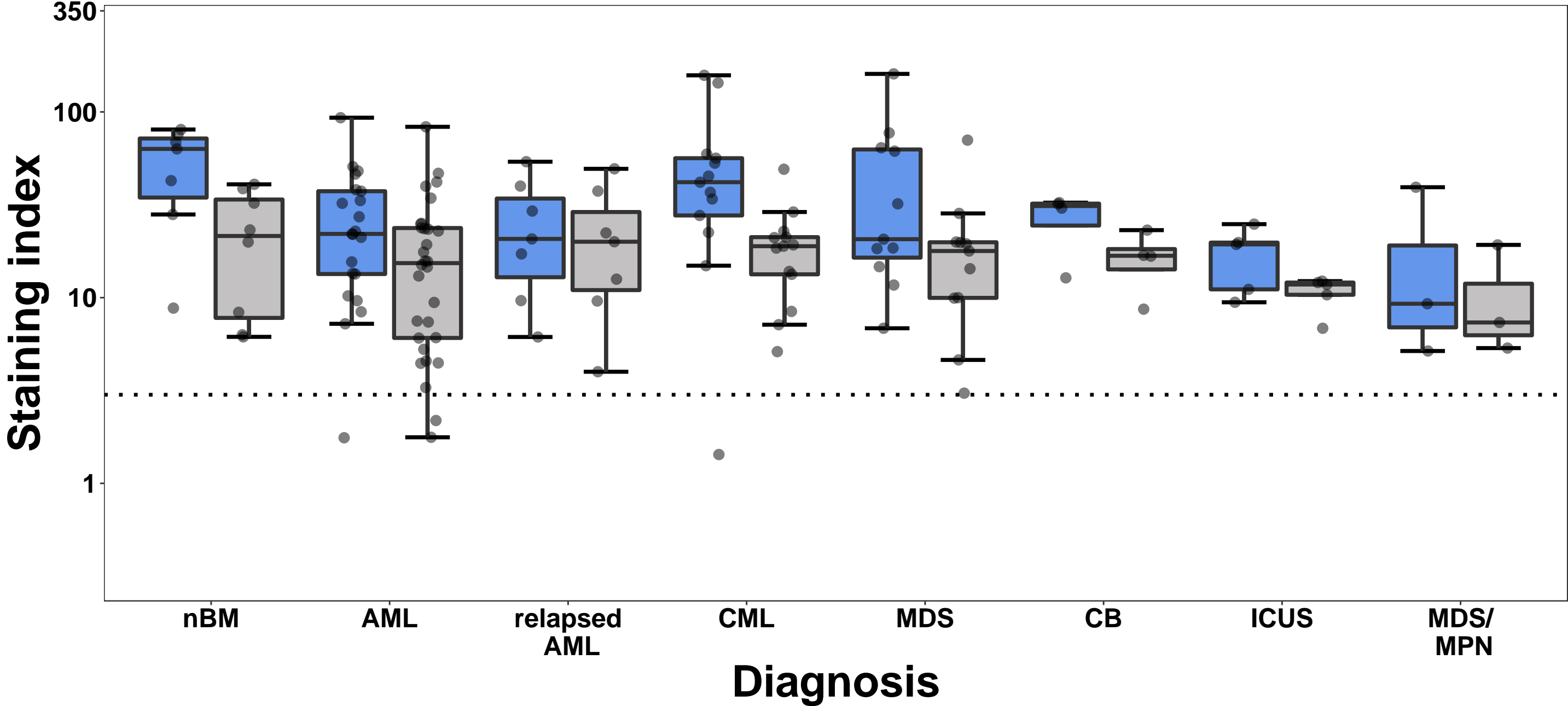
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD279 percentage



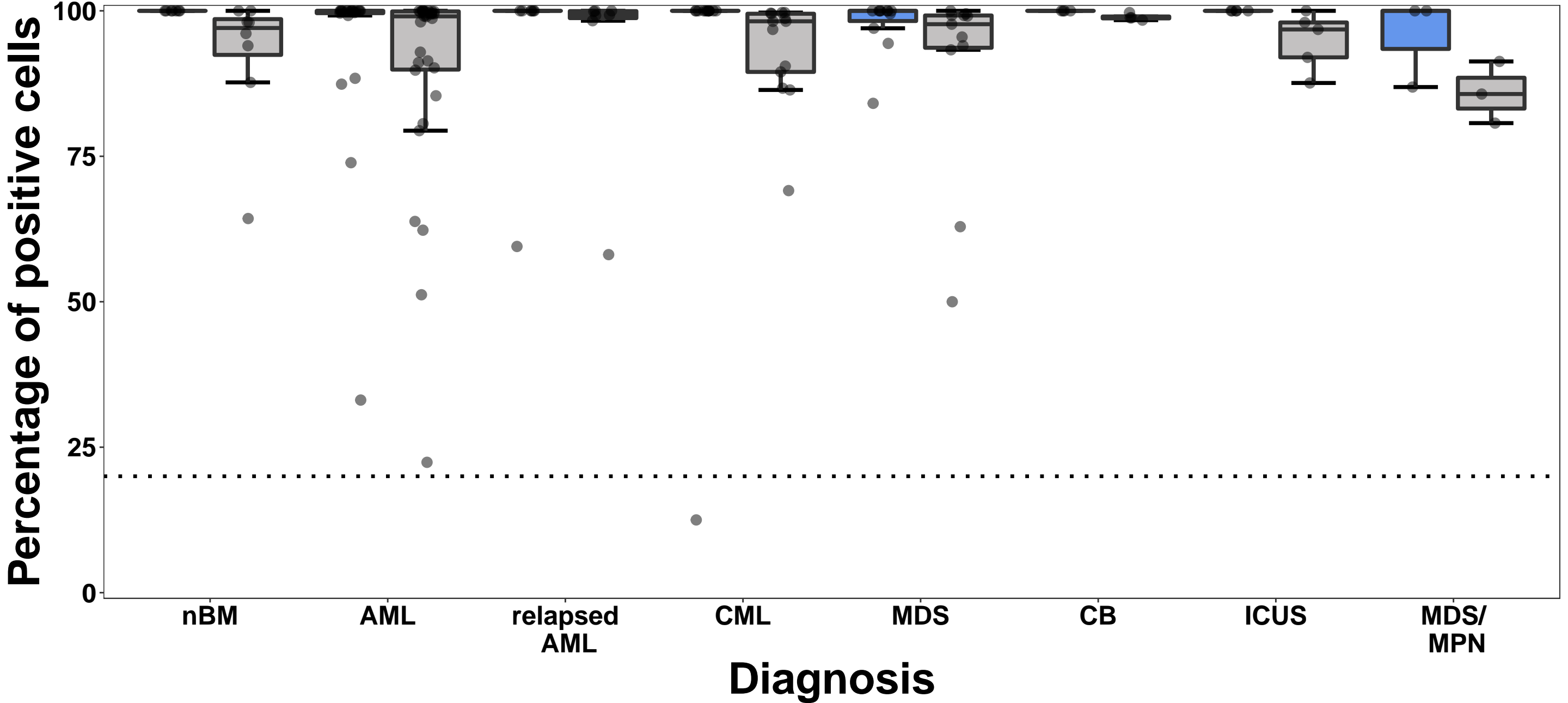
Cell fraction  CD34+/CD38-  CD34+/CD38+

CD300a staining index





Cell fraction  CD34+/CD38-  CD34+/CD38+

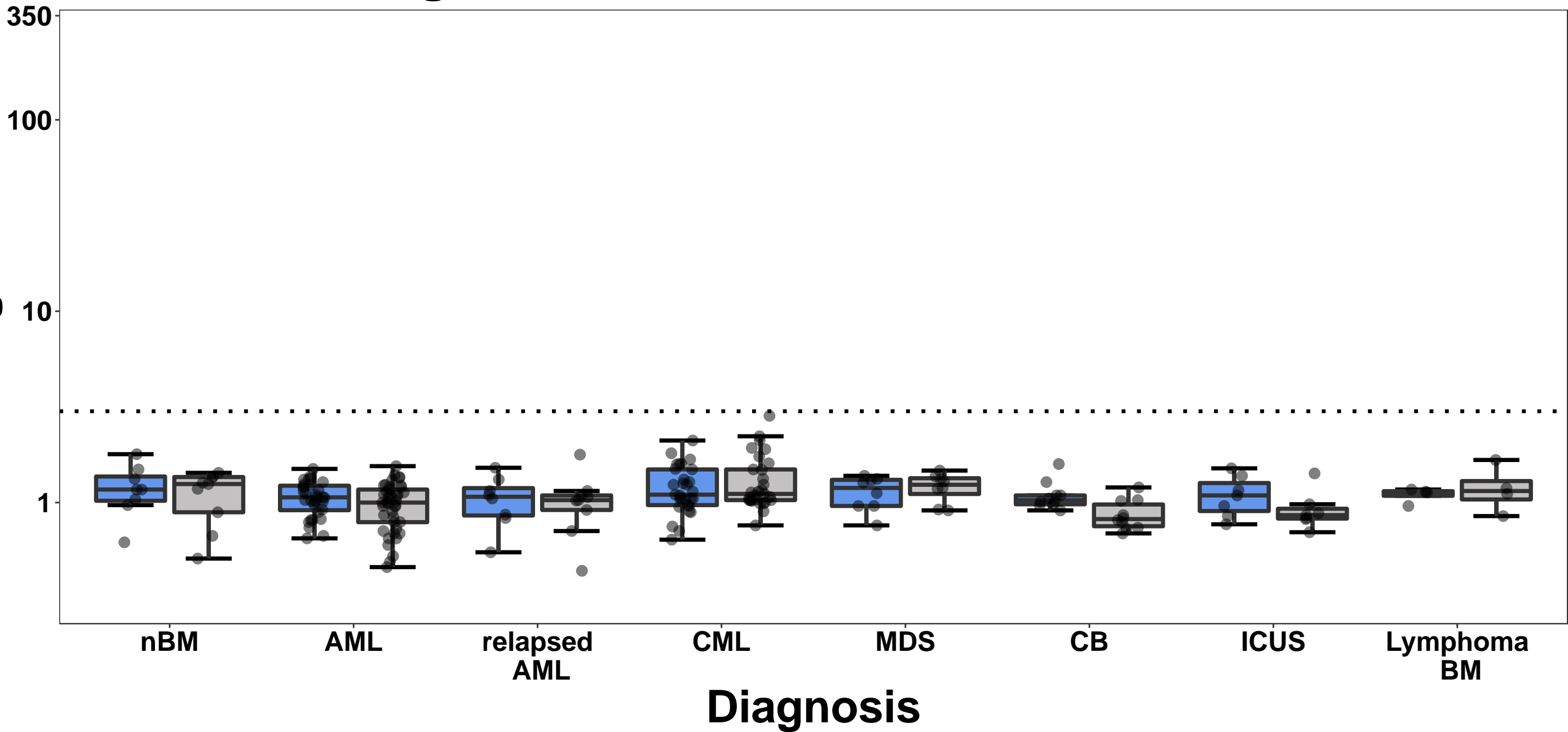
CD300a percentage





CD309 staining index

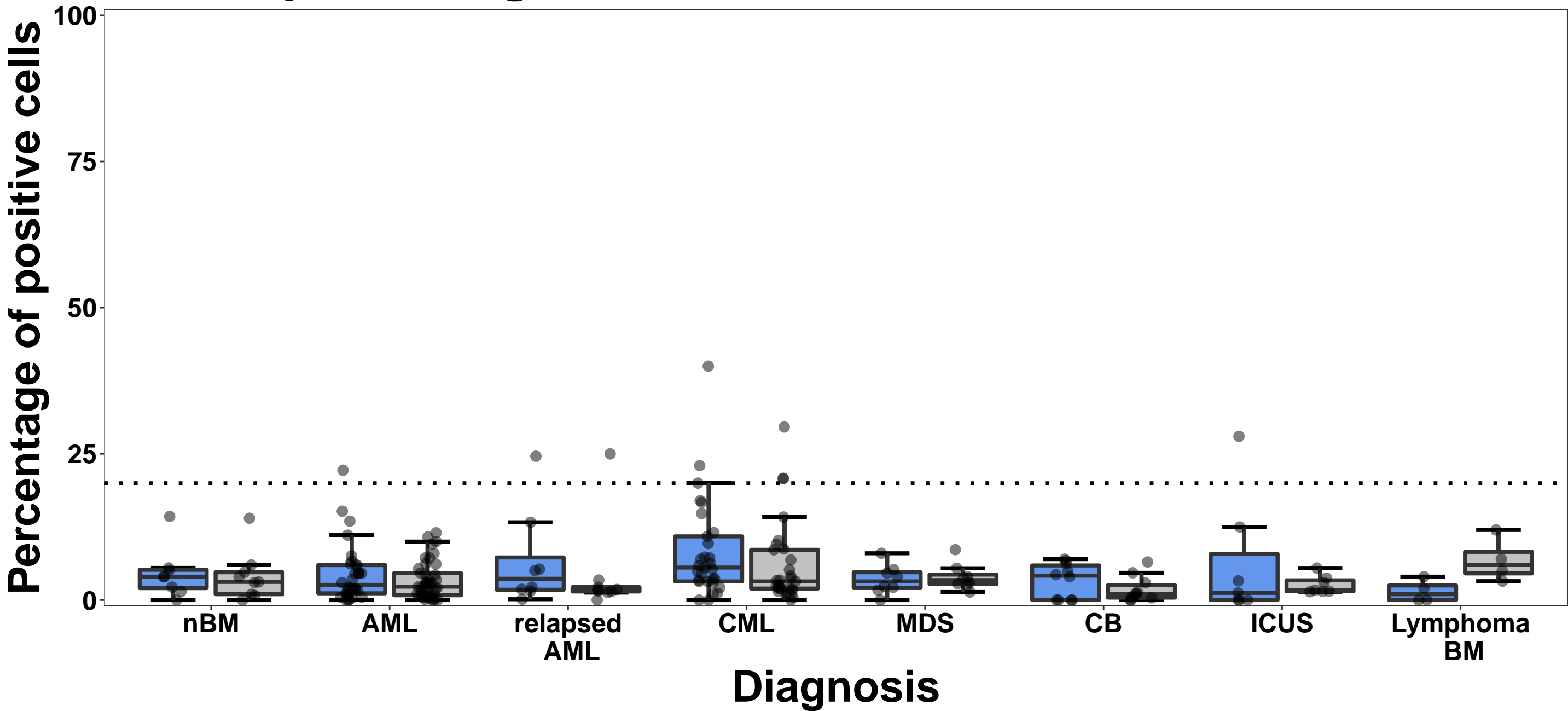
Cell fraction  CD34+/CD38-  CD34+/CD38+

Staining index





Cell fraction  CD34+/CD38-  CD34+/CD38+

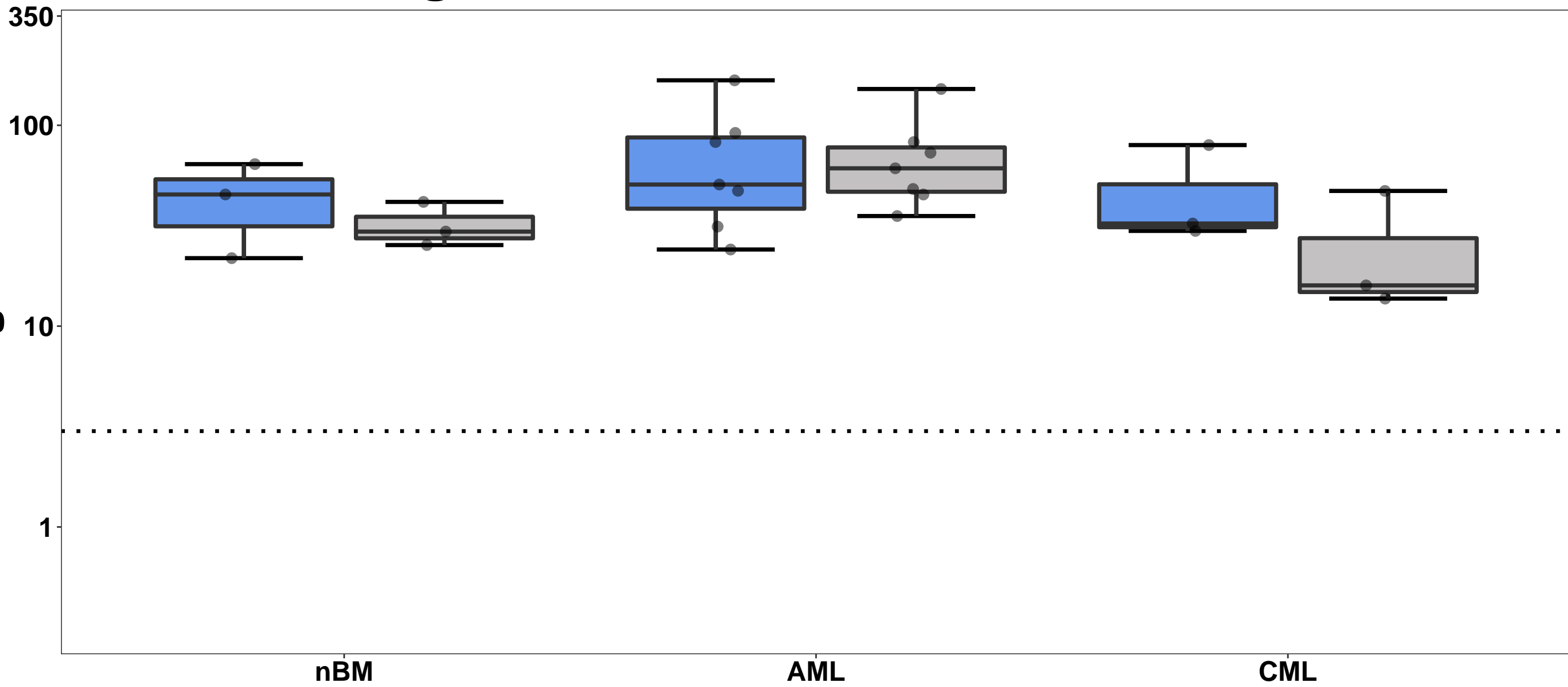
CD309 percentage

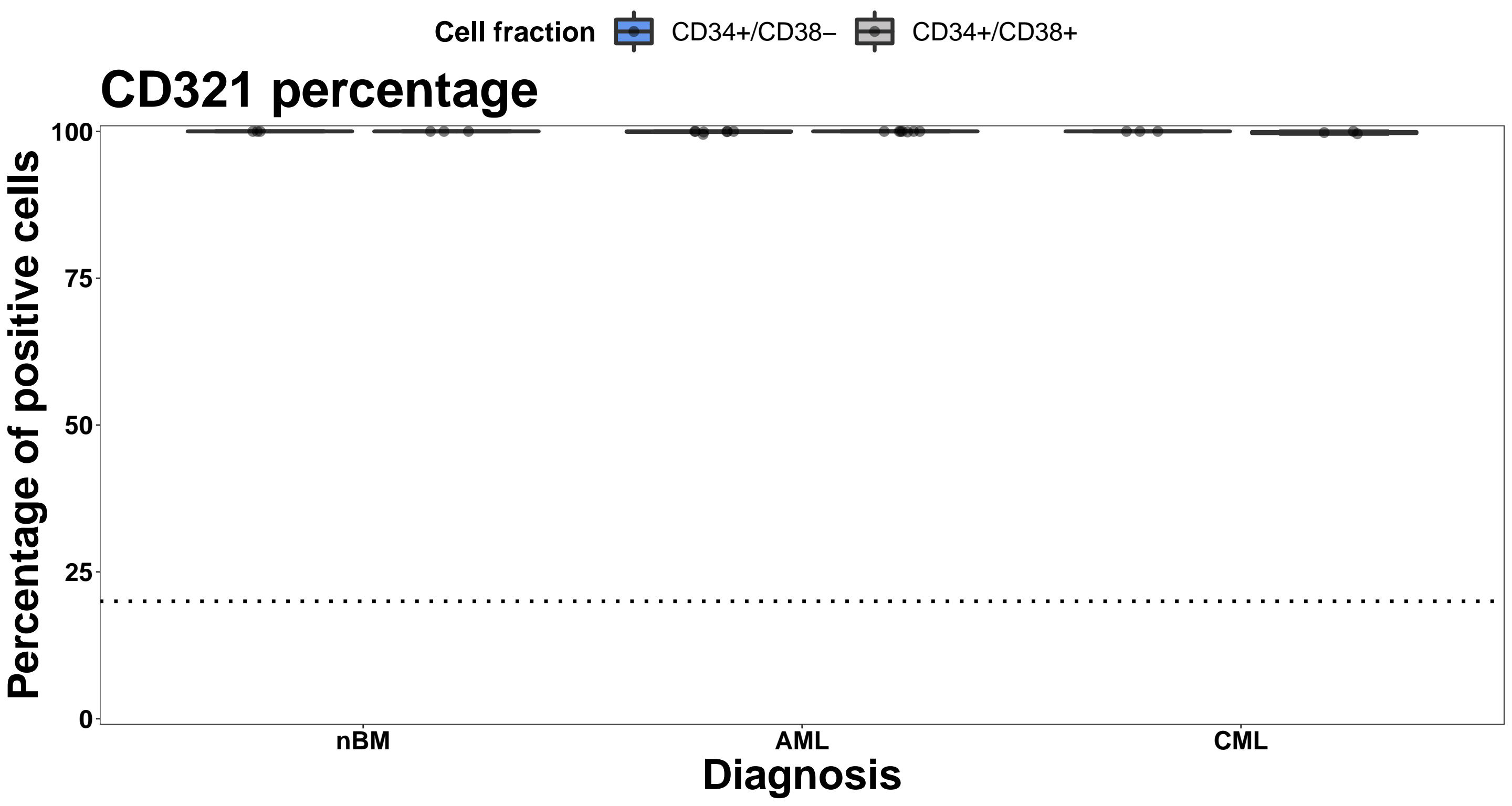




CD321 staining index

Cell fraction  CD34+/CD38-  CD34+/CD38+

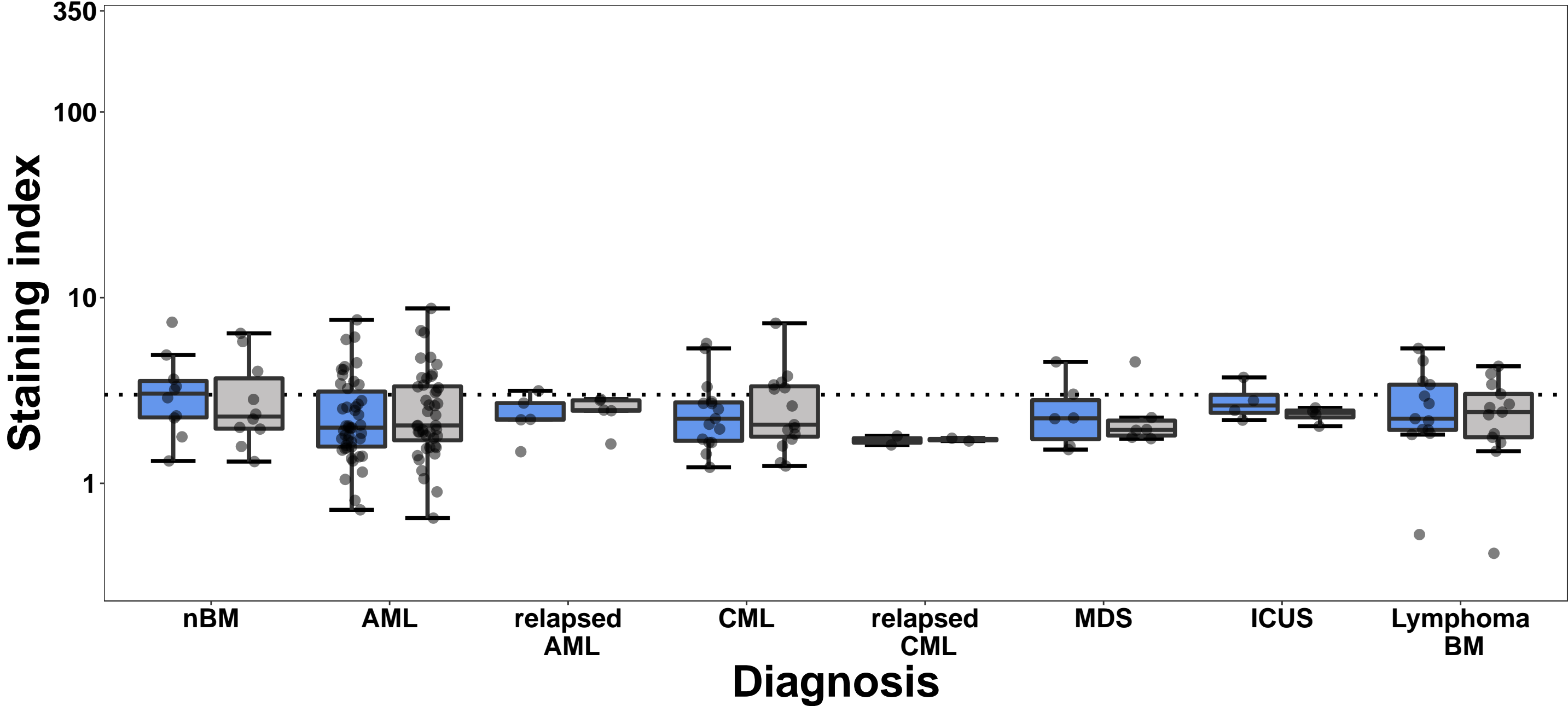
Staining index







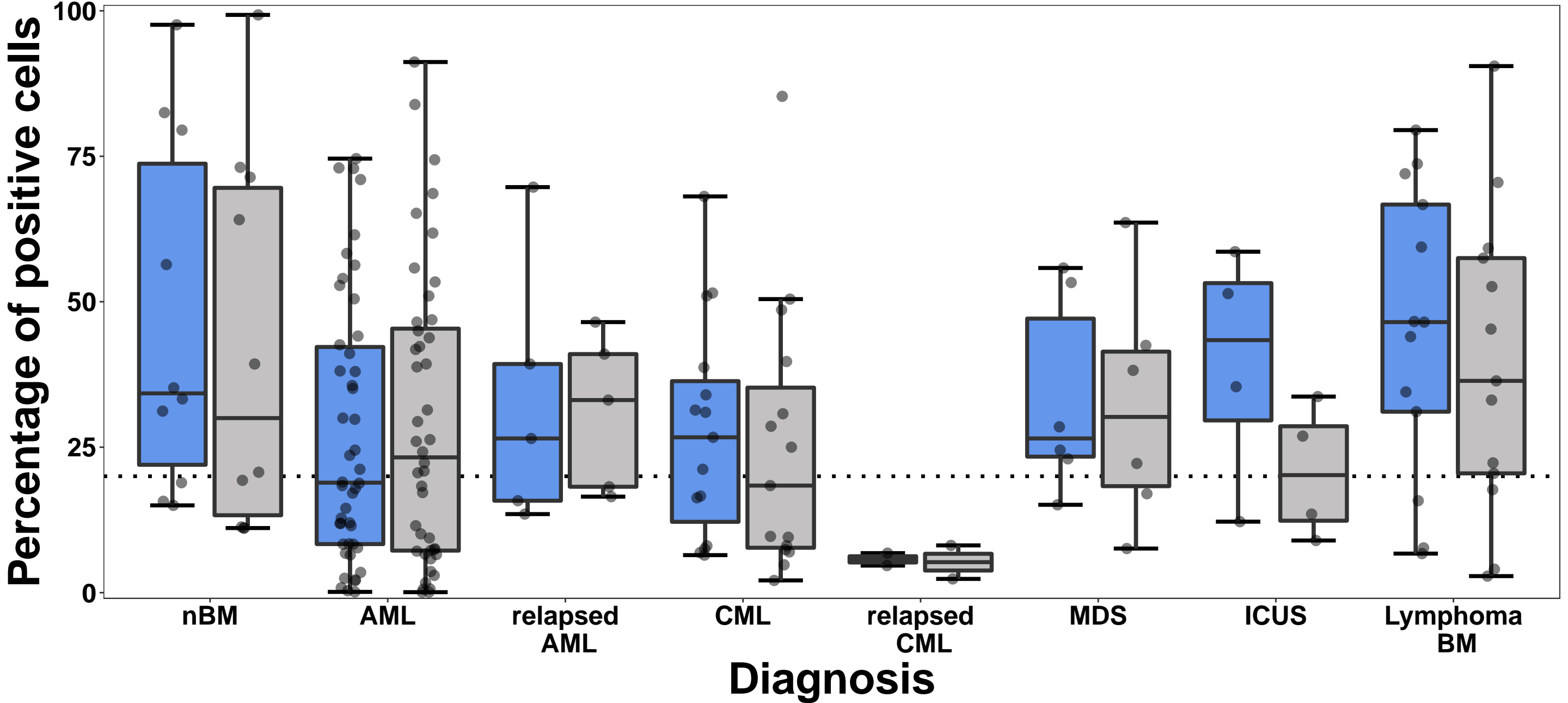
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD325 staining index



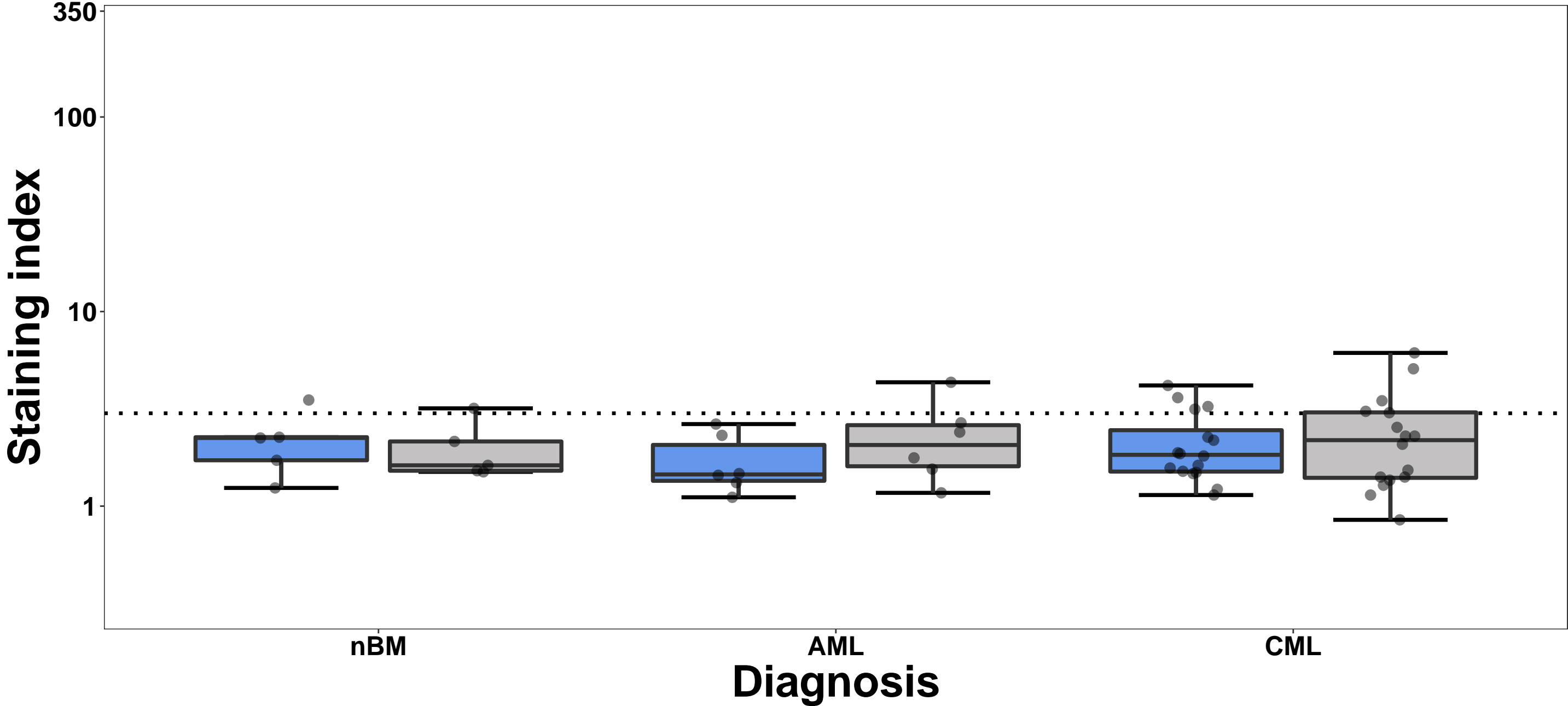
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD325 percentage



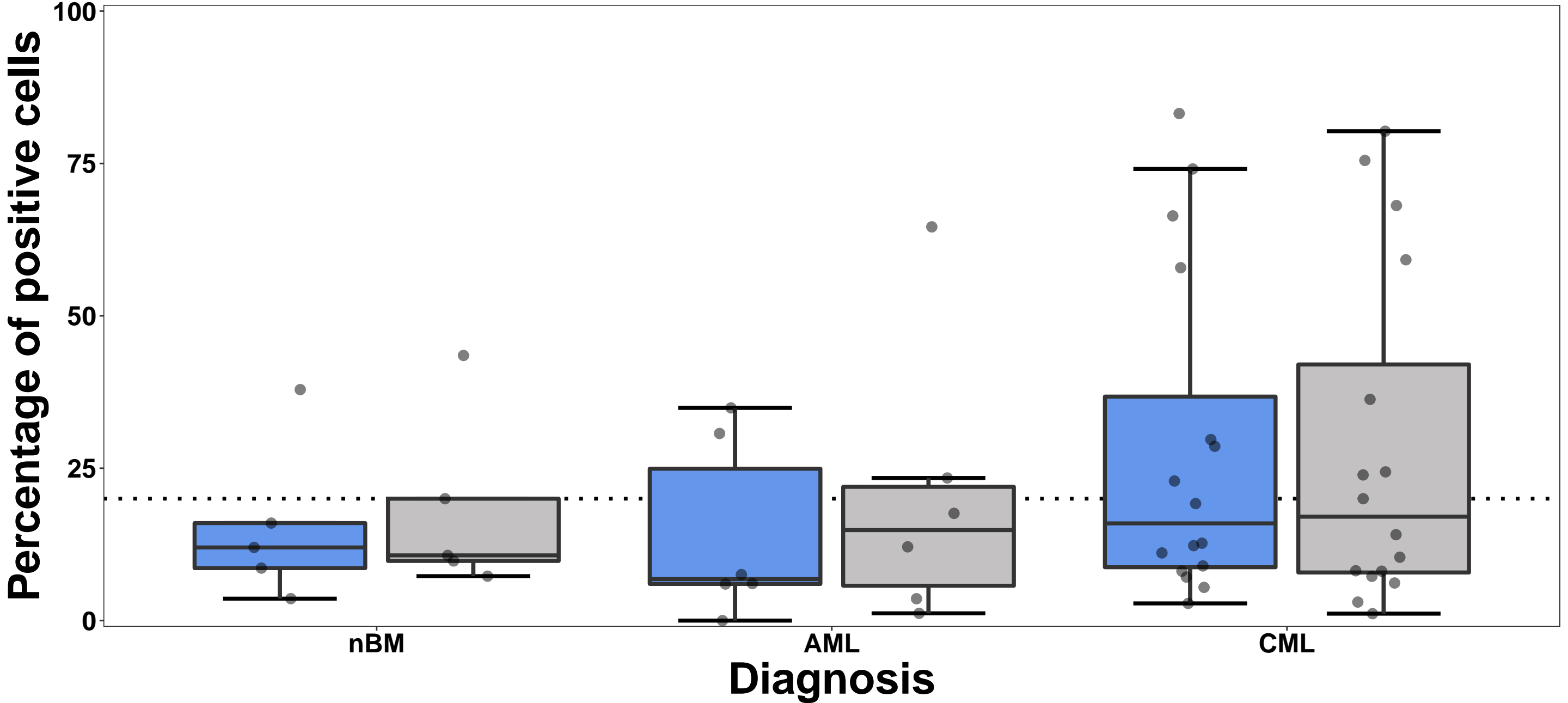
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD332 staining index



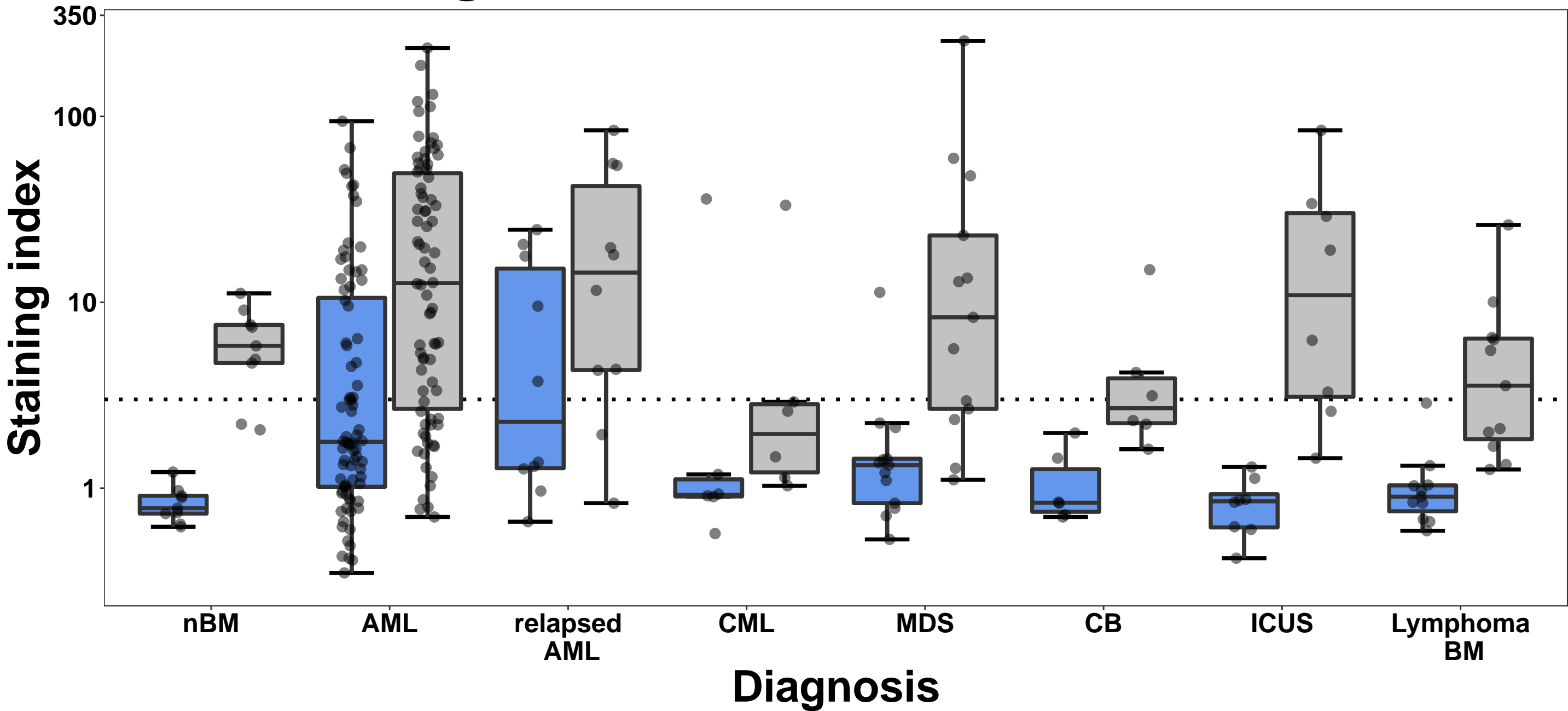
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD332 percentage



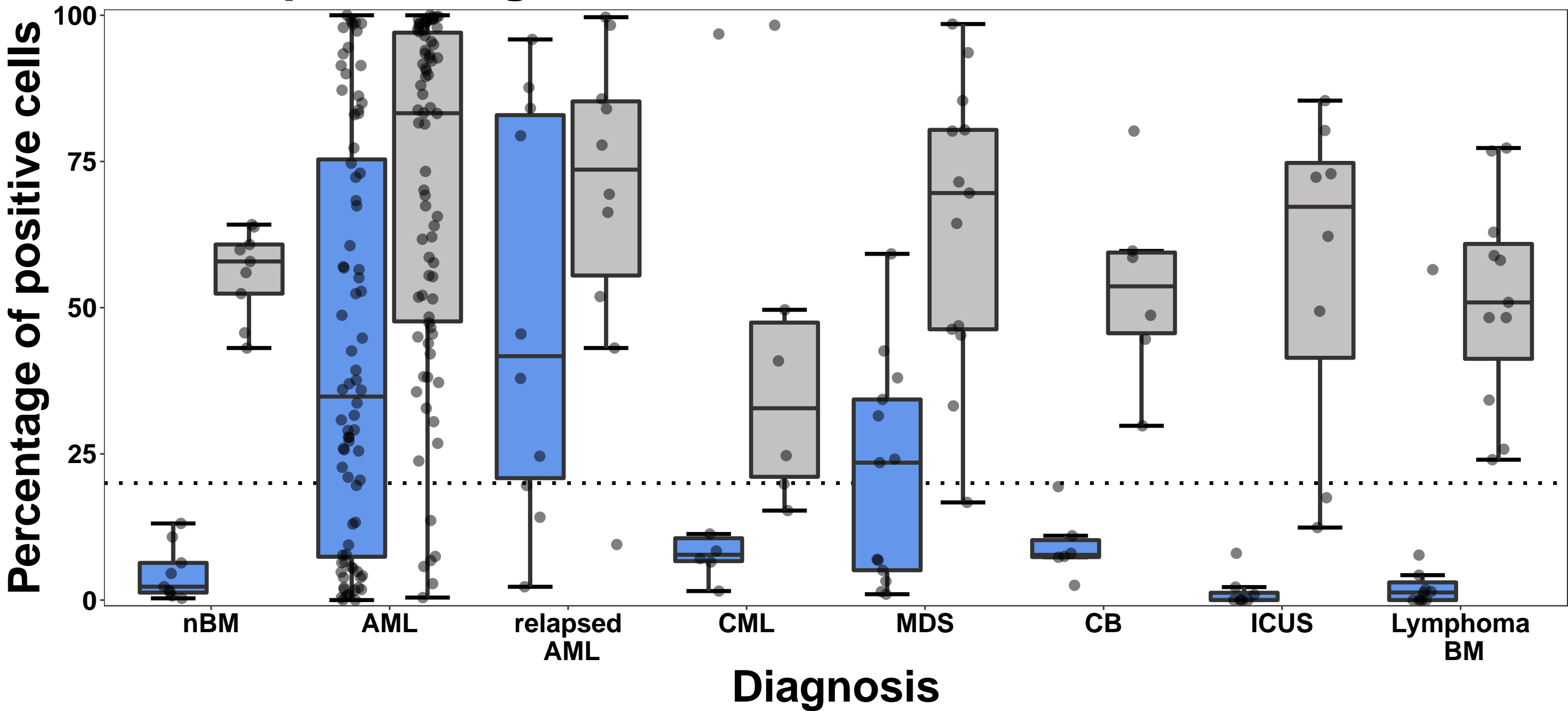
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD371 staining index



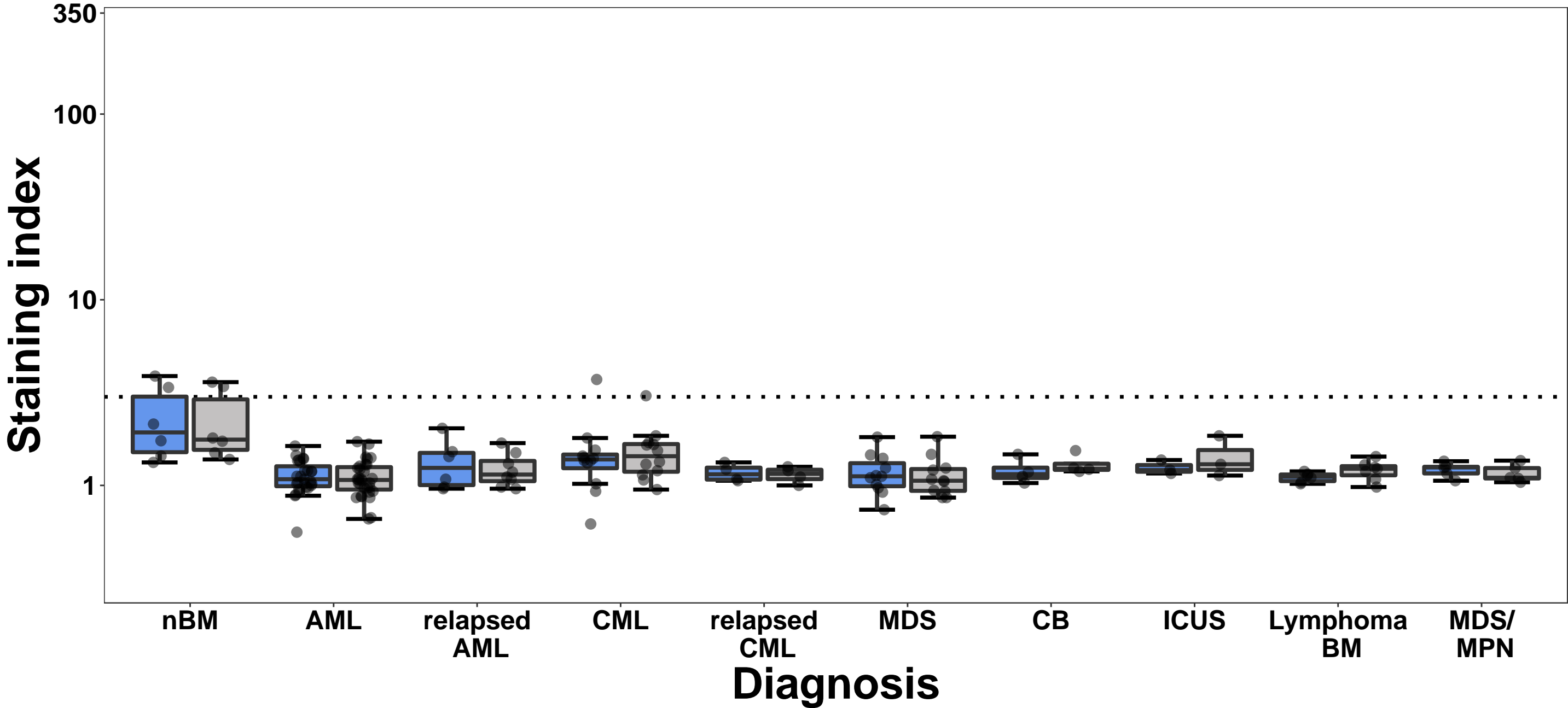
Cell fraction  CD34+/CD38-  CD34+/CD38+



CD371 percentage



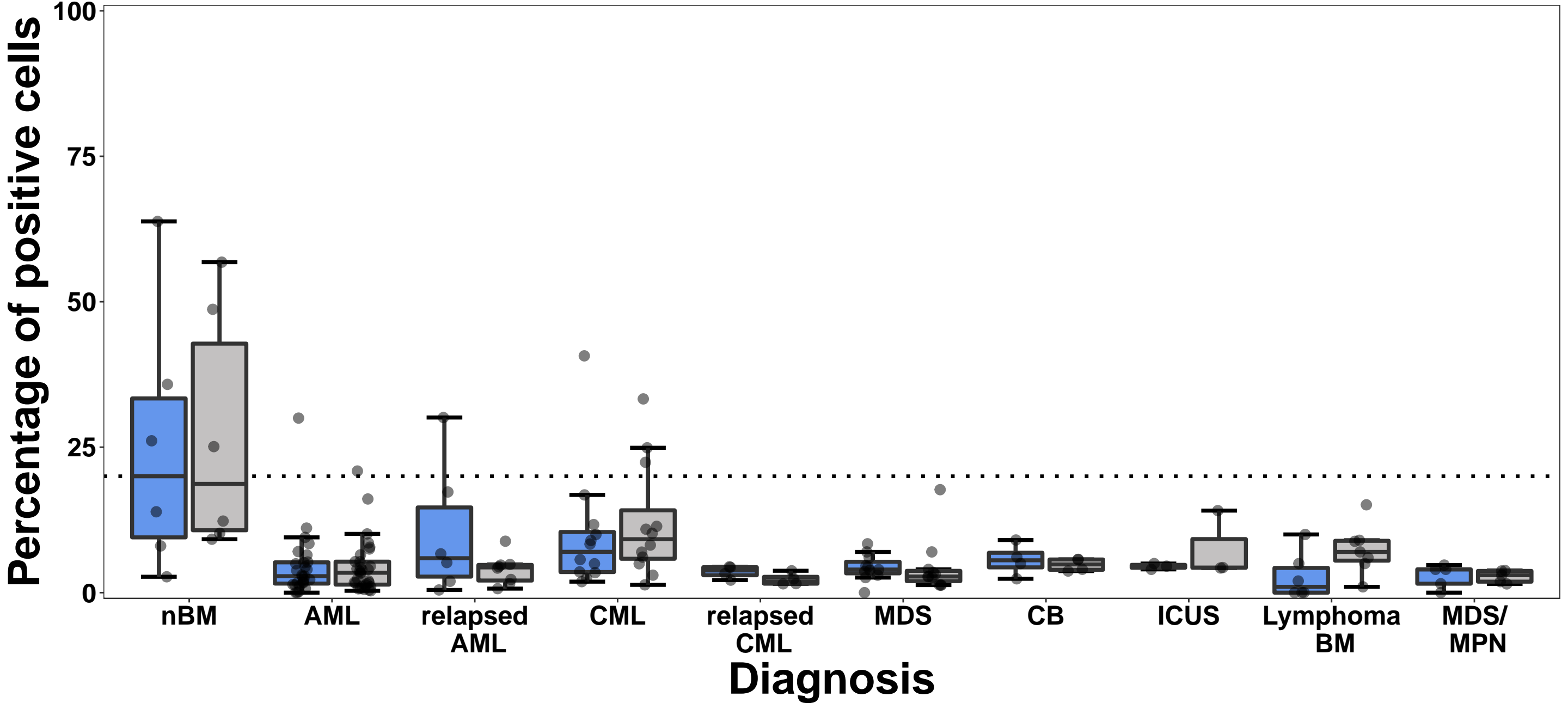
Cell fraction  CD34+/CD38-  CD34+/CD38+



EPOR staining index



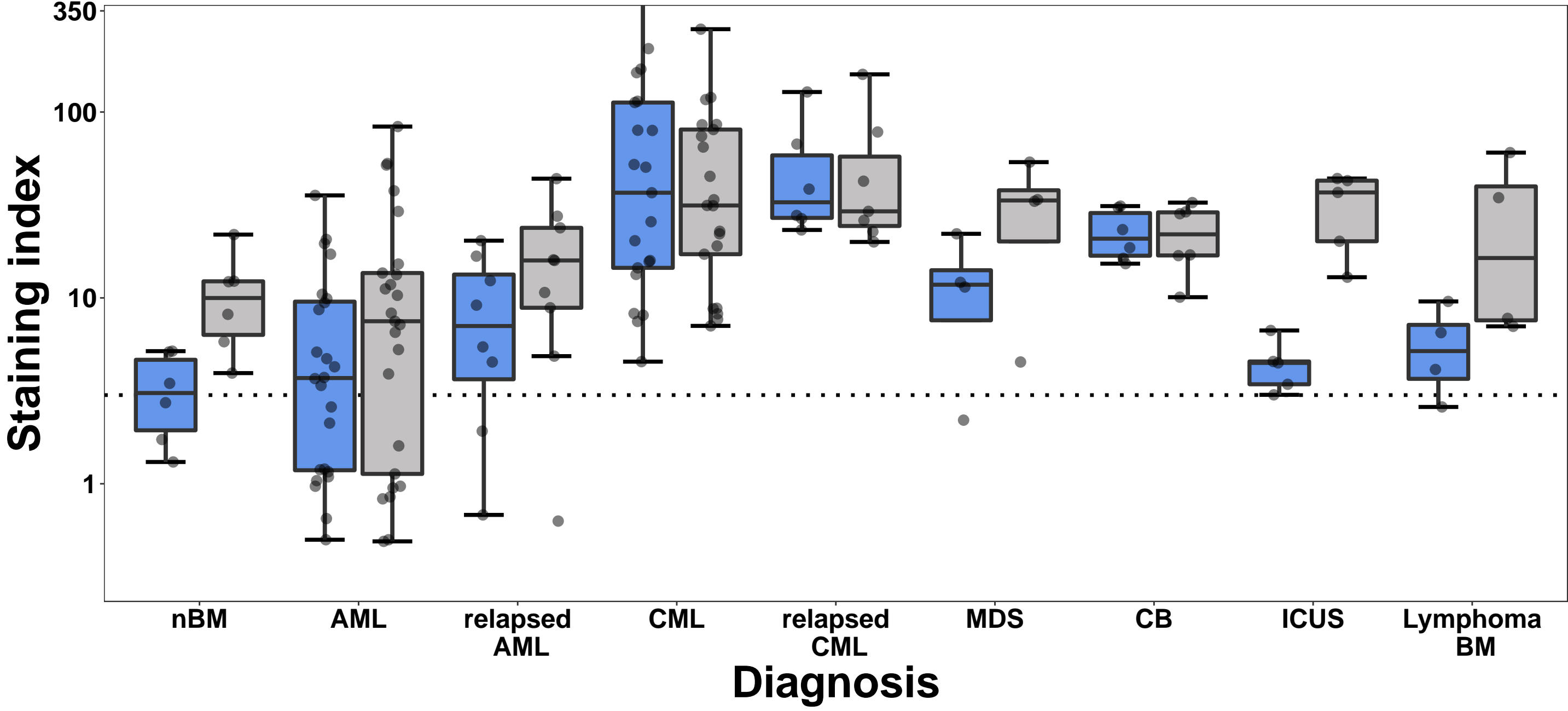
Cell fraction  CD34+/CD38-  CD34+/CD38+



EPOR percentage



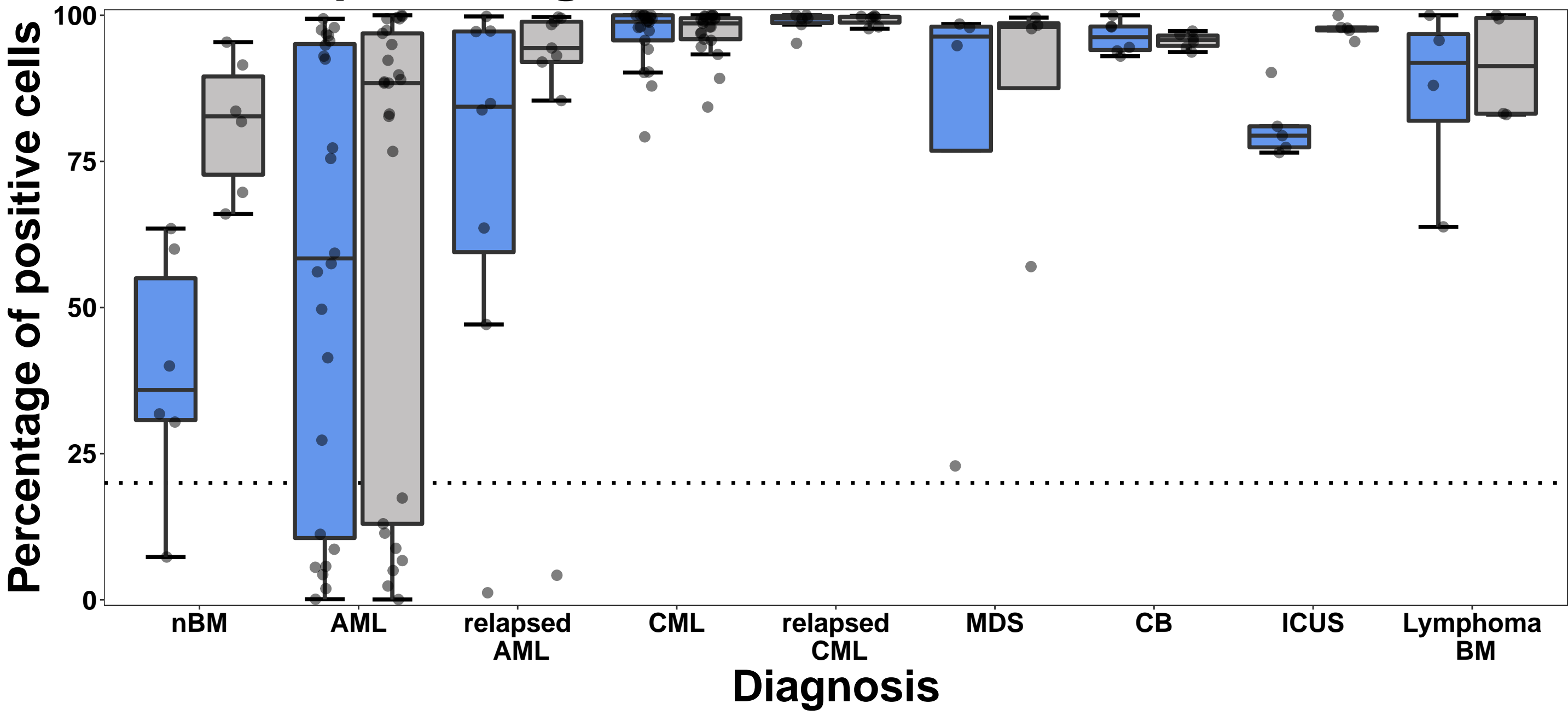
Cell fraction  CD34+/CD38-  CD34+/CD38+



HLA-DR staining index



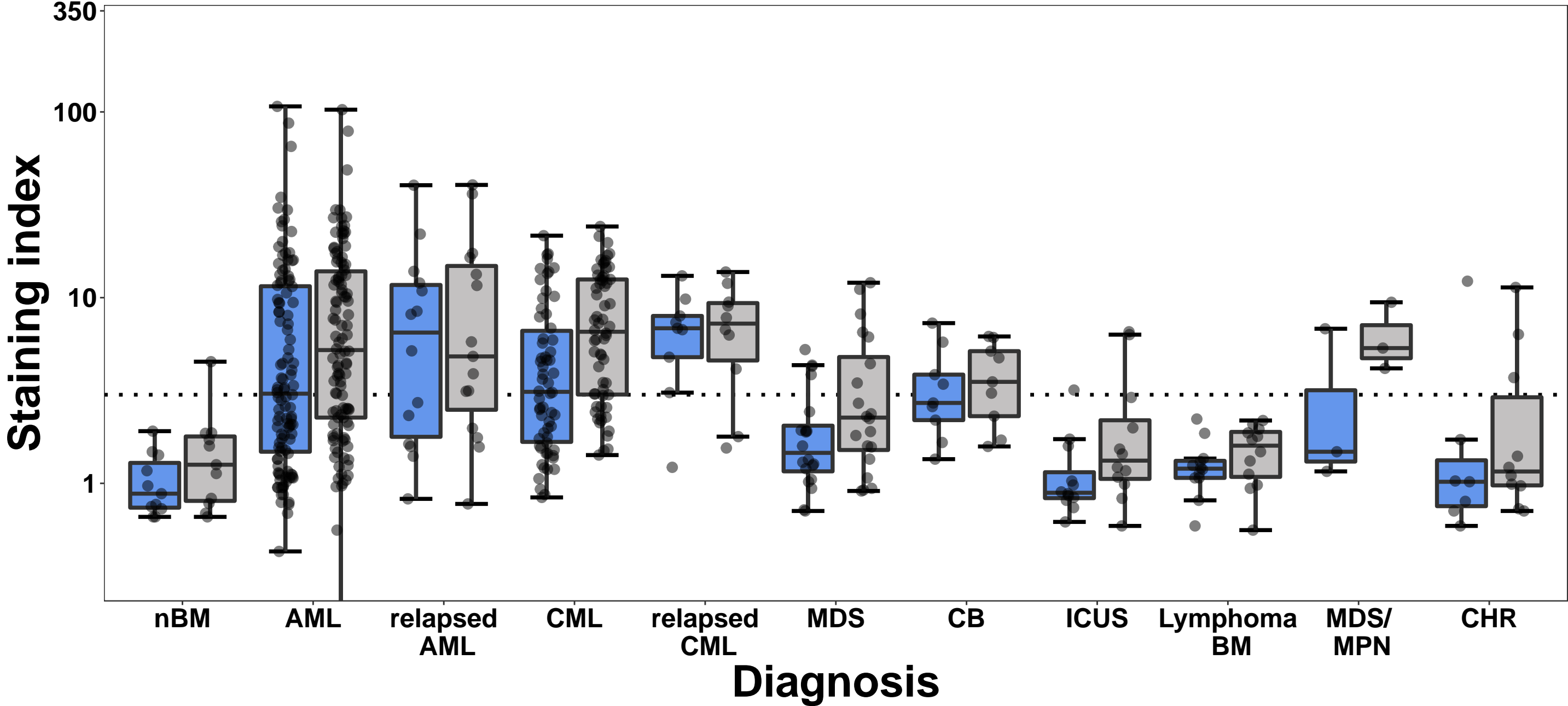
Cell fraction  CD34+/CD38-  CD34+/CD38+



HLA-DR percentage



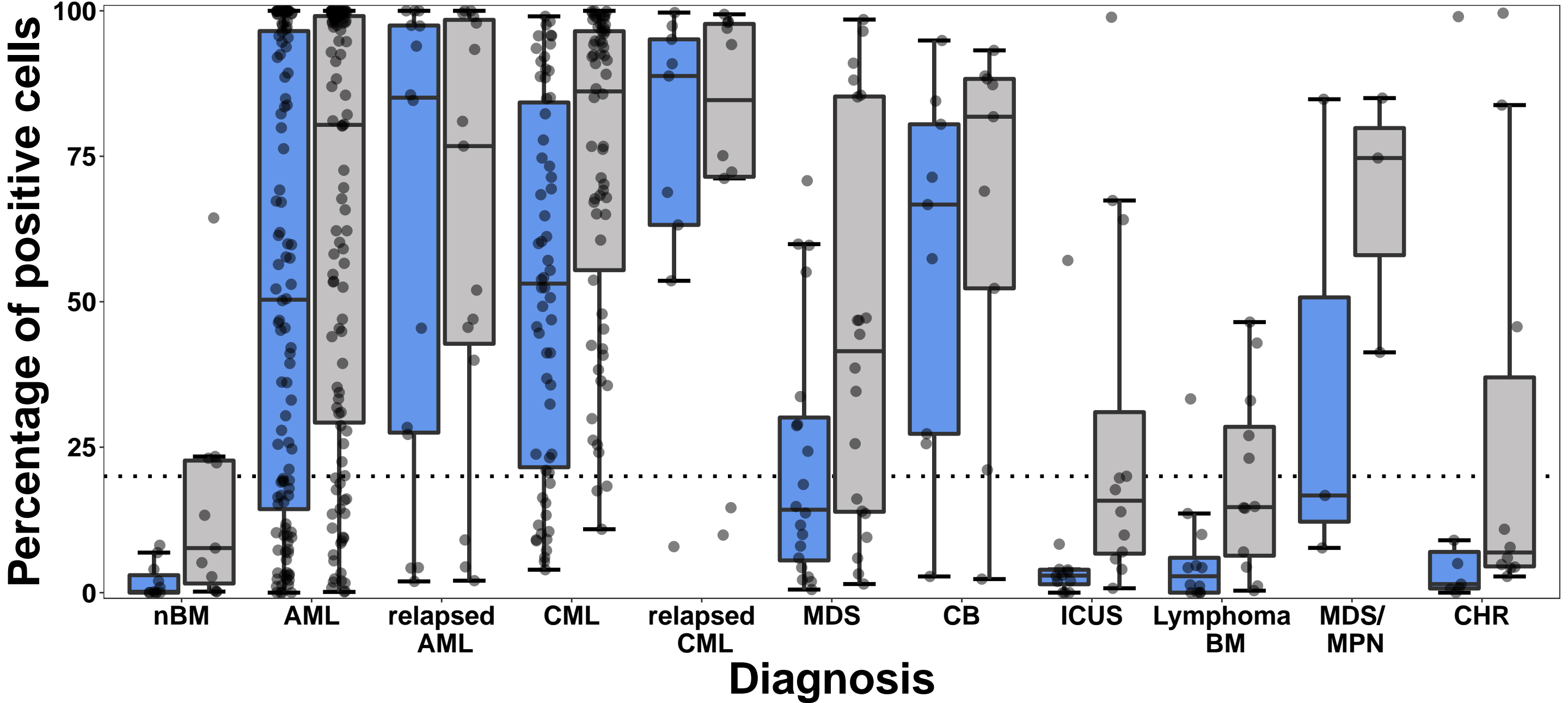
Cell fraction  CD34+/CD38-  CD34+/CD38+



IL-1RAP staining index



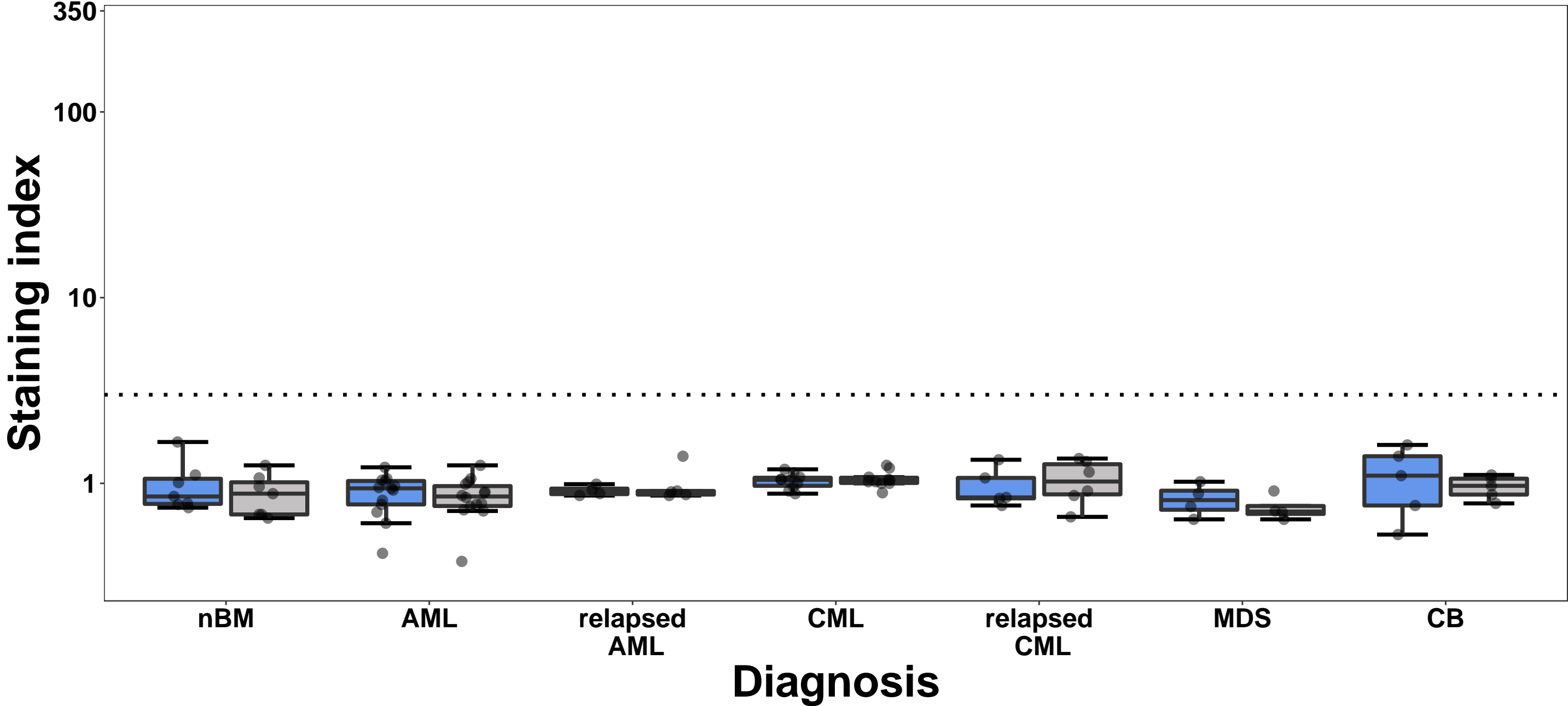
Cell fraction  CD34+/CD38-  CD34+/CD38+



IL-1RAP percentage



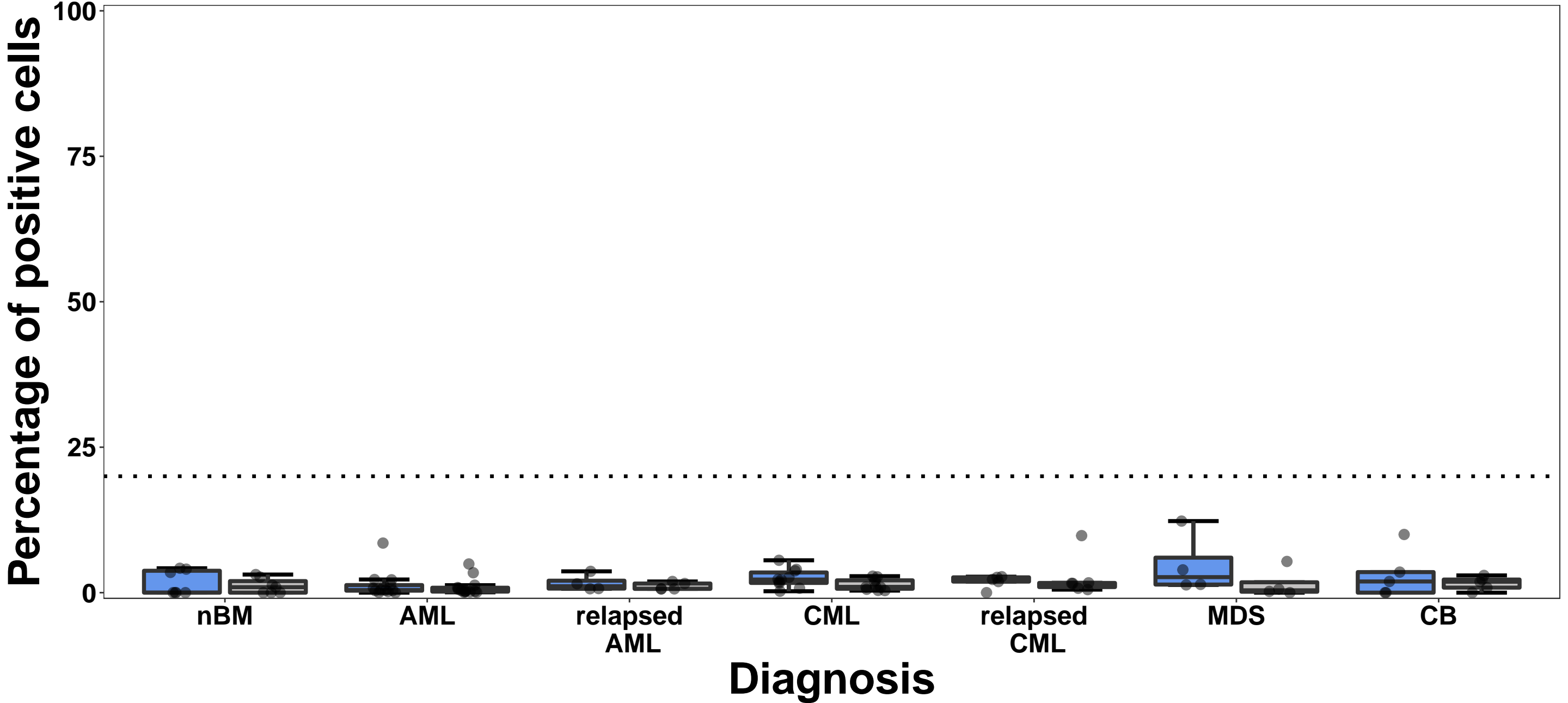
Cell fraction  CD34+/CD38-  CD34+/CD38+



MET/HGFR staining index



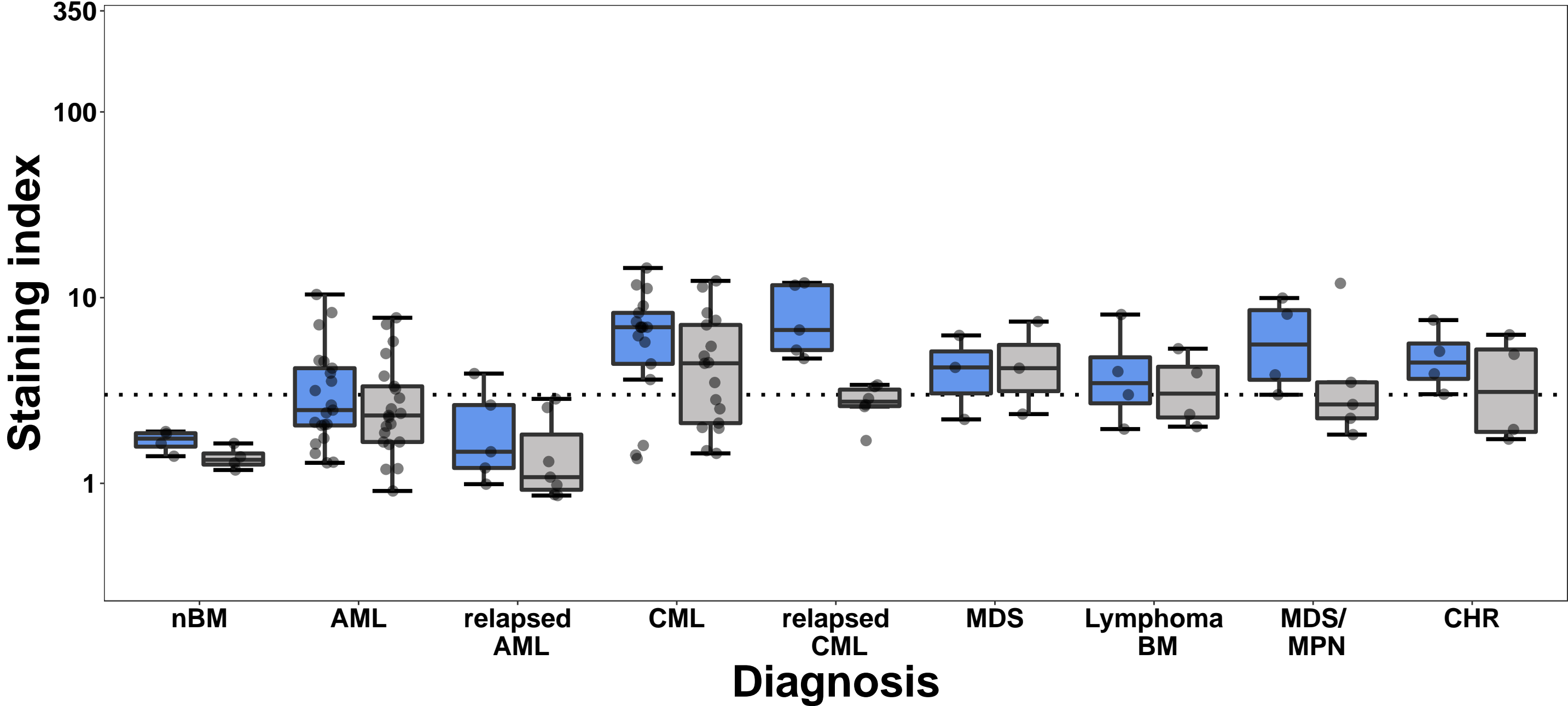
Cell fraction  CD34+/CD38-  CD34+/CD38+



MET/HGFR percentage



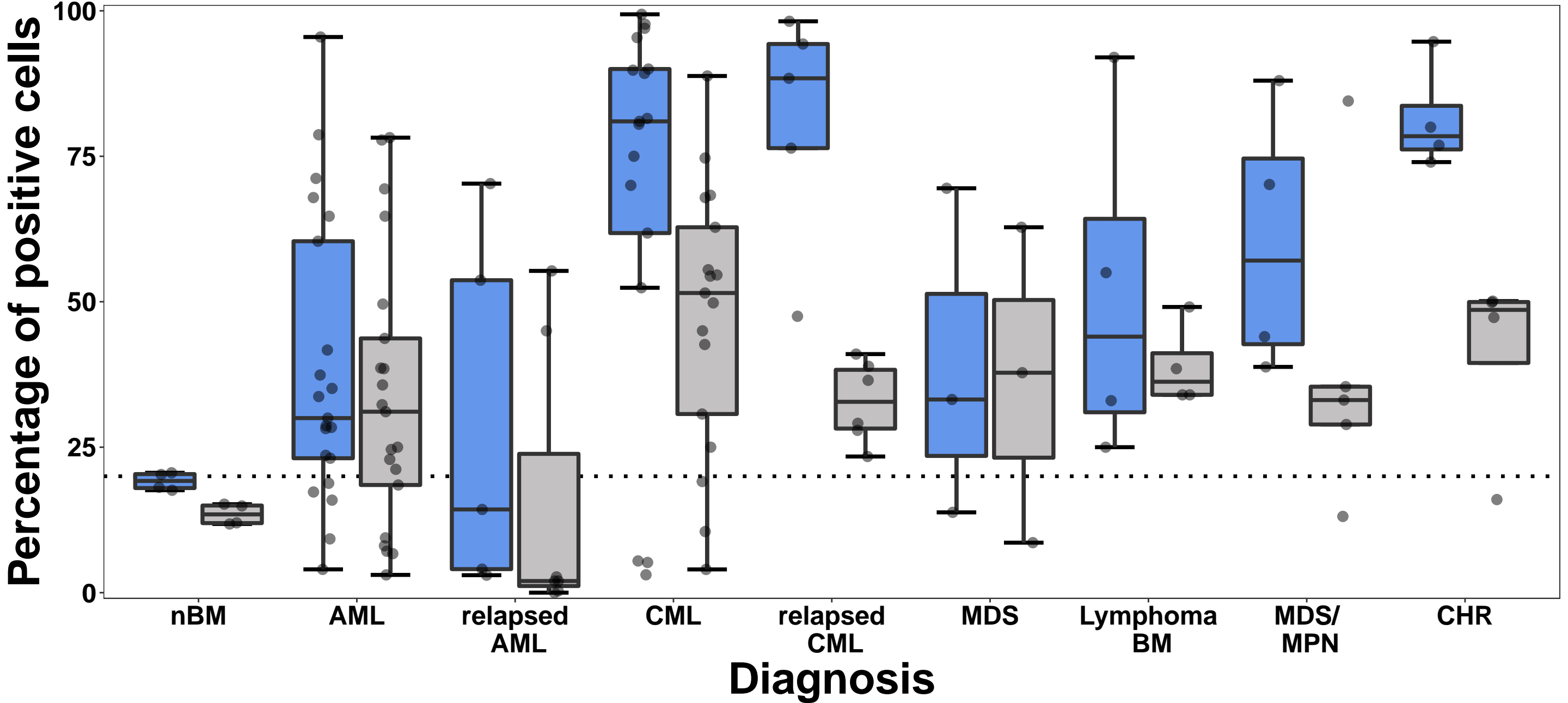
Cell fraction  CD34+/CD38-  CD34+/CD38+



NPDC1 staining index



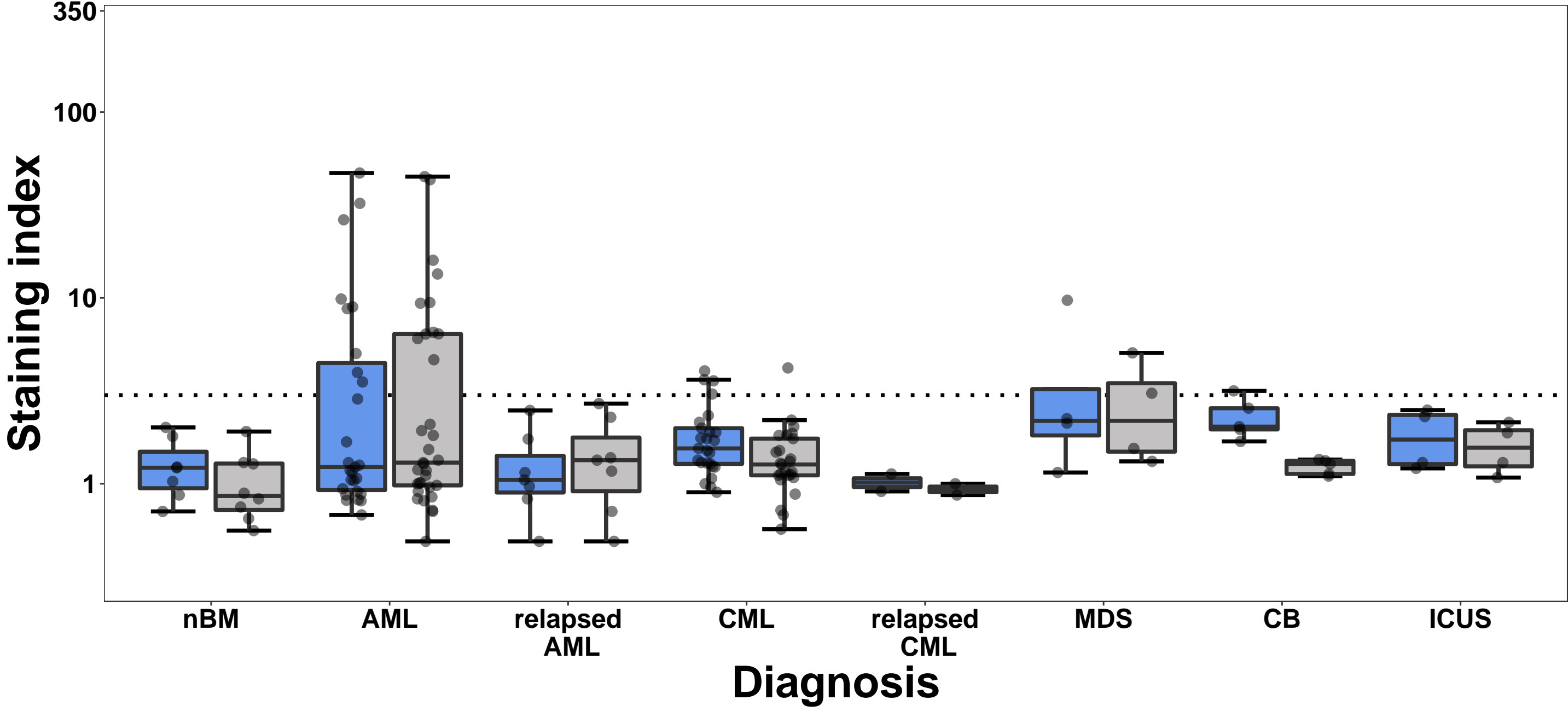
Cell fraction  CD34+/CD38-  CD34+/CD38+



NPDC1 percentage



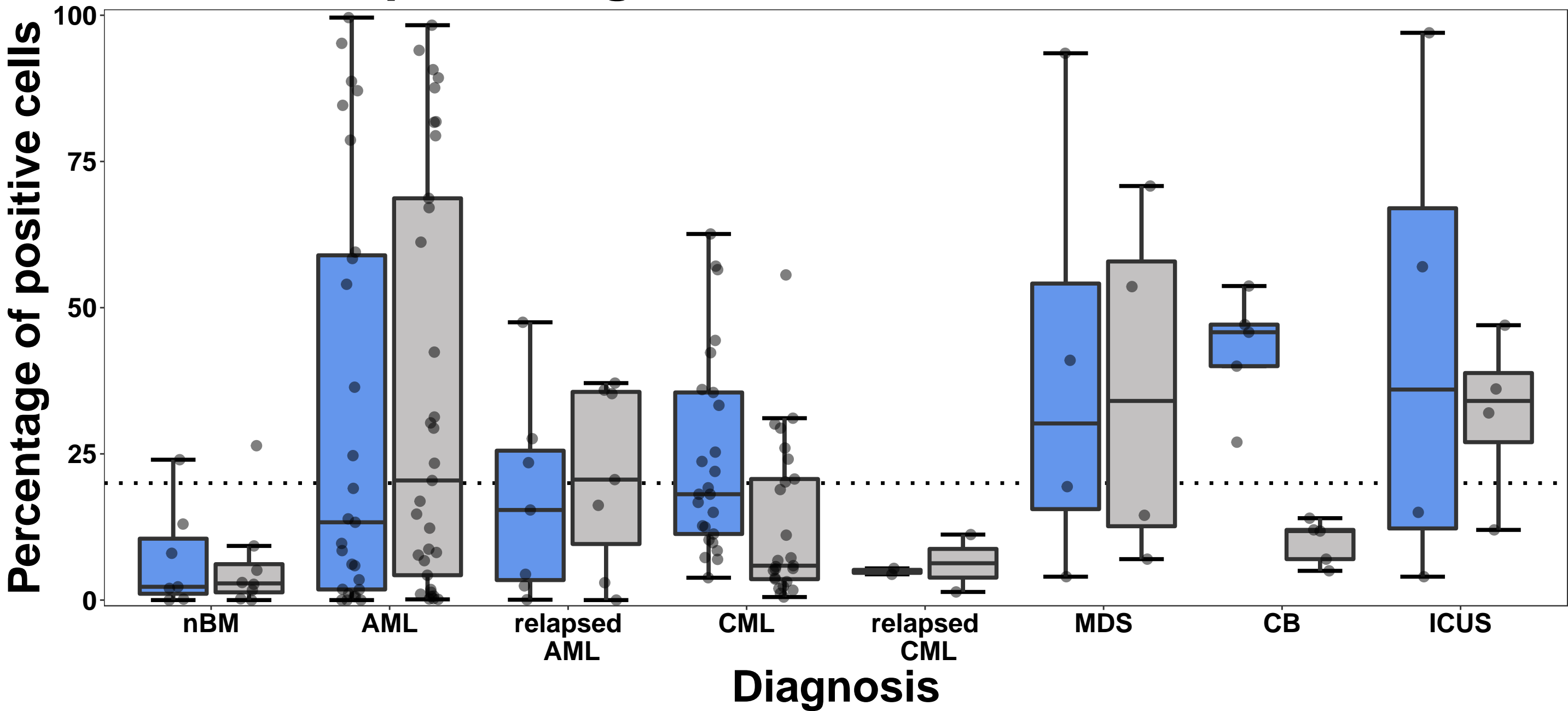
Cell fraction  CD34+/CD38-  CD34+/CD38+



OSMRbeta staining index



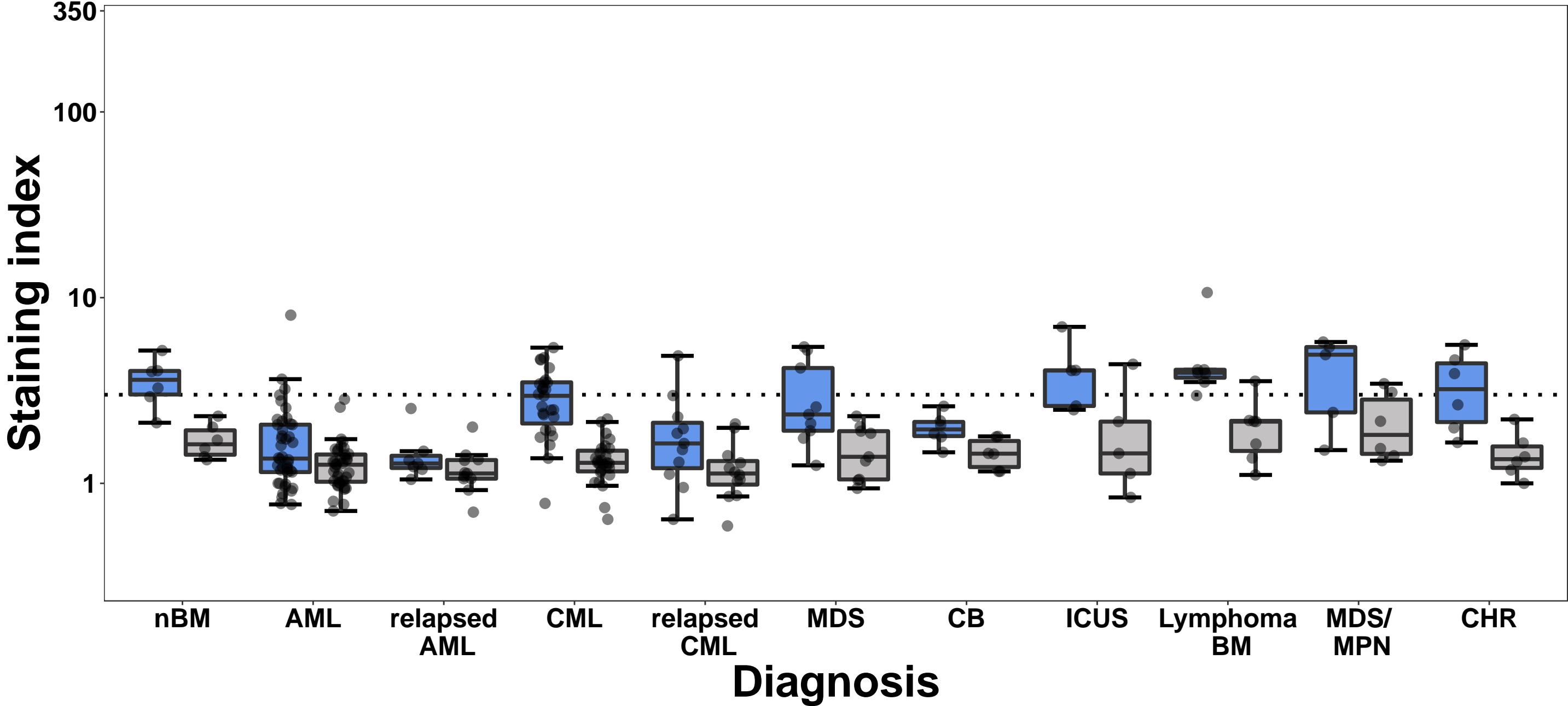
Cell fraction  CD34+/CD38-  CD34+/CD38+



OSMRbeta percentage



Cell fraction  CD34+/CD38-  CD34+/CD38+

ROBO4 staining index



Cell fraction  CD34+/CD38-  CD34+/CD38+

ROBO4 percentage

