We describe detection of AQP4 antibodies by ELISA in patients not meeting diagnostic criteria for NMOSD. ACE/ ionized Calcium normal, identified 750 tests ordered, of which 75 were positive, corresponding to 48 unique patients, 20 met clinical criteria for NMOSD. Iterative testing via different methodologies should be considered in such cases, given the significant n (total = 18). Final diagnosis in low-positive ELISA (5, 52 U/mL). More sensitive assays are available, the best of which is limited to 71% sensitivity. Table 5. Final diagnosis in cases with high-positive ELISA (52 U/mL). AQP4 Ab negative by cell binding assay + FACS. She had a complete clinical and radiographic response to prednisone followed by 28 days of IV ceftriaxone. AQP-4 Ab negative by ELISA 23.9 U/mL. CBA, cell-based assay; FACS, fluorescent activated cell sorting.

### References