without active disease and 19% still experiencing active disease. 32% were still receiving GCs - 22% of them receiving > 5mg/day. There was negative impact on functional status with 14% reducing working hours, 13% restricted social life, 6% leaving employment, 6% registered as disabled and 2% leaving full time education.

Conclusion: The start of maintenance treatment in AAV is variably defined but typically at 6 months after start of remission induction therapy. Achieving full remission and preventing relapse are still clinical problems and many patients require ongoing GC therapy to maintain remission. Infectious complications and adverse events are common and there is significant negative impact on patient functional status over time.

Disclosure of Interests: induction therapy than those who relapsed or were still on GC or IS at 3 years. No baseline clinical or biological characteristics helped distinguish patients achieving or maintaining SROT and those who did not.

Conclusion: Of all, 86 patients (female 45.8%, mean age 55.3±13.5, 68.9% PR3, 62.5% ANCA positive at inclusion) had at least a calprotectin dosage (at baseline, 86 at M6 and 76 patients at this 2 time-point). Calprotectin level at baseline or 6 months was not significantly different between relapsing patients and those without relapse after 18 months of follow-up, whereas the calprotectin variation at M6 compared to baseline was higher in relapsing patients (n=10) (mean (SD) 7791 (±28872) ng/ml) than in patients not experiencing any relapse (n=66) (9419 (±50002) ng/ml; p=0.03). An increase in serum calprotectin level at 6 months was significantly associated with an increased risk of relapse in PR3-ANCA patients (OR=5.6 (95%CI, 1.0-31.3; p=0.049) but not in the whole study group (OR=3.3 (95%CI, 0.8-14.1; p=0.1), and 1-identified patients with accelerated renal function decline (all cohort: OR=10.6 (95%CI, 2.9-39.6; p=0.02; PR3+ patients: OR=5.909 (95%CI, 2.9-39.6; p=0.01)), whereas calprotectin level did not correlate with glomerular filtration rate (r = -0.07; p=0.35).

Conclusion: An increase in serum calprotectin during the first 6 months of maintenance therapy in ANCA-associated vasculitides is a useful biomarker predicting vasculitis relapse and accelerated renal function deterioration in the following 12 months.

Methods: This study aimed to assess SROT of GPa patients from the French Vasculitis Study Group registry, and identify factors associated with its occurrence and durability during follow-up.

Methods: GPA had to satisfy the 1990 ACR classification criteria and/or revised Chapel Hill Nomenclature for study inclusion. SROT was defined as remission (BVAS=0) without glucocorticoids (GC) or immunosuppressants (IS), the latter for ≥6 months (ie 2 consecutive visits), SROT and its duration were extracted from the database. Data from patients with 3-, 5- and 10-year SROT were analyzed. Baseline characteristics of patients with 3-year GPa SROT were compared to those of registry GPa patients with available data at 3 years but not in SROT (controls), and 3-year SROT achieving 5-year SROT vs those who relapsed between 3.5 years. Patients with 3-year GPa SROT follow-up +7 years were analyzed according to maintained SROT or not.

Results: Among 795 database patients with new-onset GPA, 259 achieved at least 1 SROT at some time during their disease, after a median (IQR) of 36 [28-63] months post-diagnosis. The first SROT lasted a median of 14 [8-32] months. Among 202 of those patients who had follow-up, 73 (36%) remained in SROT for a median follow-up of 34 [14-45] months post-SROT. Among 434 (54%) patients followed for ≥3 years post-diagnosis, 82% had received GC and cyclophosphamide induction therapy. At 3 years post-diagnosis, 92 (21%) patients in SROT were compared to 342 (79%) controls who had relapsed or were still taking GC or IS. Patients achieving 3-year SROT vs controls, respectively, had more frequently received intravenous cyclophosphamide as induction therapy (89% vs 77%; P=0.01), with a higher median number of infusions (75 vs 6; P=0.05); no other clinical or biological baseline difference was found. Among those 92 3-year SROT patients, 74 (82%) had ≥2 years of additional follow-up: 46 (82%) attained 5-year SROT and 28 (38%) had relapsed after a mean follow-up of 13 months. Baseline clinical and biological characteristics of patients achieving 5-year SROT did not differ from those of 3-year SROT patients who relapsed. Among those 92 3-year SROT patients, 16 had ≥7 additional years of follow-up: 6 (38%) achieved 10-year SROT, ie 8% of 75 GPA with available data at 10 years, and 10 (63%) had relapsed a mean 35 ± 28 months after achieving 3-year SROT.

Conclusion: Only 8% of GPA patients achieved 10-year SROT after conventional induction and maintenance therapies. No baseline clinical or biological characteristics helped distinguish patients achieving or maintaining SROT and those who relapsed. However, patients achieving 3-year SROT had received more intensive induction therapy than those who relapsed or were still on GC or IS at 3 years.

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OP0032 ERAP1-MEDIATED IMMUNOGENICITY AND IMMUNE-PHENOTYPES IN HLA-B51+ BEHÇET’S DISEASE POINTS TO PATHOGENIC CD8 T CELL EFFECTOR RESPONSES

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Background: Calprotectin (S100A8/A9), a protein secreted by activated neutrophils and monocytes in inflammatory conditions, is upregulated in active ANCA-associated vasculitides. Serum calprotectin level variation during induction therapy is associated with disease relapse in PR3-ANCA-associated vasculitides (1). However, the place of this biomarker during maintenance therapy is unknown.

Objectives: To demonstrate whether variation in serum calprotectin level during maintenance therapy could be used as a biomarker predicting subsequent relapse in ANCA-associated vasculitides.

Methods: Patients with ANCA-associated vasculitides in complete remission (BVAS=0) after induction therapy with cyclophosphamide and included in the MAINRISAN trial (2) were analyzed. Patients were randomized to receive rituximab or azathioprine as maintenance therapy. Relapse was defined as the re-occurrence or new onset of disease attributable to active vasculitis. Accelerated decline renal function (estimated Glomerular Filtration Rate (eGFR) assessed using the MDRD equation) was defined in concordance with NICE 2015 guideline (3) as a decrease in eGFR of 25% or more and a change in GFR category or a sustained decrease in eGFR of 15 ml/min/1.73m2 over 12 months; Calprotectin was assessed in the serum at inclusion and 6 months by ELISA (IDK® Calprotectin ELISA kit, Immunodiagnostik). We defined an increase in serum levels of calprotectin as a positive variation of calprotectin level at M6 compared to baseline. Results: Of all, 86 patients (female 45.8%, mean age 55.3±13.5, 68.9% PR3, 62.5% ANCA positive at inclusion) had at least a calprotectin dosage (at baseline, 86 at M6 and 76 patients at this 2 time-point). Calprotectin level at baseline or 6 months was not significantly different between relapsing patients and those without relapse after 18 months of follow-up, whereas the calprotectin variation at M6 compared to baseline was higher in relapsing patients (n=10) (mean (SD) 7791 (±28872) ng/ml) than in patients not experiencing any relapse (n=66) (9419 (±50002) ng/ml; p=0.03). An increase in serum calprotectin level at 6 months was significantly associated with an increased risk of relapse in PR3-ANCA patients (OR=5.6 (95%CI, 1.0-31.3; p=0.049) but not in the whole study group (OR=3.3 (95% CI, 0.8-14.1; p=0.1), and 1-identified patients with accelerated renal function decline (all cohort: OR=10.6 (95%CI, 2.9-39.6; p=0.02; PR3+ patients: OR=5.909 (95%CI, 2.9-39.6; p=0.01)), whereas calprotectin level did not correlate with glomerular filtration rate (r = -0.07; p=0.35).

Conclusion: An increase in serum calprotectin during the first 6 months of maintenance therapy in ANCA-associated vasculitides is a useful biomarker predicting vasculitis relapse and accelerated renal function deterioration in the following 12 months.

References:

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