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concurrent venous thrombotic event in our group (in a patient without aPL-Abs). The presence of aCL was associated with extracranial large vessel vasculitis (RR 1.8 (95% CI 1.1-2.9)). Double- or triple-positivity for any combination of "classic" aPL (LA and/or aCL and/or abeta2GP1) emerged as a marker of severe visual manifestations (RR of 2.1 (95% CI 1.1-4.3) for permanent or transient visual loss in case of double or triple aPL positivity vs. LA, aCL and aß2GP1 negative cases). At least 1 year follow-up data (median (IQR) of 103 (54; 105) weeks) were available for 73 patients. 32 patients (43.8%) relapsed, most frequently those with positive aβ2GP1 (62.5%).

Table 1. GCA and aPL

	All GCA	aPL	aCL	aB2GPI	aPS/PT e	LA
			positive	positive	positive	positive
Number of cases	121	28	55	15	18	59
Female (%)	66.9	67.9	72.7	60.0	66.7	66.1
General symptoms (%)	76.0	67.9	78.2	66.7	66.7	81.4
Headache (%)	69.4	82.1	61.8	66.7	61.1	71.2
Jaw claudication (%)	42.1	46.4	43.6	33.3	22.2	44.1
Visual symptoms (%)	24.0	35.7	20.0	13.3	22.2	16.9
PVL or TVL (%)	12.4	14.3	16.4	13.3	5.6	11.9
PMR (%)	14.0	14.3	16.4	6.7	22.2	11.9
Stroke (%)	2.5	3.6	3.6	0	0	0
Venous thrombosis (%)	8.0	3.6	0	0	0	0
LVV (CDS) (%)	38.8	38.5	50.9	33.3	17.6	31.0
TA CDS (%)	80.2	78.6	74.5	80.0	88.9	79.7
TAB (%)	83.0	86.4	92.5	76.9	84.6	76.6
ESR (mm/h)#	86	75	83	108	88	94
	(65; 110)	(61; 95)	(64; 107)	(94; 115)	(71; 118)	(73; 116)
CRP (mg/l)#	73	62	69	95	65	113
	(45; 134)	(36; 124)	(44; 106)	(66; 164)	(52; 117)	(65; 170)
Relapse during follow up (%)	43.8	47.1	38.2	62.5	30.0	45.5

Legend: aPL antiphospholipid antibodies; TVL transient visual loss (amaurosis fugax); PVL permanent visual loss; TA temporal artery; TAB temporal artery biopsy; CDS color Doppler sonography; LVV large vessel vasculitis; ESR erythrocyte sedimentation rate; CRP C-reactive protein; median (IQR).

Conclusions: Our results indicate that aCL could identify GCA patients with extracranial large vessel disease. The double- or triple-positivity for any combination of LA and/or aCL and/or aβ2GP1 seems to be a marker of severe visual manifestations.

Disclosure of Interest: None declared DOI: 10.1136/annrheumdis-2017-eular.2508

AB0553 UPDATED SYSTEMATIC REVIEW 2016: EFFICACY AND SAFETY OF BIOLOGICAL THERAPY COMPARED TO SYNTHETIC IMMUNOSUPPRESSANTS OR PLACEBO IN THE TREATMENT OF UVEITIS ASSOCIATED WITH BEHCET'S DISEASE

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Background: Systematic treatment used in ocular involvement of Behcet's disease are corticosteroids, synthetic and biological immunosuppressants. The possible irreversible ophthalmological complications make it a priority to know the efficacy of these drugs.

Objectives: To analyze the efficacy and safety of biological therapy vs. Cyclosporin A (CsA), azathioprine (AZA), or placebo in reducing the number of uveitis relapses and improving visual prognosis in patients with Behçet.

Methods: Systematic search of the literature in MEDLINE, EMBASE, Cochrane Central Register of Controlled Trials from its inception until August 22, 2016. In additional manual search in international conferences and in the references of included studies. Selection criteria: 1) adults with Behçet's disease and uveitis, 2) Biological therapies, 3) placebo or active comparator with CsA or AZA, 4) outcome measures to evaluate efficacy: number of recurrence of uveitis, visual prognosis, cystic macular edema, retinal vasculitis, vitritis, hypopyon and or adverse events. Meta-analyses, systematic reviews, clinical trials, and observational studies of >10 control patients were included. The selection, review and evaluation of the quality of the articles was carried out by 2 independent reviewers. The Oxford scale was used to determine the quality of studies.

Results: Of 256 articles, 9 met the inclusion criteria: 3 retrospective observational and 6 randomized clinical trials in 378 patients with Behçet and refractory uveitis to synthetic corticosteroids and/or immunosuppressants. The age range was 9-63 years, with male dominance and a follow-up period of 6-36 months. The different treatments: 3 observational studies compared infliximab (IFX) with CsA and IFX with CsA associated with AZA or methotrexate (MTX) and IFNα2a with AZA associated with CsA; 2 clinical trial (CT) compared adalimumab (ADA) with placebo; 1 CT RTX associated with MTX with ciclofosfamide (CFM) associated with AZA; 1 CT secukinumab (SECUK) with placebo; Another daclizumab (DACL) with placebo and the last pegIFN-α-2b with systemic and/or immunosuppressive

corticosteroids. Adverse events were recorded as secondary outcomes in the 9 studies.

Conclusions: With variable evidence, IFX appears to be safe and more effective than CsA in reducing short-term uveitis relapse and the number of severe long term complications and retinal vasculitis flares. RTX is similar to CYA associated with AZA in improving short term inflammatory activity. ADA is more effective than placebo as a corticosteroid sparing, achieving early and sustained control in patients with intermediate, posterior, or active uveitis. PegIFNα-2b significantly reduced the dose of corticosteroids, and improved the quality of life. Treatment with IFN α -2a reduces the uveitis/year relapse rate and improves visual acuity. SECUK and DACL, are not effective in reducing uveitis flares but could have an effect on immunosuppressants sparing. The results of this review support the benefit of performing more well-designed comparative studies with IFX, ADA, RTX and IFN-α.

Disclosure of Interest: None declared DOI: 10.1136/annrheumdis-2017-eular.3309

AB0554

RELATIONSHIP BETWEEN DISEASE ACTIVITY AND NEUTROPHIL-LYMPHOCYTE RATIO, PLATELET-LYMPHOCYTE RATIO AND MEAN PLATELET VOLUME IN BEHÇET'S DISEASE

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Objectives: Behcet's syndrome (BS) is an autoimmune disease characterized by chronic inflammation and endothelial dysfunction. There are only a few studies examining the relationship between neutrophil-lymphocyte ratio (NLR), mean platelet volume (MPV), platelet-lymphocyte ratio (PLR) and BS. The aim of this study was to determine NLR, PLR and MPV levels and their association with disease activation in BS patients with mucocutaneous, ocular and vascular involvement

Methods: The study included 259 patients with BS and 41 healthy individuals. Age, sex, total white blood counts, neutrophil, platelet, mean platelet volume and lymphocyte counts of the patients were recorded. Patients with inflammatory bowel, hematological, infectious, cardiovascular diseases, hyperlipidemia, chronic liver, chronic kidney disease, hypertension, diabetes mellitus, chronic obstructive pulmonary disease, malignancy and corticosteroid use were excluded from the study. Of 259 patients, 163 had active disease (75 active mucocutaneous (MC), 40 active ocular, 48 active vascular involvement) and 96 had inactive disease. MPV, NLR and PLR values of the patients were compared between the groups. P value < 0.05 was considered significant.

Results: Age and sex were similar between the groups. We compared the MPV, NLR and PLR values of patients with active and inactive disease. NLR and PLR were significantly higher while MPV was lower in the active group than the inactive and control groups (Table 1). Statistically significant higher PLR and NLR were found in the active MC and vascular groups, significantly lower MPV was seen only in vascular active group. This significance was not seen in active ocular group (Table 2). We also evaluated the same patient's active and inactive periods of the disease, lower MPV, higher NLR and PLR values were seen MC and vascular groups (for all groups p<0,05). When the active 3 groups were compared within themselves, the MPV value was significantly lower and NLR and PLR values were significantly higher in vascular group than active ocular and active mucocutaneous groups (p=0.033, <0.001, 0.001, respectively).

Table 1. Demografic and laboratoary, characteristics

Baseline characteristics	Active BD n=163	Inactive BD n=96	Control n=41	р
Age, y (IQR)	35,7 (16,2)	31,3 (13,2)	38,4 (11,8)	0,143
Male, n (%)	69 (%42,3)	36 (%37,5)	10 (%24,4)	0,105
CRP, mg/L (IQR)	4,8 (20,9)	2,7 (5,1)	1 (2,9)	<0,001
ESR, mm/h (IQR)	24 (30)	12 (16)	11,5 (9)	<0,001
MPV (f/L)	8,5±1,1	8,9±1	8,8±0,9	0,011
NLR (IQR)	2,4 (1,7)	1,9 (1,0)	1,8 (0,8)	<0,001
PLR (IQR)	134 (63)	116 (44)	130 (65)	0,012

Table 2, MPV, NLR and PLR values

		MPV	NLR	PLR
Mucocutaneous Involvement	active (n=75)	8,6±1,0	2,4 (1,4)	134 (54)
	inactive (n=96)	8,8±1,1	1,9 (0,9)	118 (51)
	Р	0,168	0,009	0,006
Ocular Involvement	active (n=40)	8,8±1,5	1,9 (1,3)	117 (43)
	inactive (n=96)	8,8±1,1	1,9 (0,9)	118 (51)
	Р	0,807	0,716	0,386
Vascular Involvement	active (n=48)	8,1±0,9	3,2 (2)	161 (98)
	inactive (n=96)	8,9±1,1	1,9 (1,0)	116 (44)
	P	<0,001	<0,001	<0,001

Conclusions: The low MPV and the high NLR and PLR are found in the active disease, which is especially significant in vascular and mucocutaneous groups. In the light of our findings, NLR and PLR were associated with the activity of BS especially with vascular involvement. The low MPV and the high NLR and PLR. The low MPV and the high NLR and PLR may be useful disease activity markers in behcet's disease.

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Disclosure of Interest: None declared DOI: 10.1136/annrheumdis-2017-eular.4807

AB0555 ANCA VASCULITIS AND CLASSIC CARDIOVASCULAR RISK **FACTORS: COINCIDENCE OR CAUSALITY?**

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Background: Unlike other systemic autoimmune diseases (rheumatoid arthritis or systemic lupus erythematosus), the mechanisms involved and the association between ANCA vasculitis with cardiovascular risk factors (CVRF) or cardiovascular events (CVE) are unknown. There may be a phenomenon of "early" atherosclerosis that contributes to an increased cardiovascular risk. This process would not be explained only by the co-existence of the classics CVRF.

Objectives: We reviewed the prevalence of classical CVRF and CVE in a cohort of patients diagnosed with ANCA vasculitis. We analyzed whether the appearance of these factors was prior to or subsequent to the diagnosis of the disease or during its evolution.

Methods: A descriptive cross-sectional analysis of the classic CVRF and CVE was analyzed in a cohort of patients with ANCA positive vasculitis in follow-up in the Autoimmune Diseases Division of a Spanish hospital. The main demographic characteristics, type of vasculitis and the presence of arterial hypertension, type 2 diabetes mellitus (T2DM), dyslipemia, smoking and obesity were reviewed. Likewise we analyzed CVE (heart failure -HF-, acute coronary syndrome -ACS-, stroke or transient ischemic attack -TIA- and peripheral arteriopathy -PA-) and if each factor was presented at the diagnosis of the disease or they appeared during the evolution after starting immunosuppressive treatment.

Results: A total of 35 patients were studied: 21 women (60%) and the average age was 53 years old. A number of 15 were microscopic polyangiitis, 9 granulomatosis with polyangiitis and 11 allergic granulomatous angiitis. Twenty one patients presented hypertension, 9 of them (42.9%) developed it after the diagnosis of vasculitis. From 7 patients with diabetes mellitus, 5 of them were before diagnosed with vasculitis. Nineteen presented dyslipemia and 9 of them (47.4%) presented lipid alteration during the evolution of vasculitis. Overweight/obesity was evident in 4 of the 11 cases after the diagnosis of vasculitis. Only 5 patients did not have a cardiovascular event. ACS was observed in 3 patients, HF in 2 and PA in 1 patient. There were no cases of TIA or ischemic stroke. Four of them had dyslipidemia (3 after diagnosis of vasculitis) (p=0.18) and 3 had hypertension (2 after diagnosis of vasculitis, p=0.66). Three patients were overweight or obese (p=0.3) and two had T2DM (p=0.2), both of them appeared after the diagnosis. Previous history of smoking was observed in 4 of the 5 patients (p=0.06). In 3 patients (71.4%) the cardiovascular event was recorded prior to vasculitis diagnosis and only in 2 cases it occurred during the evolution.

Conclusions: This study shows that a high percentage of patients with ANCA vasculitis also presents some type of classic CVRF despite of CVE were not elevated. The diagnosis and treatment of ANCA-positive vasculitis did not statiscally correlate with a greater number of CVE, therefore it would be necessary to carry out studies with a larger number of patients in order to establish conclusions. It is not well defined that weight may have these factors in the prognosis of patients with ANCA vasculitis. These data suggest the need to maintain a close monitoring and therapeutic approach of classic CVRF in this relatively young group of patients.

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DOI: 10.1136/annrheumdis-2017-eular.5262

AB0556 INCIDENCE AND RISK FACTORS OF INFECTIONS IN SYSTEMIC **NECROTIZING VASCULITIS**

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Background: Infections in patients with systemic vasculitis represent one of the main causes of mortality. Risk factors of infection such as corticosteroid use, intensity of immunosuppressive therapy, age, presence of leucopenia, lymphopenia, hypogamma globulinemia, associated organic involvement, and dialysis dependence have been identified

Objectives: a)To determine the incidence of infection in patients diagnosed with:Polyangeitis with Granulomatosis (GPA), Eosinophilic Polyangiitis with Granulomatosis (EGPA), Microscopic Polyangeitis (PAM) and Panarteritis Nodosa (PAN), b) clinical characteristics and associated risks factors.

Methods: Analytical, observational,retrospective study. Data source:clinical records of patients diagnosed with ANCA associated vasculitis and Panarteritis Nodosa, evaluated in a center of rheumatology (2000-2016). Variables:Demographic data, clinical manifestations, laboratory data, infectious events serious (requiring hospitalization or prolonged antibiotic/antiviral treatment, recurrences of herpes zoster virus or opportunistic infections), sites of infection, isolated microorganisms, mortality related to the infectious event

Results: 80 patients, 61.25% women. Mean age at diagnosis: 49.2 years (range 18-77). Types of vasculitis: 41.2% GPA, 18.7% EPGA, 26.25% PAM, 3.73%

PAN not associated with HBV and 10% ANCA-associated vasculitis that did not met classification criteria. Systemic involvement (68%), pulmonary (59%), renal (58%) and otorhinolaryngology (43.6%) were the most frequent. 36 infectious events were recorded in 28 patients. Follow-up time: Median 22 m (IQR6-64). Incidence of infection:38.4%, with a median of 3 m (IQR 1-18 m) from diagnosis of vasculitis. Low respiratory infections (40.7%), sepsis (39.3%), and urinary tract infections (15%) were the most common. 25% of these patients presented a second infectious event, being low respiratory tract the most frequent site (47%). Two patients had a 3rd event (soft tissue infection, septic shock). Bacterial etiology was the most prevalent (45%). Mortality at the 1st event was 14.3% (n: 4). 71.4% of patients were in the induction phase of treatment. Immunosuppressants used prior to infectious event: cyclophosphamide (48.1%), azathioprine (11.1%), methotrexate (7.4%), mofetil mycophenolate (3.7%), none (22.2%). Corticosteroids ≥30 mg/d were observed in 35.7% patients, ranging from 7.5-30 mg/d (10.7%), and ≤7.5 mg /d in 35.7%. Presence of leukopenia (26%), lymphopenia (44%), hypoalbuminemia (24%), renal insufficiency (63%) and dialysis dependency (37%) were identified in patients with infectious events. Renal involvement (p0.01) and dialysis dependence (p0.001) were significantly associated with infection.

Conclusions: The incidencia of infection was 38.4%. Lower airway infections, septicemia and urinary tract infections are the most commonly implicated sites. Most infections occurred in the induction phases of the disease. Dialysis dependence and presence of renal involvement were significantly associated with the presence of infection.

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Disclosure of Interest: None declared DOI: 10.1136/annrheumdis-2017-eular.1758

AB0557 HEART LESSON IN EOSINOPHILIC GRANULOMATOSIS WITH **POLYANGIITIS**

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Background: Eosinophilic granulomatosis with polyangiitis (EGPA) is a disorder characterised by systemic small vessel vasculitis, that occurs typical in patients with a positive history of late-onset asthma and allergic rhinitis. Cardiac involvement is the major cause of mortality. There is required a standardised method to assess cardiac involvement in EGPA.

Objectives: To assess the clinical and imagistic caracteristics of EGPA patients with cardiac involvement in a tertiary referral hospital.

Methods: Fourteen patients (pts) with EGPA were retrospectively analysed between 2010-2016, in Rheumathology Departament in Cluj-Napoca. All patients were screened for cardiac involvement by electrocardiogram (ECG) and cardiac ultrasonography (CUS). Cardiac involvement was defined as follows: ventricular hypertrophy, kinetic abnormalities, valvulopathy, pericardial effusion or diastolic dysfunction. Cardiac magnetic resonance (CMR) and coronarographie was assessed in 4 pts with ECG or CUS abnormalities.

Results: Characteristics of EGPA patients is detailed in table 1. Six out of 14 pts had cardiac involvement (table 2). Only one patient was symptomatic. CMR abnormalities were: endocardial fibrosis in 2 pts, subepicardial inflammation

Table 1. Demographic caracteristic of EGPA patients. EGPA, eosinophilic granulomatosis with polyangiitis; Cardiac, patients with cardiac involvement, Non cardiac, pacients without cardiac involvement; ANCA, anti-neutrophil cytoplasmatic antibody

Characteristics of EGPA Patients	n=14	Cardiac (n=6)	Non cardiac (n=8)
Age at onset, yr ± SD	54.57±9.7	53±12.19	55.75±8.04
Female, n	8	4	4
History of astm, n	7	3	4
ANCA (+), n	5	3	2
Organ involvement, n			
Renal	1	1	0
Pulmonary	9	4	5
Neurologic	10	5	5
Ophtalmic	1	0	1
Skin	6	1	5

Table 2. Electrocardiographic and echocardiographic findings in EGPA patients with cardiac in-

Electrocardiographic and echocardiographic findings	n=6	
Conduction disorders	2	
Ischemia in inferior leads, n	1	
Pericardial effusion, n	4	
Kinetic abnormalities, n	3	
Septal thickening, n	3	
Mitral insufficiency, n	1	
Diastolic dysfunction, n	4	