

with a new diagnosis of biopsy-proven GCA in 1986–2007 were retrospectively identified. Patients were followed from GCA diagnosis to death, migration or September 2011. Comparisons were performed using Chi-square and rank sum tests, Kaplan-Meier methods and Cox models.

Results: The study included 110 patients in the Olmsted and 144 in the Reggio cohort. Compared with the Olmsted cohort, patients from the Reggio cohort were younger (mean±SD age 74.6±7.4 years vs 77.8±7.6, $p=0.002$), more likely to have cranial symptoms (93% vs 86%, $p=0.048$), temporal artery abnormalities at physical examination (68% vs 42%, $p<0.001$), partial or complete unilateral or bilateral permanent vision loss (21% vs 6%, $p=0.001$), systemic symptoms (67% vs 46%, $p=0.001$) and polymyalgia rheumatica at or before GCA diagnosis (47% vs 26%, $p<0.001$). Scalp tenderness was less common in the Reggio cohort (36% vs 49%, $p=0.033$). ESR and CRP were higher (mean 88±29 mm/h vs 73±77, $p<0.001$ and mean 89.0±60.2 mg/L vs 35.2±43.4, $p<0.001$ respectively) and hemoglobin lower (mean 11.2±1.4 g/dl vs 11.8±1.4, $p=0.004$) in Reggio than in the Olmsted cohort. Patients from the Olmsted cohort received a higher initial prednisone dose (mean 53.6±15.3 mg/day vs 49.5±12.8, $p=0.001$). There were no differences in relapse rates, cumulative glucocorticoid (GC) dosages at 1, 2 and 5 years, and time to first GC discontinuation. However, the Reggio cohort reached a prednisone dose <10 mg/day sooner (median 4.9 months vs 7.9, $p=0.012$) and had a first relapse later (median 13.6 months vs 7.9, $p=0.003$) than the Olmsted cohort. Patients from the Reggio cohort had a significantly higher mortality compared to those from the Olmsted cohort (HR 1.72, 95% CI 1.12–2.65 adjusted for age and sex).

Conclusions: Genetic and/or environmental factors may contribute to the differences in clinical characteristics and disease outcomes observed in this study comparing patients with GCA from North America and Southern Europe.

Disclosure of Interest: None declared

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FRI0324 SMALL VESSEL VASCULITIS SURROUNDING A PRESERVED TEMPORAL ARTERY: A DIAGNOSTIC ALGORITHM TO ASSESS CLINICAL SIGNIFICANCE

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Background: Systemic vasculitides are complex and heterogeneous diseases with overlapping features that frequently pose a diagnostic challenge to clinicians. The temporal artery biopsy (TAB) is the gold standard for the diagnosis of giant cell arteritis (GCA) but, occasionally, TAB show inflammation of small vessels surrounding a spared temporal artery (SVV) as the only pathologic finding. Ultimate diagnosis and, consequently, optimal treatment remain uncertain in these patient.

Objectives: To analyze the final diagnosis of patients with SVV surrounding a spared temporal artery after a pre-established diagnostic algorithm and to identify clinical and laboratory findings with potential usefulness in predicting the ultimate diagnosis.

Methods: Patients with TAB showing SVV were subjected to the diagnostic algorithm displayed in figure 1, completed by at least 1 year follow-up. Clinical and laboratory features at the time of diagnosis were recorded. The algorithm led to the following final diagnosis: GCA, other systemic vasculitis and undetermined condition. Chi-squared and ANOVA tests were used for statistical comparison using IBM SPSS Statistics 20.

Results: From 1998 to 2007, 380 TAB were performed in our institution. Biopsy disclosing small vessel inflammation surrounding a normal temporal artery (SVV) was described in 47 (12%) patients. In all patients TAB was selected as the first invasive procedure because GCA was initially considered the most likely diagnosis. Accordingly, 24 (51%) fulfilled at least 3 ACR classification criteria for GCA. 7 patients declined to undergo subsequent work-up to complete the diagnostic algorithm, 10 died or were lost to follow-up before completing 1 year. All of them were excluded. The study cohort consisted of 30 patients (19 women and 11 men) aged 77±10.4 years followed for 55.16±55.20 months. In 13 patients the final diagnosis was consistent with GCA based on the absence of SVV in other territories, large-vessel inflammation by imaging or subsequent development of aortic aneurysm; in 12 SVV was subsequently demonstrated in other territories and were diagnosed with other systemic vasculitis (7 AAV, 0 cryo, 3 PAN, 0 vasculitis associated to autoimmune diseases, 2 unclassified small vessel vasculitis), and in 5, diagnosis remained undetermined. No significant differences in clinical or routine laboratory abnormalities were found among patient subgroups stratified according to the final diagnosis.

Conclusions: Inflammation of small vessels surrounding a spared temporal artery in a TAB conveys a substantial diagnostic uncertainty. After a detailed diagnostic work-up most of patients can be diagnosed with GCA. However other systemic vasculitis requiring more aggressive treatment may disclose similar histopathologic findings and are also frequent and diagnosis remains uncertain in a substantial proportion of cases. Search for more accurate molecular biomarkers is necessary for a better interpretation of these findings

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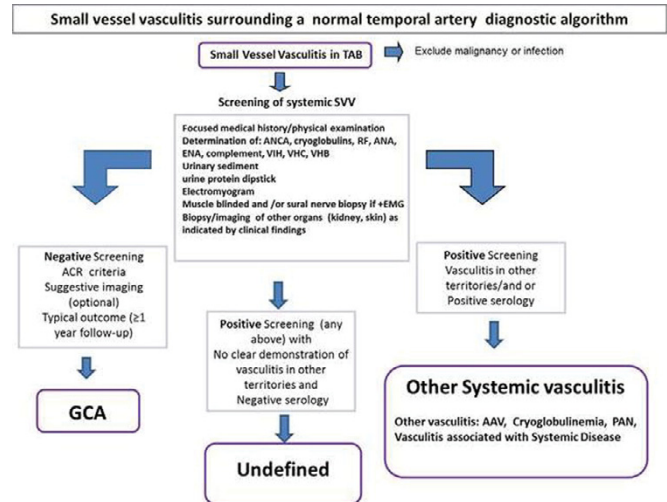


Figure 1

Subdirección General de Evaluación y el Fondo Europeo de Desarrollo Regional (FEDER)"

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FRI0325 PREVALENCE OF TAKAYASU ARTERITIS IN YOUNG WOMEN WITH ACUTE ISCHEMIC HEART DISEASE

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Background: Takayasu arteritis (TA), a systemic vasculitis typically occurring in female patients aged ≤40, can affect the coronary arteries and cause ischemic heart disease. The prevalence of TA among young females with acute ischemic heart disease is undetermined.

Objectives: In this study, we investigated the prevalence of TA in young women presenting with ischemic heart disease in the Emergency Department.

Methods: We conducted a retrospective evaluation of the hospital records of 172,790 consecutive female patients aged <45, who accessed the Emergency Department of our institution over 8 consecutive years (2007–2015). The prevalence of TA and of other etiologies of ischemic heart disease was determined. Diagnosis of TA was established based on the 1990 American College of Rheumatology criteria.

Results: Overall, 2,090 women aged <45 presented to the Emergency Department with chest pain, dyspnea, palpitations, angina, heart failure, or cardiac arrest; 40 had confirmed acute ischemic heart disease. The etiology was "classic" atherosclerosis in 24 cases (60%), TA in 4 cases (10%), vasospasm and sympathomimetic drug abuse in 3 cases each (7.5%), coronary artery dissection and microvascular angina in 2 cases each (5%), Takotsubo and radiation-induced cardiomyopathy in 1 case each (2.5%).

Conclusions: Although a diagnosis of TA is likely to be overlooked, TA is not infrequent in younger females presenting with acute ischemic heart disease. Specifically, TA accounted for 10% of cases of acute ischemic heart disease in female patients aged <45, a finding relevant to the diagnosis and management of these young patients.

Disclosure of Interest: None declared

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FRI0326 RECOMMENDATIONS FOR THE MANAGEMENT OF NEURO-BEHÇET DISEASE BY JAPANESE RESEARCH COMMITTEE FOR BEHÇET DISEASE

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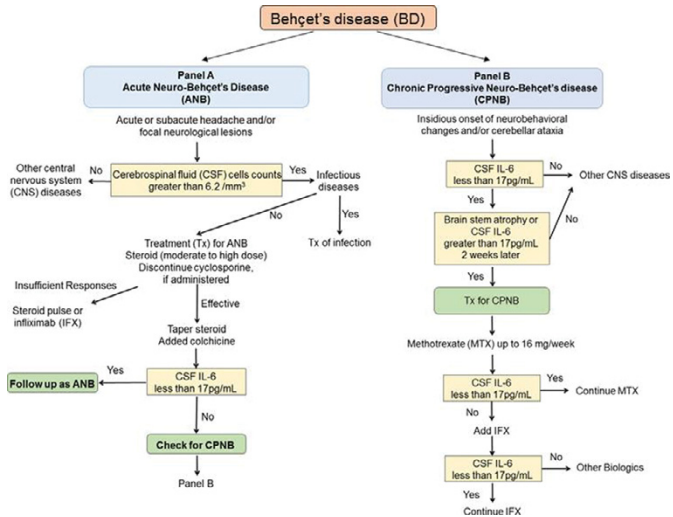
Background: Central nervous system involvement is one of the most serious complications in Behçet's disease (BD). This condition is referred to as neuro-

Behçet's disease (NB) and can be classified into acute type (ANB) and chronic progressive type (CPNB) based upon differences in the clinical course and responses to corticosteroid treatment. Diagnostic criteria were generated in 2013 based on a multicenter clinical survey performed by the Behçet's Disease Research Committee of the Ministry of Health, Labor and Welfare of the Japanese Government. Although "Guidelines for Treatment of NB" was also proposed based on the survey, it is still preliminary.

Objectives: The aim of the current study is to develop evidence-based recommendations for the management of NB supplemented by expert opinions where necessary.

Methods: First, clinical questions (CQs) on NB were extracted from a literature search for problem areas and related keywords, and draft CQs and a flow chart were prepared. The expert committee, a task force of the research subcommittee for NB, consisted of 7 board-certified rheumatologists (one was also a board-certified neurologist) and 3 board-certified neurologists. A systematic literature search was performed using Medline and the Japan Medical Abstract Society databases from 1997 to 2016. A total of 15 initial CQs were generated. These yielded the final recommendations developed from 3 blind Delphi rounds, in which the rate of agreement scores on CQs (range 1 [disagree]–5 [strongly agree]) was determined through voting by the whole committee.

Results: Thirteen recommendations were developed for the management of NB (general 1, ANB 7, CPNB 5). The strength of each recommendation was established based on the evidence level as well as rate of agreement. There was excellent concordance between the level of agreement of rheumatologists and that of neurologists. Based on these recommendations, a flow chart was established for the management for ANB and CPNB (Figure).



Conclusions: The recommendations generated in this study are mainly based not only on expert opinions but also on the results of uncontrolled evidence from open trials and retrospective cohort studies. Guidelines that can be used for international studies are needed, for which verification by further properly designed controlled clinical trials is required.

Disclosure of Interest: None declared

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FRI0327 GASTROSCOPIC FEATURES AND CLINICAL CHARACTERISTICS IN 172 CASES OF CHILDREN WITH HENOCH-SCHONLEINPURPURA

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Objectives: To investigate gastroscopic features and explore the relationship between clinical characteristics in children with Henoch-Schonleinpuepura (HSP).

Methods: To take gastroscopie in 172 cases of children with HSP in our hospital and summarize the gastroscopic performance. All the case were divided into two groups by gastroduodenal mucosal bleeding or not. It was compared among the total time of abdominal pain, pain relief, hospitalization, fasting and kidney injury case in the groups.

Results: Gastroscopie with varying degrees of injury of 172 cases has accounted for 169 cases (98.3%). Gastroscopic mainly revealed gastroduodenal mucosal congestion, edema, rough, erosion, bleeding and ulcer, which involved 148 cases of gastric (86.0%), 158 cases of duodenal involvement (91.9%). Mucosal erosion and bleeding occurs mainly in duodenum, mostly in the descending duodenum. Duodenal bleeding accounted for 36 cases (21.8%) in the bulb and 92 cases (55.8%) in the descendant. Only five cases (2.9%) of ulcer occurred in the duodenum, where four cases of bulbar ulcer, one case of descending ulcer. Esophageal and gastric cardia mucosal just occurred in one case. There were not significant difference (P>0.05) among the time of abdominal pain, pain relief, hospitalization and fasting in the group. There was no significant difference

(P>0.05) in the incidence of kidney injury between two groups of children during hospitalization.

Conclusions: Gastroscopic features of HSP in children is characterized by bleeding, erosion of duodenal mucosa and occasional duodenal ulcer formation, which mostly involve the antral mucosa, rarely involving the esophagus, cardia. There was no significant difference (P>0.05) among the severity of gastroscopic performance and the time of abdominal pain, fasting, hospitalization and kidney injury of the cases during hospitalization.

Disclosure of Interest: None declared

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FRI0328 THE DIAGNOSTIC VALUE OF ALPHA-1-ANTITRYPSIN PHENOTYPE IN SYSTEMIC VASCULITIS

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Background: Deficiency of alpha-1 protease inhibitor, or alpha-1-antitrypsin (A1AT) is a frequent genetic disorder, which is characterized by low serum level of A1AT and usually manifests as pulmonary emphysema and liver disease. Also the deficiency of A1AT is known to be associated with granulomatosis with polyangiitis (GPA). The influence of A1AT deficiency on GPA clinical course is not clarified.

Objectives: The aim of this study was to estimate the prevalence of pathological A1AT phenotypes in GPA and other systemic vasculitis and to define the influence of A1AT phenotype on clinical course of GPA.

Methods: We enrolled 86 patients with systemic vasculitis, including GPA (N=47), microscopic polyangiitis (MPA, N=16), eosinophilic granulomatosis with polyangiitis (EGPA, N=12), polyarteritis nodosa (PN, N=11). 46 healthy donors were included in the control group. All blood samples underwent A1AT phenotyping by isoelectrofocusing (IEF) and turbidimetric A1AT measurement. The results of phenotyping were compared to clinical data, such as BVAS activity rate (Birmingham Vasculitis Activity Score), VDI index (vasculitis damage index), organs involvement, inflammatory markers, including antineutrophil cytoplasmic antibodies (ANCA), total IgG concentration and serum levels of C3, C4 complement factors.

Results: Pathological A1AT phenotypes were found in 17% (8/47) of GPA patients, 6,25% (1/16) of MPA patients, 2% (1/46) of healthy donors and were never found in EGPA, PN. The abnormal phenotypes in GPA were 1PiZZ, 4PiMZ, 2PiMF, 1PiMS, and 1PiMS phenotype was identified in MPA patient. Lesion of lung and upper respiratory tract was observed in all patients with pathological phenotypes A1AT (N=8), while in normal phenotype A1AT it was present in 72% and 82% respectively. The mean concentration of A1AT was significantly lower in GPA patients with abnormal A1AT phenotypes, than in patients with normal phenotype A1AT (respectively 1003±148.8 and 1964±127.9 mg/L, p<0,01). The average activity by BVAS index in GPA was significantly higher in patients with pathological phenotype A1AT than in patients with normal phenotype A1AT (24,63±2,897 and 18,05±1,444 points, p<0,05). Also we revealed excess levels of VDI in cohort of patients with abnormal phenotype A1AT rather, than in cohort of patients with normal phenotype A1AT (6,3±3,1 versus 5,4±2,6, p<0,05). The average values concentration of antibodies to proteinase-3 in GPA patients with abnormal phenotype A1AT were significantly higher compared to GPA patients with normal phenotype A1AT (respectively 142,4±25,24 and 86,784±14,98 RU/ml, p<0,05). In GPA patients with mutated A1AT phenotypes levels of serum creatinine concentrations (p<0,01), levels of total IgG concentration and serum levels of C3 and C4 complement factors (p<0,05) also were significantly higher than in group of GPA patients with normal A1AT phenotype.

Conclusions: Pathological A1AT phenotypes are more often observed in GPA patients who have more severe GPA clinical course and higher immunological disease activity.

Disclosure of Interest: None declared

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FRI0329 EFFICACY AND SAFETY OF INFLIXIMAB ORIGINATOR IN PATIENTS WITH TAKAYASU ARTERITIS WITHIN THE RTU (TEMPORARY RECOMMENDATION OF USE) IN FRANCE

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Background: The benefit/risk ratio of infliximab in refractory patient with Takayasu arteritis (TA) is assumed to be favorable, based on retrospective studies with limited sample size [1, 2] in which infliximab has been prescribed off-label. Since 2013, the French Temporary Recommendation of Use (RTU) provides a temporary framework allowing the use of infliximab originator in "TA patients refractory to conventional treatment" during a 3-year period.

Objectives: The aim of the study was to evaluate the real-life efficacy and safety of infliximab originator in TA patients initiating or with ongoing infliximab treatment.