SAT0354 – Figure 1. Interrelation between WPAI-SHP and PsA activity by DAPSA. ORs with 95% CI.

Conclusions: Work disability is commonly found in PsA pts in routine care. REM/LDA status by DAPSA was associated with less disability and better work productivity.

Disclosure of Interest: None declared

SATURDAY, 16 JUNE 2018

Crystal diseases, metabolic bone diseases and bone diseases other than osteoporosis

THE VALIDITY OF GOUT DIAGNOSIS IN PRIMARY AND SECONDARY CARE – RESULTS FROM A PATIENTS SURVEY


Background: Gout affects 1%–2% of adults worldwide being the most common inflammatory arthritis and usually managed in primary care. The gold standard for definitive diagnosis of gout is the presence of monosodium urate crystals (MSU) in joints or tissues and the latest classification criteria from ACR-EULAR also have this as a central item. Microscopy is however seldom performed in primary care today. Although not intended as diagnostic there are several classification criteria, such as the Mexico and the Netherlands criteria that do not include microscopy.

Objectives: The aim of this study was to validate the diagnosis of gout in primary and secondary care according to the Mexico and the Netherlands criteria and items thereof through a patient survey.

Methods: All patients above 18 with an ICD10-diagnosis of gout at a visit in primary care centers and one rheumatology clinic within the Western Sweden Health Care Region. They were sent a questionnaire regarding comorbidities, demographics and gout characteristics. To test the validity of their gout diagnosis, questions of the two gout classification criteria Mexico and the Netherlands were posed. Self-reported knowledge about having gout, was included as an anchor point for the diagnosis. Positive predictive values (PPV) were calculated for these definitions. Structured telephone interviews collecting similar information were performed in 10% of non-responders. The ACR/EULAR criteria was not used, since it includes identification of MSU crystals and imaging as central items.

Abstract SAT0355 – Table 1. Positive predictive values for different classification criteria, anchor points for gout diagnosis and common items of classification criteria

| Definitions used for gout diagnosis | Primary care (n=784) | Secondary care (n=84)
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Hyperuricemia, n(%)</td>
<td>320 (41.8)</td>
<td>55 (66.3)</td>
</tr>
<tr>
<td>Men, n(%)</td>
<td>629 (80.2)</td>
<td>62 (73.8)</td>
</tr>
<tr>
<td>MSU or Striae or Hypertension, n(%)</td>
<td>596 (78.1)</td>
<td>70 (84.3)</td>
</tr>
<tr>
<td>Tophus, n(%)</td>
<td>107 (14.1)</td>
<td>26 (31.3)</td>
</tr>
<tr>
<td>Any MTP1 attack, n(%)</td>
<td>472 (62.4)</td>
<td>39 (47.6)</td>
</tr>
<tr>
<td>Swollen and red joint at attack, n(%)</td>
<td>583 (76.7)</td>
<td>77 (92.8)</td>
</tr>
<tr>
<td>Individual joints ever involved in attacks:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 joint, n(%)</td>
<td>205 (27.1)</td>
<td>3 (3.7)</td>
</tr>
<tr>
<td>&gt;1 joints, n(%)</td>
<td>471 (60.1)</td>
<td>73 (86.9)</td>
</tr>
</tbody>
</table>

§ Myocardial infarction

Results: 1589 individuals with a gout diagnosis were identified. 868 (54.6%) individuals responded. Mean age was 71 years and the proportion of men was 80%.

89% of secondary care patients had ever been treated with Allopurinol compared to 71% in primary care. The PPVs ranged from 78.5% to 94%, in secondary care, being lowest for the Netherlands criteria and highest for self-reported gout (table 1). Corresponding PPVs were marginally lower in primary care (but still over 70% for all criteria). Similar results were found among those interviewed by telephone (not shown).

Conclusions: The majority of patients diagnosed with gout in both primary and secondary care have had clinical symptoms compatible with the Netherlands and Mexico criteria for gout. Diagnoses of gout identified through health care registers is therefore a valid and useful tool for epidemiological research. Patients with gout in secondary care reported more features of gout than patients in primary care.

Disclosure of Interest: None declared

SAT0356

FACTORS INFLUENCING TOPHUS RESOLUTION IN PATIENTS WITH PERSISTENT URATE LOWERING RESPONSES TO PEGLOTICASE

B. Mandell1, A. Yeo2, P. Lipsky3, 4. Cleveland Clinic, Cleveland; 5Horizon Pharma, Lake Forest; 6AMPEL BioSolutions LLC, Charlottesville, USA

Background: Pegloticase is a recombinant mammalian uricase conjugated to polyethylene glycol approved for treatment of chronic refractory gout. It profoundly decreases serum urate levels and also causes rapid resolution of tophi. However, there is considerable heterogeneity in the velocity of tophus resolution.

Objectives: To assess factors that may influence the velocity of tophus resolution in subjects with persistent lowering of serum urate levels.

Methods: This analysis used results from two randomised controlled trials (RCT) of 6 months duration.1,2 Tophus assessment was carried out using Computer-Assisted Photographic Evaluation in Rheumatology (CAPER) methodology.3 Photographs of hands and feet and two other area of visually apparent tophi were taken and assessed for total tophus area and also resolution of tophi in response to therapy. Subjects were defined as responders based upon maintenance of serum urate <6 mg/dL during intensive monitoring periods after 3 and 6 months of treatment. Subject factors evaluated for a relationship with velocity of tophus resolution included age, body mass index, gender, race, and tophus location. Additionally, results for pegloticase responders were subdivided into tertiles on the basis of baseline tophus burden: low (total baseline tophus area <668 mm2), medium (baseline tophus burden 688–1690 mm2), and high (baseline tophus burden >1690 mm2), and the velocity of tophus resolution was determined for each of these groups.

Results: The mean measured total tophus area at baseline was 585.8 mm2 for biochemical responders and complete resolution of all tophi photographed was achieved by 34.8% of this group during the RCT. The velocity of tophus resolution for the pegloticase responders was 60.1 mm2 per month. Clinical features including, age, body mass index, gender, race, and tophus location did not significantly influence the velocity of tophus resolution. The mean (standard deviation (SD)) baseline tophus areas at baseline were 418.4 mm2 (202.4) for subjects with low baseline tophus burden, 1176.9 mm2 (238.7) for those with moderate tophus burden, and 4260.4 mm2 (2784.9) for those with high baseline tophus burden. The mean (SD) velocity of tophus resolution was 28.7 mm2/month (13.6) for patients with low baseline tophus burden, 60.2 mm2/month (53.5) for those with moderate baseline tophus burden, and 89.5 mm2/month (38.7) for those with high baseline tophus burden. Even though the velocity of resolution was greater for those with a larger tophus burden, the time required for complete tophus resolution was substantially less for those with a smaller tophus burden. The projected times to resolution of all visualised tophi determined by linear regression analysis were 6.98, 7.14 and 12.02 months for the subjects with low, medium and high baseline tophus burden (p<0.0001, p<0.0001, p=0.048), respectively.

Conclusions: Pegloticase treatment causes a rapid resolution of tophi in biochemical responders and the rate of decrease is not significantly associated with age, body mass index, gender, race, or tophus location. However, the rate of tophus resolution is inversely correlated with the total tophus burden at the beginning of treatment.

REFERENCES:

Disclosure of Interest: B. Mandell Grant/research support from: Horizon Pharma, Consultant for: Horizon Pharma, Ironwood, A. Yeo Consultant for: Horizon Pharma, P. Lipsky Consultant for: Horizon Pharma