Glucocorticoids (GCs) are regularly used as a bridging therapy in early rheumatoid arthritis (eRA). As long-term treatment, especially at higher dosages, may lead to undesirable adverse events, GCs should be tapered as rapidly as clinically feasible.

The study met its primary endpoints. More concretely, IGU monotherapy and IGU+MTX were found to be superior to MTX at week 52 with a higher ACR20 response of 77.44% (230/297, P = 0.0019) and 77.05% (235/305, P = 0.0028) versus 65.87% (193/293) (fig 1). As shown in fig 1, the structural remission (ΔmTSS≤0.5) was statistically significant for IGU monotherapy (57.4%, P = 0.0308) but not for IGU+MTX arm (55%) versus MTX monotherapy (47.8%).

Overall incidence of the adverse events (AEs) leading to study discontinuation were reported in 13.8% (41/297) in IGU monotherapy arm, 11.26% (33/293) in IGU+MTX monotherapy arm and 11.51% (35/305) patients in IGU+MTX arm. The incidence of adverse drug reactions (ADR) leading to study discontinuation were 11.45% (34/297), 8.53% (25/293) and 9.21% (28/305), respectively. There was no one death and no significant difference in all the safety indicators among the three arms.

Conclusion: Iqigmatomad alone or in combination with MTX demonstrated superior efficacy with acceptable safety compared to MTX for patients with active RA who have not previously used MTX BDMARDs.

Disclosure of Interests: None declared
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TRAJECTORIES OF GLUCOCORTICOID-THERAPY IN EARLY RHEUMATOID ARTHRITIS: FIRST RESULTS OF A SCOPING SYSTEMATIC REVIEW AND META-ANALYSIS OF OBSERVATIONAL COHORT STUDIES

A. Palomakis1, F. Buttgeriet1, 1Charité – Universitätsmedizin Berlin, Department of Rheumatology and Clinical Immunology, Berlin, Germany

Background: Glucocorticoids (GCs) are regularly used as a bridging therapy in early rheumatoid arthritis (eRA). As long-term treatment, especially at higher dosages, may lead to undesirable adverse events, GCs should be tapered as rapidly as clinically feasible.

Objectives: To assess real-world trajectories of GC-therapy initiated in patients with eRA and in methotrexate-naive RA patients.

Methods: We conducted a scoping search in MEDLINE (via PubMed) to find articles (years 2005 – 2020) reporting on eRA (or methotrexate-naive RA) patients from observational cohorts who start or take GCs at baseline. Articles had to describe either dosages or proportions of patients who took GCs or were able to taper GCs at two (minimum) pre-specified time points. The articles were screened by one reviewer (AP). Random-effects meta-analyses pooled results per outcome and time point if ≥3 studies were available. R software with package metafor was used for statistical analyses. A research protocol was published with protocols.io (10.17504/protocols.io.byypftmp).

Results: Our highly specific search strategy yielded 165 results. Twelve articles on nine cohorts were finally included. Eight cohorts originated in Europe, one in Africa. At baseline, about half of the patients with eRA were prescribed GCs with a mean dosage of 8mg/d prednisone equivalent (fig 1). Over time, both the proportion taking GCs and the mean dosage declined. There was substantial heterogeneity between studies.

Conclusion: Our results indicate that GCs remain regularly used drugs in eRA patients and in methotrexate-naive patients with RA. While about 40% of patients still receive GCs after 24 months, mean dosages were tapered to “low” dosages (≤7.5mg/d prednisone equivalent) in all cohorts that reported respective data. Heterogeneity might be caused by country-specific differences. Unfortunately, the validity of sensitivity analyses would be poor due to the paucity of published data regarding GC dosages and proportions of patients taking GCs in observational RA cohorts. Major limitations of this scoping review are the very specific (and consequently less sensitive) search strategy and that the screening was conducted by one reviewer only.

REFERENCES:

TREATMENT EFFECTIVENESS OF UPADACITINIB AT 3 MONTHS IN US PATIENTS WITH RHEUMATOID ARTHRITIS FROM THE UNITED RHEUMATOLOGY NORMALIZED INTEGRATED COMMUNITY EVIDENCE (NICE(TM)) REAL-WORLD DATA

A. Gobolisky1, B. Dhillon2, M. E. Pearson3, N. Tundia4, Y. Song4, K. Dunlap5, G. Wright6. 1Weill Cornell Medical College, Hospital for Special Surgery, New York, United States of America; 2United Rheumatology, Rheumatology, Haupauge, United States of America; 3West Suburban Center for Arthritis, Rheumatology, Brookfield, United States of America; 4AbbVie Inc, Immunology, North Chicago, United States of America; 5Association of Women in Rheumatology, Rheumatology, New York, United States of America

Background: Upadacitinib (UPA), an oral Janus kinase inhibitor (JAKi), has demonstrated efficacy in the phase 3 SELECT clinical program, conducted across a range of patients (pts) with rheumatoid arthritis (RA).1-4. Real-world data for UPA, including in pts previously treated with a JAKi, have not yet been reported since global approvals beginning in 2019.

Objectives: To assess the characteristics of US-based pts receiving UPA and its effectiveness in clinical practice at 3 months.

Methods: This observational study included US-based pts from the United Rheumatology Normalized Integrated Community Evidence (UR-NICE) database who initiated UPA 15mg once daily from FDA approval (August 2019) to July 31, 2020 and had ≥6-month pre-baseline data available. Effectiveness was assessed in pts with a reported Clinical Disease Activity Index (CDAI) score at 3 months after UPA initiation and included proportions of pts achieving CDAI remission (≤2.8), CDAI low disease activity (≤10), other disease activity measures, and pt-reported outcomes. A subgroup analysis assessed UPA effectiveness in pts with or without prior tofacitinib (TOFA) treatment.
Results: This analysis included 252 pts treated with UPA 15 mg, of whom 96 (38.9%) received UPA monotherapy and 154 (61.1%) received UPA combined with conventional synthetic (cs) disease-modifying antirheumatic drugs (DMARDs). 64.3% of pts were from the Southern region of the USA, 86.1%, 72.2%, and 47.6% of pts had been previously treated with csDMARDs, biologic DMARDs, and JAKis, respectively. Baseline characteristics were largely similar between UPA monotherapy and combination therapy groups and those with or without prior TOFA treatment (Table 1). Pts with prior TOFA treatment had a longer duration of RA since diagnosis and higher steroid use versus those without. UPA 15 mg improved disease activity scores (including CDAI) and pt-reported outcomes (including physical function and pain) after 3 months of treatment (Figure 1). Similar effectiveness was observed with UPA 15 mg in pts with or without prior TOFA treatment.

Conclusion: In the UR-NICE real-world database of US-based pts, improvements in clinical and pt-reported outcomes were observed at 3 months in UPA-treated pts with RA, including those with or without prior TOFA treatment, despite the treatment-refractory population included in this dataset.

REFERENCES:

Table 1. Baseline characteristics

<table>
<thead>
<tr>
<th>n (%)</th>
<th>Full analysis set (n=252)</th>
<th>Pts with prior TOFA treatment (n=113)</th>
<th>Pts without prior TOFA treatment (n=139)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean (SD) exposure, days</td>
<td>219.7 (112.1)</td>
<td>215.7 (116.7)</td>
<td>222.9 (108.5)</td>
</tr>
<tr>
<td>Female</td>
<td>199 (79.0)</td>
<td>85 (75.2)</td>
<td>114 (82.0)</td>
</tr>
<tr>
<td>Age ≥65 years</td>
<td>75 (29.8)</td>
<td>34 (30.1)</td>
<td>41 (29.5)</td>
</tr>
<tr>
<td>Oral steroid use</td>
<td>140 (55.6)</td>
<td>70 (61.9)</td>
<td>70 (50.4)</td>
</tr>
<tr>
<td>Prior csDMARDs</td>
<td>217 (86.1)</td>
<td>102 (90.3)</td>
<td>115 (82.7)</td>
</tr>
<tr>
<td>Prior TOFA</td>
<td>113 (44.9)</td>
<td>113 (100.0)</td>
<td>0</td>
</tr>
<tr>
<td>Prior biologic DMARDs</td>
<td>182 (72.2)</td>
<td>86 (76.1)</td>
<td>96 (69.1)</td>
</tr>
<tr>
<td>Tumor necrosis factor inhibitor</td>
<td>147 (58.3)</td>
<td>66 (58.4)</td>
<td>81 (58.3)</td>
</tr>
<tr>
<td>Interleukin-6 receptor inhibitor</td>
<td>87 (34.5)</td>
<td>47 (41.6)</td>
<td>40 (28.8)</td>
</tr>
</tbody>
</table>

Employee of: United Rheumatology, Mark E. Pearson Shareholder of: May own AbbVie stock or options, Namita Tundia Shareholder of: May own stock or options in AbbVie, Employee of: AbbVie, Yanna Song Shareholder of: May own stock or options in AbbVie, Employee of: AbbVie, Kendall Dunlap Shareholder of: May own stock or shares in AbbVie, Employee of: AbbVie, Grace Wright Speakers bureau: AbbVie, Amgen, Bristol-Myers Squibb, Eli Lilly, Exagen, Myriad Autoimmune, Novartis, Sanofi/Regeneron, UCB, and Vindico, Consultant of: AbbVie, Amgen, Bristol-Myers Squibb, Eli Lilly, Exagen, Gilead, Janssen, Myriad Autoimmune, Novartis, Pfizer, Sanofi/Regeneron, and UCB, Employee of: President and Founder of the Association of Women in Rheumatology

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TOFACITINIB IN PATIENTS WITH RHEUMATOID ARTHRITIS IN REAL-WORLD SETTINGS: A NATIONAL MULTICENTER STUDY OF 167 PATIENTS FROM ARGENTINA

M. D. R. Maliandi1, Y. S. Malvano1, A. Cusa2, M. J. Gamba1, R. Gomez3, J. Gof1, O. Gof4, U. V. Paris5, M. A. Spinetti2, C. Mariachi6, A. I. Abalo2, A. Estevez2, J. L. Velazco Zamora10, J. P. Vinicci11, Sanatorio Garay, Rheumatology, Santa Fe, Argentina; 1Sanatorio Modelo Adrogué, Rheumatology, Burzaco, Argentina;