**GRAPPA Treatment Recommendations: 2020 Update**

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NC:
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**ABSTRACT**

Throughout 2020, the Group for Research and Assessment of Psoriasis and PsA (GRAPPA) has been working to update the GRAPPA treatment recommendations for psoriasis and psoriatic arthritis. The planned methodology for this update was published previously, and herein we provide an update on progress so far including details of the systematic literature searches undertaken. GRAPPA is committed to regular updates of its treatment recommendations to incorporate the many significant therapeutic advances that have taken place in the PsA literature since the previous recommendation publication in 2015. The development and updating of treatment recommendations for optimal treatment approaches for patients with psoriatic arthritis (PsA) has been an important mission of the GRAPPA since its inception.

In 2019, GRAPPA started the process to update their treatment recommendations, which were last published in 20151. Significant advances in novel therapies and new evidence on treatment strategies in PsA necessitate regular updates to treatment recommendations.

**Key Domains of PsA**

The GRAPPA treatment recommendations committee made a decision to continue with a domain-based approach to the treatment recommendations, with the major change in 2020 being the split of the comorbidities group into two groups addressing associated conditions (e.g. inflammatory bowel disease [IBD] and uveitis) and comorbidities. Each of these domain groups developed PICO questions to guide the subsequent systematic literature search using Medline, Embase and Cochrane Databases. The search, as outlined in the previous methodology paper2, was first run on November 25, 2019 providing an update on all literature published since February 2013. A total of 2793 unique citations were identified. A single reviewer (NC) screened titles and abstracts against predetermined selection criteria and excluded ineligible publications. Full texts were independently assessed for inclusion by two reviewers (NC and LCC), with disagreements resolved through discussion. Reasons for exclusion at the full text stage were recorded. This review resulted in a total of 50 studies, reported across 101 articles. Data were extracted from the identified randomized, controlled trials (RCTs) by GRAPPA members and checked by a methodologist. A search update was conducted on August 28, 2020, which resulted in 175 unique citations, from which 19 articles were identified reporting 15 studies (including 5 newly published studies). In addition, a further 15 unpublished studies were identified from conference abstracts (n = 32) for consideration. This evidence is summarized including effect sizes for main outcomes and a grading of evidence quality to translate into strong or weak recommendations3. This created a library of extracted data to support each domain group in their recommendations development.

**Guideline Development Process**

GRAPPA committed, once again, to follow GRADE methodology in the development of these recommendations. In the treatment domain groups, the searches focused on RCTs. However due to a lack of data, additional searches were performed within the associated conditions and comorbidities groups to inform advice about comorbidity screening and how it may impact on PsA treatment choice.

Each domain group has been involved in reviewing the extracted RCT data, running additional searches where required and synthesizing this data into domain recommendations.

**Overarching principles and additional guidance statements**

In the 2015 GRAPPA treatment recommendations, a set of overarching principles that will help guide the approach to therapy were included for the first time1. These were developed with both patient and clinician involvement. These will be reviewed for the 2020 recommendations based on any new evidence-based principles and experience-based approaches for goals of treatment. Additional statements are also proposed in the 2020 update to cover the topics of biosimilars and tapering therapy2. These are considered as general treatment principles rather than domain-specific issues. Both are important new developments in the field of PsA in recent years which are particularly relelvant to clinicians across the world. Specific position statements on both of these issues will be included in to the final recommendations with input from the wider GRAPPA membership including patient research partners.

**Summary**

It was clear that an update of the GRAPPA PsA treatment recommendations was necessary linked to the significant advances in individual therapies and treatment approaches for PsA. This process has been undertaken throughout 2020 with some delays related to the worldwide COVID pandemic. Nevertheless, GRAPPA is currently finalising domain specific recommendations with an aim to produce updated treatment recommendations for publciation in 2021.

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