

Characteristics and management of generalized pustular psoriasis (GPP): Experience from the Central and Eastern Europe (CEE) GPP Expert Network

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Our study, based in the CEE region, highlights the substantial clinical burden associated with GPP and the high unmet need for treatments that provide rapid and sustained skin clearance

PURPOSE



To determine the characteristics of GPP flares and

INTRODUCTION

- GPP is a rare, potentially life-threatening, autoinflammatory skin disease, characterised by sudden flares of widespread sterile pustules on non-acral skin that can occur with or without systemic inflammation¹⁻⁵
- Symptoms include pain, itching, fever and fatigue, all of which can severely affect patient quality of life, and patients often require treatment between flares to manage persistent skin lesions^{3, 6–9}
- Current treatment options include cyclosporine, retinoids, methotrexate and biologics, but there are no GPP flarespecific treatments approved in the USA or $Europe^{3,11}$
- Approved biologics in Japan include anti-TNF-a therapies, IL-17/IL-17R inhibitors and IL-23 inhibitors; however, supporting evidence is weak, based on open-label, single-arm trials in small patient populations^{11,12}

CONCLUSIONS

- During GPP flares, patients experienced moderate-to-severe cutaneous symptoms that affected at least 50% of the body, often accompanied by fever and other systemic symptoms; >75% of patients required treatment in hospital
- Although some current treatments may be effective in resolving GPP flares, flare resolution was often slow; these results highlight the high unmet need for treatments that provide rapid and sustained skin clearance
- Currently available biologics and investigational anti-IL-36R agents showed promising efficacy; data from additional patients are needed to fully understand their therapeutic potential

METHODS



- Eligible cases (N=57) that met the GPP diagnosis criteria, as defined by the centre of excellence or ERASPEN, and had follow-up or treatment in the last 10 years were included from 10 centres across the CEE region
- Investigators used CRFs to collect patient demographics; clinical characteristics of the last and most severe flares; and past treatments and their respective outcomes
- **Overview of CRF:**
 - Patient demographics at last observation, including concomitant diseases
 - GPP history: duration of GPP, number of flares since diagnosis, number of flares requiring hospitalisation or ICU admission and _ trigger factors
 - Clinical characteristics of the (1) last flare and (2) most severe flare, including:
 - Flare duration; hospitalisation/ICU care required; GPPGA component scores; total BSA affected; systemic inflammation symptoms; treatments received and duration of treatment; and time from treatment initiation to flare resolution

RESULTS

History of hepatitis B



*For 33 patients, their last flare was their most severe flare. Only patients with available data are included in this analysis.

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was 3.0; median GPPGA total scores were 2.5 and 3.0, respectively; median (range) % BSA affected was 50.0 (1.0-95.0) and 70.0 (9.0-90.0), respectively

Compared with the last flare, the most severe flare typically had more severe cutaneous symptoms affecting a higher % BSA and was more frequently accompanied by systemic symptoms; however, disease severity was also high for the last flare, and this resulted in >75% of patients requiring hospitalisation

Outcomes for all treatments received for GPP, either as single agents, sequentially and/or in combination

4 (7.0)

Parameter	Last flare*	Most severe flare
Median duration of flare, weeks (range)	4.0 (1.0-48.0)	6.0 (1.0–30.0)
Median duration of hospitalisation, weeks (range)	2.0 (0.1–4.0)	2.0 (0.1–28.0)
Median time from treatment initiation to flare resolution, weeks (range)	4.0 (0.1–52.0)	4.0 (1.0–52.0)

Median age was 63 years and median disease duration

was 8 years; 57.9% of patients had presence/history

of plaque psoriasis

*For 33 patients, their last flare was their most severe flare. Only patients with available data are induded in this analysis

Median flare duration was typically longer for the most severe flare than the last flare; median time from treatment initiation to flare resolution varied widely



Summary of non-systematic collection of single case reports; treatment outcomes should not be compared as patients may have received multiple treatments, and time to achieve skin clearance and duration of response are not considered.

*Ret inoids : acitretin or isotretinoin; anti-TNF-a: adalimumab, etanercept, or infliximab; steroids : methylprednisdone or prednisone; anti-IL-36R: spesolimab or imsidolimab.

Treatment with retinoids, PUVA/UVB and methotrexate completely resolved or reduced skin lesions by >90% in 55.3%, 26.1% and 31.8% of cases, respectively; anti-TNF-a agents and other biologics were effective in 33.3–100% of cases, with individual therapies used in 2–5 patients each

Abbreviations

References

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Consuming rionarana, and/or travel refunds from AbbVie, Amgen, Almiral, Boo Eli Lilly, Jansen, LEO Pharma, Medis, Novartis, Sandaz, and Takeda. **CC** receive Samsung, Sanofi and UCB. **MM** served as an advisar/received specker's hore-records s Squibb, Boehring artis **VM** received in and U.S. **JM** served as advisor and/or received speaking fees and/or participated in clinical trials sponsared by AbbVie, Almiral, Amgen, stigator for AbbVie and as an advisor, consultant and/or has been invited to lecture for AbbVie, Alfaging, Boehringer Ingelheim, Galderma, the Pharmaceritatic Consortiation – Instein Blacker Fillilla and Ristla Myerssalitik and as an advisor, consultant and/or invited to lecture for A Eli Lilly, LEO Pharma, Janssen-Cilag, MSD, Nov nson, LEO Pharma, Novartis, Sandoz, Sun Pha n. AS rea CB. ARha i Lilly, Galderma, Genentech, Janssen, Kymat al Editors (ICM IE). The authors did not receive

