F.J. Legat, A. Gruber-Wackernagel, A. Hofer, K. Waltner, P. Wolf Department of Dermatology, Medical University Graz, Austria



Medical University of Graz

Aprepitant, a NK1-antagonist, administered for 16 weeks reduced itch and supported resolution of skin lesions in a patient with chronic prurigo

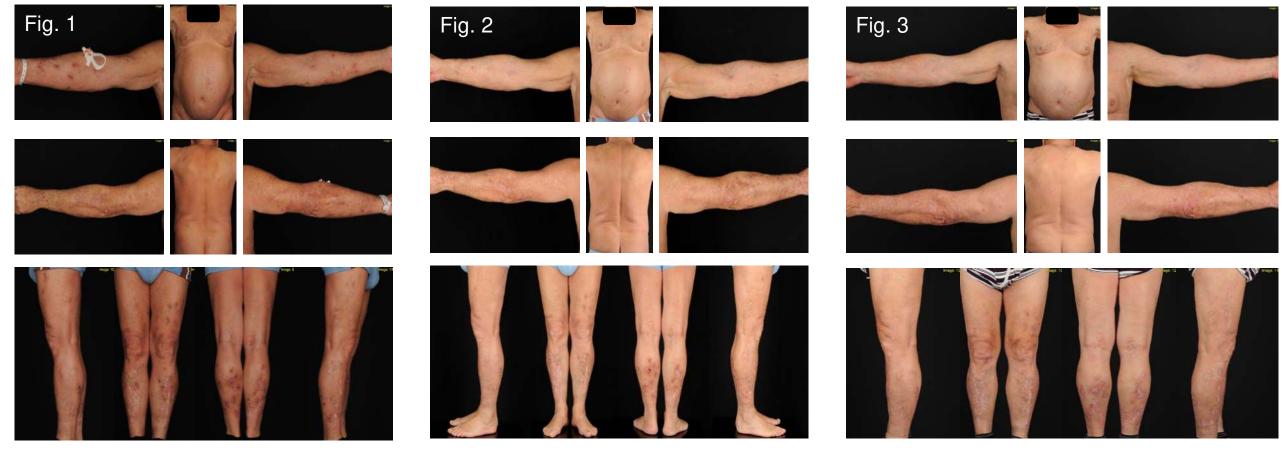
INTRODUCTION

Chronic prurigo (CPR) results from an "itch-scratch-cycle", with chronic pruritus (CP) and repeated scratching leading to pruriginous nodules.

Substance P and its neurokinin-1 receptor (NK1) play an important role in itch pathophysiology. Aprepitant, a NK1-antagonist, licensed for the treatment of nausea and vomiting during highly emetic chemotherapy, had antipruritic effects in CPR during short-term use. However, longterm itch reduction is required to clear pruriginous skin lesions in CPR.

HISTORY

We treated a male patient (73y) suffering for more than 20y from recalcitrant CPR, with permanent itch and pruriginous nodules on his extremities and trunk, with aprepitant 80mg per day for 16wks. Emollients, topical corticosteroids, tacrolimus, and capsaicin, as well as oral antihistamines were without significant effects. Over the years, he repeatedly received UVB, UVA1, oral and bath-PUVA therapies. Finally, after 2 months of saltwater plus narrowband UVB, pruritus was still 4.7 on the VAS (0 = no itch, 10 = worst imaginable itch) and extensively excoriated pruriginous skin lesions were still present(Fig 1)



After 16 weeks of Aprepitant

Follow up 1 year after Aprepitant

OUTCOME

Within 2wks of daily aprepitant 80mg, pruritus weakened from 4.7 to 3.3 (34%) and was 3.0 after 6wks. We then added NB-UVB 3x/wk and after further 4wks topical corticosteroids, once daily for 2wks and then every other day for 2wks. This further reduced itch to 2.2. Eventually, due to the high costs of aprepitant, we reduced its dose to 80mg every other day and stopped it after 2wks completely (Fig 2). Treatment was continued with NB-UVB, intermittent topical corticosteroids, and daily topical calcipotriol. Within further 8wks itch was reduced to 0.5 and only very few excoriations remained.

Before Aprepitant,

after saltwater + UVB311 for 2 months

In the following 32 wks pruritus remained low and pruriginous skin lesions tolerable and under control with the use of calipotriol ointment. A short course of topical corticosteroids was necessary during a flare up of lesions after experiencing a transitory ischemic attack 6 months after the end of aprepitant. Thereafter, only skin care was necessary to control the disease (Fig 3).

CONCLUSION

In conclusion, while various previous treatments were insufficient to permanently reduce itch in our patient, it appears that the long-term (16wks) aprepitant treatment was capable of "breaking the itch-scratchcycle", eventually paving the way for additional UV and topical treatments to become effective in reducing itch and pruriginous lesions in this patient.

