gical atypia is also seen. At the sides of the lesions inward turning of the rete pegs is seen but there are no other findings supportive of human papillomavirus infection. These particular histological findings reflect the unusual clinical appearance of these rather punctate keratotic lesions which do not fit into the ordinary categories of solar keratoses or Bowen's disease seen on sun-exposed sites. Sunbed-related NMSC has been reported but no reports have described the distinct appearance and histology of these dysplastic lesions which could be synonymous with sunbed use.

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remissions.^{2,3} For about 3 years⁴ we have been using a 308nm XeCl monochromatic excimer light (MEL) (Excilite[®]; Deka Mela, Florence, Italy), able to generate 308-nm ultraviolet (UV) B radiation, to produce a power density of 50 mW cm⁻² at a distance of 15 cm from source (decreasing to about 40 mW cm⁻² at the periphery of the spot), and to have a maximum irradiating area of 504 cm² (36 × 14 cm).

Following the experience of Asawanonda et al.,⁵ we started a new protocol based on multiples of the minimal erythema dose (MED). Before treatment, all patients were phototested to determine the MED of 308-nm UVB by exposing a small area of uninvolved skin on the buttocks to a geometric dose range between 150 and 500 mJ cm⁻² (3–10 s). Sixty-nine patients (44 men and 25 women) aged between 18 and 77 years, with Fitzpatrick skin type I-IV, affected by both localized (< 30% of total skin) and diffuse psoriasis vulgaris (> 30% of total skin), were enrolled in this pilot study. Patients were required to discontinue any topical treatment for 4 weeks, and any phototherapy-based or systemic treatment for at least 3 months before enrolment. The psoriasis severity was evaluated according to the Psoriasis Area and Severity Index (PASI 12-36). The dose at the first application varied from 2 to 4 MED, depending on the skin area to be treated and the features (thickness, scaling and erythema) of the psoriatic lesion (Table 1). Subsequent doses were increased by 150-500 mJ $\rm cm^{-2}$ (3–10 s) during the following sessions (one every 7– 14 days), inversely depending on the erythema grading related to the preceding application (the less erythema, the higher increase). The lamp was always located at a distance of 15 cm from the skin area to be treated. Both patients and operators always wore protective goggles. Unaffected skin was always protected with white paper towels or a total-block sunscreen cream. No additional treatments, except an emollient cream under occlusive dressing, were used by the patients during the study period. No mineral oil, usually used in excimer laser treatment, was applied in our protocol. Clinical evaluation was performed once monthly during and after the treatment period up to a maximum follow-up of 13 months.

Complete remission was defined as 76-100% improvement in PASI, partial remission as 51-75% improvement, minimal response as 26-50% improvement and no response as 0-25%improvement. Thirty of the 44 patients with localized psoriasis

Table 1	Initial	light	dose	at	different	cutaneous	areas
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Wide-area 308-nm phototherapy with nonlaser light in the treatment of psoriasis: results of a pilot study

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SIR, The phototherapy-based treatment of psoriasis has been greatly updated during the last decade. Among the newly introduced devices, the 308-nm excimer laser¹ has proved to

2 MED	Lesions of lower limbs in patients with vascular problems
2.5 MED	Lesions at areas such as lower limbs, buttocks,
	abdomen, breastbone area, extensor side of upper
	limbs, face and scalp (with shaved hair)
3 MED	Lesions of back and of dorsal side of arms and
	hands
4 MED	Lesions of elbows and knees



Fig 1. Psoriasis inversa of the axilla (a) before treatment and (b) 4 months after last monochromatic excimer light treatment (two treatments, 0.6 and 0.75 mW cm⁻²).

(Fig. 1) achieved complete remission (68%), 10 experienced partial remission (23%), three showed a minimal response (7%) and only one showed no response (2%); eight of the 25 patients with diffuse psoriasis achieved complete remission (32%), 12 obtained partial remission (48%), three showed a minimal response (12%) and two showed no response (8%). In the localized psoriasis group, the number of sessions varied from one to eight (mean 5.2, median 5.5), and remissions lasted from 2 to 13 months (mean 4.2, median 4.5). In the diffuse psoriasis group, the number of sessions varied from two to 10 (mean 5.8, median 6), and remissions lasted from 1 to 5 months (mean 3.5, median 3.5). The most common side-effects were minimal erythema and itching, with mild and transient hyperpigmentation. These were recorded in all patients, but were well tolerated (no drop-outs). Only three lesions showed blisters after the first or second session. Although the treatment of those lesions was stopped, remission was quickly achieved and lasted up to 1 year.

When compared with traditional phototherapy, MEL can selectively treat single psoriatic lesions, thus sparing clinically unaffected skin, and can achieve clinical remission very quickly with one treatment every 7–14 days. Its major advantages over the 308-nm excimer laser devices are both its lower cost (about 65 000 vs. more than 80 000 euros) and its ability to give uniform irradiation of a 50-times wider area (504 cm²) in a single exposure. Data in the literature indicate that MEL may be an effective alternative to traditional phototherapy.^{6,7} Our preliminary results suggest that MEL phototherapy may prove to be very useful,^{8–10} especially for localized psoriasis. The best protocol in terms of ratio between risks (burns) and benefits (rapidity and stability of remission) remains to be identified.

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