

Considerations
for Pso and PsA
telemedicine
in the time of
COVID-19, and its
impact for clinicians
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## Phototherapeutic approach to dermatology patients during the 2019 coronavirus pandemic: real-life data from the Italian red zone

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DEAR EDITOR, Since novel coronavirus disease 2019 (COVID-19), caused by the SARS-CoV-2 virus, crossed the Chinese borders and became pandemic, Italy has rapidly become the country with the highest number of patient deaths as well as confirmed and/or hospitalized patients, after China. 1,2 On 12 March 2020, Italy was declared a red zone and special protocols were enacted to limit the spread of the virus. Although COVID-19 does not have an epidermotropism, cutaneous manifestations in patients positive for COVID-19 have been reported;3 therefore, departments of dermatology are considered at high risk4 and, in order to minimize nosocomial virus spread were ordered to admit only patients needing urgent treatments or undergoing chronic immunosuppressive therapy. Hence, it is crucial to maintain phototherapy services for immunosuppressed dermatology patients who cannot access other treatments, especially during the COVID-19 emergency.

From 24 February 2020, the Italian Society of Dermatology (SIDeMaST) has produced a series of vademecums<sup>2</sup> to protect both healthcare professionals (HRs) and attending patients, and to manage certain patients in high-risk categories, but no data are currently available on their real-life application. We describe our real-life experience and our phototherapy protocols before and during

red-zone declaration in the San Gallicano Dermatological Institute, a primary referral dermatological hospital in Rome, Italy.

Before 12 March 2020, we were treating 62 patients with vitiligo using narrowband ultraviolet B (NB-UVB); we had 55 patients with psoriasis [45 treated with NB-UVB, three with psoralen plus UVA (PUVA) and seven displaying palmoplantar psoriasis (treated with 308-nm monochromatic excimer light)]; 10 patients with parapsoriasis/mycosis fungoides (three treated with PUVA and seven with NB-UVB); five patients with atopic dermatitis (two treated with UVA1 and three with NB-UVB); and two patients with localized scleroderma (treated with UVA1). To minimize SARS-CoV-2 exposure, a new internal protocol based on telemedicine, triage and treatment ('3Ts') was applied (Figure 1), as follows.

Firstly, via telemedicine, patients due to attend the service the next day undergo a phone call pre-triage in which HRs ask about presence of fever (temperature 37·5 °C/99·5 °F), sore throat, rhinorrhoea, cough, cold and flu-like symptoms; contact with patients confirmed or in quarantine for COVID-19; or recent trips (< 14 days) to other high-risk countries.

Secondly, through triage, if patients pass the pre-triage they are authorized to access the hospital where they undergo a secondary face-to-face triage verifying the pre-triage COVID-19 criteria

Thirdly, patients undergo treatment: after preliminary physician examination, patients receive phototherapy (UVA1 or NB-UVB) delivered only by ramps equipped with 13 Philips TL 01 NB-UVB lamps (fitted with TL 100-W fluorescent tubes; Philips, Amsterdam, the Netherlands), and not by booths, which are difficult to sanitize. Both HRs and dermatologists go into another room and communicate with the patient using a

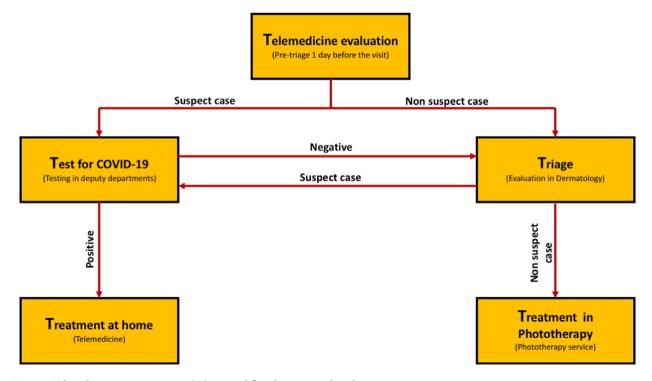


Figure 1 Telemedicine, triage, treatment (3T) protocol for admission to phototherapy.

microphone and speaker system to minimize contact. Ramps and the entire treatment room are sanitized after each patient by cleaning all of the surfaces, including the floor up to 1 m from the lamps, with a hydroalcohol solution containing glutaraldeyde. HRs and physicians wash their hands and brush the subnail region after each patient. Any HRs in direct contact with patients wear the suggested personal protective equipment (mask model N95 with a FFP2 filter protecting, gloves and protective glasses). Patients are encouraged to wear the provided mask entering the phototherapy area and to remove it only during the treatment. Everyone is instructed to maintain a safety distance of 2–3 m.

Patients suspected of COVID-19 infection are tested. In confirmed cases, patients can receive a prescription after undergoing a teledermatological evaluation from home via Skype. Patients with a negative test result can undergo triage in dermatology.

As this protocol does not permit us to perform the same number of visits normally given, we were forced to assign priorities based on disease morbidity, severity and risk or erythroderma (dermatological emergency). Thus, for patients with vitiligo we decided to interrupt NB-UVB and switch them to self-application of tacrolimus ointment (0.1%) for lesions located in resistant sites and 0.03% for sensitive areas, including eyelids) plus systemic antioxidants to continue melanocyte stimulation previously triggered by phototherapy. For patients with psoriasis we opted to maintain NB-UVB only in patients with Psoriasis Area and Severity Index (PASI) > 10 or in patients with rupioid psoriasis. Conversely, patients with PASI < 10 were switched to topical corticosteroids and, if highly keratotic we added a keratolytic agent. Owing to the wellknown immunosuppressive effects of PUVA,6 all patients undergoing this treatment were shifted to NB-UVB with or without retinoids. Patients with poorly infiltrated but generalized parapsoriasis and mycoses fungoides continue NB-UVB. In atopic dermatitis, only patients with Eczema Area and Severity Index > 10 or ScORing Atopic Dermatitis > 30 continue phototherapy and do not switch to topical corticosteroids; in particular, patients undergoing UVA1 were switched to NB-UVB in order to decrease the number of visits (five vs. three), and also because UVA1 beds are difficult to sanitize efficiently. All patients with scleroderma undergoing UVA1 were switched to topical corticosteroids. After these decisions only 38 patients will continue NB-UVB (31 with psoriasis, 10 with parapsoriasis/mycosis fungoides and three with atopic dermatitis).

In conclusion, during the COVID-19 emergency, we believe that phototherapy represents an important resource for treating immunosuppressed at-risk dermatology patients. HRs and dermatologists should carefully follow COVID-19 preventive recommendations.

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## Drug survival and postdrug survival of systemic treatments in a national French cohort of children with atopic dermatitis

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DEAR EDITOR, Systemic immunosuppressive treatments (ISTs) are restricted to severe atopic dermatitis (AD) in children. We describe the first- and second-line use of IST for children with AD in a French retrospective national cohort, by using two survival analyses: 'drug survival' (DS, the duration of treatment) and 'postdrug survival' (PDS, the time between the end of first-line and the beginning of second-line treatment).

Children with AD aged 0–18 years, started with at least one IST from 2008 to 2018 and seen by members of French research groups (15 specialized centres), were included in the DS analysis. Discontinuation of IST was the event of interest in DS analysis; observations were censored if patients were lost to follow-up or still undergoing treatment at the end of the study. Children who discontinued their first-line IST were included in the PDS analysis. The event was the start of a second-line IST; data were censored in case of loss to follow-up