

PROGETTO PSO-AMORE

A consensus-based approach on the management of patients with both psoriasis and psoriatic arthritis in the dermatological and rheumatological settings in Italy: the ADOI PSO-Amore Project.





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First name and family name of each author, separated by commas

- 1) Francesco Cusano, Dermatology Unit, "G. Rummo" Hospital, Benevento; ADOI President.
- 2) Francesca Sampogna, Clinical Epidemiology Unit, Istituto Dermopatico dell'Immacolata-IRCCS, Rome.
- 3) Alexandra Maria Giovanna Brunasso Vernetti, Dermatology Unit, Villa Scassi Hospital, ASL-3, Genoa.
- 4) Stefano Stisi, Rheumatologist, Benevento.
- 5) Gilda Sandri, Rheumatology Unit, University of Modena and Reggio Emilia.
- 6) Giovanna Malara, Dermatology Unit, "Bianchi Melacrino Morelli" Hospital, Reggio Calabria; ADOI psoriasis study group cohordinator.
- 7) Luigi Naldi, Dermatology Unit, "San Bortolo" Hospital, Vicenza.
- 8) Michele Pellegrino, Dermatology Unit, Ospedale della Misericordia, Grosseto.
- 9) Giovanni Luigi Tripepi, Clinical Physiology Unit, CNR-IFC, Reggio Calabria.
- 10) Umberto di Luzio Paparatti, Independent Researcher, Rome.
- 11) Concetto Paolo Agnusdei, Dermatology Unit, "A. Cardarelli" Hospital, Campobasso.
- 12) Claudio Bonifati, Dermatology Unit, San Gallicano Dermatologic Institute-IRCCS, Rome.
- 13) Antonella Celano, Associazione Nazionale Persone con Malattie Reumatologie e Rare APMARR President, Lecce.
- 14) Valeria Corazza, APIAFCO President, Bologna.





- 15) Federica D'Agostino, Epidemiology Unit, "G. Rummo" Hospital, Benevento.
- 16) Rocco De Pasquale, Dermatology Unit, "San Marco" Hospital, Catania.
- 17) Emilio Filippucci, Rheumatology Unit, Marche Polytechnic University, "C. Urbani" Hospital, Jesi.
- 18) Rosario Foti, Rheumatology Unit, "San Marco" Hospital, Catania.
- 19) Giovanna Galdo, Dermatology Unit, Moscati Hospital Avellino.
- 20) Fabiana Gai, Dermatology Unit, "Santi Giovanni e Paolo" Hospital, Venezia.
- 21) Giulia Ganzetti, Dermatology Unit, "C. Urbani" Hospital, Jesi.
- 22) Dario Graceffa, Rheumatology Unit, San Gallicano Dermatologic Institute-IRCCS, Rome.
- 23) Mara Maccarone, in A.DI.PSO. ODV, Rome.
- 24) Annamaria Mazzotta, Dermatology Unit, "San Camillo Forlanini" Hospital, Rome.
- 25) Gennaro Melchionda, Dermatology Unit, Casa Sollievo della Sofferenza-IRCCS, San Giovanni Rotondo.
- 26) Francesca Molinaro, Internal Medicine Unit, Casa Sollievo della Sofferenza-IRCCS, San Giovanni Rotondo.
- 27) Franco Paoletti, Rheumatology Unit, "San Francesco Caracciolo" Hospital, Agnone.
- 28) Silvia Tonolo, ANMAR President, Venezia.
- 29) Adriano Vercellone, Pharmacy Unit, Local Health Unit Naples 3 South, Castellammare di Stabia.
- 30) Rosetta Vitetta, Rheumatology Unit, "S. Andrea" Hospital, Vercelli.
- 31) Gian Domenico Sebastiani, "San Camillo Forlanini" Hospital, Rome

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Composition of the Consensus Conference Committees:

Promoting Committee

Francesco Cusano, Dermatology Unit, "G. Rummo" Hospital, Benevento; ADOI President.

Giovanna Malara, Dermatology Unit, "Bianchi Melacrino Morelli" Hospital, Reggio Calabria; ADOI psoriasis study group cohordinator.

Antonio Arigliani, Italian Medical Research Srl.

Technical Scientific Committee

Alexandra Maria Giovanna Brunasso Vernetti, Dermatology Unit, "Galliera" Hospital, Genoa. (*)

Stefano Stisi, Rheumatologist, Benevento. (*)

Gilda Sandri, Rheumatology Unit, University of Modena and Reggio Emilia. (*)

Luigi Naldi, Dermatology Unit, "San Bortolo" Hospital, Vicenza.

Michele Pellegrino, Dermatology Unit, Ospedale della Misericordia, Grosseto.

Giovanni Luigi Tripepi, Clinical Physiology Unit, CNR-IFC, Reggio Calabria

Umberto Di Luzio Paparatti, Independent Researcher, Rome.

(*) Expert selected within the Technical Scientific Committee





Jury Panel

Concetto Paolo Agnusdei, Dermatology Unit, "A. Cardarelli" Hospital, Campobasso.

Livio Bernardi, Rheumatology Unit, "Clinica Diaz" Hospital, Padua.

Claudio Bonifati, Dermatology Unit, San Gallicano Dermatologic Institute-IRCCS, Rome.

Antonella Celano, APMARR President, Lecce.

Valeria Corazza, APIAFCO President, Bologna.

Federica D'Agostino, Epidemiology Unit, "G. Rummo" Hospital, Benevento.

Rocco De Pasquale, Dermatology Unit, "San Marco" Hospital, Catania.

Emilio Filippucci, Rheumatology Unit, "C. Urbani" Hospital, Jesi.

Rosario Foti, Rheumatology Unit, "San Marco" Hospital, Catania.

Fabiana Gai, Dermatology Unit, "Santi Giovanni e Paolo" Hospital, Venezia.

Giulia Ganzetti, Dermatology Unit, "C. Urbani" Hospital, Jesi.

Dario Graceffa, Rheumatology Unit, San Gallicano Dermatologic Institute-IRCCS, Rome.

Mara Maccarone, ADIPSO President, Rome.

Walter Marrocco, General Practitioner, Palestrina.

Annamaria Mazzotta, Dermatology Unit, "San Camillo" Hospital, Rome.

Gennaro Melchionda, Dermatology Unit, Casa Sollievo della Sofferenza-IRCCS, San Giovanni Rotondo.

Francesca Molinaro, Internal Medicine Unit, Casa Sollievo della Sofferenza-IRCCS, San Giovanni Rotondo.

Franco Paoletti, Rheumatology Unit, "San Francesco Caracciolo" Hospital, Agnone.

Ginevra Pertusi, Dermatology Unit, Vercelli.

Gian Domenico Sebastiani, "San Camillo Forlanini" Hospital, Rome



SEDE C.da Ponte delle Tavole Parco della Luna - 82100 Benevento tel./fax 08241524502 segreteria@adoi.it

CF: 80101420109 P. IVA: 06379991216



Felice Sensi, Rheumatology Unit, "San Camillo Forlanini" Hospital, Rome.

Silvia Tonolo, ANMAR President, Venezia.

Adriano Vercellone, Pharmacy Unit, Local Health Unit Naples 3 South, Castellammare di Stabia.

Rosetta Vitetta, Rheumatology Unit, "S. Andrea" Hospital, Vercelli

Writing Committee of the preliminary Consensus Conference report

Alexandra Maria Giovanna Brunasso Vernetti, Dermatology Unit, "Galliera" Hospital, Genoa

Gilda Sandri, Rheumatology Unit, University of Modena and Reggio Emilia.

Francesca Sampogna, Clinical Epidemiology Unit, Istituto Dermopatico dell'Immacolata-IRCCS, Rome.

Umberto Di Luzio Paparatti, Independent Researcher, Rome.

Stefano Stisi, Rheumatologist, Benevento.

Abstract

Psoriasis is a complex disease often needing a multidisciplinary approach. In particular, the collaboration between dermatologist and rheumatologist is crucial for the management of patients suffering from both psoriasis (PSO) and psoriatic arthritis (PsA). Here we report a series of recommendations from a group of experts, as a result of a Consensus Conference, defining the circumstances in which it is preferable or even mandatory, depending on the available settings, to rely on the opinion of the two specialists, jointly or in a deferred manner. Indications are given on how to organize a 3rd level joint Dermatology-Rheumatology care unit, in connection with 1st and 2nd level clinicians of both specialties, GPs, and other specialists involved in the management of psoriasis. A potential patient journey is suggested, that can be used as a basis for future design and validation of national and/or local diagnostic therapeutic and assistance pathways.



Introduction

Psoriasis is an inflammatory skin condition most frequently presenting in the chronic plaque form characterized by red, flaky, crusty patches of skin covered with silvery scales that can involve all areas of the body, including folds and nails^{1,2}. It affects about 2.8% of the Italian population, in about 25-30% of cases with moderate to severe intensity³; patients affected by psoriasis often develop co-morbidities^{4,5}, as metabolic syndrome (in about 47% of cases in the Italian population); increased risk of cardiovascular diseases; PsA; inflammatory bowel diseases (IBDs - 1.3-1.6 folds more frequent than in general population); ocular involvement, e.g. uveitis (about 10% of cases); and psychological disorders.

PsA is a quite heterogeneous, usually seronegative, chronic inflammatory spondyloarthritis associated with psoriasis^{6–8}, usually characterized by asymmetric peripheral arthritis and axial or spinal involvement. Musculoskeletal manifestations of PsA also include inflammation at the site of attachment of tendons and ligaments (enthesitis), and dactylitis. The diagnosis of PsA requires the exclusion of other possible causes of joint symptoms⁶ and is based on the clinical presentation of joint complaints, radiographic changes, a personal history or a possible family history of psoriasis.

While PsA has a low prevalence in the general population (0.05–0.25%), it is common among patients with psoriasis⁹. Prevalence estimates in psoriatic patients vary considerably (range 6%–41%)^{10–13} depending on the definitions used (i.e. diagnostic codes, rheumatologist diagnosis, classification criteria, diagnostic codes, and the populations measured). The annual incidence has been estimated as 2.7 cases per 100 patients with psoriasis¹⁴. A study on the cumulative incidence of PsA over time in patients with psoriasis reported that 1.7%, 3.1% and 5.1% respectively had developed PsA at 5, 10, and 20 years after their diagnosis of psoriasis¹⁵.

Rheumatologists may have difficulties in identifying and/or treat psoriasis lesions in patients with musculoskeletal disease. On the other side, in 80% of patients, psoriasis precedes the development of arthritis. Thus, the dermatologist often first has the challenge of diagnosing PsA. It has been observed the PsA is underdiagnosed in patients with psoriasis¹⁶, and that in most patients there is a diagnostic delay of more than 2 years¹⁷. Moreover, 58% of the patients with PsA reported receiving no treatment or topical therapy only, leaving their joint disease untreated¹⁸. Such data suggest a need for improved screening,





diagnosis, and treatment of PsA. In a large population-based survey of patients, dermatologists, and rheumatologists¹⁹, 37.6% of dermatologists cited their greatest challenge in managing PsA patients as being differentiating PsA from other arthritic diseases. Different screening tools for PsA are available, however an algorithm to accurately identify patients early is still missing²⁰. Therefore, a multidisciplinary intervention, primarily focused on the interaction between rheumatology and dermatology, is necessary to early detect patients with possible PsA and treat them in the first phase of the disease.

However, this option often collides with practical, economic, and organizational limits, added to the inhomogeneity of assistance provided by the various centers, with the final risk of a large number of requests that could not be fulfilled. If on the one hand it would be useful for the hospital dermatologist to send all patients with psoriasis suffering from painful or inflammatory symptoms of the joints to the rheumatologist, and the hospital rheumatologist should benefit from a dermatological evaluation for all arthritic patients with skin involvement, it is evident that this approach is not feasible in daily practice. Another option is that each specialist should be able to independently manage psoriasis and psoriatic arthritis in the first phases, also for aspects pertaining to the other specialty. However, it is difficult to define at what point one specialist should ask the other specialist for help. Some publications are available on guidelines and recommendations for the management of PsA addressed either to dermatologists^{21,22} or to rheumatologists²³. In particular, an Italian group²⁴ published recommendations for the management of patients with PsA in the dermatology setting.

However, studies that discuss in depth the role of the dermatologist and the rheumatologist in the management of PsA, and in particular on their interaction, are lacking. Using Delphi method, a Spanish group has established guidelines and criteria for the coordinated management of PsA by rheumatologists and dermatologists²⁵. The Authors created algorithms for screening of PsA separately for the dermatology and the rheumatology clinics.

It is more and more evident that the best option for the treatment of PsA should consist in multidisciplinary care units, involving both dermatologists and rheumatologists at the same time²⁶. Even though there is limited evidence²⁷, multidisciplinary management of PsA appears more satisfactory for patients than separate consultation²⁸. Joint dermatology-rheumatology care units have been experienced in the US^{29,30}, in Spain³¹, and in Canada³², showing improvement in outcomes, patient and physician satisfaction, and efficiency.



C.da Ponte delle Tavole
Parco della Luna - 82100 Benevento
tel./fax 08241524502
segreteria@adoi.it



To date, there are no Italian guidelines for the management of the patient with PsA in a joint care unit, and it has not been defined how to select those clinical situations which, depending on the clinical situation of the patient and on the available setting, can or should make use of the evaluation of both specialists, whether jointly or deferred.

Therefore, we decided to arrange a Consensus Conference aimed to: a) define the diagnostic-therapeutic management of multisystem psoriasis both in the dermatological and rheumatological field; b) define the circumstances in which it is preferable or even mandatory, depending on the settings available, to rely on the opinion of the two specialists, jointly or in a deferred manner; c) define the possible collaboration settings between the two specialists and the related ways of interaction, suggesting a potential patient journey that can be used as a basis for future design and validation of National and/or local diagnostic therapeutic and assistance pathways (PDTAs).

Materials and Methods

The methodology chosen was the Consensus Development Program³³, as described in the methodological manual by the National System for Guidelines³⁴. This approach, unlike other methodologies, makes it possible to reach, in a relatively short time and through a formal process, an agreement by a credible and recognized group of experts and users on controversial topics.

According to the abovementioned methodology³⁴, the Promoting Committee appointed a Technical Scientific Committee responsible for the scientific set up of the Conference. Three Experts were selected on the basis of specific skills to prepare and present a critical analysis of the available evidence to a multidisciplinary Jury Panel during the Conference (see also Committee compositions under further information section) and a set of critical questions to be answered in order to reach the final consensus (Fig.1).

The following general inclusion criteria were applied for the assessment and selection of literature:

- a) systematic reviews with or without meta-analysis;
- b) main updated guidelines;
- c) previous Italian Consensus on psoriasis and PsA;





- d) cross-sectional, case-control, and longitudinal studies (case reports, case series, unsystematic reviews, opinions of experts were excluded). These studies were selected based on the presence of internal validity criteria (adequacy of the study design, statistical analysis, presentation of results), adequacy of the sample. If multiple systematic reviews were available, only the most recent ones were considered;
- e) if several reviews considered substantially different studies, the review with the greatest methodological validity was included;
- f) in the possible selection among several systematic reviews, the consistency of the results between them was also assessed.

Before the Conference, the Promoting Committee provided each sub-Committee with a set of specific working instructions, in order to warrant a smoothness event implementation.

The Consensus Conference was arranged via webinar on 10 December 2021. The choice of a remote meeting instead of face-to-face was dictated by the uncertainties due to the current Covid-19 pandemic.

During the Consensus Conference the identified Experts discussed with the Jury Panel their report in order to detect the main issues in the management of psoriasis with and without a multi-organ involvement.

In the following month, the Writing Committee appointed by the Jury drew up the final consensus document, integrating the statements contained in the preliminary document with the relative motivations.

In the present consensus, we refer to three possible levels of care for PsA:

1st level: outpatients Dermatology and Rheumatology Clinics.

2nd level: dedicated Dermatology and Rheumatology Psoriasis and Arthritis Clinics.

3rd level: joint Dermatology-Rheumatology Care Units.

Results





Statements

1. Which should be the role(s) of the outpatient specialist (1st level)?

The outpatient dermatologists and rheumatologists should make the diagnosis, provide information to the patient about the disease, and assess/investigate whether a multi-organ involvement is present. They should set up therapy according to a set of current and updates Guidelines (selected on the basis of the current Consensus)^{43–51} and to the indications of National and local Health Authorities.

The Jury Panel examined the answers to the questions submitted by the Experts on the core scope of the Conference (i.e. how and when setting up an effective cooperation of dermatologists and rheumatologists in order to improve the management of multi-organ psoriasis) and made the following statements.

2. When should the outpatient specialist refer the patient to 2nd level centers?

In case of failure of conventional\biological systemic therapies, the specialist should refer the patient to 2^{nd} level centers. In the event that patients are discharged from these centers, the specialist should continue monitoring the patient. In case of high level of severity and/or multi-organ involvement, it is recommended to refer the patient directly to a 2^{nd} level center.

3. When should the dermatologist request a visit with the rheumatologist?

The dermatologist should ask for the collaboration of the rheumatologist in particular in doubtful cases, i.e., doubtful joint involvement, a particularly disabling joint component, arthralgia or arthritis onset during ongoing treatment, or ineffectiveness of treatment on the joint component.

4. When should the rheumatologist request a visit with the dermatologist?





The rheumatologist should ask for the collaboration of the dermatologist, in particular in doubtful cases, i.e., when there is a severe skin component or in difficult-to-treat areas, at the onset of new cutaneous manifestations, or of ineffectiveness of treatment on the skin component.

5. Which ways of interaction between dermatologists and rheumatologists are advisable?

The best way of interacting would be a joint Dermatology-Rheumatology care unit, i.e., a 3rd level center that allows the patient to reduce waiting and decision time both for the diagnostic and the therapeutic component. Clinical evaluation should be done by both specialists for the selected cases, followed by collegial discussion. If the creation of a joint Dermatology-Rheumatology care unit is not possible, the two specialists should be located in the same site, to facilitate the access for patients. Also, there should be indirect routes via APP or website for the aforementioned patients initially assessed by the dermatologist as well as by the rheumatologist. Telemedicine could be useful for the direct discussion of cases.

6. How should a joint Dermatology-Rheumatology care unit be organized?

Third level centers should guarantee the possibility of direct booking of visits with double referral, optimizing resources and time. They should equip themselves with tools of epidemiological monitoring and databases to assess the clinical and socio-economic impact of the interventions and their safety. They should create a network with 1st level clinicians of both specialties, GPs, and other specialists involved in the management of psoriasis. They should ensure homogeneity in the access to treatment according to national and international guidelines, to overcome differences among regions and centers in the access to innovative therapies.

7. How to ensure the provision of multi-specialist services (dermatology and rheumatology) to patients?

Interaction between dermatologists and rheumatologists should be increased at local, regional, and national level with shared events and the creation of joint guidelines. Booking lists with preferential channels should be provided not only for the first visits and subsequent ones, but also for the instrumental examinations necessary for the evaluation of the severity of joint disease in patients awaiting therapy.



SEUE
C.da Ponte delle Tavole
Parco della Luna - 82100 Benevento
tel./fax 08241524502
segreteria@adoi.it

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Telemedicine should be implemented to allows case triage, joint evaluation during follow-up, and active

discussion to reach shared therapies.

8. Is it possible to propose an algorithm to guide dermatologists and rheumatologists in the management

of multisystem psoriasis and that can be used for implementing specific local and/or regional integrated

care pathway for psoriatic disease?

In Italy, there are at least two examples of integrated care pathway independently developed by

dermatologists and rheumatologists and used in the clinical practice^{52–54} which have been reviewed by the

panelists and used as a reference to propose a specific algorithm for the joint management of psoriasis in

the clinical practice (Figure 2)

Conclusions

As far as we know, the PSO-Amore project is the first consensus conference developed in Italy by a broad

multidisciplinary team, involving also patients' advocate representatives, aimed to improve the

management of patients with both psoriasis and PsA. However, in practice the communication between the

two specialties is often lacking or delayed. The main conclusion of the consensus conference was the need

of creating multidisciplinary settings with dermatologists and rheumatologists working together, in order to

warrant the highest level of management of patients with psoriasis and PsA. The situations in which each

specialist should ask for the collaboration of the other were defined. The organization of joint Dermatology-

Rheumatology clinics was discussed. Also, alternative ways of communication between specialists were

proposed, in case the creation of a joint clinic was not possible.

The conference was arranged according to the Italian Guidelines of the ISS, allowing a transparent

assessment and discussion among the panelists. This generated a series of statements that can be used by

both dermatologists and rheumatologists in their daily clinical practice. The results of the consensus were

summarized as statements and not recommendations, since they were not based on levels of evidence, but

on experts' opinion.

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Figures

Figure 1: Schematic representation of the Conference Committees & interaction flow.

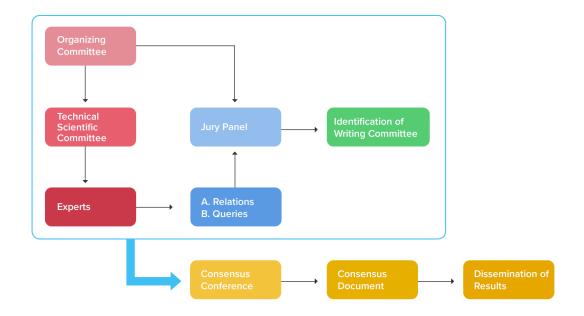
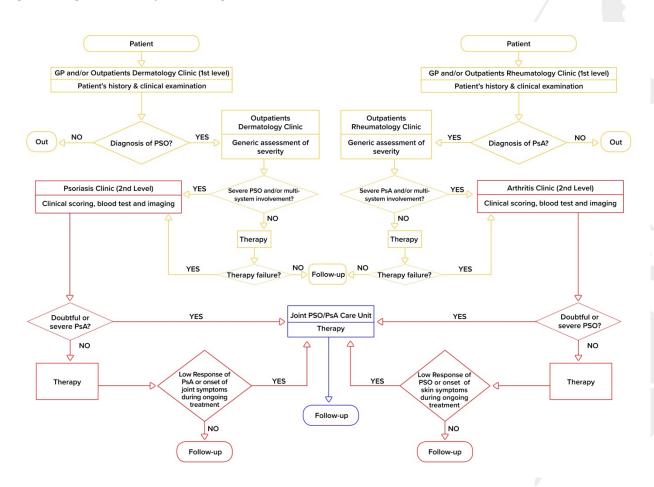




Figure 2: Algorithm for a joint management of Psoriasis.







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C.da Ponte delle Tavole
Parco della Luna - 82100 Benevento
tel./fax 08241524502
segreteria@adoi.it



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SEUE
C.da Ponte delle Tavole
Parco della Luna - 82100 Benevento
tel./fax 08241524502
segreteria@adoi.it



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SEUE
C.da Ponte delle Tavole
Parco della Luna - 82100 Benevento
tel./fax 08241524502
segreteria@adoi.it

CF: 80101420109 P. IVA: 06379991216



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