

BENEATH THE SURFACE

PSORIATIC ARTHRITIS IN YOUR
PATIENTS WITH PSORIASIS

ADDITIONAL RESOURCES POSTTEST ANSWERS AND RATIONALE

POSTTEST QUESTION 1:

Jeremy is a 26-year-old white male who presents with a history of psoriasis involving his lower back, elbows, knees, lower legs and scalp for 4 years. He has been treating his psoriasis with topical steroids and calcipotriene. He also notes that his fingernails are “funky” and has been treating them with antifungals but has not had any improvement. He notes he suffered several injuries while deployed to Iraq and complains of stiffness in his back and feet, especially in the morning. He often wakes up at night to move around because his back gets sore. Other than that, Jeremy is healthy, a non-smoker, and has 1-2/beers per evening and recently started a job as a Fed-Ex driver. He is beginning to date but is self-conscious of his skin.

What initial assessments would you conduct on Jeremy?

- A. Full body skin examination.
- B. Full body skin examination and evaluation of the joints of the hands and feet.
- C. Skin examination of hands/feet/back including the finger and toenails.
- D. Full body skin examination, joint evaluation of the hands/feet, tendons of the Achilles, and evaluation of the finger and toenails.

Correct Answer: D.

Explanation:

It is important to conduct a full body skin examination to identify BSA. Higher BSA adds to severity and the greater the severity, the greater the risk of developing PsA. Also evaluate the joints of the hands and feet for swelling and dystrophic joint changes, especially of the DIPs and PIPs. Nail findings of onycholysis, nail pitting or oil spots are also associated with higher risk of PsA. Enthesitis is also part of PsA and the Achilles tendons are a common place to unveil this, and therefore, should be palpated. Axial disease is difficult to assess without radiography so a back joint examination is less useful. You can, however, ask about back pain and stiffness.

Gottlieb A, Korman NJ, Gordon KB, et al. [Guidelines of care for the management of psoriasis and psoriatic arthritis: Section 2. Psoriatic arthritis: overview and guidelines of care for treatment with an emphasis on the biologics.](#) *J Am Acad Dermatol.* 2008; 58:851-864.

POSTTEST QUESTION 2:

Your clinical examination of Jeremy reveals a BSA of 20%, and you find several DIPs of the fingers slightly disfigured and tender to palpation. Several fingernails have multiple pits and distal onycholysis. Most of his toenails are thickened distally with lifting of the nail plate. You perform a KOH scraping from the great toenails which is negative. A nail culture is negative for dermatophyte or yeast. Based on these clinical findings you suspect that John has severe psoriasis and early symptoms of PsA.

You decide the next course of action will be to:

- A. Obtain a punch biopsy of the skin plaque to confirm a diagnosis of psoriasis.
- B. Obtain a quantiferon gold test, Hep B panel and a CBC in anticipation of starting a TNF alpha blocker.
- C. Obtain X-rays of his hands, feet and back to confirm a diagnosis of PsA.
- D. Obtain a rheumatoid factor, an ANA and serum uric acid level to confirm a diagnosis of PsA.

Correct Answer: B.

Explanation:

Based on clinical findings and history, there is no need to do a punch biopsy to confirm psoriasis. There is no one X-ray or lab test to confirm a diagnosis of PsA. You could potentially refer him to Rheum to confirm the diagnosis. It is most prudent to initiate a TNF alpha blocker given his BSA of 20% (severe PsA). TNF alpha blockers are also appropriate first line therapy for PsA. TNF alpha blockers require TB and Hep B screening prior to initiating therapy.

Gottlieb A, Korman NJ, Gordon KB, et al. [Guidelines of care for the management of psoriasis and psoriatic arthritis: Section 2. Psoriatic arthritis: overview and guidelines of care for treatment with an emphasis on the biologics.](#) *J Am Acad Dermatol.* 2008; 58:851-864.

POSTTEST QUESTION 3:

Jeremy is initiated on a TNF alpha inhibitor and returns to your clinic in 3 months to assess response. Jeremy is thrilled that his skin is clearing nicely but he notes that his joints, while somewhat better, are still stiff in the morning and his back pain still awakens him at night.

Your next step would be to:

- A. Add methotrexate 20mg once a week with folic acid 1mg daily.
- B. Stop the TNF alpha inhibitor and switch to an IL-17 inhibitor.
- C. Continue the TNF alpha inhibitor and refer to rheumatology.
- D. Continue the TNF alpha inhibitor and refer back to primary care provider.

Correct Answer: C.

Explanation:

It might be reasonable to consider adding methotrexate. However, you would not start at such a high dose, but rather slowly titrate up, starting at 7.5mg or 10mg once a week with FA 1mg daily. It is too soon to consider switching therapy without a further work up of joint symptoms, especially since his skin is responding well. It is completely within the dermatology provider's purview to refer directly to rheumatology and should be done so to expedite evaluation for the patient's sake. Depending on your familiarity with your rheum's preference, you may consider ordering screening X-rays and labs, but it is usually not necessary. It is essential that you provide a thorough history of the patient's psoriasis symptom and treatment history in the rheumatology referral.

Gottlieb A, Korman NJ, Gordon KB, et al. [Guidelines of care for the management of psoriasis and psoriatic arthritis: Section 2. Psoriatic arthritis: overview and guidelines of care for treatment with an emphasis on the biologics.](#) *J Am Acad Dermatol.* 2008; 58:851-864.

POSTTEST QUESTION 4:

Types of arthritis include:

- a. Asymmetric oligoarthritis—dactylitis.
- b. Predominant DIP involvement—nail changes.
- c. Arthritis mutilans—osteolysis of involved joints, “telescoping” of digits.
- d. “Rheumatoid-like” disease—fusion of wrists.
- e. Axial involvement—asymmetric sacroiliitis and “jug handle”-like syndesmophytes.
- f. Enthesitis.

Which types of arthritis domains from listed below require biologics as first line of treatment according to the GRAPPA recommendations?

- A. a, e, f
- B. a, e
- C. a, b, c, d, e, f
- D. a, b, e, f

Correct Answer: D.

Explanation:

Biologics are the first line therapy for patients with PsA who have dactylitis, nail disease, axial disease, and/or enthesitis.

Coates LC, Kavanaugh A, Mease PJ, et al. [Group for Research and Assessment of Psoriasis and Psoriatic Arthritis 2015 treatment recommendations for psoriatic arthritis](#). *Arthritis Rheumatol*. 2016;68(5):1060-1071.

NATIONAL PSORIASIS FOUNDATION WEB SITE

<https://www.psoriasis.org/about-psoriatic-arthritis>

INTERNATIONAL PSORIASIS COUNCIL WEB SITE

<http://www.psoriasis-council.org/>

GRAPPA WEB SITE

<http://www.grappanetwork.org/>

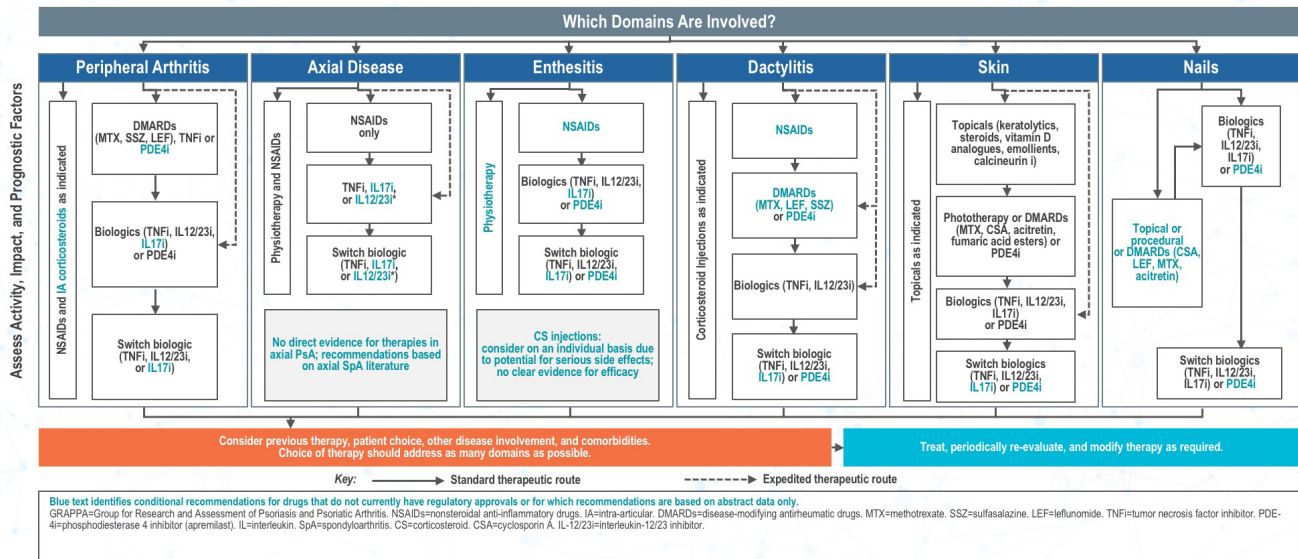
Easy Screening Tools for Dermatology Providers

There are 4 screening tools available.



Mishra S, et al. *Br J Dermatol.* 2017;176(3):765-770.

GRAPPA Treatment Schema for Active PsA



Coates LC, et al. *Arthritis Rheumatol.* 2016;68:1060-1071.

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REFERENCES

1. Alamanos Y, Voulgari PV, Drosos AA. [Incidence and prevalence of psoriatic arthritis: a systematic review.](#) *J Rheumatol.* 2008; 35:1354-1358.
2. American College of Rheumatology, National Psoriasis Foundation. American College of Rheumatology (ACR) and National Psoriasis Foundation (NPF) Psoriatic Arthritis Guideline. Project Plan – November 2016. <https://www.rheumatology.org/Portals/0/Files/ACR-NPF%20Psoriatic%20Arthritis%20Guideline%20Project%20Plan.pdf>. Accessed May 2, 2018.
3. Bogliolo L, Alpini C, Caporali R, Scirè CA, Moratti R, Montecucco C. [Antibodies to cyclic citrullinated peptides in psoriatic arthritis.](#) *J Rheumatol.* 2005;32:511-515.
4. Bruce IN, Schentag C, Gladman DD. [Hyperuricemia in psoriatic arthritis does not reflect extent of skin involvement.](#) *J Clin Rheumatol.* 2000;6:6-9.
5. Chandran V, Schentag CT, Gladman DD. [Reappraisal of the effectiveness of methotrexate in psoriatic arthritis: results from a longitudinal observational cohort.](#) *J Rheumatol.* 2008;35:469-471.
6. Clegg DO, Reda DJ, Meijas E, et al. [Comparison of sulfasalazine and placebo in the treatment of psoriatic arthritis.](#) *Arthritis Rheum.* 1996;39:2013-2020.
7. Coates LC, Kavanaugh A, Mease PJ, et al. [Group for Research and Assessment of Psoriasis and Psoriatic Arthritis 2015 treatment recommendations for psoriatic arthritis.](#) *Arthritis Rheumatol.* 2016;68(5):1060-1071.
8. Gelfand JM, Gladman DD, Mease PJ, et al. [Epidemiology of psoriatic arthritis in the population of the United States.](#) *J Am Acad Dermatol.* 2005;53(4):573.
9. Gladman D, Rigby W, Azevedo VF, et al. [Tofacitinib for psoriatic arthritis in patients with an inadequate response to TNF inhibitors.](#) *N Engl J Med.* 2017; 377:1525-1536.
10. Gottlieb A, Korman NJ, Gordon KB, et al. [Guidelines of care for the management of psoriasis and psoriatic arthritis: Section 2. Psoriatic arthritis: overview and guidelines of care for treatment with an emphasis on the biologics.](#) *J Am Acad Dermatol.* 2008; 58:851-864.
11. Haroon M, Kirby B, FitzGerald O. [High prevalence of psoriatic arthritis in patients with severe psoriasis with suboptimal performance of screening questionnaires.](#) *Ann Rheum Dis.* 2013; 72:736-740.
12. Kaeley GS, Eder L, Aydin SZ, Gutierrez M, Bakewell C. [Enthesitis: A hallmark of psoriatic arthritis.](#) *Semin Arthritis Rheum.* 2018;pii: S0049-0172(17)30627-3. [Epub ahead of print, January 6,2018]
13. Kimball AB, Gladman D, Gelfand JM, et al; National Psoriasis Foundation. [National Psoriasis Foundation clinical consensus on psoriasis comorbidities and recommendations for screening.](#) *J Am Acad Dermatol.* 2008;58(6):1031-1042.
14. Mease P, Genovese MC, Gladstein G, et al. [Abatacept in the treatment of patients with psoriatic arthritis: results of a six-month, multicenter, randomized, double-blind, placebo-controlled, phase II trial.](#) *Arthritis Rheum.* 2011; 63:939-948.
15. Mease P, Hall S, FitzGerald O, et al. [Tofacitinib or adalimumab versus placebo for psoriatic arthritis.](#) *N Engl J Med.* 2017; 377:1537-1550.
16. Mease PJ, Gladman DD, Helliwell P, et al. [Comparative performance of psoriatic arthritis screening tools in patients with psoriasis in European/North American dermatology clinics.](#) *J Am Acad Dermatol.* 2014; 71:649-655.
17. Mease PJ, Gottlieb AB, van der Heijde D, et al. [Efficacy and safety of abatacept, a T-cell modulator, in a randomised, double-blind, placebo-controlled, phase III study in psoriatic arthritis.](#) *Ann Rheum Dis.* 2017; 76:1550-1558.
18. Mease PJ, van der Heijde D, Ritchlin CT, et al. [Ixekizumab, an interleukin-17A specific monoclonal antibody, for the treatment of biologic-naïve patients with active psoriatic arthritis: results from the 24-week randomised, double-blind, placebo-controlled and active \(adalimumab\)-controlled period of the phase III trial SPIRIT-P1.](#) *Ann Rheum Dis.* 2017; 76:79-87.
19. Nash P, Kirkham B, Okada M, et al. [Ixekizumab for the treatment of patients with active psoriatic arthritis and an inadequate response to tumour necrosis factor inhibitors: results from the 24-week randomised, double-blind, placebo-controlled period of the SPIRIT-P2 phase 3 trial.](#) *Lancet.* 2017; 389:2317-2327.



REFERENCES (CONT.)

20. [Orencia \(abatacept\)](#) [package insert]. Bristol-Myers Squibb Company. Princeton, NJ; 2017.
21. Raychaudhuri SP, Wilken R, Sukhov AC, Raychaudhuri SK, Maverakis E. [Management of psoriatic arthritis: Early diagnosis, monitoring of disease severity and cutting edge therapies](#). *J Autoimmun*. 2017;76:21-37.
22. Ritchlin CT, Kavanaugh A, Gladman DD, et al. [Treatment recommendations for psoriatic arthritis](#). *Ann Rheum Dis*. 2009;68:1387-1394.
23. Saad AA, Symmons DP, Noyce PR, Ashcroft DM. [Risks and benefits of tumor necrosis factor-alpha inhibitors in the management of psoriatic arthritis: systemic review and metaanalysis of randomized controlled trials](#). *J Rheumatol*. 2008;35:883-890.
24. Scarpa R, Cosentini E, Manguso F, et al. [Clinical and genetic aspects of psoriatic arthritis "sine psoriasis."](#) *J Rheumatol*. 2003;30:2638-2640.
25. Taylor W, Gladman D, Helliwell P, et al. [Classification criteria for psoriatic arthritis: development of new criteria from a large international study](#). *Arthritis Rheum*. 2006;54(8):2665-2673.
26. Turkiewicz AM, Moreland LW. [Psoriatic arthritis: current concepts on pathogenesis-oriented therapeutic options](#). *Arthritis Rheum*. 2007;56:1051-1066.
27. Walsh JA, Callis Duffin K, Krueger GG, Clegg DO. [Limitations in screening instruments for psoriatic arthritis: a comparison of instruments in patients with psoriasis](#). *J Rheumatol*. 2013; 40:287-293.