

Best Practice Guideline

I. Alopecia Areata

II. Diagnosis/Screening

- a. Primarily made clinically
 - i. Well-circumscribed patch(es) of non-scarring hair loss
 - ii. "Exclamation point" hairs (distal ends of hair are wider than proximal ends) at the borders of the lesions (characteristic)
 - iii. Regrowth of hairs are often fine, white, and/or gray
 - iv. Other forms:
 1. Alopecia totalis (AT)- total loss of all hair on the scalp
 2. Alopecia universalis (AU)- loss of all hair on body
 3. Ophiasis- band-like loss of hair across the periphery of the scalp
 - v. May see nail involvement: fine pitting of nail plates, punctate leukonychia, and rough nails (trachyonychia)
- b. Scalp biopsy
 - i. Peribulbar lymphocytes affecting the terminal anagen hairs like a "swarm of bees (characteristic)
 - ii. Decreased number of terminal anagen hairs
 - iii. Increased number of catagen-telogen hairs
 - iv. Miniaturized anagen follicles with bulbs in the mid dermis
- c. No laboratory tests are diagnostic
 - i. May be associated with autoimmune diseases, primarily thyroid disease. If suspicion or for long-standing/severe cases, obtain lab work
 1. ANA
 2. Rheumatoid factor
 3. TFTs
 4. Serum vitamin B12

III. Treatment

- a. Because condition is benign, treatment is optional
 - i. Limited hair loss typically will regrow hair within 1 year.
 - ii. There is no curative treatment available; recurrences can be frequent
 - iii. For support, patients may look into www.naaf.org
- b. May mask hair loss with hair pieces, hats, and/or scarves; makeup or tattooing for eyebrow hair loss
- c. Topical steroids
 - i. If limited mild alopecia or children
 - ii. Typically prescribe clobetasol propionate gel or solution BID. May also use under occlusion q 24 hrs at bedtime.
- d. Minoxidil
 - i. For patchy and extensive involvement (>50% scalp involvement); not effective for AT/AU
 - ii. Use minoxidil 5% solution BID
- e. Intralesional corticosteroid injections
 - i. If mild to moderate alopecia (<25% involvement)
 - ii. Use triamcinolone acetonide aqueous suspension 2.5-10mg/cc
 - iii. Injected intradermally in 0.05-0.1cc/injection not exceeding a total of 1-2cc per visit
 - iv. Space injections 0.5-1.0cm apart in a patch

- v. Repeat every 4-8 weeks
- f. Prostaglandins
 - i. For loss of eyelashes
 - ii. Bimatoprost 0.03% qd to eyelid margins
- g. Anthralin
 - i. Anthralin 1% cream qd for 15-20 min then increase time by 5 min (up to 1 hr) every week or until mild dermatitis develops
- h. Topical immunotherapy
 - i. Use diphencyprone or squaric acid dibutylester to induce an allergic contact dermatitis
 - ii. Start with 2% lotion in small area (4cm) then dilute concentration and apply to areas gradually increasing dosage weekly (0.001%-2%) until mild dermatitis (goal: tolerable level of pruritus and erythema)
- i. PUVA
 - i. For severe disease; variable effectiveness
 - ii. PUVA turbans- towels soaked in 0.0001% 8-methoxypsoralen and warmed up to 37°C; wrap around scalp for 20 min. followed by UVA radtx
- j. Excimer laser- 2x/week for 24 sessions
- k. Systemic corticosteroids
 - i. Oral prednisone 40mg tapered for 6 weeks, oral dexamethasone 5mg two consecutive days/week, or triamcinolone 40mg IM q month
 - ii. May induce regrowth but hair loss recurs when discontinued
- l. Systemic cyclosporine
 - i. 5mg/kg/day alone or with low dose steroid
 - ii. May induce regrowth but hair loss recurs when discontinued.
- m. Methotrexate
 - i. 15-20mg alone or with 20mg of prednisone q week
 - ii. May induce regrowth but hair loss recurs when discontinued.
- n. Sulfasalazine
 - i. Gradually increase from 0.5g to 1.5g BID
 - ii. May induce regrowth but hair loss recurs when discontinued.

IV. Surveillance/Indications for Consultation

- a. If association with autoimmune disease, refer to rheumatology and/or pcp.
- b. If psychological impact, refer to psychologist for management.

V. References

- a. Mesinkovska, N.A. & Bergfeld, W.F. (2014). Alopecia areata: Diagnosis and treatment. *Journal of Dermatology for Physician Assistants*, 8 (1), 16-22.
- b. Sperling, L.C., Sinclair, R.D., and Shabrawi-Caelen, L.E. (2012). Alopecias. In J.L. Bologna, J.L. Jorizzo, & J.V. Schaffer (Eds.), *Dermatology* (pp.1100-1102). New York, NY: Elsevier.
- c. Wolff, K., Johnson, R.A., & Saavedra, A.P. (2013). *Alopecia Areata*. In A.M. Sydor & K.J. Davis (Eds.), *Fitzpatrick's color atlas and synopsis of clinical dermatology* (pp. 767-770). New York, NY: McGraw Hill.