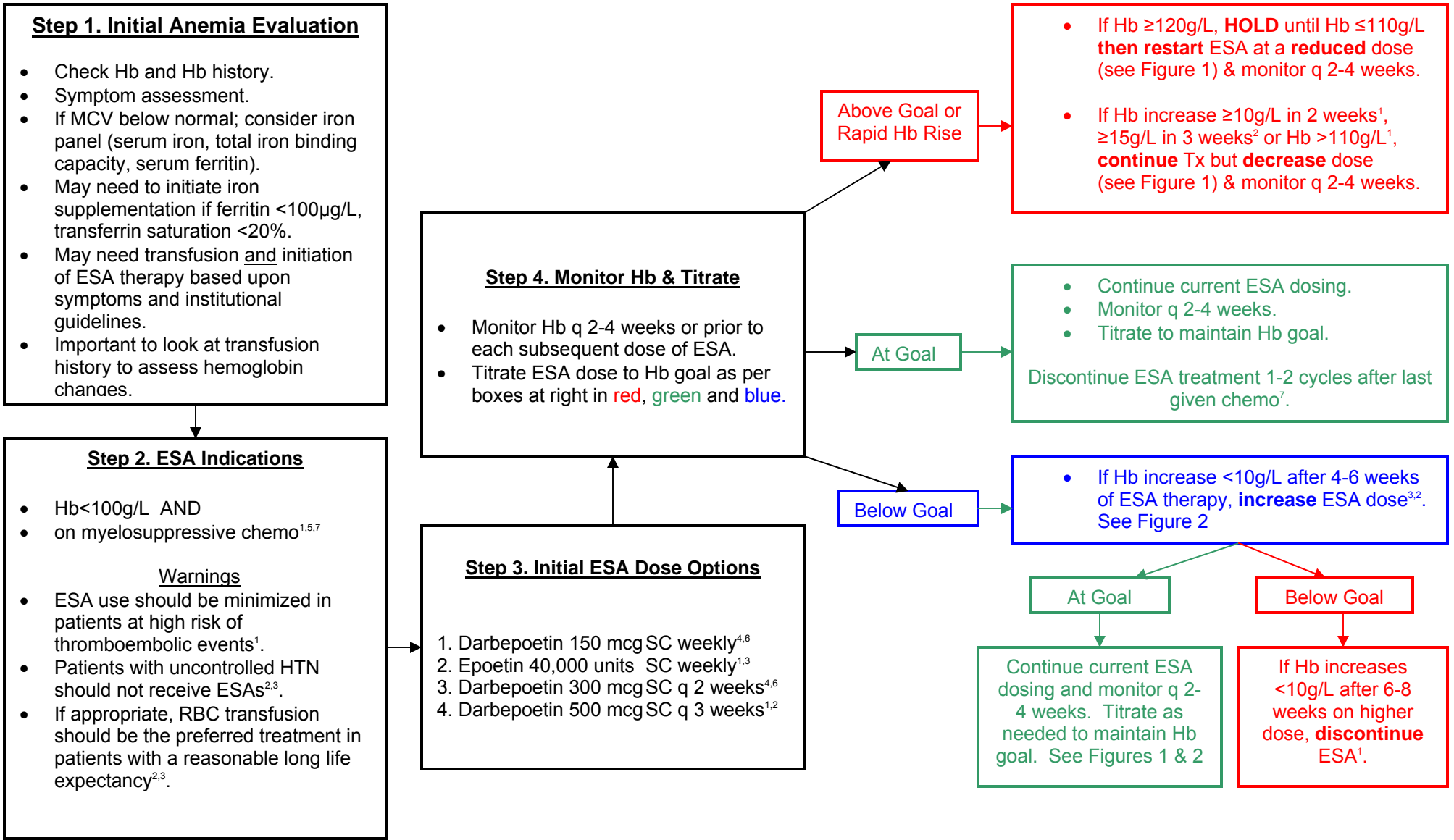


Anemia algorithm references

1. 2007 ASCO/ASH Clinical Practice guideline update on the use of epoetin and darbepoetin; *Blood* pre-published online Oct 22, 2007; DOI 10.1182/blood-2007-08-109488
2. Aranesp Canadian product monograph 2009
3. Eprex Canadian product monograph 2009
4. Schwartzberg L, Rearden T, Yee L, et al. A phase II, randomized, open-label study to assess the efficacy of extended-dose schedule administration of darbepoetin alfa in cancer patients with chemotherapy-induced anemia. Presented at the 48th Annual Meeting of the American Society of Hematology; December 9–12, 2006; Orlando, Florida. Abstract 1306.
5. NCCN Clinical practice guidelines for Cancer and Treatment Related Anemia v3 2007; http://www.nccn.org/professionals/physician_gls/PDF/anemia.pdf
6. Rearden T, Schwartzberg L, Mirtsching B, Tomita D, Lillie T, Burkes R, Silberstein P. Evaluation of extended dosing intervals versus weekly dosing of darbepoetin alfa (DA): A phase 2 study in cancer patients with chemotherapy-induced anemia (CIA). 14th Annual Meeting of the European Cancer Conference (ECCO); Sept 23-27, 2007; Barcelona, Spain; Abstract P#1141.
7. Mikhael J, Melosky B, Cripps C, Rayson D, Kouroukis CT. Canadian Supportive Care Recommendations for the Management of Anemia in Patients with Cancer. *Current Oncology* vol 4, number 5:1-9, Oct 2007

This algorithm developed by the following pharmacists: A. Granic & M. Abdallah (Grand River Regional Cancer Centre), T. McFarlane (Cambridge Memorial Hospital) and L. Sax & K. Levac (London Regional Cancer Program); November 2007. Revised May 2009. Endorsed by LRCP STPT, June 2009.

Anemia Algorithm for Erythropoietic Stimulating Agent (ESA) Use in Chemotherapy Induced Anemia



Tx Goals

- Hb increase of at least 10g/L above baseline.
- NOT TO EXCEED Hb=120g/L^{1,7}**

Figure 1. Dose Decrease Options

- Decrease Darb 150 to 100 mcg SC weekly⁴
- Decrease Epo 40,000 to 30,000 units SC weekly³
- Decrease Darb 300 to 200 mcg SC q 2 weeks⁴
- Decrease Darb 500 mcg to 300 mcg q 3 weeks^{2,4}

Figure 2. Dose Increase Options

- Increase Darb 150 to 300 mcg SC weekly
- Increase Epo 40,000 to 60,000 units SC weekly³
- Increase Darb 300 to 500 mcg SC q 2 weeks
- DO NOT Increase Darb 500 mcg dose if no response after 8 weeks². Discontinue ESA.