

Disclaimer: This algorithm has been developed for MD Anderson using a multidisciplinary approach considering circumstances particular to MD Anderson's specific patient population, services and structure, and clinical information. This is not intended to replace the independent medical or professional judgment of physicians or other health care providers in the context of individual clinical circumstances to determine a patient's care. This algorithm should not be used to treat pregnant women. For transgender men assigned female at birth, determine if ovarian tissue remains intact.

PRESENTATION

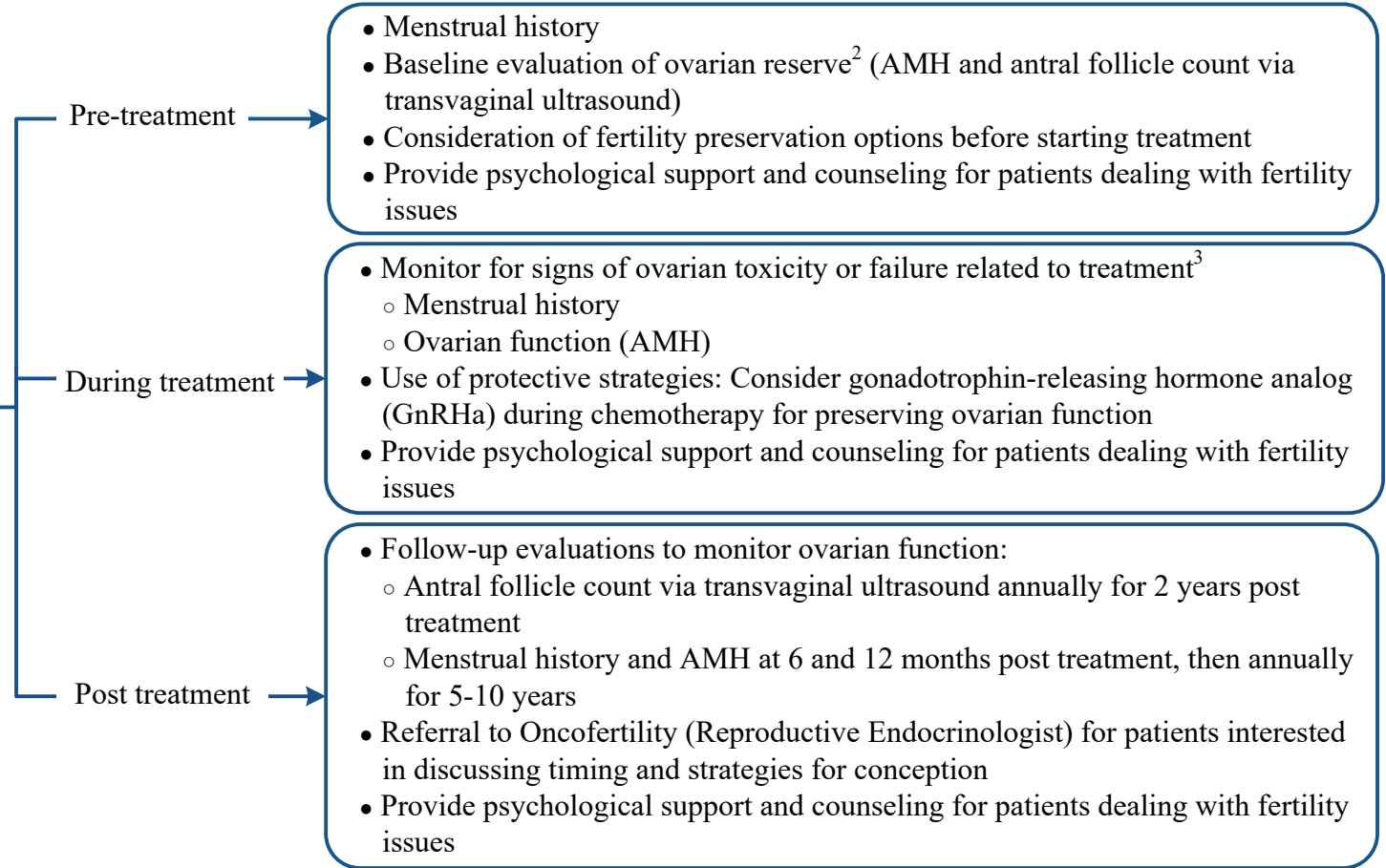
Female of reproductive age¹ (18-43* years) undergoing treatments that impact ovarian function or with novel agents for which ovarian toxicity data are not yet available

Offer fertility counseling if patient has not completed childbearing (or is ambivalent)

- Referral to Oncofertility (Reproductive Endocrinologist) to discuss fertility preservation options such as cryopreservation of oocytes and/or embryos, cryopreservation of ovarian tissue and ovarian suppression before starting treatment

Determine the patient's phase of cancer care

OVARIAN FUNCTION AND TOXICITY MONITORING



AMH = anti-müllerian hormone

* Upper age limit of 43 years selected as live birth rate (with own oocytes harvested after age 43) is less than 5%

¹ Premenopausal women with at least a portion of one ovary

² Concomitant medications such as GnRHa, hormonal contraceptives and endocrine therapy, and surgical procedures (hysterectomy, endometrial ablation, tubal ligation or salpingectomy, and bilateral oophorectomy) can affect the interpretation of ovarian reserve markers

³ For agents with sparse data on the mechanism and extent of ovarian toxicity, assessment of clinical and biochemical markers is recommended every 6-12 months while on treatment

Disclaimer: This algorithm has been developed for MD Anderson using a multidisciplinary approach considering circumstances particular to MD Anderson's specific patient population, services and structure, and clinical information. This is not intended to replace the independent medical or professional judgment of physicians or other health care providers in the context of individual clinical circumstances to determine a patient's care. This algorithm should not be used to treat pregnant women. For transgender men assigned female at birth, determine if ovarian tissue remains intact.

SUGGESTED READINGS

- Cui, W., Rocconi, R. P., Thota, R., Anderson, R. A., Bruinooge, S. S., Comstock, I. A., ... Phillips, K-A. (2023). Measuring ovarian toxicity in clinical trials: An American Society of Clinical Oncology research statement. *The Lancet Oncology*, 24(10), e415-23. doi:10.1016/S1470-2045(23)00390-X
- Oktaç, K., Harvey, B. E., Partridge, A. H., Quinn, G. P., Reinecke, J., Taylor, H. S., ... Loren, A. W. (2018). Fertility preservation in patients with cancer: ASCO clinical practice guideline update. *Journal of Clinical Oncology*, 36(19), 1994-2001. doi:10.1200/JCO.2018.78.1914
- Practice Committee of American Society for Reproductive Medicine. (2013). Fertility preservation in patients undergoing gonadotoxic therapy or gonadectomy: A committee opinion. *Fertility and Sterility*, 100(5), 1214-1223. doi:10.1016/j.fertnstert.2013.08.012
- Siegel, R. L., Miller, K. D., Wagle, N. S., & Jemal, A. (2023). Cancer statistics, 2023. *CA: A Cancer Journal for Clinicians*, 73(1), 17-48. doi:10.3322/caac.21763
- Society for Assisted Reproductive Technology (2024). *Final National Summary Report for 2021*. Retrieved from <https://sartcorsonline.com/CSR/PublicSnapshotReport?ClinicPKID=&reportingYear=2021&fromDisclaimer=true>

Disclaimer: This algorithm has been developed for MD Anderson using a multidisciplinary approach considering circumstances particular to MD Anderson's specific patient population, services and structure, and clinical information. This is not intended to replace the independent medical or professional judgment of physicians or other health care providers in the context of individual clinical circumstances to determine a patient's care. This algorithm should not be used to treat pregnant women. For transgender men assigned female at birth, determine if ovarian tissue remains intact.

DEVELOPMENT CREDITS

This survivorship algorithm is based on majority expert opinion of the Ovarian Toxicity workgroup at the University of Texas MD Anderson Cancer Center. It was developed using a multidisciplinary approach that included input from the following:

Core Development Team Leads

Laurie J. McKenzie, MD (Gyn Onc & Reproductive Medicine)

Workgroup Members

Olga N. Fleckenstein, BS[♦]
Katherine Gilmore, MPH (Cancer Survivorship)
Thoa Kazantsev, MSN, RN, OCN[♦]
Michael Roth, MD (Pediatrics)
Whittney Thoman, MS, ACSM-CEP, ACSM-CET (Cancer Survivorship)
Roni Wilke, MD (Gyn Onc & Reproductive Medicine)
Terri Woodard, MD (Gyn Onc & Reproductive Medicine)

[♦]Clinical Effectiveness Development Team