

Late Effects of Bone Marrow Transplant From Head to Toe

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Eyes

Long Term Complications	Risk Factors	What Can I Do?
 Cataracts Microvascular retinopathy Sicca syndrome (Dry Eyes) 	Total Body RadiationGVHDHigh Dose Steroids	 Ophthalmologic evaluation for changes in vision Have risk factors? Consider yearly eye exams with an ophthalmologist

Oral Cavity

Long Term Complications	Risk Factors	What Can I Do?
 Dental Caries Periodontal disease Sicca syndrome (Dry Mouth) Oral Cancer 	 GVHD High dose radiation to the head or neck 	 Routine dental exams and cleaning*** Screening for oral cancer

^{***}Ask your physician if it is safe to begin dental exams, and whether you need preventative antibiotics prior to dental procedures.

Lungs

Long Term Complications	Risk Factors	What Can I Do?
Non-infectious pneumonia	Certain types of chemotherapyRadiationGVHD	Report new symptomsDon't smoke!

Reproductive Organs

Long Term Complications	Risk Factors	What Can I Do?
Infertility	Chemotherapy Radiation	Test female hormones or sperm count



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Heart

Long Term Complications	Risk Factors	What Can I Do?
Congestive heart failureCoronary artery disease	 Anthracycline chemotherapy High dose radiation to the chest 	 Report new symptoms Reduce preventable risk factors for heart disease

- 1. Eat right
- 2. Maintain a healthy weight
- 3. Stay active
- 4. Don't smoke
- 5. Get screened and treat when needed:
 - 1. High blood pressure
 - 2. High cholesterol
 - 3. Diabetes

Bones

Long Term Complications	Risk Factors	What Can I Do?
OsteopeniaOsteoporosis	Adult womenAllogeneic > AutologousHigh dose Steroids	 DEXA (bone density scan) at 1 year post transplant; repeat in 1-2 years as needed Weight bearing exercise Calcium +Vitamin D
Avascular necrosis (shoulders or hips)	High dose Steroids	 Tell your physician about any new joint pain Reduce steroid dose as quickly as able

Skin

Long Term Complications	Risk Factors	What Can I Do?
Skin Cancers	Immunosuppressive medicationSun exposure	 Wear sunscreen and/or hats and long sleeves At higher risk? Yearly skin exams with a dermatologist

Reference: Majhail NS, Rizzo JD, Lee SJ, et al. Recommended screening and preventive practices for long-term survivors after hematopoietic cell transplantation. *Biol Blood Marrow Transplant*, 2012; 18(3): 348-371.