

2. Secondary malignancy

ALL PATIENTS

- 1) Patient education re risks of secondary malignancy and importance of prompt reporting of new symptoms or masses
- 2) Detailed history, including family history
- 3) Careful clinical examination (particularly of the radiotherapy field) at Long Term Follow Up clinic visits; more frequent examination may be needed in response to new or suspicious symptoms / signs
- 4) Advise on reduction of risk behaviour, especially smoking and sunbathing

PATIENTS WITH A HISTORY OF A FAMILIAL CANCER SYNDROME

- 1) Discuss referral to Clinical Genetics service

POST-PUBERTAL FEMALE PATIENTS EXPOSED TO THORACIC OR MEDIASTINAL RADIOTHERAPY

- 1) In addition to management in *All Patients* above, see *Breast*

RISK FACTORS

- Radiotherapy – all tissue in radiation fields
- Chemotherapy, particularly:
 - Epipodophyllotoxins
 - Alkylating agents
- Familial cancer syndromes, particularly:
 - Heritable retinoblastoma
 - Li Fraumeni syndrome
 - Neurofibromatosis type 1
 - Fanconi anaemia

REFERENCES

- Reviews**
- 1) Robison LL. Survivors of childhood cancer and risk of second tumor. *J Natl Cancer Inst* 1993; **85**: 1102-1103.
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 - 3) Powers A, Cox C, Reintgen DS. Breast cancer screening in childhood cancer survivors. *Med Pediatr Oncol* 2000; **34**: 210-212.
- Specific**
- 1) Bhatia S, Robison LL, Oberlin O, *et al*. Breast cancer and other second neoplasms after childhood Hodgkin's disease. *N Engl J Med*. 1996; **334**: 745-751.
 - 2) Hawkins MM, Kinnier Wilson LM, Burton HS, *et al*. Radiotherapy, alkylating agents, and risk of bone cancer after childhood cancer. *J Natl Cancer Inst* 1996; **88**: 270-278.
 - 3) Smith MA, Rubinstein L, Anderson JR, *et al*. Secondary leukaemia or myelodysplastic syndrome after treatment with epipodophyllotoxins. *J Clin Oncol*. 1999; **17**: 569-577.
 - 4) Garwicz S, Anderson H, Olsen JH, *et al*. Second malignant neoplasms after cancer in childhood and adolescence: a population-based case-control study in the 5 Nordic countries. The Nordic Society for Pediatric Hematology and Oncology. The Association of the Nordic Cancer Registries. *Int J Cancer* 2000; **88**: 672-678.
 - 5) Neglia JP, Friedman DL, Yasui Y, *et al*. Second malignant neoplasms in five-year survivors of childhood cancer. Childhood Cancer Survivor Study. *J Natl Cancer Inst* 2001; **93**: 618-629.