

Reproductive Care of Childhood and Adolescent Cancer Survivors: A Twelve-Year Evaluation

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Abstract

Background: Reproductive complications for cancer survivors are identified as one of the top unmet needs. Current models of care do not routinely incorporate reproductive follow-up for cancer patients. The Kids Cancer Centre have had a one stop survivorship clinic which includes a gynecologist and fertility specialist. **Methodology:** To inform the future development of our reproductive survivorship care we audited this service over a twelve-year period reviewing who used the service and their gonadotoxic risk, their reproductive needs and concerns. **Main results:** 278 patients were seen (397 consultations), including 189 female patients (68.0%). Median age at follow up was 25.0 years (range=6-50) and they were 19.2 years from their primary diagnosis (range=3-46). We identified 10 themes of reproductive need. Patients had on average 2.5 reproductive concerns documented per consultation (range 1-5). The three most commonly documented concerns at initial consultation related to fertility status (43.9%), endocrine dysfunction (35.3%), and contraception advice (32.4%). In patients younger than 25 years discussions were predominately about endocrine dysfunction, fertility status and contraception, while dominant themes for 26-35 years olds were fertility status, reproductive-related health prevention strategies, contraception and endocrine dysfunction. Survivors aged 36-45 prioritised fertility status, pregnancy, and contraception. Fertility preservation ($p=0.05$), preventative health strategies ($p=0.001$), and contraception advice ($p<0.001$) were more commonly discussed by females than males. **Conclusion:** Longitudinal reproductive follow up care is important, as patients have a number of ongoing reproductive concerns which change over time. Our data can assist in informing the model of care.

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Table 1 - Themes derived from reproductive health consultations.docx available at <https://authorea.com/users/330978/articles/457731-reproductive-care-of-childhood-and-adolescent-cancer-survivors-a-twelve-year-evaluation>

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Table 2- Patient demographic and clinical characteristics.docx available at <https://authorea.com/users/330978/articles/457731-reproductive-care-of-childhood-and-adolescent-cancer-survivors-a-twelve-year-evaluation>

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Table 3 - Consultation Characteristics Over Time.docx available at <https://authorea.com/users/330978/articles/457731-reproductive-care-of-childhood-and-adolescent-cancer-survivors-a-twelve-year-evaluation>

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Figure 1 - Top five reproductive topics discussed by age group.docx available at <https://authorea.com/users/330978/articles/457731-reproductive-care-of-childhood-and-adolescent-cancer-survivors-a-twelve-year-evaluation>

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Figure 2- Trends in reproductive topics raised over time by year of consultation.docx available at <https://authorea.com/users/330978/articles/457731-reproductive-care-of-childhood-and-adolescent-cancer-survivors-a-twelve-year-evaluation>