

PARENTAL OCCUPATIONAL EXPOSURE AND CHILDHOOD CANCER IN MATO GROSSO: A DESCRIPTIVE STUDY

Mariana Rosa Soares¹, Wanderlei Antônio Pignati¹, Mônica Birrada¹, Thafnes Samara Barros Chaves¹, Murilo Kaeu Leao Arruda Soares¹, Franciny Conceição da Silva Garcia², Emanuelly Baldi², Márcia Leopoldina Montanari Corrêa¹, Noemi Dreyer Galvão¹, Amanda Cristina de Souza Andrade¹

¹ Federal University of Mato Grosso, Cuiabá, Mato Grosso, Brazil.

² University Center of Várzea Grande, Várzea Grande, Mato Grosso, Brazil.

INTRODUCTION: Child and adolescent cancer are one of the main causes of morbidity and mortality in children and adolescents between the ages of zero and nineteen. Among the factors associated with the increase in cases is parental exposure to physical and chemical agents in the preconception period and during pregnancy. **OBJECTIVE:** To describe parental exposure of parents of children and adolescents diagnosed with cancer in the state of Mato Grosso. **MATERIAL AND METHODS:** This is an observational study based on an analysis of medical records and telephone interviews with parents or guardians of children and adolescents treated at a referral hospital in Mato Grosso. The parents' occupation was classified according to the subgroups of the Brazilian Classification of Occupations. **RESULTS:** 28 interviews were conducted with parents and/or guardians of children aged between 2 and 19. Among the mothers, the highest proportion had completed high school (35.7%) and were aged between 20 and 24 during pregnancy (32.1%). In the pre-conception period, the most common occupation was saleswoman and demonstrator (29.2%), while during pregnancy, domestic workers predominated (45.8%). Among the fathers, 35.7% were over 35 years old and had a similar level of education to the mothers. In the pre-conception period and during pregnancy, 14.4% were rural workers and 10.7% worked in construction. As for residence, 85.7% lived in urban areas, 46.4% reported aerial spraying of pesticides in their municipalities, and 35.7% lived near agricultural crops. **CONCLUSION:** Most of the mothers worked in commerce before pregnancy and later migrated to domestic work. Among the fathers, there was a predominance of rural and construction workers, sectors frequently exposed to harmful chemical and physical agents with carcinogenic and mutagenic potential. In addition, environmental exposure was also relevant, since many participants lived in areas where pesticides were sprayed and near crops. These findings reinforce the need for future studies to explore the relationship between parental occupations and the development of childhood cancer in Brazil.

Keywords: cancer, parental exposure, environmental toxicology.

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