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STIMULATED WHOLE SALIVA MEASUREMENT IN CHILDREN RECEIVING CANCER THERAPY

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ABSTRACT

The purpose of this case-control clinical study was to determine whether chldren receiving cancer therapy present lower levels of saliva when comparing with healthy children.

42 pediatric patients were divided in two groups: GROUP A (CONTROLS) consisted on 21 healthy children (10 females, 11 males; mean age= 8.8 yearse, s.d. = 3.4;). GROUP B (CASES) consiste don 21 children receiving cancer therapy (12 females, 9 males; mean age= 8,6, s.d. 3,6) extracted form their respective populations.

Patients were asked to chew a 1 cm² wax piece for exactly 60 seconde to stimulate saliva Flow, and then to expectorate the accumulated saliva into a disposable plastic receiving vessel. Saliva level was measured for each patient using a double measurement with plastic siringe calibrated to 0,1 ml. For each group, SWS means (X₁ and X₂) were calculated. In GROUP A, X₁ = 1,34 ml/min (s.d. = 1,49) and in GROUP B the X₂ = 0,91 ml/min (s.d. = 1,14). A Student-t test was performed and results show that both means are not equal (p < 0,01).

In conclusion, when the values of SWS levels in children receiving cancer therapy are compared with the values of healthy children, the differences are significant (p < 0,01). A program of prevention and clinical management ot oral complications following chemotherapy and radiation therapy should be implemented for children with cancer.