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Clinical characteristics, laryngeal dysplasia and HPV genotypes in Juvenile-Onset Recurrent Respiratory Papillomatosis: A prospective observational study in Northeastern Mexico.

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Objective: To evaluate the clinical characteristics, presence and severity of laryngeal dysplasia and human papilloma virus (HPV) genotypes in patients with juvenile-onset recurrent respiratory papillomatosis (JORRP) in a tertiary care facility in Northeastern Mexico.

Design: A prospective observational study in patients with JORRP who underwent biopsy by suspension microlaryngoscopy.

Setting: A single tertiary care unit with pediatric and adult otolaryngology services in Northeastern Mexico.

Participants: Thirty patients with JORRP.

Main outcome measures: Clinical data, number of surgical resections, presence and severity of dysplasia, and HPV genotypes as determined by the reverse linear hybridization INNO-LiPA assay. Results: Median age at presentation was 3.5 years (range 8 months to 17 years), 22 patients were females (73.3%) and 8 males (26.7%). The main symptom was dysphonia (53.3%) and the total number of resections per patient ranged 2 to 550 (median 15.5). Dysplasia was identified in 13 patients (43.4%). The most frequent genotypes were HPV-11 (40%) and HPV-6 (36.7%). Co-infection with two or three genotypes was detected in seven patients (23.3%), including the genotype HPV-16 in four of them (10%).

Conclusions: Patients with JORRP experienced a significant delay in establishing the diagnosis, required multiple surgical resections, and had a high rate of laryngeal dysplasia. The most common HPV genotypes were 11 and 6, followed by HPV-16. This is the first study in Mexico evaluating clinical characteristics, dysplasia severity and HPV genotypes in patients with JORRP.

Biography

Dr. Gerardo C. Palacios-Saucedo completed his M.D. degree from the Universidad Autonoma de Coahuila, Mexico and completed his Ph.D. from the Universidad Autonoma de Nuevo Leon, Mexico. He is Head of the Health Research Division and Titular B Researcher in the Hospital de Especialidades No. 25 Instituto Mexicano del Seguro Social in Monterrey, and Level II National Researcher by the Consejo Nacional de Ciencia y Tecnología Mexico. He has published 68 papers, most in indexed and high impact journals.

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