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Comparison of E-cadherin/Beta-catenin complex in inflammatory nasal polyps, sinonasal inverted papilloma and nasopharyngeal carcinoma

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Cell-cell junctions are important to maintain cell and tissue polarity and integrity. E-cadherin/Beta-catenin complex plays significant role in maintaining epithelial integrity. Disruption of this complex not only affects the adhesive properties of cells but also activates the Wnt signaling pathway, which is observed in many malignancies and fibrotic disorders. We conducted this study to compare the dysregulation of this complex In Inflammatory Nasal Polyps (INP), Sinonasal Inverted Papillomas (SIP) and Naso Pharyngeal Carcinomas (NPC). A cross-sectional study was conducted on 82 cases, retrieved from archives of Chughtai Lab, Lahore, out of which 68 cases were of INPs, 9 cases were of SIP and 5 cases were of NPC using non-probability consecutive sampling technique. Our study showed dysregulation of this complex in 19 (27.9%) cases of INPs, which were predominantly accompanied by fibrosis, 7 (77.8%) cases of SIP and in all 5 (100%) cases of NPC. Nuclear staining was evident in all 5 cases of NPC. Our study concluded that this complex is dysregulated in INPs associated with fibrosis and in neoplastic disorders. Dysregulation of E-cadherin/Beta-catenin complex may be involved in recurrence and malignant transformation of INP and SIP. Therefore close follow up is required for such patients of INP and SIP, to prevent recurrence and progression of disease.

Biography

Rabia Butt has obtained her MBBS from University of Health Sciences, Pakistan in 2006. She did her Postgraduate training from Services Institute of Medical Sciences and completed her training in 2012. She is also a Member of International Academy of Cytology. Currently she is working as a Consultant Histopathologist, Department Coordinator and In-Charge of Post-graduate Residency Program (FCPS) Histopathology at Chughtai Lab, Lahore, Pakistan.

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