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Cytomegalovirus correlation with bladder cancer patients by using insitu hybridization technique in Baghdad city

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Abstract: Worldwide, one of the most common cancers is bladder carcinoma which is infect mostly the older people with highest incidence especially in the industrialized countries. The most important factor associated with many human cancers including bladder carcinoma is viral agent, that's why, this study was resolved to determine the correlation of human cytomegalovirus in some Iraqi patients with bladder carcinoma by using insitu hybridization technique. A series of fourty bladder tissue block from different sites(transitional cells and squamous cells) from patients who had undergone cystactomy and already diagnosed by specialist as a bladder cancer patients. Samples were collected during the period between 2012 until 2014> The mean age of those patients was 62.6 years ranged between 45-85 years of 20 women and also 20 men . The histological grade included 21,9 and 10 of well, moderate and poor differentiated type, whereas, the tumor staging included 30 patients falling in stage I-II and the other 10 patients falling in III-IV tumor stage, most of cases 25 out of 40 were transitional cell carcinoma and 15 of them were squamous cell carcinoma. Human cytomegalovirus was detected in 17(42.5%) out of 40 patients , while, according to the positive results of CMV, it was related in highly significant association with each of sites and the grade of the tumor and with significant correlation with age, gender and the stage , but there was no significant relation found with smoking patients.

Keywords: Bladder cancer, Cytomegalovirus, Insitu hybridization.

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