Familial cancer is decreasing site-specifically in upper gastrointestinal cancers from the upper third esophagus to gastric cardia in a Chinese high-risk region

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Shared susceptibility loci were reported for esophageal squamous cell carcinoma (ESCC) and gastric cardia adenocarcinoma (GCA) in northern Chinese high risk region. However, ESCC is noted for multicentric occurrence whereas GCA shows a marked male preponderance. We aim to investigate if the proportion of familial cancer is decreasing site-specifically from upper, middle, lower third ESCC to GCA. Site-specific family history (FH), multiple primary malignancies, age at onset and sex ratio were compared among 7,267 consecutive ESCC and/or GCA patients underwent cure-intent surgery between 1970 and 1994 at the 4th Hospital of Hebei Medical university. In results, 42.1 and 59.3 % of the male and female multiple primary cancer patients had a positive FH, and it decreased site-specifically from 38.5, 26.3, 26.5 for upper, middle, lower third ESCC to 11.2% for GCA in male, and from 25.0, 22.3,23.9 to 9.8 % in female respectively; Median age of onset grew from 49 to 52 to 55 in male and from 50 to 53 to 55 to 56 years old in female; Sex ratio increased from 2.2, 2.1, 2.2 to 6.2:1; Multiple primary cancers decreased from 21.2 to 2.3 to 2.2 to 1.5 % in male and 14.3 to 2.4 to 3.4 to 3.1 % in female. The proportion of familial cancer is decreasing across upper, middle, low third ESCC and GCA. This reminds clinicians how often and what second cancer is associated with site-specific UGICs. It is worthwhile to investigate the underling molecular mechanism.

Biography

D Wen has completed his M.D and postoral studies at the age of 45 years from Hebei Medical University. He is a professor of oncology in the 4th hospital of Hebei Medical University, a premier cancer center in China. He has published more than 25 papers in reputed international and national journals and serving as an editorial board member of 3 key journals in China.