**Introduction** Influenza is a potentially serious infection among hematopoietology patients. The immune system in these patients has been suppressed, and the antibody response to vaccines is supposed very poor. We conducted this study for the purpose of evaluating the immunogenicity and reactogenicity of the pandemic vaccine among immunocompromised hematopoietology patients.

**Materials and Methods** During the 2009–2010 influenza season, 50 hematopoietology patients (20 men, 30 women; mean age: 58.5±13.8 years) received two doses of monovalent inactivated unadjuvanted vaccine. The immunogenicity of the vaccine was evaluated according to conventionally used international criteria (EMEA, 1997; FDA, 2007).

**Results** The geometric mean of HI titre 4 weeks after vaccination increased from a pre-vaccination level of 5.0 to 12.0 for the first injection, and to 21.0 for the second injection. Both the seroconversion and protection rates were 27% for the first injection, and 46% for the second injection. Within 1 year dosages of the rituximab (anti-CD20 monoclonal antibodies) decreased sero-response rates significantly, showing that rituximab had invalidated the vaccine’s efficacy. No unique adverse events were detected.

**Conclusions** Although the immune system in hematopoietology patients has been suppressed, a two-shot influenza vaccination series showed a booster effect and achieved the EMEA criteria. Dosages of rituximab invalidated the vaccine’s efficacy within one year. Therefore, optimal timing for influenza vaccination is needed for patients receiving chemotherapy.

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**EPIDEMIOLOGY BY ZIP CODE FOR CANCER STUDY IN TEHRAN CITY**

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Geographical Information System is a computerised system for managing and analysing the geographic information. It has the capability to gather, save, analyse and show the geographic information. Considering utilising of zip codes has segregation of information in residential usage, the experts of the ministry of health and medical support this method (utilising zip codes) as the best way to reach to their aims. Digitising 18 sheets of the plans of Tehran considering various methods of clarification of existing information including 700 thousand informational records, were analysed and tested by different softwares like ArcGIS, Arcview, Edvis, Iliwis and AutoCAD. These methods contain, rechecking the information by operators and clarification of information on the postal and geographical plans by mentioned softwares. As the addresses in the files of The Office of Codifying were edited in three parts (sector, penultimate pass way, last pass way) The program firstly verifies all three fields with data bank of cancer to attribute 5 digits codes to patient’s address, and then if two fields in one record are verified with data bank, 5 digits of zip code is attributed to the patient’s address and finally all records which have received codes are eliminated thus these records are moved out of the comparing circle. The plans show that the most aggregated zone of cancer epidemy is Bazar and south west is the second most aggregated zone. This method can be use in several cases such as EOC GIS (Emergency Operation Center), Sustainable development, health GIS, Crime GIS, Educational management, Economical cases and any other macro managements system.

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**WOMEN, VIOLENCE AND TOBACCO: ARE WE MISSING AN IMPORTANT LINK?**

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**Introduction** The tobacco industry now aggressively targets women in order to increase its consumer base, since fewer women than men use tobacco all over the world. In response to the call by the WHO for more research aimed at understanding tobacco use among women, this study examined associations between history of domestic violence and current tobacco use among women of reproductive age.

**Methods** Data from the 2008 Nigeria Demographic Health Survey (NDHS), a nationally representative cross sectional survey of 33,385 women, this study examined associations between history of domestic violence and current tobacco use among women of reproductive age.

**Results** Experiencing violence affects the psychological health status and may explain susceptibility to tobacco use in women. In the spirit of World No Tobacco Day 2010 tobacco control strategies must recognise the psychosocial environment of tobacco users and also address domestic violence for sustained impact.