



Introduction

Occupational health is the specialty practice that focuses on the promotion, prevention and restoration of health within the context of the safe and healthy environment, **(Radomski,2008)**. Poultry slaughter-houses is define as a facility where animals are killed for consumption as food products,**(United States Department of Agriculture,2007)**.

Between the period from the year 2003 to the 6th of October 2010 the cumulative number of confirmed human cases of avian influenza were 507 cases and number of death among these cases were 302 death, these cases reported by 15 country, **(WHO, 2009)**.

In Egypt bird flu and other diseases infected poultry and workers in birds slaughter houses , causes heavy losses directly estimated 6 billion pound and indirect losses the most important infection workers through their dealing with birds and machines . The direct loss resulting from the diseases on the poultry wealth estimated at about 6 billion pounds for the manufactures one of the most chick successful and profitable industries in Egypt which represent investment of an estimated 18 billion pound including 6 billion fixed capital 12 billion pounds capital variable and works with the industry about 2 million workers and family to produce 2.3 million chickens a day 800 million chickens and 6 billion egg per year **(Farm,2006)**.

The important of hygiene in reducing the mechanical spread of the disease on vehicles, equipment, footwear, and clothing should be re-emphasized, **(WHO, 2007)**.



Specialized in manufacturing poultry processing and livestock slaughter house equipments, can offer hanging ,cut killing ,bloodletting, scalding ,moulting ,cleaning ,chest cleaning ,body washing ,pre-cooling, package, storage,and transportation,(**Wana,2011**).

In poultry slaughter – houses many of machines consist of two type. basic machines (killing cones stand , hot water scalding with dual heating , feather plucker) additional machines (screw chiller , drip roller, portion cutter machine , manual packing cones vacuum packing / scaling machine , worker tables / trolleyetc) main features all machines food grade stainless steel for best hygiene and very long life , can be assembled at customers, are of performance proven design, (**Dhopeshwar,2010**).

Community health nursing could play an important role to increase the awareness of poultry slaughter – houses workers about the health protection method during their work , health education to used protection clothing , hand washing . hair covering , gloves , protective footwear , mask to reduce exposures that occur infection by inhalation, (**Agriculture & Consumer Protection,2009**) .

Magnitude of the study

In alkalyobia government , 24 poultly slaughter – houses which consists of many workers , must keep their health and learn them the diseases which may be infect them through their dealing with birds and machines , it needs to control highly pathogenic avian influenza and other diseases to reduce the possibility of potential global human pandemic and the soci-economic damage and effect on the poultry wealth , (**Ministry of Health , 2009**) .



The role of the occupational and environmental health nursing has evolved and expanded in the past decade; principal functions continue to be promotion, protection, and maintenance of the health and safety of workers. The practice of the specialty involves primary, secondary, and tertiary prevention. Special skills including training in safety hazards, disaster planning, familiarity with safety equipment, and the ability to plan and implement health education, (Mckenzie et al.,2008).