**Mock Abstract**

**Smoking and acute complications of diabetes mellitus**

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**Abstract**

**Background**: The prevalence of diabetes mellitus is increasing globally. The acute and chronic complications of diabetes mellitus have much impact not only on the patient and the family but also the community and the country. Many studies have been carried out to find out the factors associated with these complications. But there is few evidence regarding the relationship between smoking and acute complications of diabetic mellitus like diabetic ketoacidosis and hypoglycemia.

**Objective**: To find out the relationship between smoking and acute complications of diabetes mellitus.

**Methods**: This study is part of the Quality Assessment of medical care among Patients with Type 2 Diabetes and/or Hypertension at hospitals under Ministry of Public Health and Bangkok Metropolitan Administration in Thailand in 2011. The data was collected form the diabetic patients who came to the OPD. Information about his or her smoking status within 12 months and occurrence of acute complications of diabetes within 12 months were noted.

**Results**: Among those diabetic patients who smoke, acute complications occurred in ??.?% (95%CI: ??.? to ??.?) and ??.?% (95%CI: ??.? to ??.?) among those who do not smoke (OR ??.?. (95%CI: ??.? to ??.?). Hypoglycemia occurred in ??.?% (95%CI: ??.? to ??.?) of smokers and ??.?% (95%CI: ??.? to ??.?) in nonsmokers of diabetic patients(OR ??.?. (95%CI: ??.? to ??.?). Diabetic ketoacidosis occurred in ??.?% (95%CI: ??.? to ??.?) of smokers and ??.?% (95%CI: ??.? to ??.?) in nonsmokers of diabetic patients(OR ??.?. (95%CI: ??.? to ??.?).

**Conclusions**: Occurrence of acute complications of diabetes mellitus is different between the smokers and nonsmokers. Smokers have ??? times risk of acute complications of diabetes mellitus than nonsmokers.

**Key words:** smoking, acute complications, diabetes mellitus