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Poster Session VI

Skin and soft tissue infections and diabetic food

**RISK FACTOR ASSESMENT OF AMPUTATION IN DIABETIC FOOT**

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**Objectives:** Diabetic foot (DF) ulcers cause elongated hospitalizations with high treatment costs and high rates of lower extremity amputations resulting with increased morbidity and decreased quality of life. The aim of this study was to evaluate the most common risk factors in patients with DF.

**Methods:** In this retrospective study, medical records of 82 patients (who admitted to our DF polyclinic and were followed up with DF evaluation form) were investigated. Among these patients, 53 were males and 29 were females, and all had Type 2 Diabetes Mellitus (DM). As treatment, 52 patients were receiving insulin and 10 patients oral hypoglycemic agents. Amputation rate was 18% at various levels. Possible risk such as: age, smoking habits, history of amputation and hospitalization, duration of infection and DM, presence of infection, peripheral arterial disease, osteomyelitis, hypertension and neuropathy, level HbA1c of were recorded.

**Results:** As summarized in table, higher HbA1c, history of hospitalization (any causes), presence of osteomyelitis and peripheral arterial diseases were common in amputated patients and it was statistically significant. However, other factors listed in the table were observed at similar rates in both group.

**Conclusions:** Because our hospital is a reference center for complicated DF, amputation rate was slightly higher than expected. Inadequate glucose regulation and follow up for vascular complications, negligence of diabetic foot ulcers may increase amputation rate. Therefore, primary treatment of DM and its complications, and foot care are important in the prevention of amputation.

**Table.** Risk factor assesment of amputation in diabetic foot.

	Amputation (+) (n:15)	Amputation (-) (n:67)	P=
Age (year, mean)	60.93	61.98	0.42
Duration of DM (year, mean)	17.2	13.3	0.22
Duration of infection (day, mean)	97.4	73.3	0.57
<b>HbA1c (mean)</b>	<b>10,8</b>	<b>9.0</b>	<b>0.02</b>
Hypertension (%)	60	54	0.77
Smoking (%)	27	15	0.27
<b>History of hospitalization, any causes (%)</b>	<b>33</b>	<b>64</b>	<b>0.04</b>
History of diabetic foot (%)	27	43	0.26
History of diabetic foot amputations (%)	20	13	0.68
<b>Osteomyelitis (%)</b>	<b>80</b>	<b>21</b>	<b>&lt;0.0001</b>
<b>Peripheral arterial disease (%)</b>	<b>73</b>	<b>40</b>	<b>0.024</b>
Neuropathy (%)	73	66	0.76