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I. Introduction

There are two main types of diabetes. Only 10–15 % of people have type 1 diabetes. Type 2 diabetes is most common form of the disease. A small percentage of patients with diabetes accounted for pregnant women (3-5%, also known as gestational). Because of the high prevalence of type 2 diabetes particular interest is in monitoring of patients with such diabetes type. 5 % of USA population (about 18 million) suffer from diabetes. This is the seventh leading cause of death. By 2020, the costs associated with the treatment of diabetes is expected to grow to $ 192 billion (estimate as of March 2011). To date, no cure for diabetes exists [1], [2]. Also, there is no reliable noninvasive screening technology of glucose concentration in human body.