CONTENTS

Chapter 1
General Introduction and Aims and Outlines of the thesis. Page 9

Chapter 2
Translating the A1c Assay into estimated Average Glucose Values. page 49

Chapter 3
Does Glucose Variability Influence the Relationship Between Mean Plasma Glucose and HbA1c Levels in type 1 and type 2 diabetic patients? page 69

Chapter 4
Do factors other than blood glucose concentrations determine HbA1c? page 85

Chapter 5
1,5 AnhydroGlucitol Concentrations and measures of glucose control and variability in patients with type 1 and type 2 diabetes mellitus. page 103

Chapter 6
Associations between features of glucose exposure and A1c. page 123

Chapter 7
Real life glycemic profiles in non-diabetic individuals with low fasting glucose and normal HbA1c. page 143

Chapter 8
HbA1c and mean blood glucose show stronger associations with cardiovascular disease risk factors than do postprandial glycemia or glucose variability in persons with diabetes. page 153

Chapter 9
General Discussion page 175

Chapter 10
Samenvatting en toekomstperspectief page 215
Publications & co-author affiliations page 248
Dankwoord & Curriculum Vitae page 254
Abbreviations page 263