

Supplementary Table 3: Safety outcomes

Outcome	Case definition
All-cause mortality	<ul style="list-style-type: none"> • Date of death as recorded in the MB Health Insurance Registry.
Cardiovascular event	
<i>Acute MI</i>	<ul style="list-style-type: none"> • Date of hospitalization where the reason code for the main diagnosis has a prefix of 410 (ICD-9) or I21 (ICD-10).
<i>Heart Failure</i>	<ul style="list-style-type: none"> • Date of hospitalization where the reason code for the main diagnosis has a prefix of 428 (ICD-9) or I50 (ICD-10).
<i>Stroke</i>	<ul style="list-style-type: none"> • Date of hospitalization where the reason code for the main diagnosis has a prefix of 430, 431, 432, 433, 434, 436 (ICD-9) or I60, I61, I62, I63 or I64 (ICD-10).
<i>Unstable Angina</i>	<ul style="list-style-type: none"> • Date of hospitalization where the reason code for the main diagnosis has a prefix of 411 (ICD-9) or I20.0 (ICD-10).
Major hypoglycemic event	<ul style="list-style-type: none"> • First of the following occurrences: <ul style="list-style-type: none"> ○ Date of hospitalization where the reason code for any diagnosis has a prefix of 251.0, 251.1, 251.2 (ICD-9) or E11.63, E13.63, E14.63, E15, E16.0, E16.1 or E16.2 (ICD-10) or ○ Date of Emergency Department visit where the reason for the visit is coded as “Hypoglycemia” or ○ Date of laboratory test where blood glucose is < 3.5 mmol/L.

† ICD - international classification of diseases; MB - Manitoba; MI - myocardial infarction.