

## Thesis Change Report

If your thesis is found acceptable with revisions/modifications required, please list the changes made after the examination below. Upon completion of these changes, designated members of your Thesis Examination Board will indicate that all changes have been satisfactorily completed by approving the thesis within Scholarship@Western.)

Page(s)	Description of Change
9	List of Abbreviations added
15	Add citation on development of insulin-based therapy
15	Insulin pump as another insulin-based therapy
15	Explain how ROS plays a role
19	Explain what perturbed endothelium is
23	Figure of glycocalyx layer
18	Add in MAPK in the introduction
25	Final statement of hypothesis more clear on human brain microvasculature cells
32	“First-time” DKA presentation proportion
32	Added reference to ideal pediatric ranges of glucose
33	Clarified OD values that were out of kit’s range
36	Changed to line of best fit as a graphical change – unable to separate into 2 thresholds as the sample number and power in each threshold is immensely reduced.
75	Added quantified data of ERK1 to supplementary
42	Fixed ERK1/2 graphs for better flow between part A and B
47	Explaining canonical inflammatory cytokines

59	Added adaptation credit on Figure 9
73-81	Reorganized results summary in supplementary data