

# "DIABOLICAL DENGUE, HEINOUS HERPES: IMPACT ON HEMOSTASIS"

Many viruses affect the blood coagulation system, with various consequences to the patient depending on the virus type. Some viruses may induce hemorrhage, while others contribute to the flipside of hemostasis, vascular disease. In this seminar, we will explore an example of each. Dengue virus infects approximately 400 million people annually and may cause life threatening hemorrhagic fever. An important aspect of this pathology involves depletion of platelets (thrombocytopenia). Recent studies from our lab on how Dengue virus impacts platelets in physiology and transfusion will be discussed. Rather than bleeding, viruses that cause clotting are also being investigated by us. During this seminar we will also look at how the common cold sore virus, Herpes simplex 1, triggers clot formation and may consequently contribute to vascular disease. Interestingly, both Dengue and Herpes appear to exploit the clotting system to enhance their own replication.