

Clinical, Social and Economic Impact Program

Developing System-level Policy Model for regenerative medicine and cell therapy in Oncology

Setapeutics April 23rd, 2018 to March 21, 2020 Projecs **CAR T cell products Highlights** \$100,000 • Findings will address knowledge gaps in policy \$100.000 makers in the context of from BioCanRx reimbursement of CAR T-cell therapy • Provide cancer researchers with necessary support to Use an innovative approach make informed economic to establish a policy framework decisions regarding the to support the decisiondevelopment of future making process regarding CAR T-cell therapy the implementation and • Research will contribute reimbursement of future important insights to **CAR T-cell therapy.** both clinical researchers and policy makers to **Objective 1** improve oncology care in • Develop a framework the Canadian health care for policy makers to system reasonably estimate the cost-effectiveness for CAR T-cell therapy **Objective 2** · Identify the most important evidence areas that are necessary to facilitate the reimbursement process for researchers who are currently developing regenerative medicine About the project

Chimeric antigen receptor T cells, or CAR T cells, have transformed oncology treatment, offering the potential to cure certain cancers. Although shown to be effective in selected populations, the high cost of CAR T-cell therapy, along with substantial usage of health care resources (highly personalized therapy and significant monitoring required) may potentially restrict patient access to this type of treatment in the future. A framework must be established to estimate the cost-effectiveness of this therapy compared to the standard of care by taking into account the effectiveness, safety, affordability and resource constraints in the Canadian healthcare system.

Dr. Wong's team will use an innovative approach to establish a platform to support the decision- making process regarding reimbursement and implementation of CAR T-cell therapy in the future. Results of this research will provide an evidence-based evaluation of this therapy and its place in the health system, and serve as a foundation for clinical trial researchers and policy makers for improving oncology care.

Keyin **Project lead:** Dr. William WL Wong

Key Investigators: Dr. Kelvin KW Chan

WATERLOO

Evidence

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(In-Kind)

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Let's tell our bodies how.