



Resource Package: Automated CT Perfusion Software

About this Document

In September 2022, Ontario Health-CorHealth Ontario’s Hyperacute Stroke Care Steering Committee identified the need to increase awareness and adoption of Automated CT Perfusion Software at referral sites across the province. The Regional Network Teams, notably the Regional Medical Director, were identified as playing a key role in articulating the benefits of adopting the software.

This resource package was developed to support Regional Stroke Network Teams as they explore adoption of Automated CT Perfusion with referral sites in their region. The contents of this resource package are meant to be used and/or adapted by interested individuals and teams, as they see fit.

Resources List

Resource Title	Description and Link
Automated CT Perfusion Imaging in the Diagnosis and Treatment of Acute Ischemic Stroke	<p>A standard slide deck that may be used by Regional and Local Stroke teams to introduce Automated CT Perfusion Software to referral sites and initiate discussions regarding software acquisition.</p> <ul style="list-style-type: none">• Ontario Health-CorHealth branded slide deck• Editable Slide Deck (branding removed)
Provincial Sourcing Agreement and Implementation Playbook	<p>A provincial sourcing strategy of automated CTP Imaging software for all Ontario stroke sites and other community hospitals. The agreement contains: 1) a standard pricing model for new RAPID sites 2) extension of best value offering to existing RAPID sites; and 3) an optional menu model for additional imaging applications and features. The agreement may be leveraged by any interested Ontario hospitals or MPSC member hospitals outside of Ontario. The Playbook provides a high-level roadmap for pre-implementation planning Ontario hospitals can consider following if they are interested in leveraging the Agreement.</p> <p>Reach out to your Regional Stroke Network Program Director to learn more about the agreement. (Note: RD can access through the Sharepoint)</p>
Frequently Asked Questions	<p>In 2023, OH-CorHealth hosted a Knowledge Exchange to support adoption of automated CT perfusion software at referral sites across the province. The forum focused on the role of Automated CTP in Acute Ischemic Stroke, including</p>

	<p>patient selection for EVT, the clinical features and benefits of using RAPIDAI software, the Provincial RAPIDAI Umbrella Agreement, and key lessons learned/implementation considerations from early adopter sites. To complement this Knowledge Exchange, responses to questions raised during and after the meeting (i.e., submitted through the post meeting survey) were compiled into an FAQ document.</p> <ul style="list-style-type: none"> • Frequently Asked Questions
<p>Provincial Acute Stroke Imaging Protocol</p>	<p>Outlines the minimum imaging set for initial Telestroke or EVT Endovascular Treatment Consultation, as well as the process for new sites to assess ENITS image transfer rates and quality</p> <ul style="list-style-type: none"> • Provincial Acute Stroke Imaging Protocol
<p>Webinars and Provincial Forums</p>	<p>Recording of the Automated CT Perfusion Software for Acute Ischemic Stroke-Knowledge Exchange hosted by Ontario Health-CorHealth. Key objectives of this session included:</p> <ol style="list-style-type: none"> 1. To understand the role of CT Perfusion Imaging in the identification of Acute Ischemic Stroke patients for Endovascular Thrombectomy 2. To understand the clinical features and benefits of using Automated CTP imaging software to support post-processing of data and analysis of brain images (i.e., RAPID AI Software) 3. To understand key considerations for implementing RAPID AI <ul style="list-style-type: none"> • Automated CT Perfusion Software for Acute Ischemic Stroke Knowledge Exchange (2023) <p>An overview of Acute Ischemic Stroke Management and CTP provided by Dr. Timo Krings, co-Chair of Ontario Health’s Hyperacute Stroke Care Steering Committee</p> <ul style="list-style-type: none"> • Dr. Krings “Acute Ischemic Stroke Management and CTP (Sept 12, 2022)”
<p>Regional Tools and Resources</p>	<p>The following tools and resources were developed by early adopter sites:</p> <ul style="list-style-type: none"> • A presentation outlining the process for implementing RAPID within the Central South Stroke Network stroke network, including key partners to be engaged. <ul style="list-style-type: none"> ○ Implementation of RAPID in Central South- Lessons Learned • 2 presentations developed by the Central South Stroke Network to support education of Emergency

	<p>Department Staff and CT Technologists. Note: presentations include links to RAPID training videos that can only be accessed members</p> <ul style="list-style-type: none"> ○ RAPID-Clinical Background ○ RAPID- Background for CT Technologist ● An FAQ and Lessons Learned Document developed collaboratively by the Central South, Southwest, and Southeastern Ontario Stroke Networks to facilitate the sharing of key insights and lessons learned from their experience implementing RapidDAI. <ul style="list-style-type: none"> ○ Automated Stroke Imaging Software Package (Ischemaview RAPID) Implementation Frequently Asked Questions and Lessons Learned
RAPIDAI Resources	<ul style="list-style-type: none"> ● RapidAI Presentation- The nexus of workflow and clinical decision making ● Statement on IT Security, Data Protection, and Data Privacy ● Additional resources may be found on the RAPIDAI website
Additional Resources	<p>In FY 2020/21, the Ontario Health Technology Advisory Committee released recommendations supporting the use of perfusion imaging as a tool to facilitate patient selection for EVT. The full report can be accessed below.</p> <ul style="list-style-type: none"> ● Ontario Health Technology Advisory Committee- Automated CT Perfusion Imaging to Aid in the Selection of Patients with Acute Ischemic Stroke for Mechanical Thrombectomy