

# CRIR Scientific Conference

Presented by:  
Jewish Rehabilitation Hospital (JRH), CISSS de Laval



Centre de recherche interdisciplinaire  
en réadaptation du Montréal métropolitain

As part of the "Talking Research" series | Presentations by researchers or postdoctoral fellows on the findings of their research projects

**WALK better and safer in the community with Augmented Gait trAINing (WALKAGAIN)**



**Anastasia Katsolis**, Physiotherapist  
Stroke and Neuro Program, Jewish Rehabilitation Hospital, CISSS Laval

Anastasia is a physiotherapist in the Stroke and Neuro Program at the Jewish Rehabilitation Hospital. With an interest in research, she focuses on the use of virtual reality to improve ambulation and functional recovery post-stroke. Anastasia is interested in exploring innovative rehabilitation techniques that enhance mobility and neuroplasticity, aiming to improve outcomes for stroke survivors.

## Conference abstract

Stroke survivors face increased attentional demands when re-engaging in community activities. Early, individualized rehabilitation is essential for successful integration, but research on augmented reality gait training in rehabilitation is limited. This pilot study evaluated the feasibility and effects of adding augmented reality treadmill training to stroke rehabilitation. Thirteen participants completed up to 10 sessions using a unidirectional treadmill (C-Mill) or omnidirectional treadmill with VR (Infinadeck). Both systems improved gait, participation, quality of life, and achievement gaps. The C-Mill was more effective for gait training, while the Infinadeck benefited those in community ambulation.

**Date & Time :** April 15, 2025  
12:00 - 13:00

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**Language** English

## Modality : Hybride

■ **In person:** Jewish Rehabilitation Hospital, Room D 1004  
Research Department main area

Please confirm your presence:

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or

■ **Virtual:** On Zoom. Please register:

<https://us02web.zoom.us/join/HEY28R5oTzmkf3eJBDIj4Q>

Centre intégré  
de santé  
et de services sociaux  
de Laval

Québec The logo for the province of Québec, featuring the word 'Québec' and a stylized fleur-de-lis symbol.

The logo for the Jewish Rehabilitation Hospital Foundation, featuring a stylized orange and yellow figure and the text 'Fondation Hôpital juif de réadaptation Jewish Rehabilitation Hospital Foundation'.