Final Evaluation Form

Project Name	Tochtech Sleepsense Trial
Project ID	
Company (and Technology) Name	Tochtech Technologies, Toch Sleepsense
Health Organization	Bruyère & Courtyards on Eagleson
Health Organization Manager	Blake Daly
Completion Date	1/31/2023
Date of Report	2/10/2023

Did the evaluation address all questions set-out in the Evaluation Design?	No / **Yes**
Answered Questions	**Outcomes**
Can Toch Sleepsense provide staff with real-time information about the exiting of bed of residents at risk of falls or wandering during the night shift?	Yes, the sensors provided staff with real-time alert notification about the exiting of bed of residents with 78% accuracy in real life use, and 100% pass in bed-exit testing during objective lab testing.
Does Toch Sleepsense reduce staff's workload?	Yes, staff members mentioned during the survey that the technology had enhanced their working efficiency.
Does using Toch Sleepsense increase the quality of patient care?	Yes, the technology provided information to the staff members on nightly patterns of residents that were not accessible before
Does using Toch Sleepsense reduce the number of residents falls?	Yes, the technology provided information of bed movements of patients and real-time exiting of bed notifications. This information enabled the staff to proactively assist the residents reducing the number of resident falls.
Unanswered Questions (if applicable)	

Advantages of the Technology	**Disadvantages of the Technology**
Toch Sleepsense prevents falls by sending an alert to staff when high-risk residents are off bed. The staff can intervene before any fall happens.	Toch Sleepsense device is visible to residents, and they can remove or unplug it.

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Toch Sleepsense reduces the need for hourly checks on all residents' rooms	Toch Sleepsense needs strong Wi-Fi connection to function which might not be available in residents' rooms.
Toch Sleepsense allows for monitoring residents' sleep patterns for making informed decisions about appropriate health plans	A pending application update prevented alert being sent. Company aware that older app versions must continue working
78% of all the sent alerts were assessed accurate in real-life settings. In objective lab testing, bed-exit cases 100% passed.	The sensor must be installed under the bed legs at the primary pressure point to avoid false alerts. In one instance, false notifications were generated when the sensors were positioned under the head-side leg of the bed, opposite to the normal exit side for the resident. In another instance, false out of bed alerts were triggered when the sensors were placed under the larger queen bed for a resident with a low body weight. This problem was resolved by relocating the sensor to the central leg where the main weight of the bed was concentrated. Technical problems were experienced even after the assistance in updating the device which resulted in missing alert notifications.

How is the technology value producing in relation to the Quadruple Aim of healthcare?	
Patient Experience	Patients were not directly asked about their experience. However, they expressed no complaints, either.
Population Health	Toch Sleepsense provides real-time updates on residents and monitors their sleeping patterns. it also helps reduce the number of falls among residents by sending an alert when a high-risk resident gets out of bed without help, allowing the care team to intervene before a fall occurs.
Care Team Well-being	Toch Sleepsense helps make the care team's work more efficient by reducing the number of hourly checks in all rooms and decrease their stress.
Reducing Costs	Toch Sleepsense provides a more proactive approach to patient care and reduce the risk of injury which are costly to treat.

Based on the determination of value in relation to the Quadruple Aim of healthcare, do you recommend this technology for procurement?	No / **Yes**

Recommendations for Improvement	
Product	The company can ensure that the staff are aware of the latest updates by providing regular notifications of application updates on their phones. This will minimize the risk of missing alerts by keeping the staff informed of any new updates and allowing

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	older versions of the application to function until they are updated
Technical Support	The company should provide better documentation and training for on-site staff and managers, and designated point of contacts to facilitate a smoother onboarding process.
Training	Non-regular staff members did not use the technology and they were not aware of the it. Providing simple instructions on technology in the form of poster or video at the start of shift would aide new staff members to familiarize with technology in less time.
Setup & Installation	The Wi-Fi network connection can be improved across the facility. Strong Wi-Fi would reduce the false alerts and missed notifications. Additionally, reducing the delay between when the notification was triggered and received by the staff member.
Documentation	
Customer Relationship Management	

SIGN-OFF	
Health Organization Manager	
Name: Blake Daly Title: Manager of Health Innovation Signature: Blake Daly	