

2020/2021

Quality Improvement Plan

The purpose of this Quality Improvement Plan is to provide a framework for Ornge initiatives that are designed to improve patient experience and care, clinical practice, and operational service delivery to meet the transport needs of Ontario residents within a broader healthcare system.



October 2021

Quality Improvement Plan

Each year, Ornge prepares and publishes its annual Quality Improvement Plan (QIP) as prescribed by the Performance Agreement with the Ministry of Health. The QIP is a framework for monitoring key aspects and metrics in Ornge's delivery of its critical care service to the patients of Ontario and focusses on clinical practice and operational service delivery.

QIP indicators are chosen each year and reflect organizational priorities, including some identified areas for improvement. The indicators are aligned with Ornge's strategic priorities, and Health Quality Ontario's six quality elements for healthcare organizations. Additionally, our patient and healthcare partner surveys help to inform the QIP.

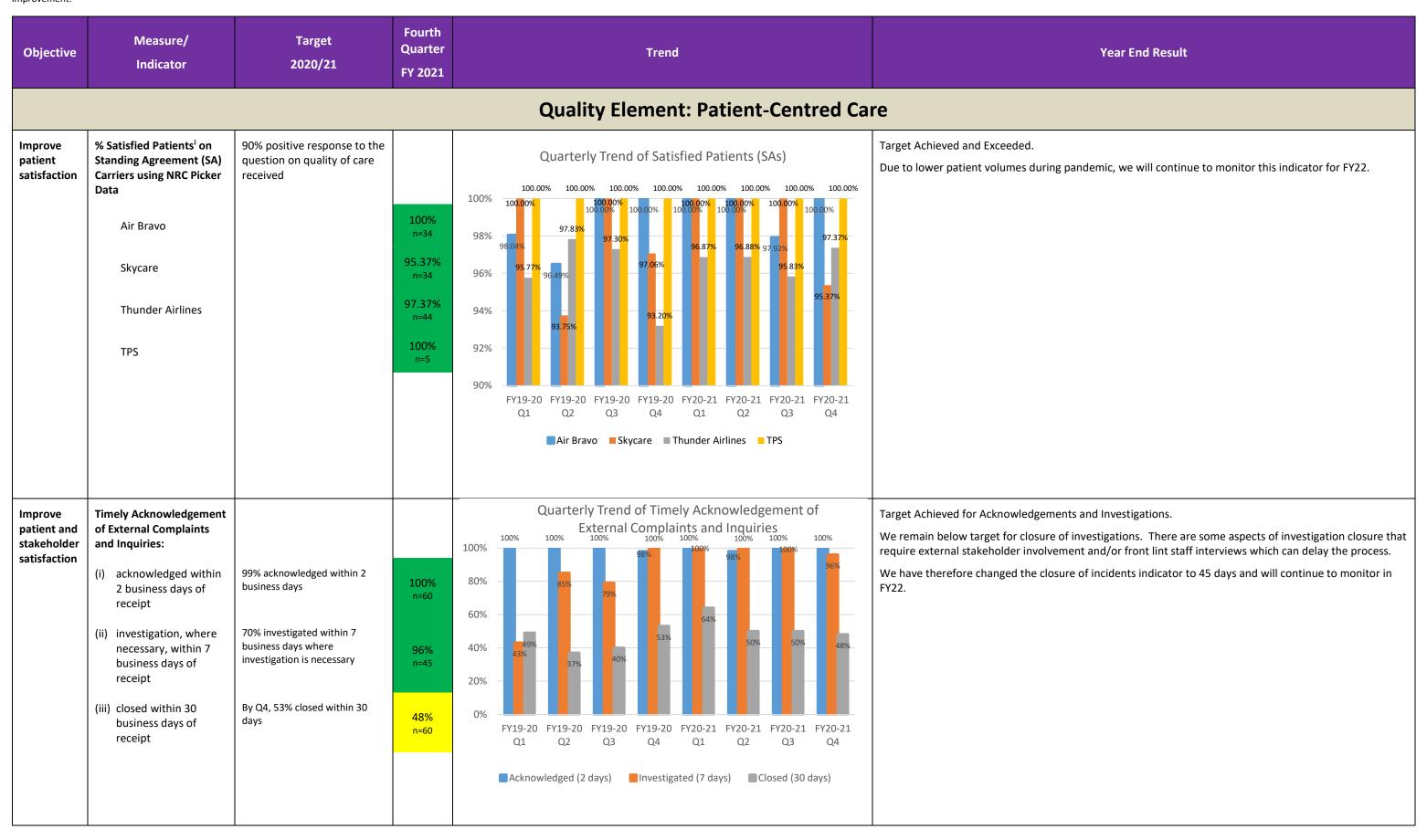
QIP indicators change from one year to the next so that the organization's areas of focus remain current. Progress is measured on a quarterly basis and reviewed internally with our quality groups and our Board of Directors.

By monitoring QIP results and other key performance indicators, Ornge maintains a steady watch over organizational quality with an overall goal of improving the effectiveness of our service delivery. Attached are Ornge's 2020/21 Year End Report and our 2021/22 QIP Targets.

Ornge Quality Improvement Plan – Final Year End Synopsis - FY 2020/21

October 2021

A high-quality health system is defined as "a health system that delivers world-leading safe, effective, patient-centred services, efficiently and in a timely fashion, resulting in optimal health status for all communities." This definition includes six elements of quality and forms the basis of Health Quality Ontario's framework for quality improvement.





Maintenance of appropriate temperature

(i) Stroke patients (< 38°C)

(ii) Trauma patients (> 36°C)

(iii) ROSC patients (< 36°C)

in:

nge			Orr	nge Quality Improvement Plan – Final Year End Synop	October 2021
Objective	Measure/ Indicator	Target 2020/21	Fourth Quarter FY 2021	Trend	Year End Result
Improve patient and stakeholder satisfaction	% patients delayed for transport in whom OCC staff obtain updates every 6h	50% of emergent/urgent patients delayed for interfacility transport OCC staff will obtain updates every 6h.	48% 109/226	Quarterly Trend of Patient Updates Acquired 100% 80% 60% 48% 48% 48% 40% 27% 20% FY20-21 Q1 FY20-21 Q2 FY20-21 Q3 FY20-21 Q4** **Please note: Request was made to change measurement to start from "last bed confirmed" not "T0" (call creation). Q1-Q3 have been revised to reflect this change.	Below Target. The OCC has introduced new alerts in our computer-aided dispatch system that notify the communication officer that an update is due. We will continue to monitor this indicator for FY22.
				Quality Element: Effective Care	
Improve Clinical Quality	% Documentation of two temperatures ⁱⁱ in:			Quarterly Trend of Temperature Documented (ePCR) 90% 95.5% 89.9%	Target Achieved and Exceeded for all indicators except documentation of two temperatures in stroke patients. Quality of Care clinical reviews have been completed on all stroke patient charts and deemed to be appropriate. This appears to be strictly a documentation issue.
	(i) Stroke patients	50%	38.4% 28/73	80% 70% 63.6%	This indicator will be removed from QIP FY22 into Clinical Metrics for continued monitoring.
	(ii) Trauma patients	50%	89.9% 62/69	50.0% 53.1% 58.9%	
	(iii) ROSC patients	50%	63.6%	40%	

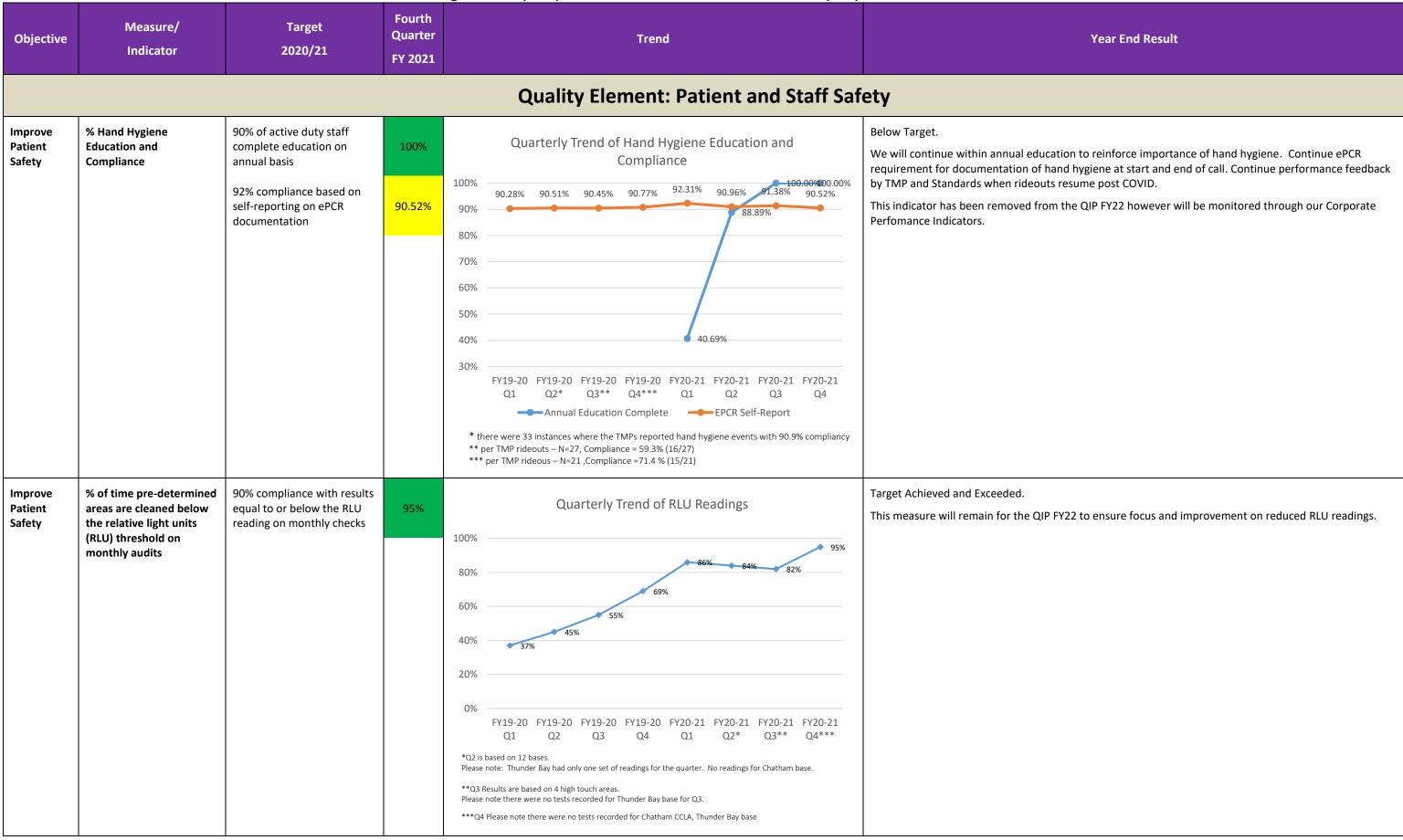
50% 50% 50%	38.4% 28/73 89.9% 62/69 63.6% 7/11	90% 80% 70% 60% 50% 40% 30%	50.0% 53.1% 58.9% 63.6% 58.9% 53.3% 34.9% 37.5% 34.9% 38.4% FY20-21 Q1 FY20-21 Q3 FY20-21 Q4
			*Slight change to Q1 due to limitations with Q-Check and new data being attained
		100% -	Quarterly Trend of Maintenance of Appropriate Temperature 96.2% 90.9%
50%	100% 28/28	80% -	72.2% 58.8% 57.1%
50%	87.1% 54/62	40% - 20% -	48.8% 50.0%
50%	57.1% 4/7	0% -	FY20-21 Q1* FY20-21 Q2 FY20-21 Q3 FY20-21 Q4 ROSC
			*Slight change to Q1 due to limitations with Q-Check and new data being attained



Ornge Quality Improvement Plan – Final Year End Synopsis - FY 2020/21

Objective	Measure/ Indicator	Target 2020/21	Fourth Quarter FY 2021	Trend	Year End Result
Improve Clinical Quality	% non-intubated trauma patients with adequately controlled pain ⁱⁱⁱ	70% non-intubated trauma patients with a final score <4 or score drop by at least 4 points	59.18%	Quarterly Trend of Non-Intubated Trauma Patients with Adequately Controlled Pain 80% 68.85% 67.24% 57.89% 50.00% 50.00% 50.00% 67.24%	Below Target. This measure showed a downward trend for this quarter however had been steadily increasing. CME to the paramedics reinforcing this topic has been completed. Clinical Town Hall messaging for front line providers and clinical staff has also been completed. The sample size of patients with pain scores may be a confounder in this value given previously we have had 119 patients and this quarter we had 47. Other confounders include transport time, accuracy of pain score assessments and consistency in documentation, patient willingness to have analgesia, whether a dose of analgesia was provided vs other resuscitative priorities on short transport This measurement has been removed from the FY 22 QIP however will remain an ongoing focus of education through individualized paramedic feedback now available with new enhanced auditing software.
Improve Clinical Quality	HCO3 Guided Ventilation Strategy % of ventilated adult and pediatric patients with HCO3 documented on the EPCR	90% of all adult and pediatric patients will have a HCO3 documented.		Quarterly Trend of HCO3 Documented on Ventilated Patients 100%	Below Target. This measure continues to show overall steady improvement. CME to the paramedics has been completed and also reinforced at the recent clinical town hall. New devices (iSTAT) have now been deployed and may be improving some of these values. We will continue to monitor this indicator for FY22.
		Adult Paediatric	71.2% 78.9%	80% 76.3% 75.0% 71.0% 69.1% 70.6% 71.2% 66.7% 62.5% 63.5% 66.7%	
			70.370	751.6% 20% 0% FY19-20 FY19-20 FY19-20 FY20-21 FY20-21 FY20-21 FY20-21 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Adult Paediatric	





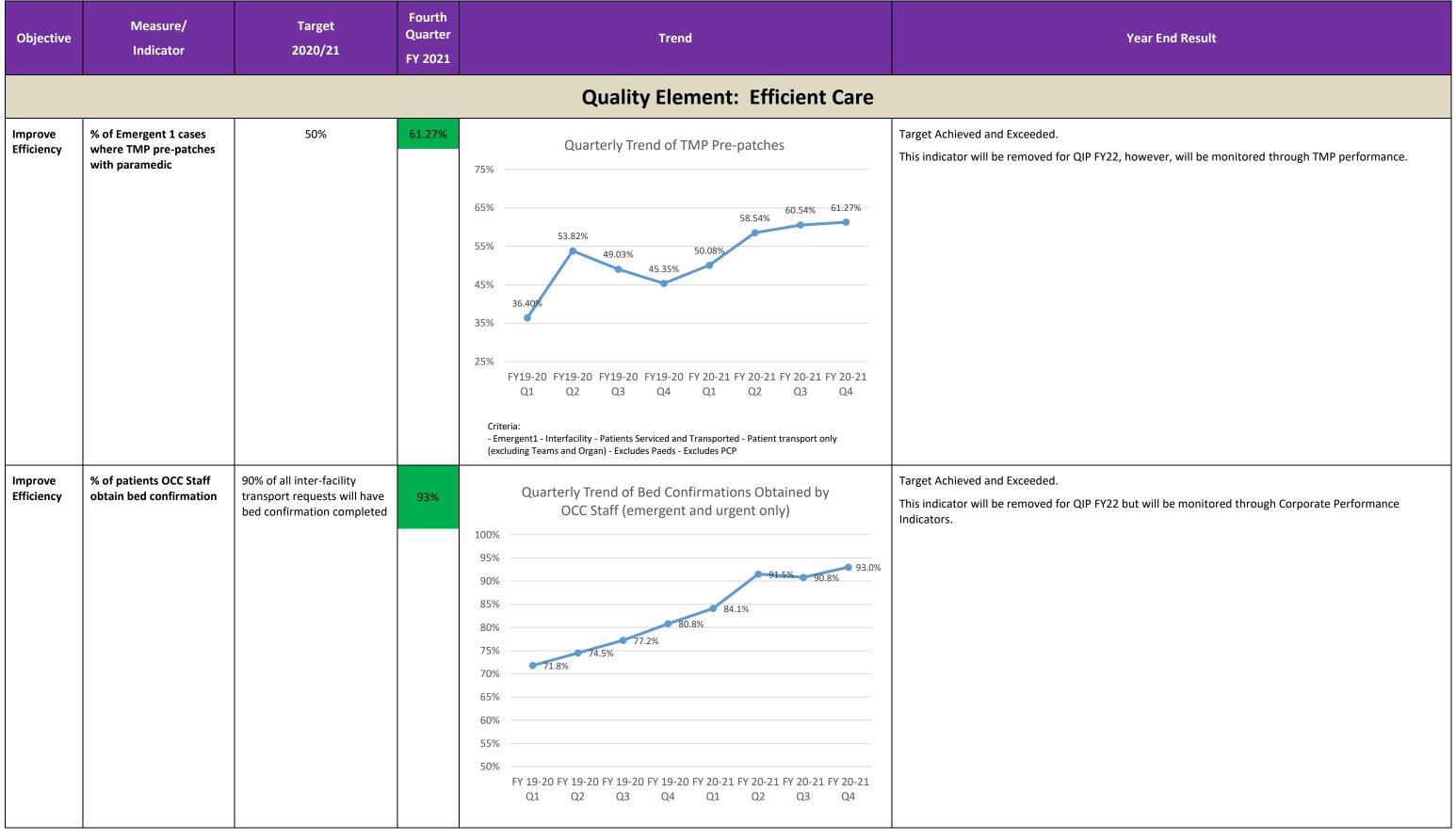


Objective	Measure/ Indicator	Target 2020/21	Fourth Quarter FY 2021	Trend	Year End Result
Improve Patient Safety	% Usage of a standardized patient care hand-off Checklist ^{iv}	85%	82.27%	Quarterly Trend of Hand-Off Checklist Used 100% 95% 90% 85.29% 85.08% 85% 81.38% 82.20% 81.92% 80.86% 79.15% 74.72% 75% 76% 65% 60% Rub 19 Checklist Used 85.29% 85.08% 82.27% 77.26% 77.26% 77.26% 74.72% 76% 66%	Below Target. We aim to improve usage of the standardized checklist to 85% by the end of 2021-22. This indicator has been removed for QIP FY22, however, it is an ROP for accreditation and we will continue monitoring through the Accreditation process.
Improve Staff Safety	Soft Tissue/MSK Injury Rate: # incidents per 100 paramedic and pilot employees resulting in soft tissue and musculoskeletal injuries from loading/unloading/ carrying patient or lifting/pushing/pulling medical equipment	4.0/100 employees	2.06	Quarterly Trend of Soft Tissue/MSK Injury 8 6 4 4 4 4 5 5 6 Q1 Q2 Q3 Q4 Breakdown by Group FY 19-20 vs FY20-21 8 6 4 Q4 FY 19-20 Q4 FY 19-20 Q4 FY 20-21 0 RW FW Land	Target Achieved and Exceeded. This indicator will remain for QIP FY22 as it is the most common injury experienced by front-line staff.



Objective	Measure/ Indicator	Target 2020/21	Fourth Quarter FY 2021	Trend	Year End Result
Improve Timeliness	Length of Stay at Sending Hospital After Handover to Ornge: Package time for patients intubated BEFORE Ornge arrival	40 minutes by end of 2020/2021	49	Quarterly Trend of Timely Care 90 80 70 60 50 46 45 45 45 45 47 45 48 50 44 46 49 40 30 20 10 0 RNB 19 18 29 20 20 20 20 20 20 20 20 20 20 20 20 20	Below Target. Continued focus required in Education, both Initial and CME on standardized packaging protocols that decrease time required. Reduce requirements for in-facility patching as this often takes considerable time. It was expected that this metric would increase during COVID due PPE requirements. This indicator will continue to be monitored for QIP FY22.
Improve Timeliness	Overall Base Response Time: % meeting threshold (i) FW (ii) Land (iii) RW	≥ 80% (< 15 minutes [< 25 minutes when fuel required]) ≥ 90% (< 10 minutes) ≥ 90% (< 15 minutes [< 25 minutes when fuel required])	73% 80% 100% (Scene) 92% (Interfacility)	Quarterly Trend of Overall Base Response Time 100% 98% 98% 98% 99% 99% 99% 90% 85% 88% 88% 88% 88% 88% 88% 88% 88% 88	Target Achieved and Exceed for RW Response. Below Target for FW and Land Responses. This QIP measure remains below target for FY21 so will remain on QIP FY22 to obtain improvements. Look for E1 Responsiveness on the new QIP FY 22.







Ornge Quality Improvement Plan – Final Year End Synopsis - FY 2020/21

October 2021

NOTES:

i Patient Satisfaction: % of respondents who selected a positive score in response to the question: "Overall how would you rate the quality of care you received from Ornge?" Starting in May 2019 Ornge has expanded its patient survey to include patients transported by Ornge's Standing Agreement air carriers. The survey is conducted on a rolling quarterly basis by an independent survey firm. There is a reporting lag of two quarters (i.e. the survey results reported in Q1 2019-2020 pertain to patient transports performed in Q3 2018-2019).

ii Source of information for this measurement is the ePCR. Definition: At least two documented temperature exists on patient's ePCR, one at the beginning of transport and one at the end, for each patient transport.

iii A pain score <4 represents mild pain. Data are based on patients having a GCS >= 13.

iv Usage of a standardized patient care hand-off Checklist

NUMERATOR: Number of transports showing documented use of a standardized hand-off checklist

DENOMINATOR: number of transports (Ornge dedicated)

^v Base Response Times: % within threshold

FW Response Time:

The percentages represent the Air Bases' ability to respond to calls in less than 15 minutes (25 minutes when fuel is required).

The Air Base Response Time is defined as the time period from Accept Trip to Air-Traffic-Control contact.

This analysis is based on a data sample pulled from AvAIO by a defined procedure; only trip legs that were the first departure from base are used for this analysis. Legs with delay reasons out-of-Ornge-Control, patient-related delay reasons, and missing data are excluded. Land Response Time:

The percentages represent the Land Bases' ability to respond to calls in less than 10 minutes.

The Land Base Response Time is defined as the time period from the time OCC reports CCLA Dispatch to the time the truck departs the Base.

This analysis is based on a data sample pulled from Flight Vector by a defined procedure; only trip legs that were the first departure from base are used for this analysis. Legs with missing data are excluded.

Note: Rotor wing bases are already meet the air response time threshold; therefore RW is no longer included in this report.