



**Massachusetts Bay
Transportation Authority**

Safety Update

Fiscal and Management Control Board

October 19, 2020

Ronald Ester, Chief Safety Officer

Agenda

- Lost Time Employee Injuries
 - Rail Transportation
 - Bus Transportation
 - Rail Maintenance
 - Bus Maintenance
 - Engineering & Maintenance
 - Commuter Rail
- Conclusion



Safety Management System

MANAGEMENT POLICY
RISK MANAGEMENT
ASSURANCE
PROMOTION



Employee Injuries – Lost Time

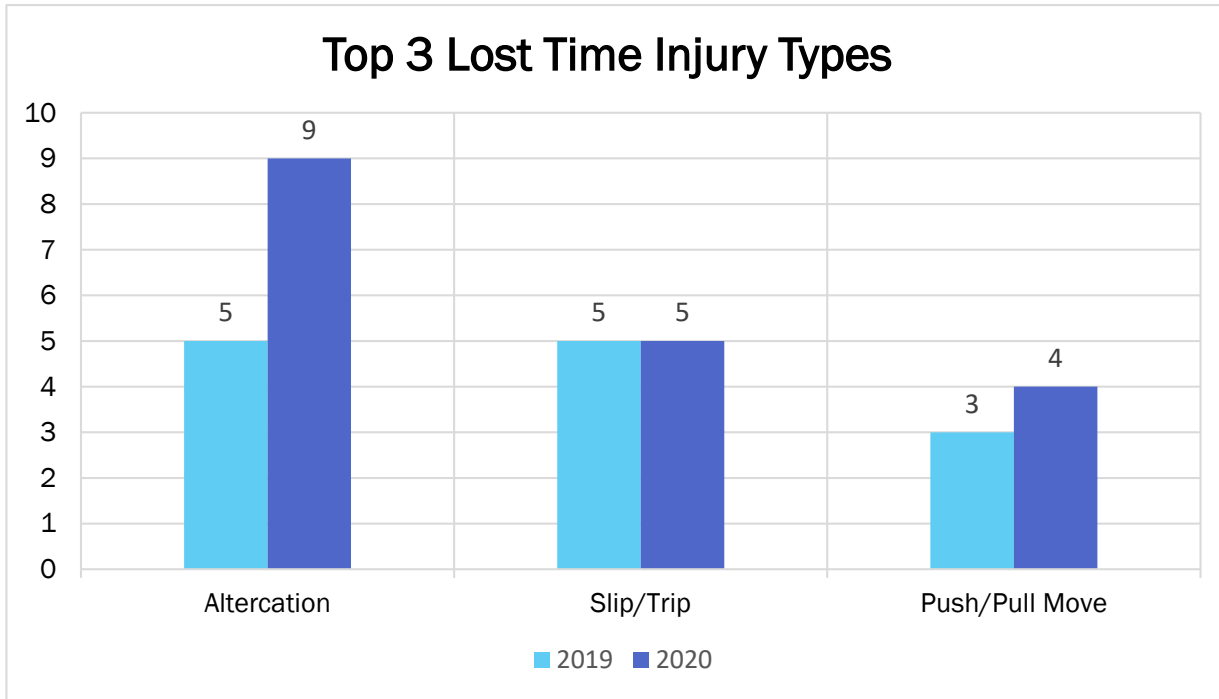
- Lost Time (LT) injuries are injuries that result in the employee missing at least one work day or shift
 - Short Term = 1 to 5 days
 - Intermediate+ = 6 or more days
- Data derived from Lost Time injuries reported through Worker's Compensation Department
- Data includes all LT injuries that occurred between January and August 2020 that were reported as of September 18, 2020
- For comparison purposes, 2019 data looks at injuries that occurred during the same time period (January to August 2019)
- Rates for each department are calculated per 100 employees (i.e. Department rate of 2.0 = 2 injuries per 100 employees)



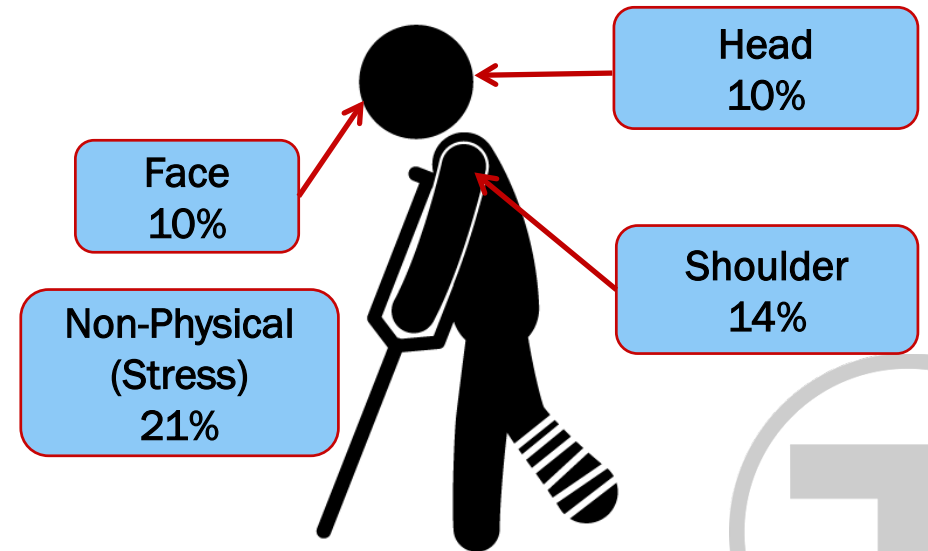
LT Employee Injuries – Rail Transportation

Department LT injury rate per 100 employees			
CY	Short Term	Intermediate+	Total
2019	0.16	2.44	2.60
2020	0.16	2.20	2.36

Highest Lost Time Injury Rate by Job Classification	
Job Classification	LT Rate
Customer Service Attendant	9.0
Motorperson – Part Time	5.6
Motorperson – Full time Yard	5.3



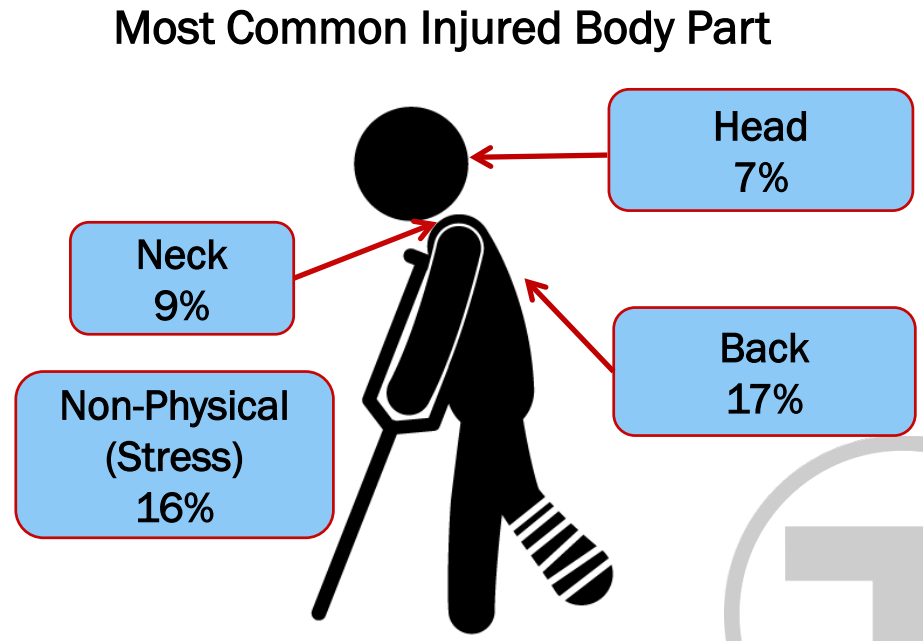
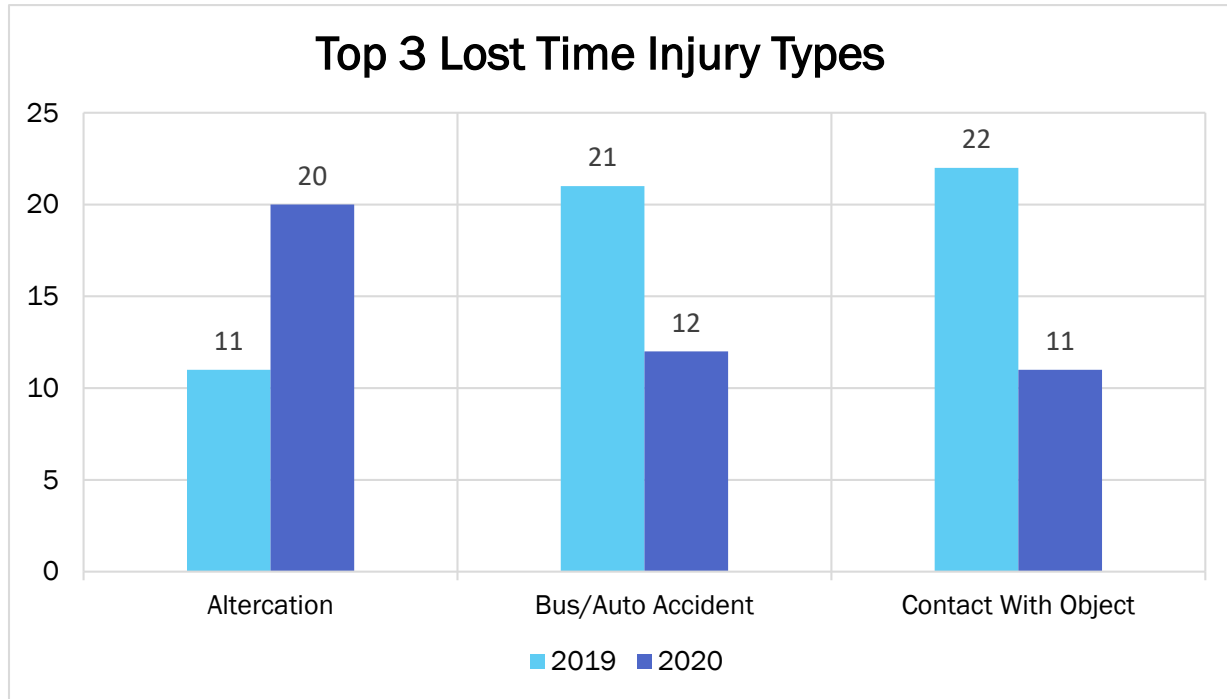
Most Common Injured Body Part



LT Employee Injuries – Bus Transportation

Department LT injury rate per 100 employees			
CY	Short Term	Intermediate+	Total
2019	1.14	4.16	5.30
2020	1.14	2.81	3.95

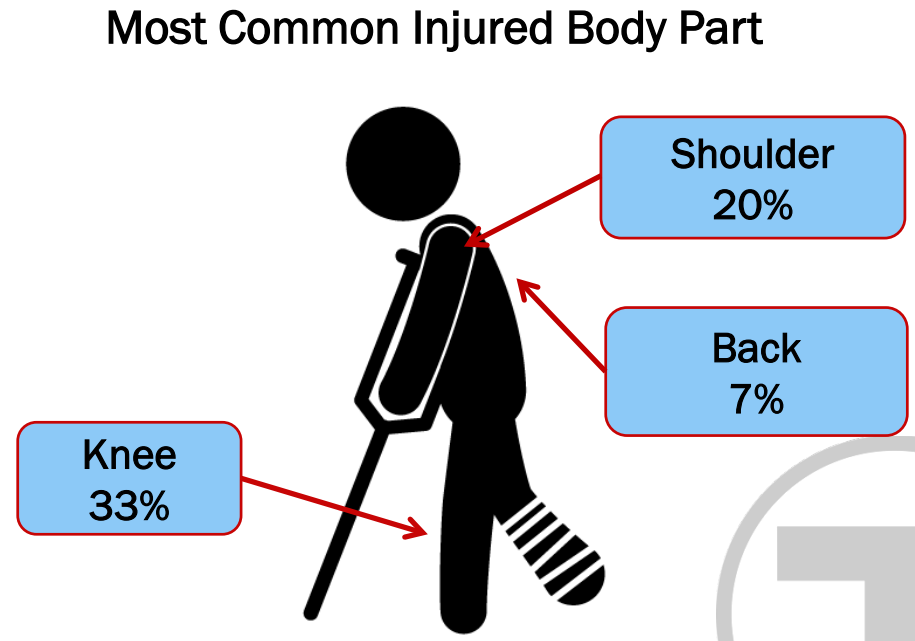
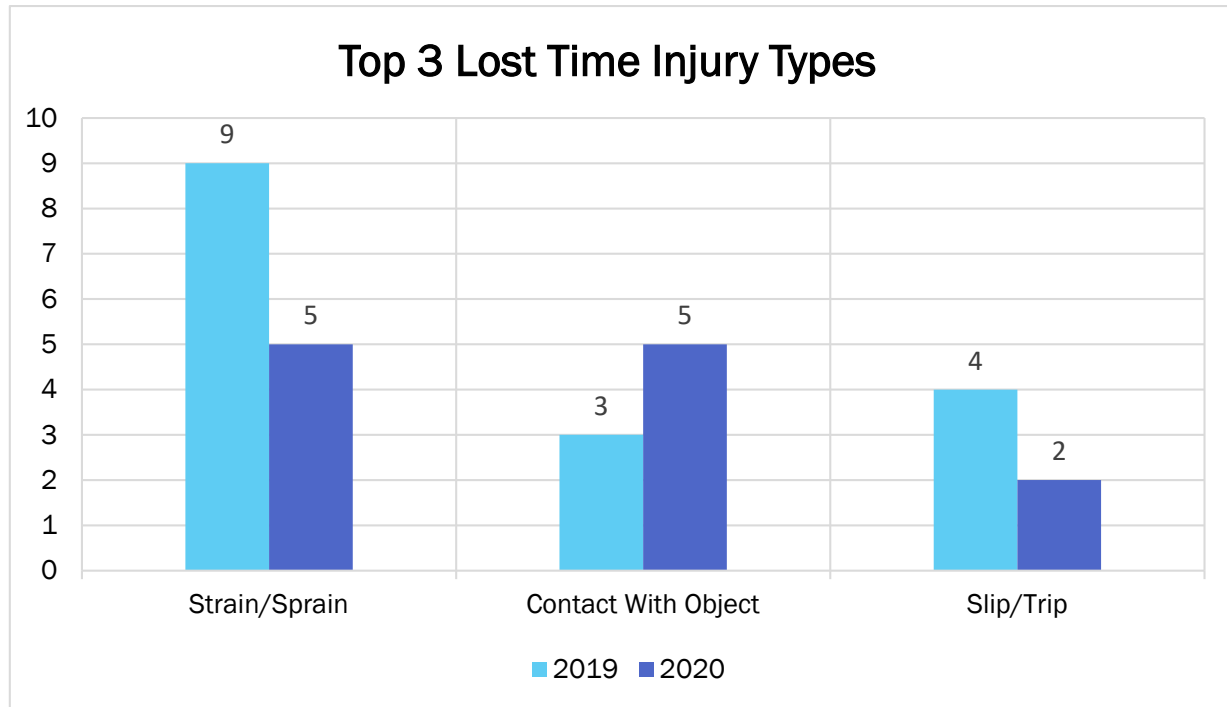
Highest Lost Time Injury Rate by Job Classification	
Job Classification	LT Rate
Operator – Full Time	4.5
Operator – Part Time	4.0
Inspector	1.4



LT Employee Injuries – Rail Maintenance

Department LT injury rate per 100 employees			
CY	Short Term	Intermediate+	Total
2019	0.20	3.36	3.56
2020	0.40	2.57	2.96

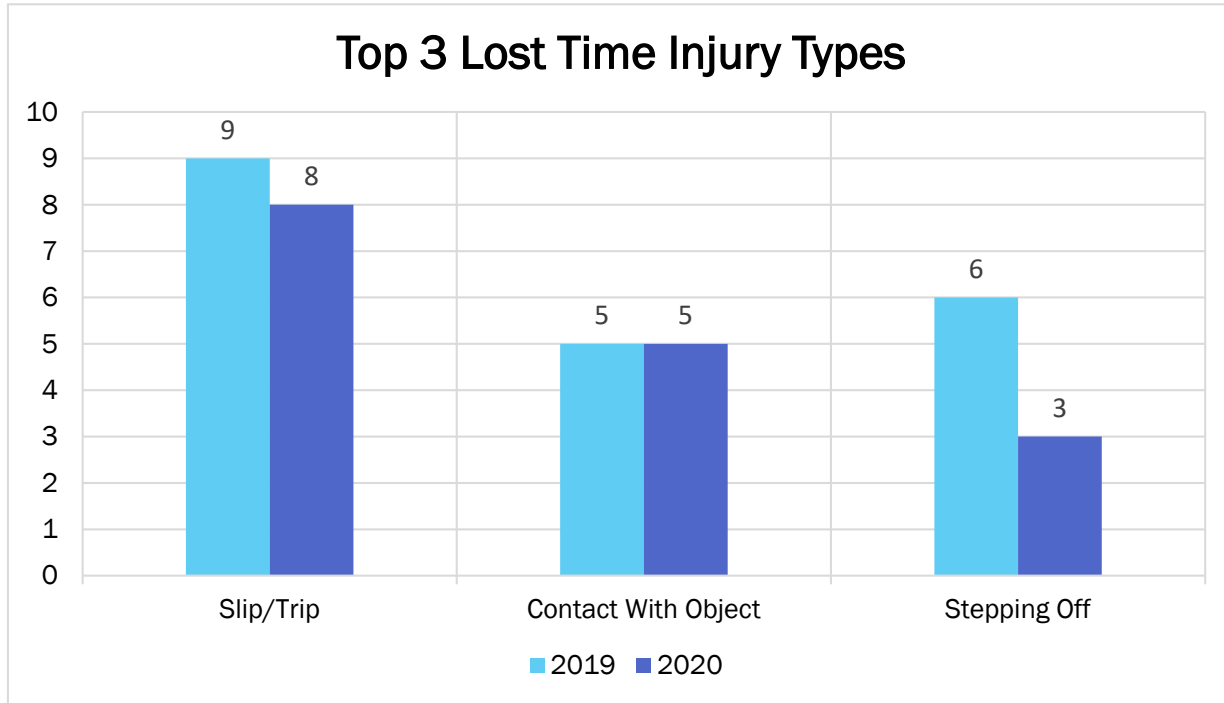
Highest Lost Time Injury Rate by Job Classification	
Job Classification	LT Rate
Machinist	6.3
Rail Repairer	3.2



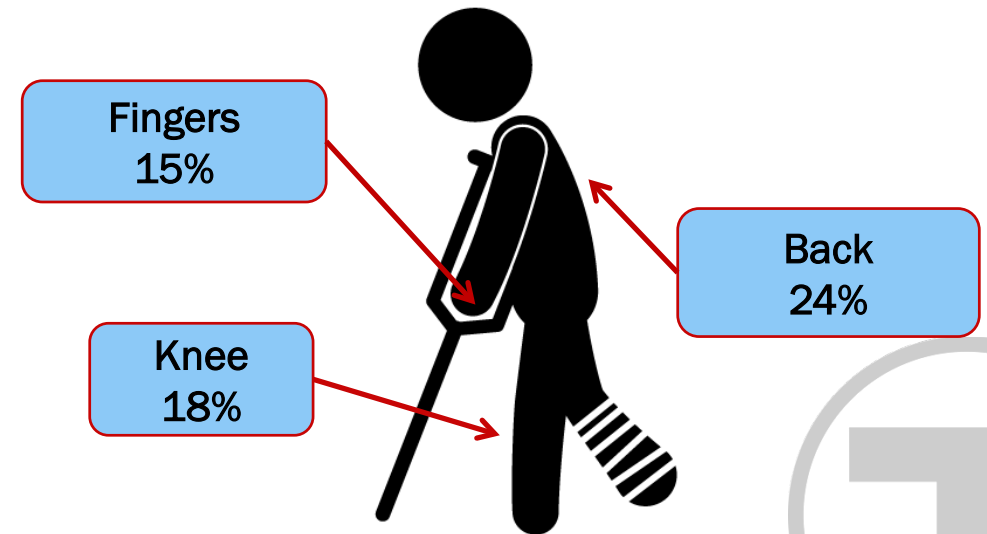
LT Employee Injuries – Bus Maintenance

Department LT injury rate per 100 employees			
CY	Short Term	Intermediate+	Total
2019	2.01	5.80	7.81
2020	1.79	5.58	7.37

Highest Lost Time Injury Rate by Job Classification	
Job Classification	LT Rate
Fueler	9.8
Technician A	9.3
Repairer	3.5



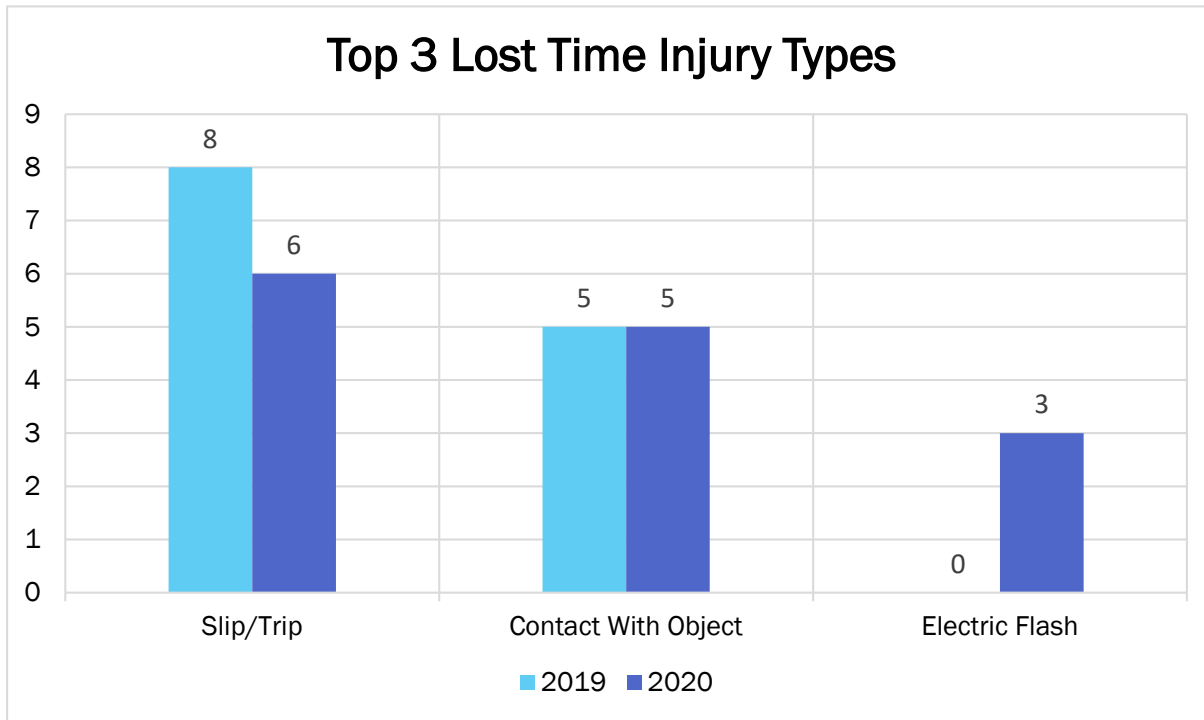
Most Common Injured Body Part



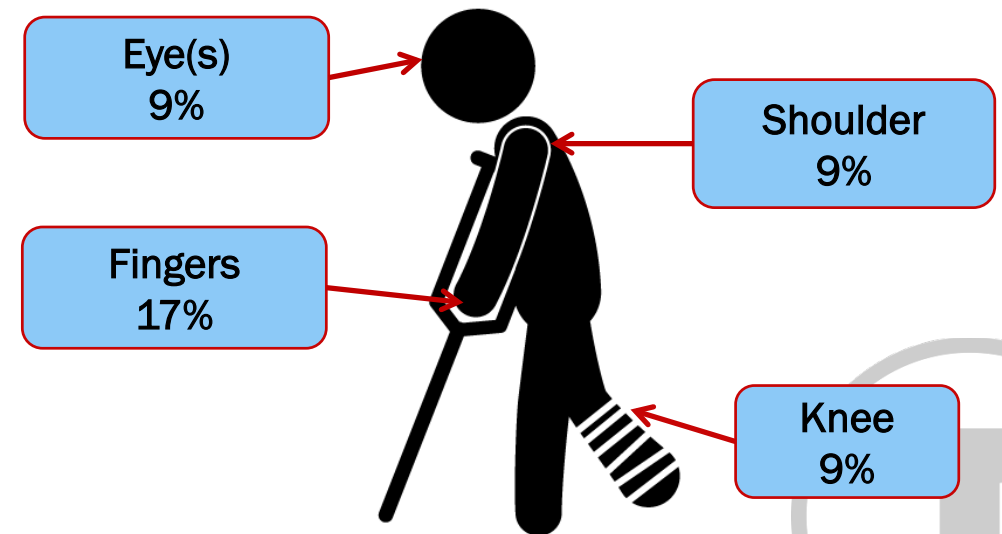
LT Employee Injuries – Engineering & Maintenance

Department LT injury rate per 100 employees			
CY	Short Term	Intermediate+	Total
2019	0.44	2.88	3.33
2020	0.22	2.33	2.55

Highest Lost Time Injury Rate by Job Classification	
Job Classification	LT Rate
Track Laborer	6.6
Equipment Operator	3.7
Line Repairer	3.3

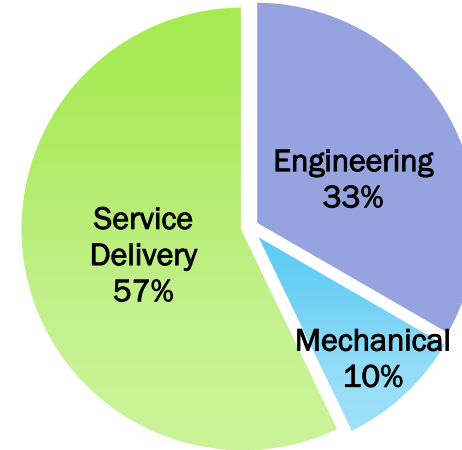


Most Common Injured Body Part

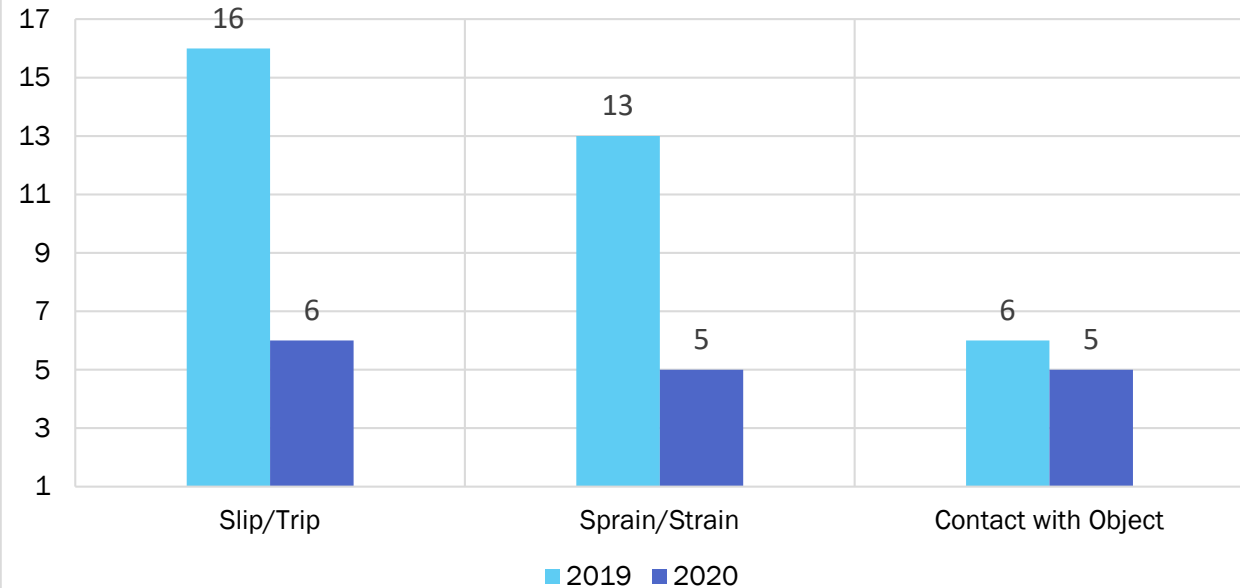


Employee Injuries – Commuter Rail

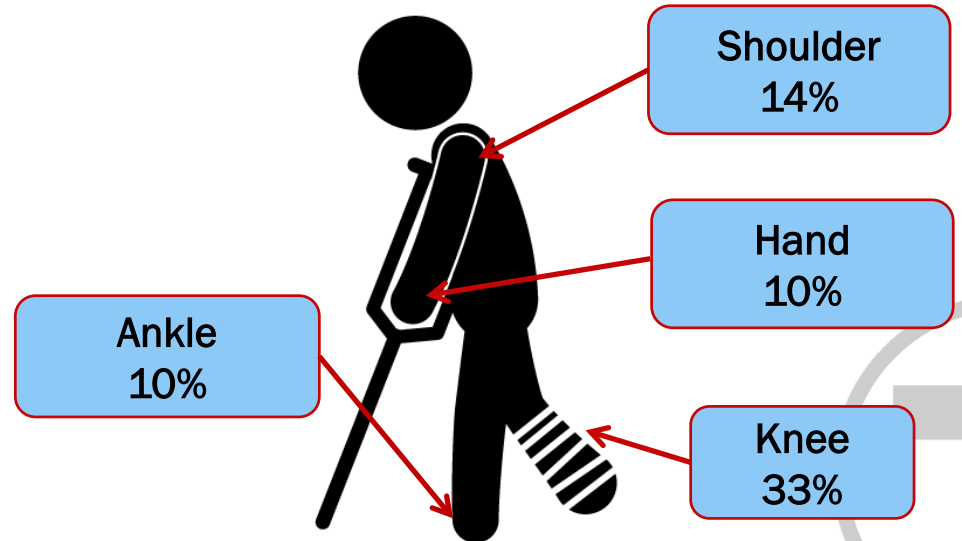
Injuries by Department



Top 3 Lost Time Injury Types



Most Common Injured Body Part



Conclusion

- Altercation injuries (physical and non-physical) have increased in 2020 and have resulted in a significant number of lost time injuries to Bus and Rail Transportation employees
 - With the recent installation of operator barriers on vehicles, longer term monitoring is necessary to determine impact on incident rates
- MBTA is continuing to advance the Job Hazard Analysis initiative to identify hazards in daily tasks and PPE
- Improvements have been made to the Safety Equipment catalog and warehouse inventory to enhance accessibility of PPE and reduce delivery time
- MBTA Safety is working with all affected departments to enhance the investigation process and develop training specific to employee injury investigation to improve reporting and identify root causes of injuries to assist in prevention
- State of Good Repair improvements are being made in yards and maintenance facilities, including Cabot and Wellington

