



Long Term Outcomes Of Trauma

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INTRODUCTION

- In 2017, the Centers for Disease Control and Prevention reported that US firearm-related homicides reached their highest peak since tracking of these data began 40 years ago¹
- The mean initial hospitalization costs related to firearm injuries are estimated at \$735 million per year, with an increasing burden placed on taxpayers¹
 - Despite these statistics, very little is known about how these traumatic injuries impact patient lives after leaving the hospital
- Question:** What are the long-term outcomes of trauma on a patient's physical, mental, and social health?
- Purpose:** With the information that is received, we hope to implement long term patient care that is focused on improving the physical, mental, and social recovery of patients after injury.

METHODS

- This research focuses on people who have suffered traumatic injuries, specifically gun shot wounds.
- To assess the social, mental, and physical health of participants, surveys are used that assess drug and alcohol use, depression, anxiety, relationship and living status, and pain among other things.
 - Appendix 1 Question Battery
 - PROMs (Patient Reported Outcome Measurement Information System) 29
 - PC-PTSD-5
- Patients are contacted immediately after they are discharged, 6 months later, 1 year later, and 2 years later.

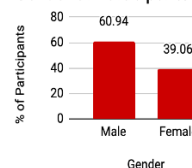
REFERENCE

- Vella et al. (2019) Long-term Functional, Psychological, Emotional, and Social Outcomes in Survivors of Firearm Injuries. *Jama Surgery* doi:10.1001/jamasurg.2019.453

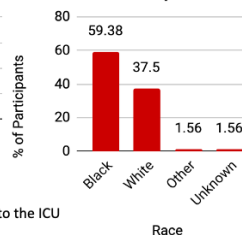
RESULTS

Demographics

Gender of Participants



Race of Participants



- Total of 64 Participants
- 20 (31.75%) were admitted into the ICU

	Median	Range
Age	50.5	19-78
Length of Stay at Hospital	5	0-23
ICU Length of Stay (if admitted)	4	0-10

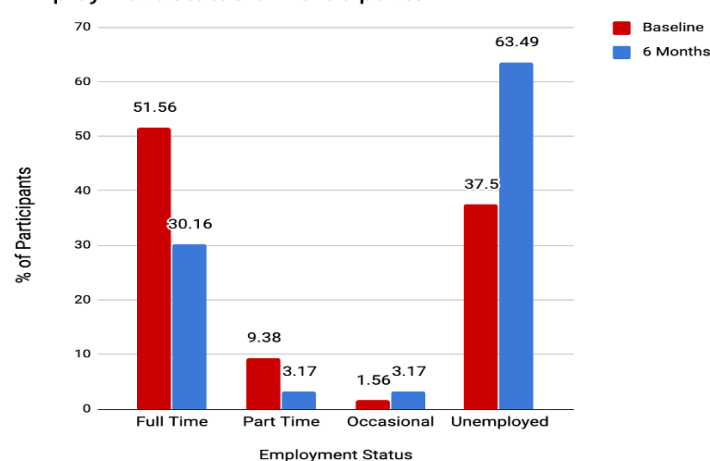
Baseline & 6 Month Results

Categories		Median	Range	Notes
Pain Intensity	Baseline	7	0-10	0 = no pain 10 = worst pain
	6 Months	5.5	0-10	
Depression	Baseline	6	4-19	4 is best score 20 is worst score
	6 Months	6	4-20	
Ability to participate in social roles and activities	Baseline	18	4-20	4 is worst score 20 is best score
	6 Months	18	4-20	

Additional Data

- 19 people (26.69%) screened positive for PTSD at Baseline
- 20 people (31.25%) screened positive for PTSD at 6 months

Employment Status of Participants



DISCUSSION

- The results show that patients are affected by their trauma on a long-term basis.
 - Beyond mortality and economic burden, they are affected physically, socially, and psychologically¹
- Difficulties/Setbacks
 - Sometimes difficult to reach people as they don't answer the phone even after trying to contact them several times
 - The validated survey measures does not apply to everyone
 - Some questions or the provided answers may not apply to some people
 - Baseline: Some people may be unclear as to what Baseline really is. They may be responding to how their present conditions instead of before their injury.
 - In other cases, their conditions were unfortunately as they described prior to their injury or it may be difficult to remember how they were doing prior to their injury based on how far out from the injury they complete the Baseline survey.

CONCLUSION

- Trauma has long term effects on people in the domain of physical, mental, and social health.
 - It affects everyone to a different degree and in a different way
 - People reported to still be in a lot of pain after 6 months
 - People's level of functioning in society reduced as shown by the increase in unemployment 6 months after the injury
- Next Steps
 - Continue to contact patients
 - Research ways and programs to aid in the recovery of patients after injury and begin to implement these programs in the hospital
 - Compare long term effects of different types of injury

ACKNOWLEDGEMENTS

- I would like to thank CURF's PURM Program for funding my research. I would also like to thank Dr. Mark Seamon, Dr. Elinore Kaufman and the entire LTO team for allowing me to take part in this meaningful study.