Trends in Burn Injuries in Northern Israel during the COVID-19 Lockdown

Dani Kruchevsky, MD¹; Maher Arraf, MD¹; Shir Levanon², BA;

Tal **Capucha**, PhD²; Yitzchak **Ramon**, MD¹; Yehuda **Ullmann**, MD¹;

- Plastic & Reconstructive Surgery Department, Rambam Health Care Campus, Haifa, Israel.
- 2. Rappaport Faculty of Medicine, Technion Institute, Haifa, Israel.

Corresponding author:

Dani Kruchevsky, MD

Rambam Health Care Campus

HaAliya HaShniya St 8, Haifa 31096, ISRAEL.

Tel: +972529276619. Fax: +97247772611

Email: d_kruchevsky@health.rambam.gov.il

Conflict of interest: None.

Funding: This research did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit sectors.

Abstract:

Coronavirus disease 2019 obliged many countries to apply lockdown policies to contain the spread of infection. The restrictions in Israel included limitations on movement, reduction of working capacity and closure of the educational system. The present study focused on patients treated at a referral center for burns in northern Israel. Our goal was to investigate temporal variations in burn injuries during this period.

Data was retrospectively extracted from the medical records of burn patients treated at our hospital between March 14, 2020 and April 20, 2020 (i.e., the period of aggravated lockdown). Data from this period was compared to that from paralleling periods between 2017-2019.

During the lockdown and paralleling periods, 178 patients were treated for burn injuries, of whom 44% were under 18. Although no restrictions were enforced during the virus outbreak period with regard to seeking medical care, we noticed a decrease in the number of patients admitted to the emergency room for all reasons. Of particular interest was a 66% decrease in the number of adult burn patients (p<0.0001). Meanwhile, among the pediatric population, no significant decrease was observed. Nonetheless, subgroups with higher susceptibility to burn injuries included children aged 2-5 years (56.3% vs 23.8%, p=0.016) and female patients from all pediatric age groups (57.1% vs 25%, p=0.027). These findings may be explained by the presumably busier kitchen and dining areas during the lockdown. Overall, the study results can assist with building a stronger understanding of varying burn injuries, and with developing educational and preventive strategies.

Keywords: Burns; Coronavirus; Lockdown

Introduction:

In December 2019 an epidemic of viral pneumonia started in Wuhan, China, and rapidly spread to many countries until the World Health Organization (WHO) declared it a pandemic on January 30, 2020^{1,2,}. The etiology of this pandemic was a newly discovered coronavirus, named 2019-nCoV by the WHO. The disease it causes was subsequently named coronavirus disease 2019 (COVID-19). Common symptoms of the disease include fever, fatigue, as well as dry cough, and the disease may be fatal³. Home isolation and curfew policies were planned and implemented in many countries in order to decrease social contact and to contain the spread of infection⁴. In Israel, February 27, 2020 marks the first date that a case of coronavirus was reported, namely of a patient who traveled from Italy to Israel. On March 14, 2020, as the number of diagnosed patients had increased to 195, the Israeli government declared an aggravation of the existing coronavirus curfew, which included restrictions on movement, reduction of working capacity to 10-20% and closure of the educational system for all ages. Meanwhile, no restrictions were made with respect to seeking medical services⁵.

Burns constitute a significant public health issue and are among the leading causes of morbidity and mortality in the East Mediterranean region⁶. Within the state of Israel, it is reported that burns comprise approximately 5% of all traumas admitted to the hospital⁷. Burn epidemiology is a highly studied field, aimed at describing risks and temporal trends that may guide injury prevention strategies and staffing of burn services. While there are many publications on the epidemiology and risk factors for burn injuries, some conclusions remain controversial. Namely, while some studies found correlations between burns and seasonality^{8,9,10,11,12}, holidays, day of the week^{13,14}, time of the day^{15,16}, gender^{17,18}, age groups^{7,19,20}, among other factors^{21,22}, others did not ^{23,24}.

In the present study, we examined temporal variation in cases of burn injuries at a referral center for burns in northern Israel. The covid-19 outbreak and the subsequent lockdown

represent a unique time period during which the majority of the pediatric population, as well as parents, have stayed at home.

Methods:

Data were retrospectively extracted from the medical records of all patients treated for burn injuries at our level 1 trauma center between March 15, 2020 and April 20, 2020. These dates correspond to the period during which harsher lockdown policies were imposed in Israel. Data from this period was compared to the paralleling periods between the years 2017-2019.

For each patient, demographic information and injury-specific variables were extracted from the medical records, including age, gender, ethnicity, date of injury, burn etiology (flame, scald, contact, chemical and electrical) and circumstances (home, outdoors, work), TBSA, depth of burn, and whether the patient was discharged or admitted to hospitalization.

Statistical analysis was performed using SAS software (version 9, SAS Institute, Inc., Cary, NC, U.S.A.). Descriptive statistics in terms of mean, standard deviation (SD) and percentage were calculated to the whole parameters in the study.

Pearson's chi-squared test and Fisher's exact test were utilized to investigate categorical values, while student's t-test was used to investigate quantitative parameters, according to the year of burn injury.

Two-sided p-values were used for hypothesis testing and a value of <0.05 was considered significant. This retrospective observational study was approved by the local Institutional Review board (IRB) according to the International Conference on Harmonization Good Clinical Practice (ICH-GCP) standards.

Results

During the period investigated (March 15, 2020 - April 20, 2020), out of 1134 pediatric patients who visited the pediatric emergency room (ER), 16 suffered from burn injuries (Table 1). Meanwhile, out of 5295 adult patients who arrived to the hospital's ER, 10 sustained burn injuries (Table 2).

Pediatric burn patients

While the total number of patients and trauma patients arriving to the pediatric ER decreased significantly during the coronavirus lockdown (2386 vs 1134 and 703 vs 331, p<0.0001 respectively), the number of pediatric burn injuries admitted to the ER did not change significantly in comparison to the paralleling periods between 2017- 2019 (21 vs 16, p=0.17) (Fig. 1).

In relation to the 2020 dates examined in this study, the mean age of the pediatric patient admitted to the ER was 3.77 years. Subgroup analysis of the pediatric population revealed a significant increase in the number of burns among children aged 2-5 years during the studied period in 2020 versus the paralleling periods between 2017-2019 (56.3% vs 23.8% p=0.016), 89% of whom were injured during cooking and dining activities. Interestingly, while the 2-5 age group appears to have had the highest susceptibility to burn injuries during the corresponding dates between 2017-2019 (36.5%) (Fig. 2). An additional discordance was found upon analyzing trends in the pediatric population according to gender. While most pediatric burn patients during the COVID-19 lockdown were females (75% vs 25%), in the paralleling periods between 2017-2019, they were males (57.1% vs 42.9%, p= 0.027) (Fig 3).

The most dominant etiology of burn injuries throughout the coronavirus lockdown was scalds (93.7%) followed by a single case of electrical burn (6.3%). In the corresponding dates between 2017-2019, causes of burns were more diverse, including: scald (71.4%), contact (11.1%), fire (9.5%), sun (4.8%), and chemical (3.2%) injuries (Table 1).

In terms of similar trends among the two studied periods, the mean TBSA calculated for injuries during the coronavirus lockdown was 3.67%, while in the paralleling periods between 2017-2019, it was 3.56% (p=0.9). Similarly, there was no significant difference in the ratio of patients requiring hospitalization (30.2% vs 31.3%, p=1). During the studied period in 2020, upper limbs were the most frequently injured body part (37.5%), a finding that did not differ significantly from that in the corresponding periods between 2017-2019. Likewise, the ratio of Jewish (53.3%) and non-Jewish (46.7%) patients did not change significantly between the studied periods (p=0.86) (Table 1).

Adult burn patients

During the coronavirus lockdown period, both the total number of patients who visited the adult ER, as well as the number of adult patients presenting with trauma and burn injuries, decreased significantly relative to the paralleling periods between 2017-2019 (8849 vs 5295, p<0.0001, 1489 vs 493, p<0.001, and 30 vs 10, p=0.003, respectively). (Fig. 1).

The mean age of the adult patient admitted to the ER during the coronavirus lockdown was 41.2 years. Subgroup analysis of the adult patient population demonstrated that males had a higher incidence of burn injuries during both the studied period in 2020 and the paralleling periods between the years 2017-2019 (60%, and 66.3%, p=0.77). The distribution of patients according to ethnic groups, likewise, did not differ between the two time periods under comparison (p= 0.49) (Table 2).

The results also showed that the mean TBSA burned during the coronavirus lockdown was not significantly different from the TBSA value calculated for the paralleling dates in the years 2017-2019 (3.44% vs 2.85%, p=0.8). Additionally, the fraction of patients requiring hospitalization did not significantly differ between the two periods either (3.67% vs 3.56%, p=0.9) (Table 2).

The most dominant etiology of burns among adult patients during the curfew period in 2020 was fire (50%), and 20% of the injuries were occupation-related. In the periods studied between 2017-2019, however, scald (39.3%) and chemical (25.8%) injuries represented the most common causes of burns, and 34.8% of the injuries occurred at the workplace. In both time periods, upper limbs constituted the area most commonly injured by burns. (50% vs 44.6%, p=0.35) (Table 2).

Discussion:

Burns are common, preventable injuries with significant impact on patients, their families and healthcare services^{6,7}. Understanding the relationship between certain circumstances and their proneness to burn injuries is essential to guiding prevention strategies and planning burn units.

Starting in December 2019, COVID-19 outbreak obliged many countries to apply curfew policies in order to contain the spread of infection. On March 15, 2020, the Israeli government declared an aggravation of the lockdown, including restrictions on movement, workforce reduction to 10-20% capacity and closure of the educational system for all ages. The period between March 15, 2020 and April 20, 2020, which corresponds to the virus

outbreak in Israel and the subsequent 35-day lockdown situation, provided us with the opportunity to study burn etiologies during a particularly unique period.

Although no restrictions were made with regard to seeking medical services during the coronavirus curfew in Israel, the study results suggest that there was a decrease in the number of patients admitted to the ER for all causes. Namely, there was a 41% decrease in adult ER admissions (8849 to 5295, p<0.0001) and a 52% decrease in pediatric ER admissions (2386 to 1134, p<0.0001). The observed reduction in admissions was mostly due to fewer trauma cases and people's fear of contracting coronavirus had they presented to the ER for medical treatment. With respect to burn injuries, there was a significant decrease of 66% in the number of adult burn patients who visited the ER (30 to 10, p=0.003). This can be partly attributed to the decrease in occupation-related burn injures (10 vs 2, p=0.04) following the mandated workforce reduction during the COVID-19 lockdown. This finding is consistent with previous studies, which demonstrated that adult burns were commonly the result of occupational activities^{16,25}.

Interestingly, no significant decrease in burn injuries was observed among the pediatric population (21 to 16, p=0.17). This finding is supported by prior studies wherein most pediatric burns took place at the domestic environment^{16,26,27}. Upon conducting gender-based analysis of the adult and pediatric patient populations, we found male dominance in both the adult (66.3%) and the pediatric (57.1%) patient groups during the periods paralleling the coronavirus lockdown between the years 2017-2019, a finding that is consistent with previous studies^{17,28,29}. This trend in burn injuries likely stems from a combination of environmental, psychosocial and socioeconomic factors²⁰. Interestingly, this dominance pattern was reversed in pediatric patients presenting to our institution during the COVID-19 lockdown (male ratio: 25% vs 57.1%, p=0.027). Since all burn injuries among female pediatric patients were caused by scalds, we can hypothesize that the stay-home mandate

promoted more cooking and dining activities, and has been the cause for 85% of injuries above 2 years of age. Previous studies have also alluded to the kitchen as the location where burn injuries in children commonly take place^{29,30}. Furthermore, since these activities are presumably more appealing to girls, their more frequent occurrence during the lockdown period may have led to a higher ratio of burns in female children.

When evaluating susceptibility to burn injuries by age group during the studied periods between 2017-2019, we found that the incidence of burn injuries were disproportionately high in young children, particularly between the ages of 0-2 years (36.5%), as previously noted by other studies^{7,31,19,20}. Meanwhile, during the 2020 lockdown period, burn incidence in children aged 2-5 years increased significantly compared to the corresponding periods in 2017-2019 (56.3% vs 23.8%, p=0.016). This increase may be attributed to the children's growing curiosity, along with more frequent cooking and dinning activities that took place in an environment that, in most cases, is less well-suited for burn prevention relative to supervised kindergartens (i.e., kindergartens that have a separate kitchen area with restricted access, restriction on maximal water temperature at washbasin, etc.), altogether producing burn-susceptible conditions. Moreover, this curiosity is often not matched by an appropriate level of mental preparedness for preventing and handling kitchen-related accidents²⁵. As evident in the literature, children most frequently endanger themselves from hot liquids when reaching up to kitchen countertops, or from hot tap water in the kitchen or bathroom. ^{26,27,29,32} As such, impulsivity and motor development are important factors that may place children at higher risk in their environment. In contrast, the trend toward lower incidence of burns in children under the age of 2 (36.5% vs 18.5%, p=0.23) may be attributed to the closer supervision of parents throughout the curfew period, as compared to regular times during which these children are under the supervision of an untrained family member, a nanny or

attend in-home daycare, an unsupervised environment that is usually lacking burn prevention practices.

With regard to the different etiologies of burn injuries during the COVID-19 lockdown, we observed that the vast majority of pediatric patients were injured by scalds (93.8%). Meanwhile, causes of burn injuries in the paralleling periods between 2017-2019 were more diverse. Namely, they included contact (11.1%), fire (9.5%), sunburn (4.8%) and chemical (3.2%) injuries, as consistent with previous studies¹⁷.

To our surprise, the mean TBSA burned did not significantly differ between the COVID-19 lockdown period and the corresponding dates in 2017-2019. This finding was true for both the adult (3.44% vs 2.85% p=0.8) and pediatric (3.67% vs 3.56% p=0.9) burn patients. Similarly, the rate of hospitalization in the two periods under comparison was neither statistically significant among adult patients (28.1% vs 30% p=1), nor among pediatric patients (30.2% vs 31.3% p=1). This finding may suggest that even during the virus outbreak, a sensitive time that presumably deterred many from going to the hospital out of fear of virus exposure, most patients, including those with minor burns, continued to seek medical care at the ER. Furthermore, they did not refuse hospitalization when deemed necessary. The number of patients presenting to the ER during the virus outbreak can therefore be used to describe trends in burn injuries in this geographical area.

While the present study does point to certain interesting trends in the incidence and epidemiology of burn injuries during the unique COVID-19 lockdown, it also has several limitations. A major limitation of the study is that it is based on a single institutional database, and therefore, it only reflects trends in northern Israel. Another limiting factor is that our data is based only on patients who visited our institution's ER.

In conclusion, the COVID-19 outbreak and the subsequent lockdown provided us with the opportunity to study the etiologies and circumstances of burn injuries during such unique circumstances. With respect to the adult population, our results demonstrate that the mandated workforce reduction during the COVID-19 lockdown was followed by a decrease in occupational injuries. This is in line with the observation that adult burns tend to occur at the workplace.

On the contrary, most pediatric burns generally occur at a domestic environment. Given the stay-at-home orders during the coronavirus curfew, burn injuries among pediatric patients did not decrease. In fact, within the pediatric population, children aged 2-5 years and females from all age groups were more susceptible to burn injuries. The main cause of burns in this subset of the population was scald injuries, which occurred during cooking and dining activities. These findings can assist both in understanding the different circumstances that render burn injuries more likely, and in developing educational and preventive strategies.

Received

References:

- 1. Li Qun, Guan Xuhua, Wu Peng, et al. Early transmission dynamics in Wuhan, China, of novel coronavirus-infected pneumonia. *N Engl J Med.* 2020;382(13):1199-1207.
- 2. Statement on the second meeting of the International Health Regulations (2005) Emergency Committee regarding the outbreak of novel coronavirus (2019-nCoV). https://www.who.int/news-room/detail/30-01-2020-statement-on-the-second-meetingof-the-international-health-regulations-(2005)-emergency-committee-regarding-theoutbreak-of-novel-coronavirus-(2019-ncov)
- Gorbalenya Alexander E, Baker Susan C, Baric Ralph S, et al. The species Severe acute respiratory syndrome-related coronavirus: classifying 2019-nCoV and naming it SARS-CoV-2. *Nat Microbiol*. 2020;5(4):536-544.
- 4. Wilder-Smith A, Freedman DO. Isolation, quarantine, social distancing and community containment: Pivotal role for old-style public health measures in the novel coronavirus (2019-nCoV) outbreak. *J Travel Med*. 2020;27(2):1-4.
- Israel Coronavirus: 18,180 Cases and 299 Deaths Worldometer. Accessed June 9, 2020. https://www.worldometers.info/coronavirus/country/israel/
- Othman Nasih, Kendrick Denise. Epidemiology of burn injuries in the East Mediterranean Region: A systematic review. *BMC Public Health*. 2010;10.
- Haik Josef, Liran Alon, Tessone Ariel, et al. Burns in Israel: Demographic, etiologic and clinical trends, 1997-2003. *Isr Med Assoc J.* 2007;9(9):659-662.
- 8. Hultman C Scott, Tong Winnie T, Surrusco Matthew, et al. To everything there is a season: Impact of seasonal change on admissions, acuity of injury, length of stay,

throughput, and charges at an accredited, regional burn center. *Ann Plast Surg*. 2012;69(1):30-34.

- Ruckart PZ, Orr MF. Temporal trends of acute chemical incidents and injuries— Hazardous Substances Emergency Events Surveillance, nine states, 1999–2008.
 MMWR Suppl. 2015;64(2):10-17.
- 10. Chen Xiang Jun, Sun Wei Jing, Wang Jing, et al. Epidemiology of bedside stove burns in a retrospective cohort of 5089 pediatric patients. *Burns*. 2014;40(8):1761-1769.
- Yao Yuan, Liu Yuncheng, Zhou Jihong, et al. The epidemiology of civilian inpatients' burns in Chinese military hospitals, 2001-2007. *Burns*. 2011;37(6):1023-1032.
- Rainey Susan, Cruse C Wayne, Smith Jackie S, et al. The occurrence and seasonal variation of accelerant-related burn injuries in central Florida. *J Burn Care Res*. 2007;28(5):675-680.
- Castner Jessica, Yin Yong, Loomis Dianne, et al. Medical Mondays: ED Utilization for Medicaid Recipients Depends on the Day of the Week, Season, and Holidays. J Emerg Nurs. 2016;42(4):317-324.
- Trehan K, Healy J, Gregg SC, et al. Are Burn Unit Admissions Increased during Weekends and Certain Holidays? Vol 2. iMedPub; 2017. Accessed May 30, 2020.
 www.imedpub.comhttp://www.imedpub.com/emergency-and-trauma-care/
- Kai-Yang Lv, Zhao-Fan Xia, Luo-Man Zhang, et al. Epidemiology of pediatric burns requiring hospitalization in China: A literature review of retrospective studies. *Pediatrics*. 2008;122(1):132-142.
- 16. Verey Frances, Lyttle Mark D, Lawson Zoe, et al. When do children get burnt? Burns.

2014;40(7):1322-1328.

- 17. Forjuoh SN. Burns in low- and middle-income countries: A review of available literature on descriptive epidemiology, risk factors, treatment, and prevention. *Burns*. 2006;32(5):529-537.
- Blom Lisa, Klingberg Anders, Laflamme Lucie, et al. Gender differences in burns: A study from emergency centres in the Western Cape, South Africa. *Burns*. 2016;42(7):1600-1608.
- Goldman Sharon, Aharonson-Daniel Limor, Peleg Kobi. Childhood burns in Israel: A
 7-year epidemiological review. *Burns*. 2006;32(4):467-472.
- Lee Christina J, Mahendraraj Krishnaraj, Houng Abraham, et al. Pediatric burns: A single institution retrospective review of incidence, etiology, and outcomes in 2273 burn patients (1995-2013). J Burn Care Res. 2016;37(6):e579-e585.
- 21. Rimmer Ruth B, Weigand Shannon, Foster Kevin N, et al. Scald burns in young children- A review of arizona burn center pediatric patients and a proposal for prevention in the hispanic community. *J Burn Care Res.* 2008;29(4):595-605.
- 22. Moore Justin Xavier, McGwin Gerald, Griffin Russell L. The epidemiology of firework-related injuries in the United States: 2000-2010. *Injury*. 2014;45(11):1704-1709.
- Abeyasundara Sandun L, Rajan Vasant, Lam Lawrence, et al. The changing pattern of pediatric burns. *J Burn Care Res*. 2011;32(2):178-184.
- 24. Teo AIC, Van As AB, Cooper J. A comparison of the epidemiology of paediatric burns in Scotland and South Africa. *Burns*. 2012;38(6):802-806.

- 25. Peck Michael D. Epidemiology of burns throughout the world. Part I: Distribution and risk factors. *Burns*. 2011;37(7):1087-1100.
- 26. Riedlinger Dorothee I, Jennings Paul A, Edgar Dale W, et al. Scald burns in children aged 14 and younger in Australia and New Zealand - An analysis based on the Burn Registry of Australia and New Zealand (BRANZ). *Burns*. 2015;41(3):462-468.
- 27. Drago Dorothy A. Kitchen scalds and thermal burns in children five years and younger. *Pediatrics*. 2005;115(1):10-16.
- FN Williams, S Sljivic, L Chrisco, et al. Acuity Is Seasonal in a Tertiary Care Burn Center. J Burn Care Res. 2020;41(2).
- DM Johnson, LJ White, J Gilstrap, et al. Fireworks and Seafood Boils: The Epidemiology of Burns in Louisiana. *J Burn Care Res.* 2020;41(2).
- 30. Patel Dipen D, Rosenberg Laura, Rosenberg Marta, et al. The epidemiology of burns in young children from Mexico treated at a U.S. hospital. *Burns*. 2016;42(8):1825-1830.
- Othman Nasih, Kendrick Denise, Al-Windi Ahmad. Childhood burns in Sulaimaniyah province, Iraqi Kurdistan: A prospective study of admissions and outpatients. *Burns*. 2015;41(2):394-400.
- 32. Delgado J, Ramírez-Cardich ME, Gilman Robert H, et al. Risk factors for burns in children: Crowding, poverty, and poor maternal education. *Inj Prev.* 2002;8(1):38-41.

| | 2017-2019 | 2020 | p-value |
|--------------------------------|-----------------|-----------------|----------|
| | Parallel period | Lockdown period | |
| ER Admissions | | | |
| All patients, n | 2385.7 | 1134 | < 0.0001 |
| Burn patients, n | 21 | 16 | 0.51 |
| Ratio Burn/All patients | 0.9% | 1.4% | 0.09 |
| Trauma patients, n | 703 | 331 | < 0.0001 |
| Ratio Trauma/All patients | 29.5% | 29.2% | 0.83 |
| Gender | | | |
| Male, n (%) | 12 (57.1%) | 4 (25.0%) | 0.027 |
| Female, n (%) | 9 (42.9%) | 12(75.0%) | |
| Ethnicity | | | |
| Jewish, n (%) | 11 (52.4%) | 9 (56.3%) | 0.86 |
| Non-Jewish, n (%) | 10 (47.6%) | 7 (43.7%) | |
| Age Groups | | | |
| <2 years, n (%) | 7.67 (36.5%) | 3 (18.8%) | 0.23 |
| 2-5 years, n (%) | 5 (23.8%) | 9 (56.3%) | 0.016 |
| 6-18 years, n (%) | 8.33 (39.7%) | 4 (25.0%) | 0.38 |
| TBSA, % | 3.56% | 3.67% | 0.9 |
| Injured area | | | |
| Face, n | 4 | 2 | 0.61 |
| Torso, n | 7.33 | 4 | 0.22 |
| Upper limbs, n | 8.33 | 6 | 0.56 |
| Lower limbs, n | 5.33 | 5 | 0.54 |
| Etiology | | | |
| Chemical, n (%) | 0.67 (3.2%) | 0 (0.0%) | 1.00 |
| Contact, n (%) | 2.33 (11.1%) | 0 (0%) | 0.33 |
| Electricity, n (%) | 0 (0%) | 1 (6.3%) | 0.2 |
| Fire, n (%) | 2 (9.5%) | 0 (0%) | 0.33 |
| Phototherapy, n (%) | 0 (0%) | 0 (0%) | 1.00 |
| Scald, n (%) | 15 (71.4%) | 15(93.7%) | 0.09 |
| Sun, n (%) | 1 (4.8%) | 0 (0%) | 1.00 |
| Hospitalization, n (%) | 6.33 (30.2%) | 5 (31.3%) | 1.00 |

 Table 1. Characteristics of Pediatric Patients.

ER- Emergency Room; TBSA- Total Body Surface Area

 Table 2. Characteristics of Adult Patients.

| | 2017-2019 | 2020 | p-value |
|---------------------------|-----------------|-----------------|----------|
| | Parallel period | Lockdown period | |
| ER Admissions | | | |
| All patients, n | 8849 | 5295 | < 0.0001 |
| Burn patients, n | 30 | 10 | 0.003 |
| Ratio Burn/All patients | 0.33% | 0.18% | 0.107 |
| Trauma patients, n | 1489 | 493 | < 0.0001 |
| Ratio Trauma/All patients | 16.8% | 9% | 0.0001 |
| Gender | | | |
| Male, n (%) | 59 (66.3%) | 6 (60.0%) | 0.73 |
| Female, n (%) | 30 (33.7%) | 4 (40.0%) | |
| Ethnicity | | | |
| Jewish, n (%) | 58 (65.2%) | 8 (80%) | 0.49 |
| Non-Jewish, n (%) | 31 (34.8%) | 2 (20%) | |
| Age, years | 41.2 | 43 | 0.77 |
| TBSA, % | 3.44% | 2.85% | 0.8 |
| Injured area | | | |
| Face, n | 8 | 2 | 0.66 |
| Torso, n | 3.33 | 2 | 0.71 |
| Upper limbs, n | 12.33 | 6 | 0.35 |
| Lower limbs, n | 7 | 2 | 0.87 |
| Etiology | | | |
| Chemical, n (%) | 7.33 (25.8%) | 2 (20.0%) | 1.00 |
| Contact, n (%) | 2 (6.7%) | 0 (0%) | 1.00 |
| Electricity, n (%) | 0.33 (1.1%) | 0 (0%) | 1.00 |
| Fire, n (%) | 4.67(15.7%) | 5 (50%) | 0.02 |
| Phototherapy, n (%) | 0.33 (1.1%) | 0 (0%) | 1.00 |
| Scald, n (%) | 11.67 (39.3%) | 3 (30%) | 1.00 |
| Sun, n (%) | 1 (3.4%) | 0 (0%) | 1.00 |
| Hospitalization, n (%) | 8.33 (28.1%) | 3 (30%) | 1.00 |

ER- Emergency Room; TBSA- Total Body Surface Area

Figure legends:

- Fig 1. Patients Admitted to the Adult and Pediatric Emergency Room with Burn Injuries.
- Fig 2. Distribution of Pediatric Patients with Burn Injuries by Age.

Fig 3. Gender Distribution of Pediatric Patients with Burn Injuries.









Figure 3

