

Audit of pediatrics emergency department visits at Lady Ridgeway Hospital for Pediatrics' in Sri Lanka

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Abstract:

Background: This study aimed to highlight the health seeking behavior of children in an Emergency Department (ED) at Lady

Materials and Methods: Retrospective files review of ED was done for one year period January 2017 to January 2018. Data about the children less than 15 years of age was gathered.

Results: In one year period a total 49 311 patients visited the ED, Among the patients “history of fallen ” were found more frequent 18 078 (36.66) and the second most main diagnosis was trauma (7873).Majority of the admissions were during 10 am-12 noon shift.

Conclusion: Young children as well as non-urgent cases were predominant. Day shift was the busiest one.

Keywords: Children, emergency, fallen, trauma.

Introduction

Lady Ridgeway Hospital for Children(LRH) is the largest public free of charge Pediatric Hospital in the World. It serves as the national referral center for pediatric care for Sri Lanka. It also serves as local hospital for the population in and around Colombo city for minor ailments.

This hospital has 1000 beds and it treats children below 14 years of age from all over the country. It has all supportive services required to provide quality patient care.

The total number staff is over 2000 staff members. The medical staff consists of nearly 70 consultants and nearly 300 Medical Officers. They are organized as medical teams headed by permanent senior consultants who have international experience in that particular specialty. Nursing staff consists of nearly 700 Nursing Officers and are organized as teams in line the organization of Doctors.

Emergency department (ED) provide an extraordinary public service mission by providing emergency care for 24 hours a day, 365 days per year without discrimination of social and economic status.¹Provides free comprehensive health care to all children. The Pediatrics ED is an important part of hospital services. In this study we highlighted the pattern of health seeking behavior by pediatrics cases presented to LRH emergency department.

Materials and Methods

This study based upon the retrospective review of ED files by the medical statics unit of, during the month of October 2019. It is providing secondary to tertiary health care services in the, with a capacity of 24 beds. triage area . This ED also has a pharmacy, radiology and laboratory facilities. There are surgical facilities

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with an operation room, and ENT, eye and dental procedure rooms are also available for emergency patients. This hospital's ED is open 24 hours a day, and has a high-volume of turnover with an average annual attendance 49 311.

The paediatric ED typically contained a total of 12 nurses and six resident doctors. ED doctors could call specialist on call of any specialty, to take second opinion for the patients with expected admissions or complications. Only the specialist or consultant on call could admit a patient as per hospital policy depending upon the patient's condition. All presenting patients to ED had been sorted out by triage nurse.

The ED files had been attained from the medical record unit and looked for the demographical data of paediatric cases including age groups, i.e., infant (birth-12 months), pre-school child (>12 months to six years) and school going child (>6-12 years) according to standard criteria gender, and nationality.

Subjects' final diagnosis as documented by ED physician had been collected, and categorize

Results

In one year period a total 49 311 patients visited ED, out of them 18078 came with history of fallen. Another 7873 came with history of trauma. Males, and pre-school children were more frequent, Majority of patients visited in day shift followed by evening respectively.

Performance of Accident service 2018

No	Description	No of Patients
1	Fall	18078
2	Trauma	7873
3	Animal Bite	4393
4	Foreign body	2466
5	Road Traffic Accident(RTA)	1050
6	Emergency Treatment unit	57
7	Cut injury	1119
8	Burns	615
9	Prick Injury	711
10	Bicycle spoke injury	135
11	Assault	518
12	Deaths	4
13	Crush injury	552

14	Child abuse	22
15	Electrocution	22
16	Others	47
17	Staff	6175
18	2nd visits Patients	5474
	Total	49311

Table-1: Performance of Accident service 2018

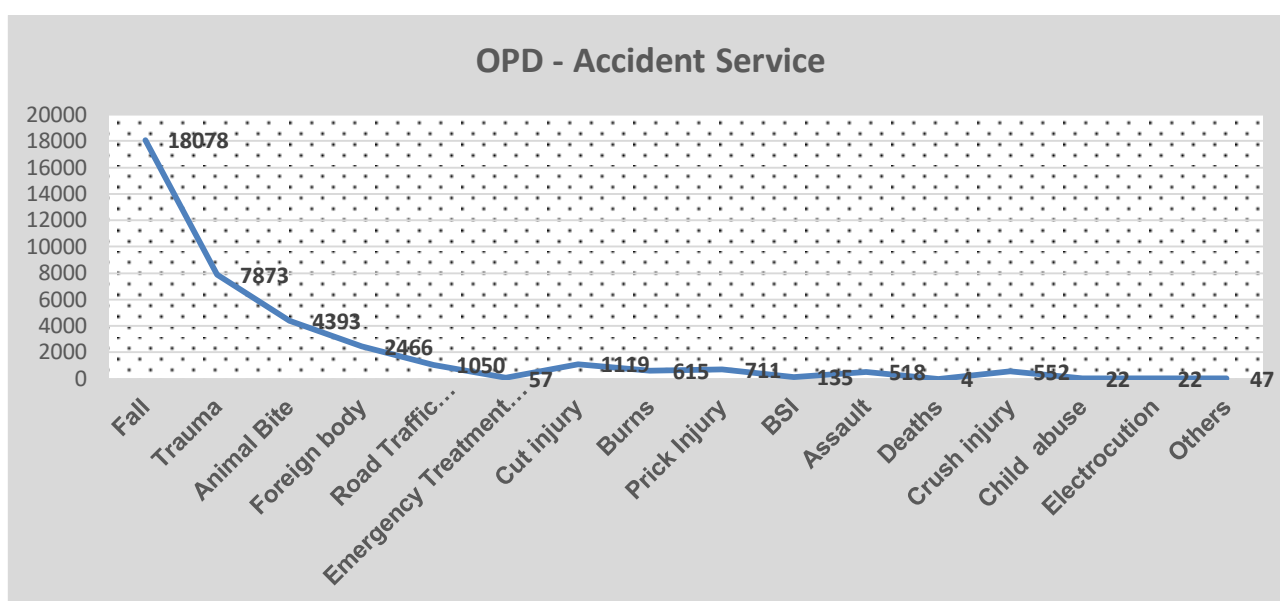


Fig 1- OPD –Accident Service

In year 2018, 4393 animal bite cases were reported to the emergency department at Lady Ridgeway Hospital. Another major category enter to the accident service were (2466) inhalation of the foreign bodies. There were 1050 road traffic accidents reported.

Discussion

Pediatrics emergency rooms were frequently used for nonemergency problems by parents who find them to be convenient sources of health care for their children. The results of our study showed that nearly one-third of patients (33%) were in the non-urgent Category, which were simple cases such as fallen from a bicycle, trauma to head, fallen in the school, and animal bites and those could be handled at a primary care clinic. This observation is comparable with other studies.^{4,8} Males outnumbered the females as were observed by other authors.⁴and there are cases more exposed to outdoor environment hazards trauma during playing, as well as fallen from running vehicles However, the majority of cases were below six years of age (67%). This observation put an extra burden on ED staff, which should have experience in managing infants and pre-school children. The busiest period of the day in our study was “day shift (10a.m. to 12 a.m.) was observed busiest period by other studies^{9,13} and Al Saleh *et al.* reported 8 p.m. to 3 a.m. as the busiest period.⁴ It was clearly demonstrated that majority of patients attended the ED for simple problems. This might be because of free medical treatment and/or patients sometimes seek medical advice from different Centre's for the same complaints. This could eventually affect the quality of services, and also lead to an

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increase in waiting time for patients, as well as a waste of health resources. The recommendations in terms of reducing the number of nonemergency visits to the ED should be strongly stressed.

Conclusion

Majority of cases were pre-school children and visited in day shift. Less and non-urgent cases were more frequent, which were simple cases such as simple fallen from running bicycle or trauma to head while playing cricket. .

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