

PAKISTAN CHILDREN'S HEART FOUNDATION DATA REVIEW

12 JANUARY 2021

CENTER
FOR
RESEARCH
ISSUE 3

IN-PATIENT CARE: THE DISTRIBUTION OF PATIENTS ACCORDING TO AGE GROUP IN THE LAST 5 YEARS

Executive Summary

- The patient turnover from 2016-2020 is recorded as 1959.
- Patient age at PCHF is divided and recorded into four age groups.
- The range for each age group includes Infant (0-1), Child (1.1-12), Adolescent (12.1-18) and Adult (18.1-60).
- The correlation of pediatric age group and CHD is important for deciding the management plan for each patient. It helps to tailor the patient management plan according to each individual age group's specific, complex care requirements.
- Patients' ages ranged from 0.01 to 53 years. (Mean 4.70, median 2.20, mode 2.00, SD 5.65).
- The mean age across all age groups over the last 5 years is 4.70. This could be because of delayed presentation of symptoms or delayed diagnosis in patients.

Key findings

- Overall, at 57.5%, the 'Child' age group has the highest ratio of incidence. Whereas, the 'Adult' age group has the lowest ratio of incidence, at 2.8%.
- The incidence ratio between age groups increases exponentially from 'Adult' to 'Child'.
- Therefore, the order of age group distribution is Child > Infant > Adolescent > Adult.
- Within each age group, the most marked increase is recorded in the 'Child' group from 2019-2020. This increase was 10%.
- The mode across all age groups over the last 5 years is 2.00 years and the median age is 2.20 years.

Policy implications

- To study the correlation between patient age and case complexity.
- To examine the epidemiological factors associated with delayed presentation or delayed diagnosis in pediatric CHD patients at PCHF.

Future trends

- Patients between the age group of 2.0-5.0 should be addressed as a 'high profile' group because of frequency of incidence.
- Surgical, treatment and behavioral interventions should be more centered around this group. Particularly feeding and nutrition, physical activity and mental health.

FIGURE 1: COMPARISON OF DISTRIBUTION OF PATIENTS BY AGE GROUP

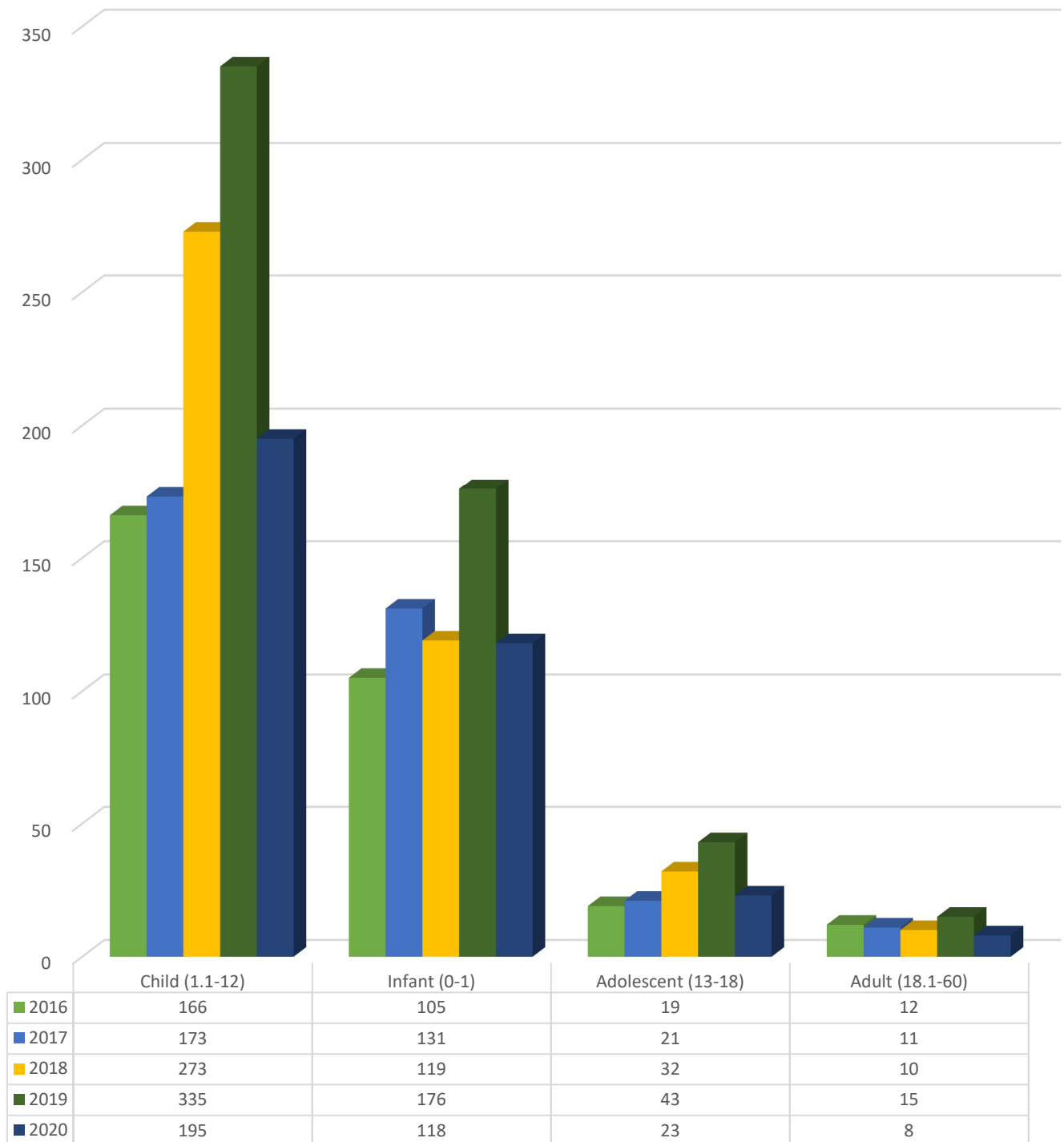


Figure 2 shows the percentage distribution of patients by age group. It can be seen that the 'Child' age group frequency is the highest, with 58%. The 'Adult' age group frequency is the least, at 28%.

Figure 2: Percentage Distribution of Patients by Age Group

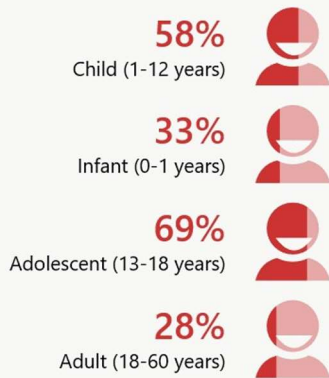


Figure 3 tabulates the mean, median, mode and the range of ages of patients at PCHF.

FIGURE 3: MEAN, MEDIAN, MODE AND AGE RANGE OF PATIENTS AT PCHF IN THE PREVIOUS 5 YEARS (YEARS)	
MEAN AGE	4.70
MEDIAN AGE	2.20
MODE AGE	2.00
MINIMUM AGE	0.01
MAXIMUM AGE	53

A standard deviation of 5.65 indicates a skewed distribution of data of patients' age.

This brief was produced by Dr Samaa Akhtar MD; MSc (London) Research Associate, Pakistan Children's Heart Foundation (PCHF). The advocacy project is led by Mr. Farhan Ahmad, CEO (Volunteer) PCHF.

Contact Information: research@pchf.org.pk and info@pchf.org.pk

Please reference the paper as:

Akhtar, S., & Ahmad, F. (2021). *IN-PATIENT CARE: THE DISTRIBUTION OF PATIENTS ACCORDING TO AGE GROUP IN THE LAST 5 YEARS* (Ser. 3, pp. 1-4, Issue brief No. 3). Pakistan Children's Heart Foundation.

Acknowledgements:

This brief presents independent research by Pakistan Children's Heart Foundation.



RESEARCH CENTER | PAKISTAN CHILDREN'S HEART FOUNDATION

www.pchf.org.pk | +923111143278

Twitter: @CHDHospital | Facebook.com/Pakistan Children's Heart Foundation

#CHD #CHDAwareness #CHDAwarenessbyPCHF #CHHRI #heartwarriors