PROFILE OF PEDIATRIC COVID-19 PATIENTS ADMITTED IN A TERTIARY HOSPITAL FROM MARCH 2020 – FEBRUARY 2021



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BACKGROUND OF THE STUDY



Zhu, N., Zhang et al. (2020). A Novel Coronavirus from Patients with Pneumonia in Chin Wang, D., et al.. (2020). Clinical Characteristics of 138 Hospitalized Patients with 2019 N World Health Organization. (2020). Coronavirus Disease (COVID-19) - Events as They Happen.

RESEARCH QUESTION

What is the demographic and clinical profile of pediatric COVID -19 patients admitted in a tertiary hospital from March 1, 2020 – February 28, 2021?

OBJECTIVES

GENERAL OBJECTIVE

Describe the demographic and the clinical profile of pediatric COVID - 19 patients admitted in a tertiary hospital from March 1, 2020 – February 28, 2021.

SPECIFIC OBJECTIVES

- Determine the prevalence rate of pediatric COVID 19 admitted in a tertiary hospital from March 1, 2020, to February 28, 2021.
- Describe the demographic profile of the study population.
- □ Describe the clinical profile of the study population.
- □ Describe the laboratory profile of the study population upon admission
- Describe the outcome of the study population.

METHODOLOGY

Research Design

Retrospective Descriptive

Participants:

 Confirmed COVID –19 pediatric patients admitted under the Department of Pediatrics

Inclusion:

- All pediatric COVID 19 patients
- . RTPCR positive
- Admitted from March 1, 2020 to February 28, 2021

Sampling Method

- Random sampling on all patients satisfying the inclusion criteria (167 samples)
- Sample Size: 144

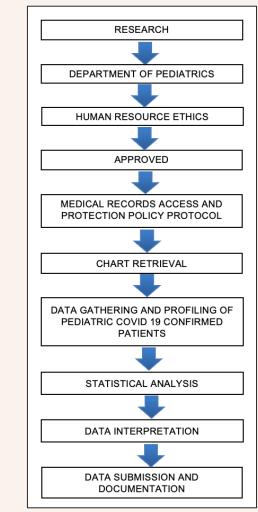
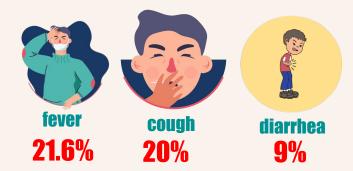


Figure. 1. Workflow for Methodology



		Table 1. Demographic Profile of Pediatric Confirmed COVID - 19	
	De	mographic Profile	Frequency
	Age		8.378+6.16
	0-4	4 years old	61(36.5%)
0-4 61%	5-	9 years old	30(18.0%)
YEARS OLD	10	-14 years old	40(24.0%)
		-19 years old	36(21.5%)
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U,4JZ_ MA(CH 1, 2020 - ÉE	ekuaky zo,	/ ((53.9%)
Q	Fe	male	77(46.1%)
MALES 53.668 (10			
			8(4.8%)
		hin bucc th	159(95.2%)
		Poblacion	36(21.6%)
		Talomo	41(24.6%)
95.2%		Buhangin	19(11.4%)
		Bunawan	8(4.8%)
		Agdao	33(19.8%)
		Paquibato	1 (0.6%)
		Baguio	1 (0.6%)
		Calinan	5(3%)
DAVAO CITY		Marilog	0(0%)
References:	References	Tugbok	7(4%)
Lota-Sahado et al. (2023) Epidemiological and clinical-characteristics of children with confirmed COVID-19 indexin in a tertiary retemptorsol ilundain et al. (2021) Chestradiograph in hospitalized children with COVID-19. A review of findings and indications. Eur J Radiol Open Part City of Government of Davao (2021). Strict household lockdowns enforced in Davao City amid COVID-19 surge World H	a in Mania devine from the second secon	alysis Conters in Pediatrics entific brief, 29 September 2021	8(4.8%)

ASYMPTOMATIC 49.7%



Presenting signs and symptoms upon admission	Frequency		
Ageusia	0(0%)		
Altered Mental Status	0(0%)		
Anorexia	1(0.6%)		
Anosmia	0(0%)		
Coryza	10(6.0%)		
Cough	33(20%)		
Diarrhea	15(9.0%)		
Dyspnea	9(5.3%)		
Fever	36(21.6%)		
General Weakness	13(7.8%)		
Headache	1(0.6%)		
Nausea/Vomiting	0(0%)		
Myalgia	2(1.2%)		
Sore throat	1(0.6%)		
Others	0(0%)		
Asymptomatic	83(49.7%)		
Category according to presenting signs and symptoms upon admission			
Asymptomatic	83(49.7%)		
Mild	58(34.7%)		
Moderate	18 (10.8%)		
Severe	2(1.2%)		
Critical	6(3.6%)		
Critical – MISC	0 (0%)		

Table 2. Clinical Profile of Pediatric Confirmed COVID - 19

Lota-Salvado et al. (2023) Epidemiological and clinical characteristics of children with confirmed COVID-19 infection in a tertiary referral hospital in Manila, Philippines. Trop Med Health 51, 9

References:

Table 3. Laboratory profile of thestudy population upon admission			
Laboratory Profile	Mean		
Complete Blood Count			
Hemoglobin	125.91±24.007		
Hematocrit	0.371±0.063		
Red blood cell	7.865±42.209		
White blood cell	11.161±10.88		
Neutrophil	50.553±19.015		
Lymphocytes	38.155±18.11		
Monocytes	7.506±2.64		
Eosinophil	3.224±3.992		
Platelet	329.05±127.935		
CRP	38 (22.8%)		
CRP (Quantitative)	1.745±2.954		
Chest X-ray			
Pneumonia	44(26.3%)		
Unremarkable	115(68.9%)		
Others	8(4.8%)		

Table 4. Outcome of the study population			
Outcomes	Values		
Number of hospital days	10.122±8.88		
Disposition			
Discharged/Improve	99 (59.3%)		
Transferred to TTMF	59 (35.3%)		
Expired	9(5.4%)		
Home Against Medical Advice	0(0%)		
Absconded	0(0%)		

CONCLUSION

COVID-19 in Pediatric Age Group

- a. Age: Vulnerability of younger children
- b. Clinical Profile :
 - Diverse nutritional status
 - Majority did not have any pre-existing medical conditions
 - Mild or less severe compared to adults
 - Predominance of asymptomatic cases
 - Common presenting symptoms: fever, cough, and diarrhea
- c. Laboratory Profile:
 - Leukocytosis with lymphocytic predominance
 - Thrombocytosis
 - Elevated CRP findings
 - CXR: Pneumonia
- d. Outcome: Improved and discharged

RECOMMENDATIONS

- Awareness and preventive measures
- Develop pediatric-specific guidelines
- Comprehensive testing and surveillance strategies
- Further studies regarding pediatric COVID 19

