

# PEDIATRIC NEPHROLOGY SOCIETY OF THE PHILIPPINES

CENSUS REPORT 2022

## Renal Registry Committee



THE  
Pediatric Nephrology  
Society of the  
Philippines, Inc.

26<sup>TH</sup> ANNUAL  
CONVENTION

**DecisionPoints** IN PEDIATRIC  
NEPHROLOGY:  
IMPROVING CLINICAL OUTCOMES



14 - 16 November 2022  
A VIRTUAL CONGRESS

**Pediatric Nephrology Society of the Philippines**  
**(NKTI-PCMC-PGH-UST-SPMC)**

**January - December 2022**

**Pediatric Renal Census (Admissions & Admission Referrals)**

<b>Renal &amp; Urologic Disorders</b>	<b>2022</b>	<b>Percentage</b>
Primary Nephrotic Syndrome	71	<b>5.2</b>
Acute Post-infectious Glomerulonephritis	130	<b>9.4</b>
Acute & Chronic Renal Failure	509	<b>36.9</b>
Complicated & Uncomplicated UTI	86	<b>6.2</b>
Bladder Dysfunction	28	<b>2.0</b>
Secondary Glomerulonephritis eg. SLE, HSP, etc)	66	<b>4.8</b>
Hypertension & Renal Tubular Disease	194	<b>14.1</b>
IgA Nephropathy	16	<b>1.2</b>
Congenital & Inherited Diseases	219	<b>16.0</b>
Tumors & Tumor Lysis Syndrome	37	<b>2.7</b>
Urolithiasis	21	<b>1.5</b>
<b>TOTAL</b>	<b>1377</b>	<b>100</b>



**Pediatric Nephrology Society of the Philippines**  
**(NKTI-PCMC-PGH-UST-SPMC)**  
**January- December 2022**  
**Pediatric Renal Census (Admissions & Admission Referrals)**

<b>COMPLICATED UTI</b>	<b>2021</b>	<b>%</b>	<b>2022</b>	<b>%</b>
Bladder Dysfunction	3	7.1	2	2.7
Double Collecting System	6	14.3	4	5.4
Neurogenic Bladder	11	26.2	29	39.2
Nephrolithiasis	2	4.8	3	4.0
Phimosis	0	0	2	2.7
UPJO/UPJS	6	14.3	9	12.2
VUR	6	14.3	13	17.6
Hypospadias	1	2.4	2	2.7
Duplicated Kidney	3	7.1	0	0
Kidney Transplant	1	2.4	1	1.4
Liver Transplant	1	2.4	9	12.2
PUV	1	2.4	0	0
Unilateral Renal Agenesis	1	2.4	0	0
<b>TOTAL</b>	<b>42</b>	<b>100</b>	<b>74</b>	<b>100</b>



# Acute Kidney Injury (KDIGO)

	2021	2022
1	37 (13.2%)	97 (39.5%)
2	64 (23%)	73 (17.9%)
3	178 (63.8%)	238 (58.3%)
Mortality	57 (20.4%)	64 (15.7%)
RRT		44 (10.8%)
RRT on discharge	1 (0.4%)	8 (1.9%)
<b>TOTAL</b>	<b>279</b>	<b>408</b>



# Pediatric Nephrology Society of the Philippines

(NKTi-PCMC-PGH-UST-SPMC)

January – December 2022

Pediatric CKD Registry

PRIMARY DIAGNOSIS	FREQUENCY (n = 105)	PERCENT
Chronic Glomerular Disease	60	56.9
Secondary		
Focal Segmental Glomerulosclerosis	1	1.0
IgM Nephropathy	1	1.0
IgA Nephropathy	1	1.0
Lupus Nephritis	10	9.5
Urologic		
Congenital Anomaly of the Kidneys and Urinary Tract	11	10.5
Neurogenic bladder	1	1.0
Obstructive uropathy	3	2.9
Reflux Nephropathy	8	7.6
Renovascular Disorder	1	1.0
Others	8	7.6
<b>TOTAL</b>	<b>105</b>	<b>100</b>



**Pediatric Nephrology Society of the Philippines**  
**(NKTJ-PCMC-PGH-UST-SPMC)**

January 2000– October 2022

**Pediatric Renal Replacement Therapy Census (Admissions & Admission Referrals)**

<b>MODE OF DIALYSIS</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>TOTAL</b>
<b>Peritoneal Dialysis</b>	<b>117</b>	<b>83</b>	<b>69</b>	<b>59</b>	<b>67</b>	<b>96</b>	<b>112</b>	<b>65</b>	<b>44</b>	<b>47</b>	<b>63</b>	<b>1500</b>
<i>Acute PD</i>	<i>49</i>	<i>35</i>	<i>20</i>	<i>26</i>	<i>30</i>	<i>46</i>	<i>25</i>	<i>16</i>	<i>17</i>	<i>11</i>	<i>21</i>	<b>622</b>
<i>CIPD</i>	<i>0</i>	<i>5</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>2</i>	<i>14</i>	<i>0</i>	<i>0</i>	<i>0</i>	<b>112</b>
<i>CAPD</i>	<i>68</i>	<i>43</i>	<i>44</i>	<i>33</i>	<i>37</i>	<i>50</i>	<i>83</i>	<i>34</i>	<i>27</i>	<b>36</b>	<b>42</b>	<b>772</b>
<i>CCPD</i>	<i>0</i>	<i>0</i>	<i>5</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>2</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<b>10</b>
<b>Hemodialysis</b>	<b>43</b>	<b>39</b>	<b>58</b>	<b>40</b>	<b>65</b>	<b>35</b>	<b>118</b>	<b>101</b>	<b>73</b>	<b>82</b>	<b>117</b>	<b>1006</b>
<b>Renal Transplant</b>	<b>7</b>	<b>5</b>	<b>5</b>	<b>4</b>	<b>8</b>	<b>6</b>	<b>7</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>9</b>	<b>131</b>



**Pediatric Nephrology Society of the Philippines**  
**(NKTJ-PCMC-PGH-UST-SPMC Others)**  
**January 2005- December 2022**  
**Pediatric Leptospirosis Census**  
**(Admissions & Admission Referrals)**

Year	Number of Cases
2005	4
2006	7
2007	10
2008	6
2009	65
2010	8
2011	104
2012	127
2013	98
2014	49
2015	25
2016	56
2017	79
2018	181
2019	106
2020	54
2021	49
2022	55



# Pediatric Nephrology Society of the Philippines

(NKTI-PCMC-PGH-UST-SPMC Others)

January – December 2022

## Pediatric Leptospirosis Census (Admissions & Admission Referrals)

LOCATION	NUMBER OF PATIENTS
CAVITE	2
NORTHERN SAMAR	1
RIZAL	6
NAVOTAS	1
PARANAQUE	4
LAGUNA	4
DAVAO CITY	11
MARILOG DISTRICT	0

LOCATION	NUMBER OF PATIENTS
CALOOCAN CITY	5
MALABON	2
MANILA	1
PASIG CITY	1
QUEZON CITY	12
TAGUIG	4
VALENZUELA	1
<b>TOTAL</b>	<b>55</b>





# Pediatric Nephrology Society of the Philippines

(NKTI-PCMC-PGH-UST-SPMC Others)

2021 vs 2022

## Pediatric Leptospirosis Census (Admissions & Admission Referrals)

	2021		2022	
Features	Frequency	%	Frequency	%
<b>SEX</b>				
Male	47	95.9%	<b>54</b>	<b>98.2</b>
Female	2	4.1%	<b>1</b>	<b>1.8</b>
<b>TOTAL</b>	<b>49</b>	<b>100</b>	<b>55</b>	<b>100</b>
<b>AGE</b>				
0-5 years	0	0	<b>0</b>	
6-10 years	1	2.0%	<b>4</b>	<b>7.3</b>
11-15 years	30	61.2%	<b>23</b>	<b>41.8</b>
16-18 years	18	36.8%	<b>28</b>	<b>50.9</b>
<b>TOTAL</b>	<b>49</b>	<b>100</b>	<b>55</b>	<b>100</b>



# Pediatric Nephrology Society of the Philippines

(NKT-PCMC-PGH-UST-SPMC Others)

January – December 2022

## Pediatric Leptospirosis Census (Admissions & Admission Referrals)

Month of Consultation upon Diagnosis of Leptospirosis			
MONTH	NUMBER OF CONSULTATIONS		
	Training	Others	Total
JANUARY	0		
FEBRUARY	0	3	3
MARCH	3	3	6
APRIL	3	3	6
MAY	3	5	8
JUNE	9	10	19
JULY	6	12	18
AUGUST	7	11	18
SEPTEMBER	7	10	17
OCTOBER	8	9	17
NOVEMBER	9	4	13
DECEMBER	0	0	
<b>TOTAL</b>	<b>55</b>	<b>70</b>	<b>125</b>

← Agaton

← Caloy

← Domeng

← Florita

← Henry

← Karding

← Paeng



# Pediatric Nephrology Society of the Philippines

(NKTI-PCMC-PGH-UST-SPMC Others)

2021 vs 2022

## Pediatric Leptospirosis Census (Admissions & Admission Referrals)

	2021		2022	
COMPLICATIONS	FREQ (n=49)	%	FREQ (n= 55)	%
RENAL FAILURE	29	59.2	24	43.6
PULMONARY HEMORRHAGE/ RENAL FAILURE/MYOCARDITIS	1	2.0	3	5.4
PULMONARY HEMORRHAGE/ RENAL FAILURE	4	8.2	7	12.7
RENAL FAILURE/MYOCARDITIS	0	0	1	1.8
NOSOCOMIAL PNEUMONIA	0	0	0	0
NOSOCOMIAL PNEUMONIA, ARDS	0	0	0	0
NONE	15	30.6	20	36.4



**Pediatric Nephrology Society of the Philippines**  
**(NKT-PCMC-PGH-UST-SPMC Others)**

**2021 vs 2022**

**Pediatric Leptospirosis Census (Admissions & Admission Referrals)**

	<b>2021</b>	<b>2022</b>
<b>RENAL REPLACEMENT TX</b>	<b>PERCENT (%)</b>	<b>PERCENT (%)</b>
HEMODIALYSIS	14 (28.6)	<b>17 (30.9)</b>
PERITONEAL DIALYSIS	0	<b>0</b>
NONE	35 (71.4)	<b>38 (69.1)</b>
<b>TOTAL</b>	<b>49 (100)</b>	<b>55 (100)</b>



# Pediatric Nephrology Society of the Philippines

(NKT-PCMC-PGH-UST-SPMC)

January – December 2022

Pediatric Lupus Registry

LOCATION	NUMBER OF PATIENTS	
	2021	2022
NCR	16	19
REGION III		1
REGION IV (Cavite, Laguna, Rizal, Occ Mindoro)	10	14
REGION V		1
REGION VIII		1
REGION IX		1
REGION XI (Davao)	9	26
REGION XII (Catanduanes)		1
REGION XIII (Caraga)	1	0
<b>TOTAL</b>	<b>36</b>	<b>64</b>



# Pediatric Nephrology Society of the Philippines

(NKTi-PCMC-PGH-UST-SPMC)

January – December 2022

## Pediatric Lupus Registry

PRIMARY RENAL PRESENTATION	FREQUENCY	PERCENTAGE
MICROSCOPIC HEMATURIA	1	1.6
GROSS HEMATURIA	3	4.7
ISOLATED PROTEINURIA SIGNIFICANT NEPHROTIC RANGE	15 4 11	23.5
NEPHRITIC SYNDROME	7	10.9
NEPHROTIC SYNDROME	9	14.1
NEPHROTIC-NEPHRITIC	18	28.1
ELECTROLYTE IMBALANCE	0	0
HYPERTENSION	4	6.2
ACUTE KIDNEY INJURY	7	10.9
OTHERS	0	0
TOTAL	64	100



**Pediatric Nephrology Society of the Philippines**  
**(NKT-PCMC-PGH-UST-SPMC)**  
 January – December 2022  
**Pediatric CAKUT Registry**

<b>FEATURES N= (219)</b>	<b>PERCENT (%)</b>
<b>SEX</b>	
Male = 155	<b>70.8%</b>
Female = 64	<b>29.2%</b>
<b>AGE</b>	
0-5 years old = 168	<b>76.7%</b>
6-10 years old = 23	<b>10.5%</b>
11-15 years old = 21	<b>9.6%</b>
16-18 years old = 7	<b>3.19%</b>



# Pediatric Nephrology Society of the Philippines

(NKTI-PCMC-PGH-UST-SPMC)

January- December 2022

## Pediatric Renal Census (Admissions & Admission Referrals)

CONGENITAL & INHERITED DISEASE	2022	%
COMPLETE DUPLICATION CYST	1	0.5
CYSTIC DYSPLASIA, R	1	0.5
DCS	13	6.0
L	9	4.1
R	3	1.4
B	1	0.5
DUPLEX KIDNEY	1	0.5
ECTOPIC KIDNEY	2	0.9
ECTOPIC URETER	2	0.9
HORSESHOE KIDNEY	2	0.9
HYDRONEPHROSIS	38	17.3
HYPOPLASTIC KIDNEYS	5	2.3
HYPOSPADIAS	50	22.8
MCDK	8	3.6
R	5	2.2
L	3	1.4
B		

CONGENITAL & INHERITED DISEASE	2022	%
MEGAURETER	1	0.5
NEUROGENIC BLADDER	10	4.6
PHIMOSIS	1	0.5
POLYCYSTIC KIDNEYS	2	0.9
POSTERIOR URETHRAL VALVE	1	0.5
RENAL AGENESIS	18	8.2
R	9	4.1
L	8	3.6
B	1	0.5
RENAL CYST	3	1.4





**Pediatric Renal Census (Admissions & Admission Referrals)**

Congenital & Inherited Diseases	2022	%
UNDESCENDED TESTTES	2	0.9
UPJO/UPJS	12	5.5
R	2	0.9
L	6	2.7
B	4	1.8
URETEROCELE	2	0.9
URETHRAL DIVERTICULUM	1	0.5
URETHRAL STENOSIS	1	0.5
URETHRAL STRICTURE	1	0.5
UVJO	2	0.9
R	1	0.5
L	1	0.5
B		
VUR GR 5	14	6.4
R	3	1.4
L	3	1.4
B	8	3.6

Congenital & Inherited Diseases	2022	%
VUR GR 4	9	4.1
R	3	1.4
L	5	2.3
B	1	0.5
VUR GR 3	10	4.6
R	2	0.9
L	4	1.8
B	4	1.8
VUR GR 2	1	0.5
R	1	0.5
L		
VUR GR 1	3	1.4
R	1	0.5
L	2	0.9
Renal Agenesis L, Hypoplastic Dysplastic R	1	0.5
VUR Gr 3, UPJO R	1	0.5
<b>TOTAL</b>	<b>219</b>	



# Pediatric Nephrology Society of the Philippines

(NKT-PCMC-PGH-UST-SPMC)

January – December 2022

Pediatric CAKUT Registry

RENAL PROBLEMS	FREQUENCY	PERCENTAGE (%)
URINARY TRACT INFECTION	52	23.7
FEBRILE UTI	12	
RECURRENT UTI	34	
HYPERTENSION	2	0.9
OBSTRUCTION	4	1.8
ACUTE KIDNEY INJURY	3	1.4
CHRONIC KIDNEY DISEASE	5	2.3
AZOTEMIA	0	
ON RRT	3	
INCIDENTAL	153	69.9



**Pediatric Nephrology Society of the Philippines**  
**(NKTI-PCMC-PGH-UST-SPMC)**  
 January – December 2022  
**Pediatric COVID**

	Male	Female	Total	%
<b>SEX</b>	<b>84</b>	<b>70</b>	<b>154</b>	
<b>AGE GROUP</b>				
<b>&lt;1 years old</b>	8	7	15	<b>9.7%</b>
<b>1-6 years old</b>	16	12	28	<b>18.1%</b>
<b>7-12 years old</b>	27	20	47	<b>30.5%</b>
<b>13-18 years old</b>	33	31	64	<b>41.5 %</b>
<b>%</b>	<b>(54.4%)</b>	<b>(45.5%)</b>		



# Pediatric Nephrology Society of the Philippines

(NKTI-PCMC-PGH-UST-SPMC)

January – December 2022

## Pediatric COVID

PRIMARY RENAL PRESENTATION	COVID WITH RENAL MANIFESTATIONS	RENAL PATIENTS WITH COVID INFECTION
MICROSCOPIC HEMATURIA	3	2
GROSS HEMATURIA	2	3
PYURIA	1	2
PROTEINURIA	2	5
NEPHRITIC	1	6
NEPHROTIC		9
ELECTROLYTE IMBALANCE	7	5
HYPERTENSION	3	7
ACUTE KIDNEY INJURY	28	18
CKD		
No RRT		6
Dialysis		39
Transplant		1
OTHERS		4



**Pediatric Nephrology Society of the Philippines**  
**(NKTI-PCMC-PGH-UST-SPMC)**  
January – December 2022  
**Pediatric COVID**

<b>AKI STAGE (KDIGO)</b>	<b>FREQUENCY</b>	<b>PERCENTAGE</b>
STAGE 1	20	43.4
STAGE 2	13	28.3
STAGE 3	13	28.3



**Pediatric Nephrology Society of the Philippines**  
**(NKTI-PCMC-PGH-UST-SPMC)**  
 January – December 2022  
**Pediatric COVID**

RENAL REPLACEMENT THERAPY FOR AKI	FREQUENCY	PERCENTAGE
NONE	36	78.2
PD	3	6.5
IHD	7	15.2
PIRRT OR SLEDD		
CVVHF		
CVVHD		
CVVHDF		

