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Vaccination Rates among Hemodialysis Patients in Nueva Ecija & Aurora Provinces

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Objectives: Infections is one of the most common causes of morbidity and mortality in dialysis patients. Vaccinations have been proven to give seroprotection & reduce incidences of infection. This study investigates vaccination rates among out-patient hemodialysis patients in two provinces in the Philippines. It will also determine Anti-HBs seropositivity among those vaccinated with Hepatitis B.

Methods: A cross-sectional study based on hemodialysis records among patients in 12 hemodialysis centers. Vaccination records from 2018 were checked & verified in all individuals. Descriptive statistics & chi-square analysis among selective clinical characteristics were performed.

Results: A total of 550 hemodialysis patients were included in this study. 67.5% have completed their Hepatitis B vaccination. 59.1% of patients had Tetanus Toxoid 59.1% but only 46.2% had pneumococcal vaccine. Influenza vaccinations were low (2018, 11.1%; 2019, 8.4% and 2020, 8.9%). On further analysis, there are significantly more females who received Tetanus Toxoid (66.0% vs. 50.2%, $p < 0.01$). All patients vaccinated with Hepatitis B showed significant Anti-HBs titers. Rest of the findings did not show statistical significance.

Conclusions: There is still a significant percentage of patients who did not receive the recommended vaccinations. Lack of access even prior to the pandemic last year, financial constraints and misconceptions on vaccines may have played important roles. These have to be addressed in order to increase vaccine confidence among hemodialysis patients.

Hepatitis, Pneumococcal & Tetanus Toxoid Vaccination Rates



KSN 2021

FULLY VIRTUAL MEETING

 September 02 (Thu) - 05 (Sun)

	Number (n=550)	Hepatitis B (371, 67.5%)	p-value	Pneumo. (254, 46.2%)	p-value	Tetanus (325, 59.1%)	p-value
Age			0.39		0.15		0.35
18-39	106	72		41		66	
40-64	295	192		137		166	
65 & above	149	102		76		93	
Sex			0.19		0.15		<0.01
Female	309	166		151		204	
Male	241	143		103		121	
ESRD Duration			0.84		0.17		0.79
<1 year	65	41		26		41	
1-2 years	116	79		48		67	
3-4 years	212	146		97		128	
>4 years	157	105		83		89	
CKD Cause			0.36		0.40		0.19
DM	301	211		140		182	
HTN	143	96		59		78	
GN	71	45		36		40	
Others	35	20		19		25	

Table 1. Vaccination Rates of Hepatitis B, Pneumococcal and Tetanus Toxoid


KSN 2021
FULLY VIRTUAL MEETING
 September 02 (Thu) - 05 (Sun)

	Number (n=550)	2018 (61, 11.1%)	p-value	2019 (46, 8.4%)	p-value	2020 (49, 8.9%)	p-value
Age			0.67		0.63		0.18
18-39	106	10		11		16	
40-64	295	23		26		30	
65 & above	149	13		12		15	
Sex			0.73		0.41		0.89
Female	309	27		28		34	
Male	241	19		21		27	
ESRD Duration			0.85		0.68		0.23
<1 year	65	6		6		10	
1-2 years	116	11		12		14	
3-4 years	212	15		15		26	
>4 years	157	14		16		11	
CKD Cause			0.12		0.07		0.99
DM	301	24		25		33	
HTN	143	9		10		16	
GN	71	11		12		8	
Others	35	2		2		4	

Table 2. Vaccination rates of Influenza among Hemodialysis from 2018-2020