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Utilization of HA130 filter in patients with refractory pruritis

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Purpose:

To determine the efficacy of utilizing hemoperfu-

disease patients requiring hemodialysis.

Methods:

and Modified Duo's Pruritis Score (MDPS).

after explaining risks and potential benefits.

sion "HA130" to alleviate pruritis in end stage renal Data was collected and stored on a password protected Excel sheet.

The patients had baseline labs as well as VAS and We present a case series of 5 patients on regular MDPS score pre-intervention. The intervention inhemodialysis for a period of > 1 year 3 times week- cluded a total of 36 sessions of hemodialysis with ly per protocol, with Kt/V+ 1.2-1.3. These patients utilization of HA130 filter once a week for 12 all had refractory pruritis while on conventional weeks. The patients were closely monitored and treatment, per Visualized Analogue Scan (VAS) their labs were rechecked after 38 HD sessions. In addition to that, the MDPS and VAS scores were re -taken to assess response for pruritis.

Informed consent was obtained from the patients

Results:

	Patient 1		Patient 2		Patient 3		Patient 4		Patient 5	
Gender	Μ		М		F		F		F	
Age (Yrs)	57		65		46		75		72	
	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
SCr (mg/dL)_	12.05	12.57	10.8	10.2	9.82	11.3	5.86	3.9	9.47	11.7
Na (mEq)	133	133	134	140	136	139	138	142	134	137
K (mEq)	6.3	5.3	8.3	5.7	5	5.15	4.35	4.12	6.88	6.33
Calcium (mg/										
dL)	9.15	9.06	8.9	9.5	9.55	8.26	9.38	7.98	9.54	9.4
Phosphorous										
(mg/dL)	4.99	3.74	6.5	3.2	4	4.86	2.85	3.4	7.26	6.6
PTH (pg/ml)	48.7	39.68	153	73.9	1365	1757	14	Х	584	496
VAS	7	1	7	4	5	2	10	3	5	4
MDPS	36	28	40	32	26	18	36	22	32	32

Table 1: patients with pre and post interventions lab values as well as VAS+MDPS scores

VAS and MDPS scores recorded as above.

pruritis symptoms with a mean improvement on rable. MDPS of 5.6 points, and VAS of 4 points. Despite change on their VAS and MDPS, she did have sub- was noted with the utilization of HA130 filter. jective improvement of her pruritis symptoms.

Mean	Pre	Post
SCr	9.	6 9.934
Na	13	5 138.2
К	6.16	6 5.32
Ca	9.30	4 8.84
PO4	5.1	2 4.36
РТН	432.9	4 591.645
VAS	6.	8 2.8
MDPS	3	4 26.4

Table 2: values with means

Conclusions

The data above shows evidence of stability of elec-

The patients had stability in serum electrolytes post trolytes demonstrating that the addition of HA130 intervention when compared to baseline labs. The filter to existing HD filter Nepro polysulfone medflux 2.1 m2 Dialyzer (HA130 filter was placed proximal to HD filter) did not interfere with the The data above shows evidence of improvement of efficacy of HD as they remained stable and compa-

the fact that one patient did not have any objective Per VAS and MDPS a significant improvement

Clinical Implications

The effect of pruritis on the quality of life of ESRD patients requiring HD is quite significant and though the etiology is likely to be multifactorial we have demonstrated a subjective and objective improvement of pruritis in patients treated with HA130 once weekly for 12 weeks.

Our case series is small and with limited power due to sample size, however it does show some promise in potential non-pharmacologic interventions for pruritis.