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Incidence and determinants of acute hemodialysis complications during the first three sessions in the two hemodialysis centers of Yaounde

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Introduction and aim

The initiation of hemodialysis is associated with increased risk of acute complications. This study aim to determine the incidence and determinants of acute hemodialysis

Patients and Methods

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This was a cohort study of three months duration (January-March 2016) in hemodialysis centers of Yaounde University Teaching and General Hospitals. We followed the first three hemodialysis sessions of two hours each of all consenting adults' patients using a polysulfone membrane and bicarbonate. We examined patients before, during and after each hemodialysis session. All clinical manifestations linked to hemodialysis and occurring up to



- We included 53 patients (71.7% males) with a mean age of 51±17.6 years among which only 49 reached the third session. Two patients died after each first two sessions corresponding to 153 hemodialysis sessions follow up.
- Hemodialysis was initiated in emergency in 83% of cases.
- Uremic encephalopathy (49%), pulmonary edema (34%) and electrolytes and acid-base abnormalities (11.3%) were the main indications of hemodialysis.
- The incidence rate of acute complications was 28.1 complications for 100 sessions of dialysis-days. We observed 17 (39.5%), 14 (32.5%) and 12 (27.9%) acute complications respectively after the first, second and third dialysis sessions.
- We reported 7 deaths giving a global mortality rate of 4.57 for 100 patients-days. This was 3.77, 3.92 and 6.12 respectively after the first, second and third dialysis sessions.

Figure 1: Acute hemodialysis complications



Fever	19.06 (2.58 – 140.75)	0.017			
Bleeding	28.8 (3.34 – 248.04)	0.010	Hyponatremia	1.83 (0.49 – 6.80)	0.36
Disequilibrium syndrome	7.94 (0.71 – 88.10)	0.17	Hyperkalemia	10.76 (1.09 – 105.48)	0.032
Hypertensive crisis	25.33 (11.56 – 55.49)	0.046	Hypocalcemia	2.52 (0.77 – 8.23)	0.119
Hypotension	18.13 (3.55 – 92.44)	0.001	– Hypermagnesemia	1.78 (0.41 – 7.75)	0.459
No conflicts	This study revealed a high	gher incide	Metabolic acidosis Conclusion	0.65 (0.15 - 2.69)	0.709 Efforts <u>s</u> hould be
UTIMETEST	made for early referral of	patients re	equiring hemodialysis.		
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