Table (1): Demographic and clinical features of the studied population

Variable	Summary statistics
Age/months Mean ± SD Median (range)	37.8±44.4 18 (1.5-168)
Gender F M	44 (44.0%) 56 (56.0%)
Type of convulsion Focal GTCC Mixed seizures type	28 (28.0%) 48 (48.0%) 24 (24.0%)
GCS Mean ± SD Median (range)	9.6±2.8 9 (5-15)
Duration/minutes Mean ± SD Median (range)	47.4±19.0 44 (30-120)
Development Normal Delayed	68 (68.0%) 32 (32.0%)
Past history of status No Yes	72 (72.0%) 28 (28.0%)
Family history of similar condition No Yes	82 (82.0%) 18 (18.0%)
Consanguinity Negative Positive	33 (33.0%) 67 (67.0%)

Table (2): Relation between immediate outcome and demographic and clinical features of the studied population

Variable	Improved N=38	Discharged with neurological deficit N=14	Recurrent status N=27	Died N=21	P-value
Age/months					
Mean ± SD	44.6±52.7	51.0±39.8	32.0±33.3	24.3±41.5	0.02
Median (range)	14.5 (2-168)	35.5 (10-120)	18 (2.5-132)	5 (1.5-144)	
P1=0.6, P2=0.96, P3=0.13, P4=0.16, P5=0.002, P6=0.05					
Gender					
F	17 (44.7%)	9 (64.3%)	8 (29.6%)	10 (47.6%)	0.19
M	21 (55.3%)	5 (35.7%)	19 (70.4%)	11 (52.4%)	
Type of convulsion					
Focal	6 (15.8%)	4 (28.6%)	7 (25.9%)	11 (52.4%)	0.004
GTCC	26 (68.4%)	6 (42.9%)	14 (51.9%)	2 (9.5%)	
Mixed seizures type	6 (15.8%)	4 (28.6%)	6 (22.2%)	8 (38.1%)	
P1=0.24, P2=0.39, P3<0.0001, P4=85, P5=0.07, P6=0.008					
GCS					
Mean ± SD	8.7±1.9	10.8±7.7	10.9±2.9	8.7±3.5	0.002
Median (range)	8 (5-13)	10 (7-15)	11 (5-15)	7 (5-15)	
P1=0.09, P2=0.009, P3=1.00, P4=1.00, P5=0.17, P6=0.03					
Duration/minutes					
Mean ± SD	45.4±22.3	53.8±19.3	42.5±16.0	52.8±14.0	0.02
Median (range)	35 (30-120)	57.5 (30-90)	34 (30-90)	60 (30-90)	
P1=0.08, P2=0.61, P3=0.02, P4=0.04, P5=0.82, P6=0.01					
Development					
Normal	30 (79.0%)	10 (71.4%)	12 (44.4%)	16 (76.2%)	0.02
Delayed	8 (21.0%)	4 (28.6%)	15 (55.6%)	5 (23.8%)	
P1=0.71, P2=0.004, P3=1.00, P4=0.10, P5=1.00, P6=0.03					
Past history of status					
No	32 (84.2%)	14 (100%)	10 (37.0%)	16 (76.2%)	<0.0001
Yes	6 (15.8%)	0	17 (63.0%)	5 (23.8%)	
P1=0.17, P2<0.0001, P3=0.50, P4<0.0001, P5=0.07, P6=0.007					
Family history of similar condition					
No	32 (84.2%)	10 (71.4%)	21 (77.8%)	19 (90.5%)	0.50
Yes	6 (15.8%)	4 (25.6%)	6 (22.2%)	2 (9.5%)	
Consanguinity					
Negative	17 (44.7%)	5 (35.7%)	8 (29.6%)	3 (14.3%)	0.12
positive	21 (55.3%)	9 (64.3%)	19 (70.4%)	18 (85.7%)	

Table (3): Relation between immediate outcome and Lab investigations of the studied population

Variable	Improved N=38	Discharged with neurological deficit N=14	Recurrent status N=27	Died N=21	P-value
WBCs Mean ± SD Median (range)	13.5±7.6 10.6 (5-29)	9.3±3.0 8 (6-14)	11.6±5.9 12.8 (4.5-22.7)	9.5±.5 8 (6-17.5)	0.29
HGB Mean ± SD Median (range)	10.7±1.5 10 (7.9-13)	10.9±1.9 11 (7.9-13)	9.8±0.9 10 (8-11.5)	9.8±1.5 10 (6.8-12)	0.06
Platelets Mean ± SD Median (range)	249.1±128.8 334 (155-667)	376.6±135.6 435 (199-667)	276.3±119.6 228 (96-499)	308.8±171.3 235 (129-596)	0.08
Na Mean ± SD Median (range)	136.3±5.7 135 (126-148)	134.1±1.8 133 (132-137)	135.4±5.5 135 (127-146)	136±5.8 134 (130-151)	0.61
K Mean ± SD Median (range)	3.9±0.8 4 (2.8-5.5)	3.7±0.5 3.8 (2.8-4.7)	4.1±0.6 4 (3.5-6)	4.1±0.7 4 (3-5.3)	0.20
Ca Mean ± SD Median (range)	1.2±0.19 1.1 (0.9-1.7)	1.2±0.2 1.2 (0.9-1.5)	1.3±0.26 1.2 (0.9-1.7)	1.3±0.4 1.3 (0.6-1.8)	0.21
S. creatinine Mean ± SD Median (range)	1.7±3.6 0.5 (0.3-12.4)	0.5±0.2 0.5 (0.2-0.9)	0.6±0.2 0.5 (0.2-1.0)	0.6±0.2 0.7 (0.2-1.0)	0.48
S. ammonia Normal High	35 (92.1%) 3 (7.9%)	13 (92.9%) 1 (7.1%)	20 (74.1%) 7 (25.9%)	13 (61.9%) 8 (38.1%)	0.02
P1=1.00, P2=0.07, P3=0.01, P4=0.23,P5=0.06, P6=0.53					
S. lactate Normal High	36 (94.7%) 2 (5.3%)	14 (100%) 0	22 (81.5%) 5 (18.5%)	14 (66.7%) 7 (33.3%)	0.009
P1=1.00, P2=0.12, P3=0.007, P4=0.15, P5=0.03, P6=0.24					
Atrial blood gases Normal Acidosis	34 (89.5%) 4 (10.5%)	14 (100%) 0	26 (96.3%) 1 (3.7%)	18 (85.7%) 3 (14.3%)	0.34

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Table (4): Relation between immediate outcome and other investigations of the studied population.

Variable	Improved N=38	Discharged with neurological deficit N=14	Recurrent status N=27	Died N=21	P-value
EMS					
Normal	38 (100%)	14 (100%)	26 (96.3%)	20 (95.2%)	0.52
Abnormal	0	0	1 (3.7%)	1 (4.8%)	
C.S.F analysis					
Normal	21 (55.3%)	13 (92.9%)	19 (70.4%)	15 (71.4%)	
Encephalitis	7 (18.4%)	1 (7.1%)	2 (7.4%)	0	0.001
Meningitis	8 (21.0%)	0	0	0	
failed	2 (5.3%)	0	6 (22.2%)	6 (28.6%)	
P1=0.08, P2=0.01, P3=0.003, P4=0.16, P5=0.05, P6=0.42					
EEG					
Normal	32 (84.2%)	8 (57.1%)	13 (48.2%)	21 (100%)	0.001
Epileptic discharges	6 (15.8%)	6 (42.9%)	12 (44.4%)	0	
Hippes arrhythmia	0	0	2 (7.4%)	0	
P1=0.04, P2=0.005, P3=0.06, P4=0.55, P5=0.001, P6<0.0001					
MRI\CT brain					
Normal	22 (57.9%)	4 (28.6%)	6 (22.2%)	2 (9.5%)	0.001
Abnormal	16 (42.1%)	10 (71.4%)	21 (77.9%)	19 (90.5%)	
P1=0.06, P2=0.004, P3<0.0001, P4=0.71, P5=0.19, P6=0.43					

Table (5): Relation between immediate outcome and Medical treatment during an attack of the studied population

Variable	Improved N=38	Discharged with neurological deficit N=14	Recurrent status N=27	Died N=21	P-value
Midazolam	11 (29.0%)	3 (21.4%)	2 (7.4%)	8 (38.1%)	
Levetiracetam	25 (65.8%)	9 (64.3%)	16 (59.3%)	4 (19.0%)	
Midazolam & levetiracetam	0	2 (14.3%)	9 (33.3%)	9 (42.9%)	<0.0001
Other antiepileptic drugs	2 (5.2%)	0	0	0	
P1=0.09, P2<0.0001, P3<0.0001, P4=0.25, P5=0.02, P6=0.01					

Table (6): Relation between immediate outcome and possible etiology of the studied population

Variable	Improved N=38	Discharged with neurological deficit N=14	Recurrent status N=27	Died N=21	P-value
Acute disseminated encephalomyelitis	5 (13.2%)	1 (7.1%)	0	0	0.09
Hypoxic ischemic encephalopathy	2 (5.3%)	2 (14.3%)	2 (7.4%)	8 (38.1%)	0.004
P1=0.29, P2=1.00, P3=0.002, P4=0.60,P5=0.25, P6=0.01					
Acute necrotizing encephalopathy	2 (5.3%)	0	0	0	0.34
Basal ganglia infarction	0	0	0	6 (28.6%)	<0.0001
P1=1.00, P2=1.00, P3=0.001, P4=1.00,P5=0.06, P6=0.004					
Encephalitis	5 (13.2%)	1 (7.1%)	2 (7.4%)	0	0.36
Epilepsy	6 (15.8%)	6 (42.9%)	16 (59.3%)	0	<0.001
P1=0.06, P2<0.0001, P3=0.08, P4=0.32,P5=0.002, P6<0.0001					
Hypertensive encephalopathy (CRF)	4 (10.5%)	0	0	0	0.08
Intracranial hemorrhage	2 (5.3%)	0	0	2 (9.5%)	0.32
Meningitis	8 (21.1%)	0	0	0	0.003
P1=0.09, P2=0.02, P3=0.04, P4=1.00,P5=1.00, P6=1.00					
Post traumatic status	0	4 (28.6%)	0	0	<0.0001
P1=0.001, P2=1.00, P3=1.00, P4=0.003,P5=0.009, P6=1.00					
Propionic acidemia (metabolic cause)	0	0	1 (3.7%)	1 4.8(%)	0.52
Hypoglycemia due to insulin overdose	2 (5.3%)	0	0	0	0.34
White matter disease	2 (5.3%)	0	4 (14.8%)	2 (9.5%)	0.34
Not confirmed etiology	0	0	2 (7.4%)	2 (9.5%)	0.20