ED STATUS EPILEPTICUS TREATMENT GUIDELINE

GUIDELINE INTENDED TO PROVIDE FRAMEWORK FOR ANTIEPILEPTIC DRUG (AED) MANAGEMENT FOR PROLONGED OR PERSISTENT SEIZURES. Defined as 5 minutes or more of: (i) continuous clinical and/or electrographic seizure activity (ii) recurrent seizure activity without recovery (returning to baseline) between seizures THIS IS NOT INTENDED FOR ISOLATED OR FREQUENTLY REPETITIVE SEIZURES.





No IV Access

INFANT < 6 MONTHS WITH IV ACCESS

PATIENT >/= 6 MONTHS WITH IV ACCESS

If patient has received appropriate dose/route of first AED (or even 2nd) en route via EMS, proceed to the next step

CHOOSE ONE OF THE MEDS BELOW

MIDAZOLAM INTRANASAL OR IM

0.2 MG/KG INTRANASAL OR IM MAX SINGLE DOSE: 10MG

DIAZEPAM PER RECTUM

 \leq 5 Y.O.AND \geq 5 KG - 0.5 MG/KG PR 6-11 Y.O. - 0.3 MG/KG PR ≥ 12 Y.O - 0.2 MG/KG PR MAX SINGLE DOSE: 20MG

0.1 MG/KG IM

LORAZEPAM

0.1 MG/KG IV MAX SINGLE DOSE: 4MG

LORAZEPAM

0.1 MG/KG IV MAX SINGLE DOSE: 4MG

LORAZEPAM IM

MAX DOSE: 4MG

REPEAT

MIDAZOLAM, DIAZEPAM OR LORAZEPAM

PLUS FOSPHENYTOIN IM

SECOND DOSE AED

W/ 2ND

20MG PE/KG

MAX SINGLE DOSE: 1.5GM CONSIDER IO ROUTE IF VOLUME TOO LARGE FOR IM ROUTE

REPEAT LORAZEPAM PLUS PHENOBARBITAL

PHENOBARBITAL 20MG/KG IV INFUSED **OVER 20 MINUTES** MAX SINGLE DOSE: 1GM

REPEAT LORAZEPAM **PLUS FOSPHENYTOIN**

FOSPHENYTOIN 20MG PE/KG IV INFUSE OVER 7-10 MINUTES MAX SINGLE DOSE: 1.5GM

MIDAZOLAM BOLUS DOSE

0.15 - 0.30MG/KG IV

MAX SINGLE DOSE: 10MG

REPEAT FOSPHENYTOIN IM

10MG PE/KG

CONSIDER IO ROUTE IF VOLUME TOO LARGE FOR IM ROUTE

OBSERVE PATIENT FOR 10 MINUTES AFTER FIRST IM DOSE BEFORE REPEAT DOSE **ADMINISTERED**

IF UNABLE TO OBTAIN PERIPHERAL ACCESS, IMMEDIATELY PLACE IO OR CVL

MIDAZOLAM BOLUS DOSE

0.15 - 0.30MG/KG IV MAX SINGLE DOSE: 10MG

CONTINUE MIDAZOLAM BOLUS DOSES

RE-BOLUS EVERY 5 MINUTES AND INCREASE BOLUS DOSE BY 0.05MG/KG IV UP TO 0.5MG/KG (MAX SINGLE DOSE 20MG) UNTIL CLINICAL SEIZURES STOP AND

START MIDAZOLAM DRIP

START AT 0.1MG/KG/HR AND INCREASE THE DOSE BY 0.05MG/KG/HR EVERY 5 MINUTES TO A MAX OF 0.5MG/KG/HR (UP TO 20MG/HR) UNTIL CLINICAL SEIZURES STOP

REPEAT PHENOBARBITAL

20MG/KG IV

INFUSE OVER 20 MINUTES MAX SINGLE DOSE: 1GM

ADMINISTER WITH MIDAZOLAM

REPEAT FOSPHENYTOIN

10MG PE/KG IV **INFUSE OVER 7-10 MINUTES** MAX SINGLE DOSE: 1.5GM

ADMINISTER WITH MIDAZOLAM

If the patient is intubated or considering admission to the PICU, contact the CHOA transfer center at 5-7778 to discuss admission need with the PICU Physician

PATIENT STABILIZATION ALWAYS ASSESS ABCS

AIRWAY: CONSIDER RAPID SEQUENCE

INTUBATION: 100% O2. ETCO2 MONITORING

BREATHING: CONSIDER BVM

CIRCULATION: **IVF** RESUSCITATION

2 - IV LINES, IF POSSIBLE

LABORATORY ANALYSIS:

CG8

CBC CMP OTHER WORKUP AS

NEEDED

AFD LEVELS

HUGHES SPALDING TRANSFER PROCESS: CONTACT CHOA TRANSFER CENTER AT 5-7778 TO ARRANGE TRANSFER TO EG OR SR PICU

URGENT CARE TRANSFER PROCESS: CONTACT CHOA TRANSFER CENTER AT 5-7778 TO ARRANGE TRANSFER TO EG OR SR EMERGENCY **DEPARTMENT**

OTHER CONSIDERATIONS:

- ORDER ALL MEDICATION DRIPS AS A "STAT" ORDER
- MANAGE THE BREAKTHROUGH SEIZURES PER **N**EUROLOGY

CAUTION:

- AVOID FOSPHENYTOIN FOR PATIENTS WITH DRAVET SYNDROME: USE PHENOBARBITAL OR DEPAKOTE
- AVOID DEPAKOTE FOR PATIENTS WITH MITOCHONDRIAL DISEASE

IV ANTIEPILEPTICS ADJUNCTS: (STARTING DOSE)

Consider in cases of 2nd line medication shortage or if patient already on adjunct medication

KEPPRA (LEVETIRACETAM):

LOADING DOSE: 20MG/KG

BEGINNING MAINTENANCE DOSE 10MG/KG

INITIAL MAX DOSE: 1000MG

5MG/KG Q12H IS USED FOR PROPHYLAXIS ONLY

DEPACON (VALPROATE SODIUM):

5-10MG/KG

INITIAL MAX DOSE: 500MG

(DEPACON, DEPAKOTE, VALPROIC ACID)

LEXICOMP LINK

HTTP://WWW.CRLONLINE.COM/LCO/ACTION/HOME/

SWITCH