

Taking care of a neonate appears complicated due to the many steps needed. However, upon study of this algorithm, the steps are simple and can be carried out in a timely manner.

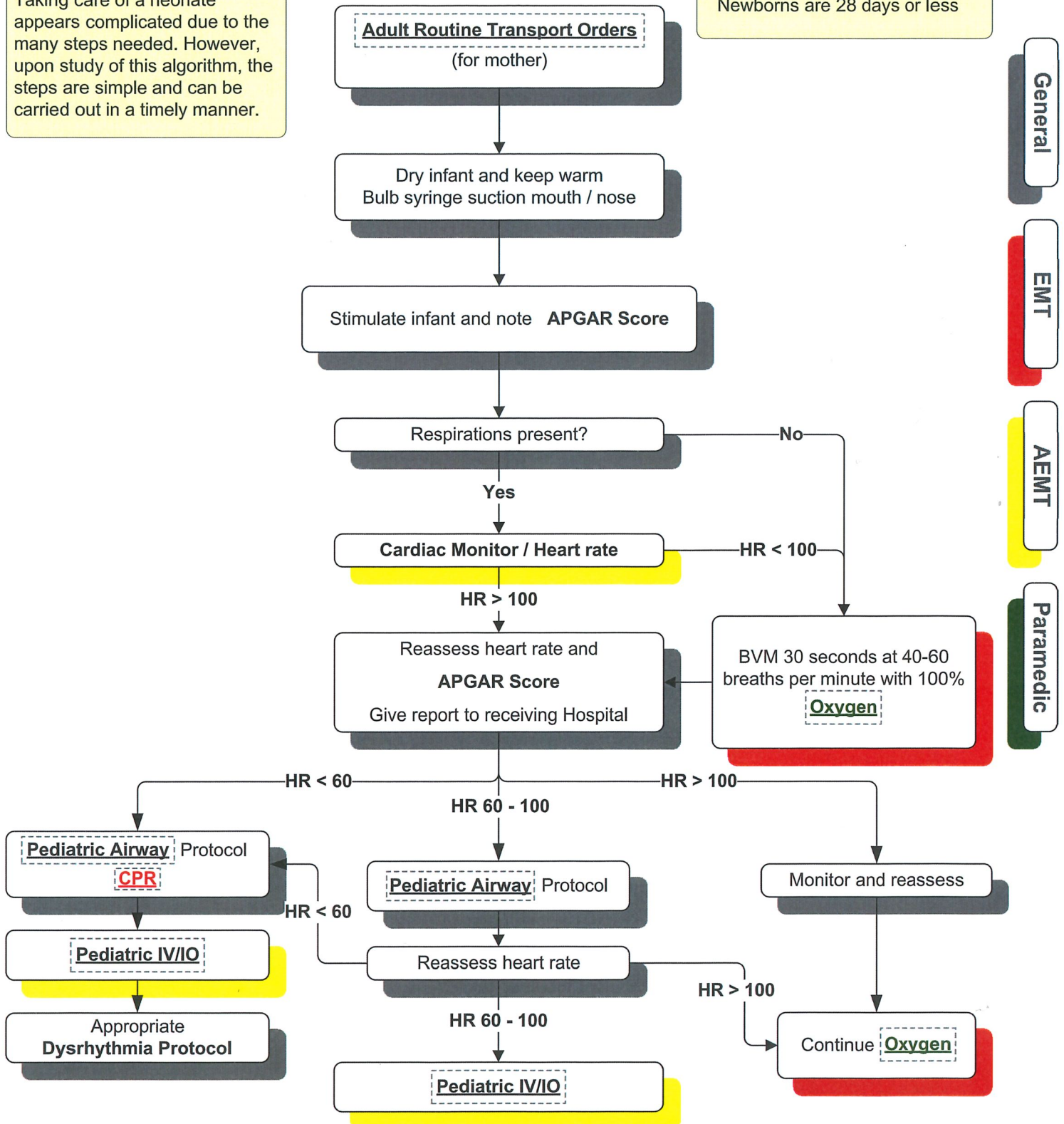
Newborns are 28 days or less

General

EMT

AEMT

Paramedic



Signs of meningeal irritation include

Infants

poor feeding
high-pitched cry
bulging fontanelle
irritable, fussy
poor suck
toxic appearance
lethargy
vomiting
temperature instability
seizures

Children

headache
vomiting
fever
nuchal rigidity
seizures
coma
photophobia

Routine Transport Orders-Pediatric

Monitor neurological status closely
Appropriate infection control measures.

Control seizures per Pediatric Seizures Protocol.

Pediatric Airway Protocol

Intubate and ventilate at a rate of 10-20/min to maintain target SPO₂ of 90% or higher and ETCO₂ of 35-40 mmHg if signs of increased intracranial pressure.

General

EMT

AEMT

Paramedic

Clinical Stages

- I. Vomiting, lethargy, drowsiness
- II. Disorientation, combative, hyperactive reflexes, dilated reactive pupils.
- III. Obtunded, hyperventilation, decorticate posturing.
- IV. Decerebrate posturing, fixed dilated pupils.
- V. Seizures, loss of deep tendon reflexes, flaccidity arrest.

Definition:

Acute encephalopathy with fatty degeneration of the liver. Usually follows 3-7 days after a viral infection (flu, chickenpox, etc.).

Routine Transport Orders-Pediatric

Obtain history.

If signs of increased ICP, Stage II or greater:
Elevate head

Pediatric Airway Protocol

Pediatric IV/IO

Monitor serum **glucose** every 30 minutes.

Control seizures per **Pediatric Seizures** protocol.

Pediatric Airway Protocol

Patients in Stage III or greater need intubation and ventilate at a rate of 10-20/min to maintain target SPO2 of 90% or higher and ETCO2 of 35-40 mmHg.

General

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Seizures can be largely classified into 2 types, generalized and partial seizures. Generalized seizures involve both cerebral hemispheres, while partial seizures involve only one cerebral hemisphere.

If patient is having active seizure on EMS arrival

Midazolam (Versed)

(Preferred) IN dose see:

MAD Procedure

0.1 mg/kg IVP, IO

Maximum 2 mg per dose

Pediatric Fever

Routine Transport Orders-Pediatric

Spinal Injury Assessment

If necessary

Position on side to prevent aspiration

Cardiac Monitor

Pediatric IV/IO

Febrile?

No

Blood Glucose

Blood Glucose < 60 mg/dl

Dextrose 10% (D10) 5 ml/kg IVP, IO boluses until patient awake
&/or follow up blood sugar > 60 mg/dl **Maximum 100 ml**

Active Seizure?

No

Evidence of Shock / Trauma?

Appropriate Protocol

Repeat Seizures or status?

Possible causes for seizures in children include:

Noncompliance with medication(s) for treating epilepsy
febrile seizure
hypoglycemia anoxia
meningitis or encephalitis
lead intoxication
poisoning or overdose
brain tumor
head trauma Reyes Syndrome

General

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AEMT

Paramedic

Midazolam (Versed)

(Preferred) IN dose see:

MAD Procedure

0.1 mg/kg IVP, IO

Maximum 2 mg per dose

May be repeated in 5 minutes x 1
IN is preferred unless IV/IO access has already been obtained. If IV/IO in place then preferred route is IV/IO.

Yes

General

EMT

AEMT

Paramedic

Diastat (diazepam rectal gel) is an FDA-Approved treatment for seizures. When you respond to the home of a seizure patient, you may discover that the family has already administered Diastat or you may be asked to assist with the administration of Diastat. This is most likely to be for a pediatric patient but it is also prescribed for adult patients with a diagnosis of seizures.

Dose

Comes in fixed unit doses of 2.5, 5, 10, 15, & 20 mg. The pediatric and adult tips are meant to be inserted to the hub. (If using adult tip for a pediatric, reduce insertion depth) A combination of syringes supplied may be used to achieve dose.

2-5 Years (0.5 mg/kg) 6-11 Years (0.3 mg/kg) 12 + Years (0.2 mg/kg)

6 -11 kg= 5 mg

12 - 22 kg= 10 mg

23 - 33 kg= 15 mg

34 - 44 kg= 20 mg

10 - 18 kg= 5mg

19 - 37 kg= 10mg

38 - 55 kg= 15mg

56 - 74 kg= 20mg

14 - 27 kg= 5 mg

28 - 50 kg= 10 mg

51 - 75 kg= 15 mg

76 - 111 kg= 20 mg

How to Administer

- 1.) Place patient on their side facing you.
- 2.) Remove cover and lubricate tip.
- 3.) Gently insert tip into rectum
- 4.) Slowly count to 3 while pushing plunger till it stops.
- 5.) Slowly count to 3 before removing syringe.
- 6.) Slowly count to 3 while holding buttocks together.
- 7.) Transport if seizures continue 15 min. (typical results in 5-15 min.
- 8.) Follow **Pediatric Seizures** Protocol.

Follow-up

Remind family or caretaker to observe the patient for the next 4 hours particularly for respiratory or color changes. Document that you assisted the family and note time and dose given. This medication is meant to allow the caregiver to quickly treat seizures often preventing an E.R. visit.

Side effects

- less than 1% incidence of respiratory depression
- 23% experience sleepiness
- other rare side effects include headaches and diarrhea