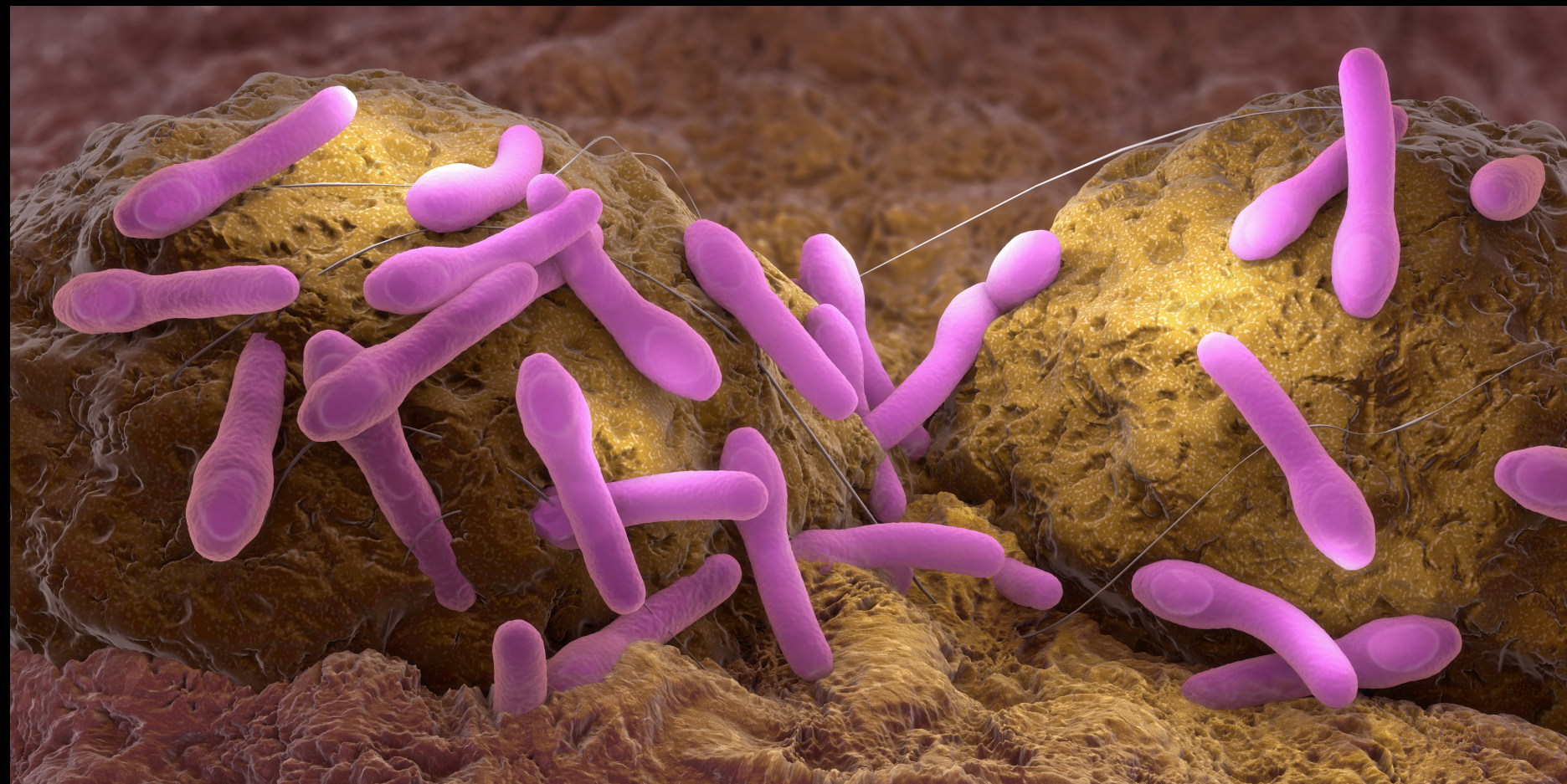


INFANTILE BOTULISM



Patients at risk:

Age <12 mo

Exposure to soil (construction sites)

Eating honey



Signs & Symptoms:

Constipation

Poor feeding

Weak cry

Respiratory distress

Drooling

Differential dx:

Sepsis

Dehydration

Electrolyte abnormalities

Myasthenia Gravis

CNS pathology

Physical exam:
Stable vital signs
Bulbar weakness —> generalized hypotonia
Normal mental status

Bulbar Palsy

A lower motor neuron lesion of cranial nerves IX, X XI and XII

It causes difficulty:

- swallowing
- chewing
- speaking
- handling of secretions



ED management:

R/o other diagnoses

Airway protection if respiratory symptoms present

Monitor for gag reflex

IV access for hydration

+/- NG tube for feeding



INTERNATIONAL
EMERGENCY
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EDUCATION
PROJECT

Pediatric Pearls

PEDIATRIC TUBE SIZES

CALCULATE ENDOTRACHEAL TUBE (ETT) SIZE

$$[\text{Age} \div 4] + 4$$

There are many formulas to calculate the endotracheal tube size for kids. The given formula is one of the most common. Let's think a six yo patient. Your ETT size is $6/4 = 1.5$, and $+4 = 5.5$

NASOGASTRIC/OROGASTRIC TUBE OR FOLEY CATHETER SIZE

$$\text{ETT} \times 2$$

NG/OG tubes and Foley catheters are measured as FRENCH. (Fr) If your ETT size is 5.5, then your NG/OG and Foley sizes will be $5.5 \times 2 = 11$ Fr.

HOW DEEP YOUR ETT SHOULD BE

$$\text{ETT} \times 3$$

If your calculated tube size is 5.5, your depth should be $5.5 \times 3 = 16.5$ cm. So, 16.5 cm mark should be seen at the level of central incisors.

CHEST TUBE SIZE

$$\text{ETT} \times 4$$

If the same six yo patient needs a chest tube, your chest tube size is $5.5 \times 4 = 22$ Fr. By the way, this is mainly for trauma. Moreover, do not forget, smaller size tubes can work as same as big ones.

Disposition: PICU

Tama's Tips

Consider botulism in a pt <1 yo who just wont "perk up" no matter what you do for them.

Place an NG tube for feeding/hydration if difficult IV access.

If no gag reflex present, intubate for airway protection.

It is more common than you think.

Tama's tally of botulism pts in SI: 5

Treatment:

Supportive care

Contact DOH

"Baby BIG" Botulism IG

50mg/kg x 1 dose