19) Which of the following interventions can **best** help to improve oxygenation during an emergency intubation situation?

A) High-flow O_2 via nasal cannula before the intubation

B) High-flow O_2 via non-rebreather mask during the intubation

C) High-flow O_2 via non-rebreather mask before the intubation

D) High-flow O_2 with a non-rebreather mask before and a nasal cannula throughout the intubation

D – Originally utilized with adult patients, the technique of providing high-flow O_2 with a non-rebreather mask before and a nasal cannula throughout the intubation is now also used with pediatric intubations. The goal is to allow as much oxygen as possible to be given to the patient before oxygen delivery is interrupted during the intubation attempt(s). The more oxygen reserve they have, the more time is allowed when trying to successfully place the artificial airway.

So, what does this involve? Placement of a non-rebreather mask with high-flow O_2 has been done for years, but when the laryngoscope goes in the mouth, the mask must get out of the way. Recently a relatively big change has involved not only using a non-rebreather mask, but also placing (*and leaving*) a nasal cannula in place before and during the intubation procedure. It doesn't get in the way of the intubation procedure and allows some oxygen to continuously flow downstream while intubation is being attempted. Again, the more oxygen your patient has equals more time to find the airway.

A useful acronym to remember this is "ENTAPS"

"Emergency Nurses Train And Practice Safely" (ENTAPS)

E -Elevate the head of the bed 30 degrees (Provides better breathing and better visualization of airway.)

N- Nasal Cannula High-flow (Oxygen delivery before and during the intubation.)

T- Two People Bagging (Unless you are anesthesia, have one person place and hold the mask on the face and the other person gently squeeze the bag.)

A- Alternate Airways (Nasal airway, oral airway, or one of each. That means at least two holes are patent and makes bagging with air going in and out much easier.)

P- PEEP (Use a bag-mask with a PEEP valve set at 5 cm. This helps to keep the bagged airways open.)

S- Suction (Suction that actually works with a big catheter like a Yankauer, Ducanto®, etc.)

