1. **Read the AASM guidelines and tell me the age group they recommend CO2 monitoring in? Use article I have included in this module.**

According to the AASM guidelines, the recommended age group for CO2 monitoring is children of age between thirteen and eighteen years.

1. **Also what the normal vs. abnormal values are for pedi hypoventilation?**

When concerned to calculate the values for pedi hypoventilation, then the observer must know that PCO2 in the range of 49-41mm Hg is considered as normal state . On the contrary, when PCO2 ranges above 41, especially when it becomes >50mmHg then this state is considered as abnormal state. However, the values also depend on how they are calculated as the end-tidal PCOs provides falsely low values in patients with profuse nasal secretions, nasal obstruction, and those who are receiving supplemental oxygen or obligate mouth breathers. Also, in alveolar ventilation, transcutaneous PCO2 monitoring provides semi-quantitative index of trends .

1. **What are the methods of monitoring CO2?**

There are two methods of monitoring CO2;

* End-tidal PCO2 monitoring
* Transcutaneous PCO2 monitoring.

References

AASM. (2018). AASM-Manual-Respiratory-Rules-for-Children. *AASM guidelines*.

Fayyaz, J. (2018). Hypoventilation Syndromes. *Medscape*.