

Monitoring in Sedation

Pearse Stinson BA.,B.Dent.Sc.,
FFGDP.,Dip.Imp.Dent.RCS
October 12th 2019

1

Why Bother?

- 'Monitoring appropriate physiologic functions of a patient during sedative procedures permits the early detection of adverse side effects that may be produced by drugs or by clinical actions.' (Gravenstein and Paulus)
- Early detection allows corrective measures to be instituted at a time when they are more likely to prevent serious complications from developing. Recognising and treating an urgency can prevent it becoming an emergency

2

Why Monitor?

- Optimise level of sedation
- Maximise safety
- Maximise efficiency
- Help ensure safe recovery
- Help assess appropriate discharge
- Record keeping

3

1985

- 80% of critical events were preventable and could be attributed to human error and lack of vigilance.

4

Monitoring or Measuring?

- For monitoring to be effective, it must deliver an auditory or visual warning.
- If monitoring is not used, the morbid event eventually recognised by the practitioner is often the last in a series of physiological warnings resulting in a response being 'too little, too late'.

5

Ideal device properties

- Safe
- Reliable
- Non-invasive
- Easily interpreted display
- Easy to calibrate
- Stable
- Portable
- Easily integrated with other equipment
- No technical help required
- Inexpensive

6

What should we monitor?

- Oxygen saturation
- Respiration rate
- Respiration quality
- Heart rate
- Blood pressure
- ECG Trace

7

How can we monitor?

- Observations
- Equipment
- Sphygmomanometer
- Electronic B.P.
- Pulse Oximeter
- ECG
- Combinations
- Bispectral Electroencephalographic Monitoring

8

When should we monitor?

- I.V. Cases?
- R.A. Cases?
- Oral Cases
- Why not?
- Should it be only for sedation cases?

9



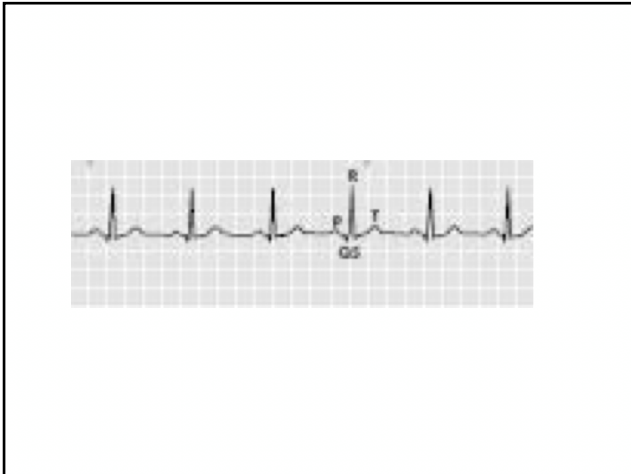
10



11



12



13

The Sedation Record

- As a minimum, vital signs should be recorded:
- Preoperatively
- Intraoperatively: after the administration of any drug and every 5 – 15 minutes during treatment
- Immediately postoperatively
- Before discharge

14

How long should we monitor for?

- Until the patient is fit for discharge
- If we are to avoid the need for...

15



16