Dental Simulation #1

Scenario name: Dental Emergency – hypoglycemia

I. Objectives:
   a. Demonstrate the ability to work as a member of a team.
   b. Demonstrate the ability to communicate effectively in an emergency situation.
   c. Demonstrate the ability to follow clinic medical emergency policies and procedures.
   d. Demonstrate the ability to assess a medical history and prevent a medical emergency.
   e. Assess possible emergency scenarios.

II. Patient data
   a. Patient name: Melton Mann
      i. Age: 76
      ii. Race: African American
      iii. Case history

      This is a moderately obese type II African-American male who presents to the dental clinic for initial assessment and treatment planning for dental hygiene care. He reports his physician recommended he call and schedule a dental check-up. It has been more then 5 years since his last dental visit. He reports no pain, but his gums bleed when he brushes.

      See attached medical history for details.

III. Case flow & possible outcomes

   1. The participant will be asked to assess the patient as per clinic protocol for the initial clinical appointment. The clinician will be given a completed medical history and will proceed in the normal fashion.
2. The clinical will complete the medical history interview and should note the patient reports being type II diabetic taking 2 medications and 1 insulin shot daily. Upon further questioning the clinician should note that the patient is non-compliant with diet and exercise regimes suggested by his physician. The clinician should also discover that the patient was in such a rush he forgot to eat breakfast but took his medication this morning. The patient can’t remember what his last A1C values were, but last night his blood glucose was 190 before bed. The patient reports taking insulin as usual and no remarkable events occurring.

3. Clinician should proceed with vitals signs and note blood pressure is high, inquire as to regular findings and recommendations.

4. The scenario should either stop for a brief rest while the patient gets and eats a quick breakfast or the clinician should get up and retrieve a glass of juice or other sugar source to have readily available at the unit.

5. The clinician should continue assessment until the periodontal evaluation. At that time the patient will become uncomfortable and start moving around.

6. The clinician should then ask the patient what’s going on. The patient will say, It’s just taking a longer then I thought, but I am fine,” The clinician continues collecting assessment data.

7. The scenario progresses until the patient starts shaking, having a cold sweat and appears confused.

8. The clinician should hopefully identify the scenario as hypoglycemia and activity the emergency protocol. The clinician should immediately stop what they are doing and sit the patient upright.

9. The clinician in the nearest chair should be asked to locate the closest faculty member.

10. Class member #2 should be asked to retrieve the emergency drug cart and Oxygen, if it is not already at the unit.

11. The patient should be reassured and sugar source administered.

12. It is important that the other clinicians reassure their patients that everything is under control and they can continue what they are doing.
IV. Equipment/setting
   b. Patient
   c. Clinician
   d. Dental operatory
   e. Medical emergency drug kit- with sugar source
   f. Oxygen
   g. Clinic faculty
   h. Other clinicians

IV. Debriefing:
   a. As per protocol for your institution. Focus on prevention prior to appointment, team work, resource management, equipment retrieval, medication administration and fear issues. Replay video, if technology allows.

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