

## **Insulin Pumps and Continuous Glucose Monitoring Systems (Sensors)**

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1. Continuous Subcutaneous Insulin Infusion (CSII) - Insulin pumps
  - i. What is an insulin pump?
  - ii. Basal rate
  - iii. Bolus
    1. Target blood sugar
    2. Insulin to carbohydrate ratio
    3. Correction or sensitivity factor
    4. Active insulin or insulin on board
    5. Bolus options
    6. Insulin types
  - iv. Patient Selection and Programming pumps
    1. Who should wear an insulin pump
    2. Formulas
    3. Patient training
    4. Going off a pump
  - v. Benefits
  - vi. Potential risks/issues
  - vii. The hospitalized “pumper”, guidelines and policies needs
    1. Documentation
    2. “Who operates the pump?”
    3. Emergencies, “who ya gonna call?”
2. Continuous Glucose Monitoring Systems (CGMS)/Glucose Sensors
  - i. How CGMS/sensors work
  - ii. Who needs a sensor?
  - iii. Benefits
  - iv. The hospitalized patient using a sensor
3. Downloads and print outs: Interpreting data for pumps and sensors
4. The Future: The Artificial Pancreas?