13.1 Glucose Stability Is Possible If You:

- Are motivated
- Are educated in diabetes management
- Have appropriate pump settings
- Receive good feedback through glucose monitoring

From Dr. Robert Tattersall: Workshop On Home Monitoring of Blood Glucose, Nottingham Univ., 1980.



3. **over-correcting highs** – raise the CorrF/ISF, do not increase recommended correction boluses unless CGM trend line suggests this is needed, set DIA to 4.5 hrs or longer.



13.4 Common High Glucose Patterns and Solutions

These common unwanted patterns are displayed on a **36 hour graph** from midnight one day to noon the next day. Specific solutions below.



- 6. post-meal spiking review 3 causes and solutions in Section F,
- 7. Several patterns often coexist. Choose one at a time and adjust the basal rate or bolus most responsible for that pattern. Get rid of excess lows first and then the highs.



dinner. This can happen on an AID system with incorrect settings.





13.8 How to Stop Highs or Lows at a Particular Time of Day

Look for the time of day when your glucose typically goes low or high, and try a correction suggested for that number. Stop frequent lows first. For example, if your glucose goes low between breakfast and lunch, look at number 2 for suggestions.



- If the glucose usually goes up between bedtime and breakfast, raise your basal rate overnight at least 2 hours before the glucose starts to rise. (See 4 if your glucose is usually already high at bedtime.) See also Pattern E in this chapter.
- 2) Lower your breakfast CarbF or raise the basal rate(s) 5 to 8 hours earlier.
- 3) Lower your lunch CarbF or raise the basal rate(s) 5 to 8 hours earlier.
- 4) Lower your dinner CarbF or raise the basal rate(s) 5 to 8 hours earlier. Consider whether after-dinner snacks cause the rise
- 5) If your glucose usually goes low between bedtime and breakfast, lower the basal rate(s) 5 to 8 hours earlier. Check how much IOB is active at bedtime.
- 6) Raise your breakfast CarbF or lower the basal rate(s) 5 to 8 hours earlier.
- 7) Raise your lunch CarbF or lower the basal rate(s) 5 to 8 hours earlier.
- 8) Raise your dinner CarbF or lower the basal rate(s) 5 to 8 hours earlier.







This great average glucose comes at the price of an one hour (4%) a day below 54 mg/dL, and 2.5 hrs (10%) below 70 mg/dL a day. The excess GV of 45% (57 / 127) dropped to 24% once the basal rate total was reduced from 38 u to 22 u a day. Their new average glucose was 145 mg/L, with only 2% below 70 mg/dL.



Here the glucose rises after breakfast, lunch, and dinner on an AID system, largely from missed meal boluses. A smaller CorrF can shorten the peaks and durations of the rise, but remembering to bolus before all meals is a better solution.

