Background:
The goal of this study was assess the usability and satisfaction of implementing a 5-step approach protocol in interpreting Sensor Augmented Pump by physicians.

Approach in reading the results:

Methods:
We have developed a 5-step approach protocol in interpreting SAP using CareLink. The main analysis is based on the Therapy Management Dashboard, where five segments are allocated:

1. Basic statistics;
2. Glucose and insulin overlay;
3. Postprandial period;
4. Basal/bolus insulin;
5. Suspends and sensor.

Every segment is analyzed with correlation through others with step by step confirmation of possible change (previously noted on insulin settings page based on rationale/physiological insulin use).

Physicians used a 5-step approach protocol on a monthly basis for 3 months to analyze 14 days data and to manage SAP patients. Surveys were conducted in which the physicians rated their feedback related to acceptability of the protocol on a 5-point Likert scale.

Results:
A total number of 34 patients with 128 downloads were analyzed. Mean age was 15.3±7.7 years, BMI was 21.3 ± 2.1, A1C was 7.9±1.6%. Surveys completed by physicians indicated a 5-step approach protocol to be more efficient, time saving, and structured compared to their current processes. A1C was decreased by 0.6±0.3% in the following 3 months.

Conclusions:
Our results indicate that a 5-step approach protocol of interpreting the data from SAP is simple and efficient. At the same time, it is time saving and useful tool for physicians to manage patients on insulin pump.