

## Combining Insulin Pumps and Continuous Glucose Monitors; Where Are We to Go from Here?

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### Abstract

Insulin pump development started in 1978, with the first commercially available glucose sensor marketed in 1999. Combining these two instruments is a logical step toward the closed loop. This article discusses three questions: Is pump development complete? How can a pump and a sensor be combined? Can the delay problem associated with the subcutaneous–subcutaneous approach for the closed loop be overcome?

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**Abbreviations:** (HbA1c) hemoglobin A1c, (NPH) neutral protamine Hagedorn

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