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Intelligent Intravenous Syringe Pump

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[Cite This](#)[PDF](#)D. Gopinath ; R. Deiva Nayagam ; G. Sivakumar ; S. Karthik ; P. Deepak Chakravarthi [All Authors](#)23
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Abstract

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Abstract:

Convenient and independent siphons are in basic interest for ease point-of-care testing (POCT) applications in microfluidic fields. In microfluidic research facilities, business siphons (e.g., needle siphons, pressure siphons, or peristaltic siphons) are broadly utilized for exact liquid conveyance. The ceaseless checking of the glucose level is hard for medical attendants and guardians as they lamentably neglect to see because of their bustling timetable that prompts the risk of the patient. The extensive utilization intravenous (IV) dosage forms, weight-based tiny dosages, numerous calculations, and dilutions make the medication-usage procedure in Neonatal Intensive Care Unit is particularly difficult. Medicine blunders in ICU are normal bringing about tolerant injury and conceivable demise, expanded stay, and critical extra expenses. For amending these kinds of manual errors, the following framework is proposed. A de engine-driven needle siphon is planned to utilize a microcontroller board with important driver hardware. Here Armature voltage of the DC servo engine is fluctuated to produce distinctive stream rates. Here microcontrollers and timers are utilized to control the progression of medications. By programming the time in the microcontroller, it can consequently be infused with the glucose drip.

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