

MRI-Compatible Skull-Embedded Implant for Direct Medicine Delivery

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Context:

- Pump-assisted implant with the first chronic infusion of medicine directly into the brain

Goal:

- Integrate Bluetooth Low Energy (BLE) with current implant prototype allowing clinicians to access medicine infusion data and alter delivery settings

Results:

- Use readings from sensing pins to perform flow rate calculations every minute
- Utilize BLE to transmit pump flow rates
- Allow user to send signals to turn pumps on and off

