Chronic Subdural Hematoma
Case Review by Dr. Sumeet Vadera from UC Irvine Health

The world's first irrigating intracranial drainage system!

**PATHOLOGY TREATED**
- 82-year-old male presented with confusion, right sided weakness and neglect, and expressive aphasia.
- Computed tomography demonstrated a 2.5 cm left convexity mixed density extra-axial hematoma, causing a 9 mm rightward midline shift and subfalcine herniation.

**TREATMENT DESCRIPTION**
- Mini craniotomy for evacuation of the subdural hematoma.
- Intraoperatively, there was minimal brain re-expansion.
- Active Fluid Exchange was performed with the IRRAflow system, with an irrigation rate of 40 ml/hour.

**TREATMENT RESULTS**
- No catheter occlusion due to IRRAflow’s automated irrigation.
- No drainage-related infection.
- Active irrigation and associated drainage assisted in providing controlled re-expansion of brain tissue back into the subdural space.
- Head CT done prior to discharge showed continued improvement in subdural fluid collection and complete resolution of the midline shift.
- The patient was seen on postoperative day 14 with complete resolution of symptoms.
The world’s first irrigating intracranial drainage system!

IRRAflow’s unique design addresses the shortcomings of traditional CSF management. The system’s intelligent digital pump and dual-lumen catheter enable gravity-driven fluid drainage and controlled catheter irrigation, resulting in active fluid exchange.

This active fluid exchange provides:

- Potential reduction of catheter occlusion due to automated cleansing of the catheter tip
- A catheter designed for controlled irrigation, enhancing the ability to remove the collected blood
- Removal of blood and proteins that can start an inflammatory cascade and secondary hemorrhagic events


Product image not to scale.