

The logo for IRRARflow, featuring the brand name in a stylized font with a blue-to-orange gradient and a registered trademark symbol. The letters 'I', 'R', 'R', 'A', and 'f' are blue, while 'l', 'o', 'w' are orange. The 'f' and 'l' are connected by a thin line, and the 'o' and 'w' are connected by a thin line. The entire logo is enclosed in a rounded rectangular border with a blue-to-orange gradient.

# IRRARflow<sup>®</sup>

## INTRODUCING AN ACTIVE FLUID EXCHANGE SYSTEM

The IRRAS device is a white, rectangular medical unit mounted on a stand. It features a large touchscreen display at the top showing a 'Fluid Exchange' interface with four colored sections: red for 'High ICP Alert' (20), green for 'Irrigation' (90), yellow for 'Treat Above' (5), and blue for 'Low ICP' (1). Below the screen are several physical buttons and a large dial. The device is connected to various tubes and a clear plastic drainage bag hanging from a vertical scale. The scale is marked in mm Hg from 10 down to -30. The background shows a blurred medical professional in a clinical setting.

**Automated Irrigation**

**Controlled Drainage**

**Continuous ICP Monitoring**

# IRRAflow<sup>®</sup>

## YOUR DYNAMIC SOLUTION FOR ADVANCED FLUID MANAGEMENT.

IRRAflow's innovative technology allows the user to customize patient treatment with a therapeutic approach to treating intracranial bleeding by combining needed drainage, continuous ICP monitoring and automated, controlled irrigation, all in one system.

- 1 Intelligent Digital Cassette enables communication between control unit and catheter to provide automated irrigation, fluid drainage, and ICP monitoring
- 2 Intuitive touchscreen with customizable safety features provides control when managing ICP and CSF drainage
- 3 Step-by-step tutorials for easy setup and treatment workflow
- 4 Easy-to-use Drainage Collection System provides a simple solution for fluid management



Automated Irrigation



Controlled Drainage



ICP Monitoring

**IRRAflow is the FIRST and ONLY system that offers automated irrigation, controlled drainage, and ICP monitoring, all in one system.**

# SHOULD WE BE SATISFIED WITH HISTORIC SHORTCOMINGS OF LEGACY DRAINAGE TECHNOLOGY?

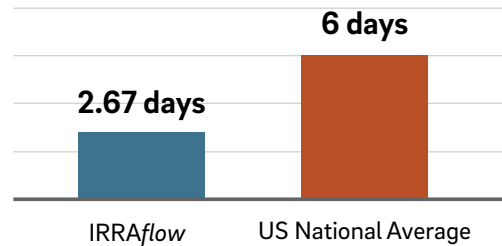
Market-leading EVDs become blocked up to **47%** of the time<sup>1</sup>,

which can cause an increased risk of infection, and prolonging the length of stay in the ICU.

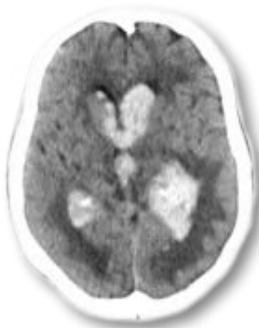


IRRAflow was designed to reduce the length of treatment time and cost per procedure

## Days in Hospital<sup>3</sup>



Cost, increased length of stay after infection  
**(\$84,773 for 10 days)<sup>1</sup>**



Pre-IRRAflow



Post-IRRAflow

## PUBLISHED LITERATURE HIGHLIGHTING CLINICAL ADVANTAGES OF IRRAflow VERSUS TRADITIONAL DRAINAGE

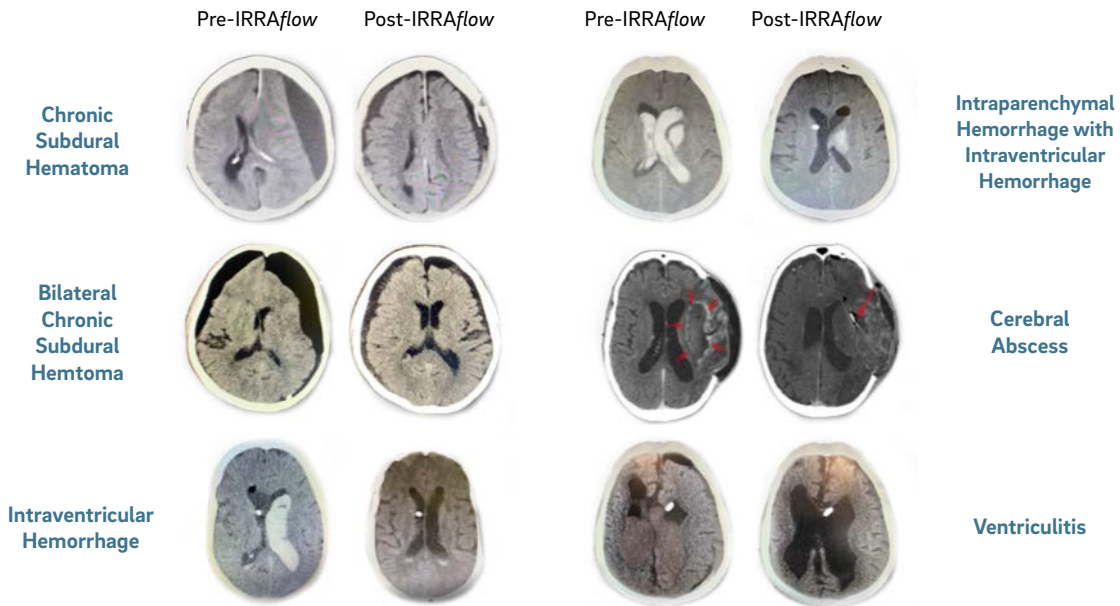


*"Our case demonstrates clear radiographic and clinical superiority of the IRRAflow system compared to standard EVD."*<sup>2</sup>

(1) Fargen KM, Hoh BL, Neal D, O'Connor T, Rivera-Zengotita M, Murad GJ. The burden and risk factors of ventriculostomy occlusion in a high-volume cerebrovascular practice: results of an ongoing prospective database. *Journal of Neurosurgery*. 2015:1-8. (2) Rajjoub K, Hess R M, O'Connor T E, et al. (May 22, 2021) Drainage, Irrigation, and Fibrinolytic Therapy (DRIFT) for Adult Intraventricular Hemorrhage Using IRRAflow® Self-Irrigating Catheter. *Cureus* 13(5): e15167. doi:10.7759/cureus.15167 (3) Davies J, Himstead A S, Kim J, et al. (August 21, 2021) Use of Automated Irrigating Drainage System in Six Patients With Chronic Subdural Hematoma: A Single-Center Experience. *Cureus* 13(8): e17355. doi:10.7759/cureus.17355

# IRRAflow CAN TREAT MULTIPLE DISEASE STATES

The IRRAflow system has been used to treat a variety of pathologies; acute and chronic SDH, IVH, IPH with Ventricular involvement, SAH, Ventriculitis, and Cerebral Abscesses.



Product #	Product Name	Product Description
<b>IRRAFLOW DUAL-LUMEN CATHETER</b>		
ICGS 020	<b>IRRAflow 2.0 Catheter</b>	 Dual-lumen catheter combines active irrigation with CSF drainage, which enhances fluid removal.
<b>IRRAFLOW TUBE SET</b>		
ICDS 020	<b>IRRAflow Tube Set</b>	 Intelligent digital pump enables communication between control unit and catheter to provide automated irrigation, fluid drainage, and ICP monitoring.
<b>IRRAFLOW CONTROL UNIT</b>		
ICCU 020	<b>IRRAflow Control Unit</b>	 Active fluid exchange via an intuitive touchscreen with personalized alarm settings that provide control when managing ICP and CSF.

## CUSTOMER SERVICE

US 1-800-946-0458 | EU +31-20-210-1098  
 US.customerservice@irras.com  
 Global.customerservice@irras.com

## IRRAS USA INC.

11975 El Camino Real, Suite 304  
 San Diego, CA 92130 USA  
 Tel: (800) 213-4604



www.irras.com