

A high-angle, top-down view of several surgeons in a sterile operating room. They are wearing blue surgical gowns, blue bouffant caps, and blue surgical masks. The scene is dimly lit, with a strong blue light source from above, creating a clinical and focused atmosphere. The surgeons' hands are visible at the bottom of the frame, suggesting they are in the middle of a procedure.

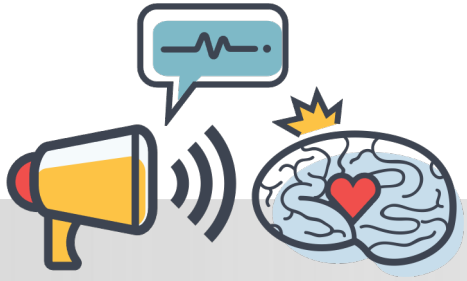
IRRAS

Cranial Access Kit

IRRRAflow[®]

• Hummingbird[®]
ICP Monitoring

IRRAS Cranial Access Kit



A kit designed to **better meet your cranial access needs** in a cost effective manner



IRRAS Cranial Access Kit

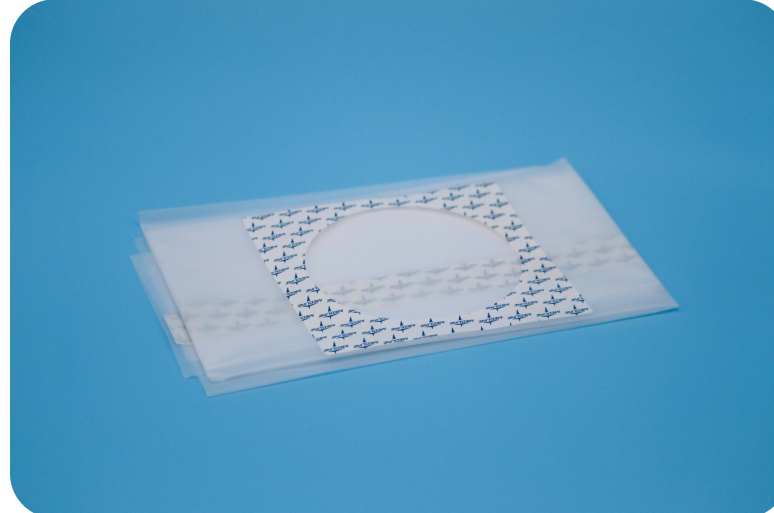
Key Differences

High Quality Components



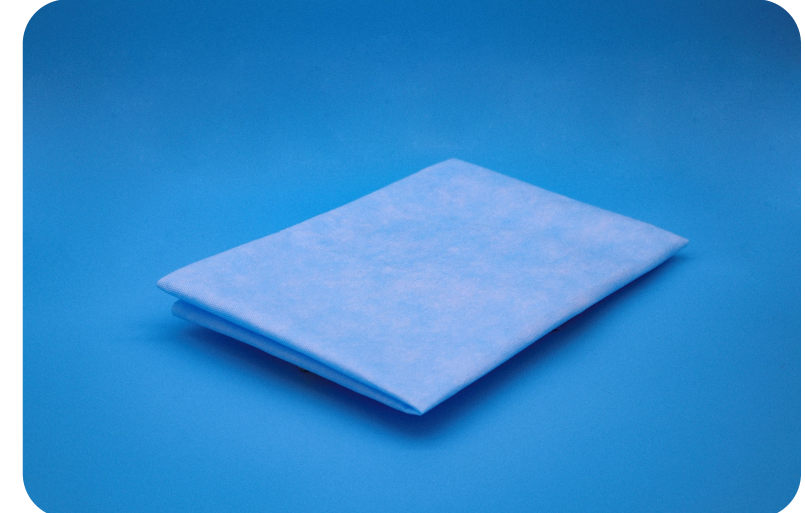
Providing high-quality instruments with every kit

Clear Drape



Clear Drape to assist with finding mid-line

Larger Half Drape





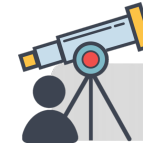
Larger Half Drape that allows greater flexibility in creating a sterile field

IRRAS Cranial Access Kit

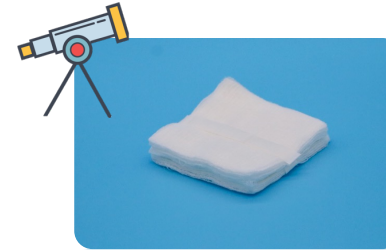
Competitive Analysis (1 of 4)

Preparation Components

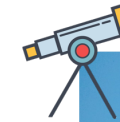
Product Description	IRRAS	INTEGRA LIMITED COMPANY	natus
Double Edger Razor	✓	✓	✓
DuraPrep 6ml*	✓	✓	✗
Gauze Sponges, 4"x 4"	✓	✓	✓
 Gauze Sponges, 2"x2"	✗	✓	✓
Medicine Cups, 2oz	✓	✓	✓
Culture Tube with screw cap	✓	✓	✓
4" x 4" 6-ply Gauze	✓	✗	✗
Providone Iodine Solution	✓	✓	✓
PVP Single Swabs	✓	✓	✗
 Povidone Iodine Ointment	✗	✓	✓
Benzoine Tincture Vial or Swab	✗	✗	✓



What to Remember



IRRAS offers ten **4"x4", 12-ply Gauze Sponges** to assist with absorbing blood and other fluids during surgery.





IRRAS offers both **Providone Iodine Solution** and **Swabs** to help prevent infection.



IRRAS Cranial Access Kit

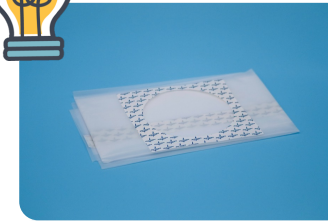
Competitive Analysis (2 of 4)

Cranial Access Preparation

Product Description	IRRAS	INTEGRA <small>LIMITED COMPANY</small>	natus
Ruler 6"	✓	✓	✓
Marking Pen	✓	✓	✓
Fenestrated Drape with Barrier, 24" x 36"	✗	✓	✗
Fenestrated Drape with Barrier, 31" x 51"	✗	✓	✓
Fenestrated Drape with Barrier, 15" x 15"	✗	✓	✗
 Fenestrated Drape with Barrier, 24" x 26" x 4", Clear	✓	✗	✗
Film Dressing	✗	✗	✓
 Half Drape, 53" x 77"	✓	✗	✗
CSR Wrap, 36" x 36"	✓	✗	✗
Absorbent Towel, 17" x 20"	✓	✗	✗
Absorbent Towel, 18" x 26"	✗	✓	✓



What to Remember



IRRAS' **Fenestrated Drape** is **Clear** and assists with finding mid-line easily.










IRRAS' **Half Drape** is larger and allows greater flexibility in creating a sterile field.

IRRAS Cranial Access Kit

Competitive Analysis (3 of 4)

Cranial Access Components

Product Description	IRRAS	INTEGRA	natus
Lidocaine with EPI, 30ml ampule*	✓	✓	✓
Sodium Chloride 10ml ampule*	✓	✗	✓
Syringe, 10cc	✗	✗	✓
 Syringe, 12cc	✓	✓	✗
Syringe, 5cc	✗	✓	✗
 Needles, 18G x 1 1/2" & 25G x 5/8"	✓	✓	✓
Needle, 23G x 1"	✗	✓	✗
 Spinal Needle, 18G x 3 1/2"	✓	✓	✓
Ventricular Needle, 12G x 5 1/2"	✗	✓	✗

Product Description	IRRAS	INTEGRA	natus
 Scalpel, #11 & #15	✓	✓	✓
 Retractor, Blunt	✓	✓	✓
 Hand Crank Drill	✓	✓	✓
 Mosquito Forceps, curved	✓	✓	✓



What to Remember



IRRAS provides **high-quality instruments** with every kit.

IRRAS Kit - IC40-D, Integra Kit – INSHITHRZN (<https://bit.ly/2xsrtEN>), Natus Kit – HITHRZR (<https://bit.ly/33KpoQV>)





* Specific components included in the IRRAS IC40-D kit



IRRAS Cranial Access Kit

Competitive Analysis (4 of 4)

Drill Bits

	Product Description	IRRAS	INTEGRA	natus
	2.7mm Drill Bit*	✓	✗	✓
	4mm Drill Bit	✓	✓	✗
	5.3mm Drill Bit	✗	✓	✓
	5.8mm Drill Bit*	✓	✗	✗
	6.35mm Drill Bit	✗	✓	✗
	7.1mm Drill Bit	✓	✗	✗

Wound Closing/Dressing

	Product Description	IRRAS	INTEGRA	natus
	Tegaderm	✓	✗	✗
	2.0 Silk Sutures**	✓	✗	✓
	3.0 Nylon Suture**	✓	✓	✓
	Needle Holder, Serrated	✓	✓	✓
	Adson Forceps	✓	✓	✓
	Adson Forceps with Teeth	✓	✓	✓
	Suture Scissors	✓	✓	✓



What to Remember



IRRAS offers a **variety of different sized drill bits to customize each treatment.**

IRRAS Kit - IC40-D, Integra Kit – INSHITHRZN (<https://bit.ly/2xsrtEN>), Natus Kit – HITHRZR (<https://bit.ly/33KpoQV>)

*Components included in the IRRAS IC42 kit
** Specific components included in the IRRAS IC40-D kit



IRRAS is bringing needed innovation to neurocritical care by providing a cranial access kit designed to meet your needs

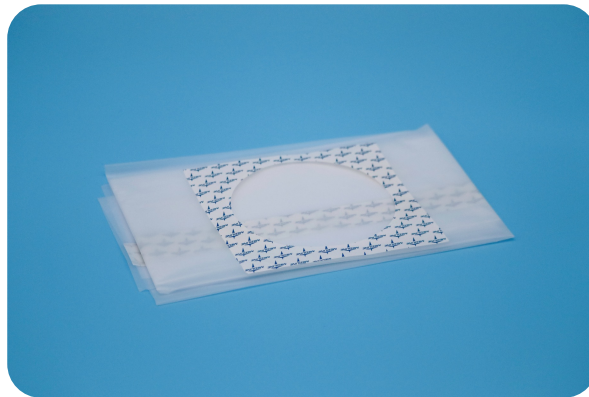
A simplified solution for cranial access

High Quality Components



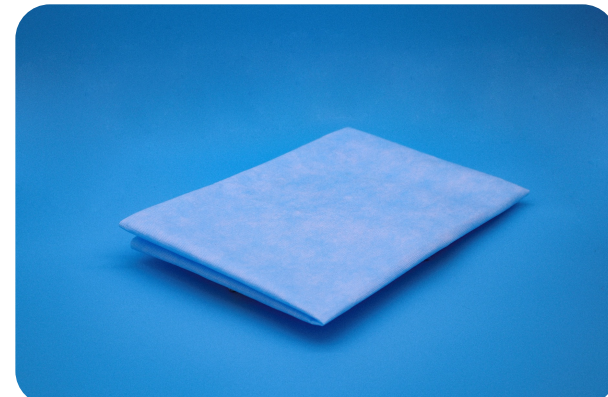
Providing high-quality instruments with every kit

Clear Drape



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Larger Half Drape



Larger Half Drape that allows greater flexibility in creating a sterile field



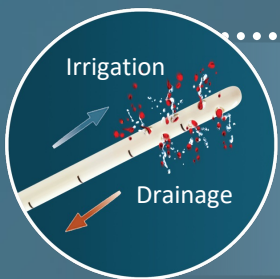
Needed Innovation for Neurocritical Care

Offering a full product portfolio from the IRRAflow and Hummingbird product lines



Product family portfolio

IRRAflow Dual-Lumen Catheter



World's first Irrigating Intracranial Drainage System

IRRAflow Intelligent Digital Pump



Enables interaction between control unit and catheter

IRRAflow Control Unit



Controlled management of ICP and drainage via touchscreen console



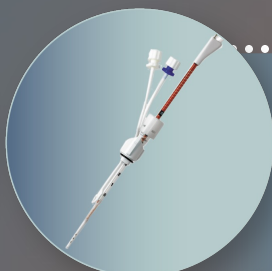
Product family portfolio

Hummingbird Solo ICP Monitoring



Combines brain access and parenchymal ICP measurement

Hummingbird Quad ICP Monitoring



Combines brain access, ICP measurement, drainage, and two additional lumens

Hummingbird ICP Control Module



Connects Hummingbird disposables to ~10 different Hospital Monitors

Cranial Access Kit



Essential tools for cranial access, used in almost every neurosurgical operation

Parenchyma = Brian tissue