



**ELIMINATE THE NEED FOR SEDATION
IN INFANT MRI & CT
with
MedVac Vacuum Immobilisation Splints**



The MedVac Infant Immobiliser eliminates the need for sedation in Pediatric MRI Scans. See “Guideline for Transporting, Stabilizing and Performing Brain MRI in Neonates Without Sedation” written by Neonatologist – Dr Amit Mathur – Washington University School of Medicine

MedVac’s air-tight, chambered vacuum splint comes filled with tiny, evenly spaced beads. Simply wrap the vacuum splint around the infant, secure the straps, hook the splint to a pump and evacuate the air. The bag will become rigid around the newborn without squeezing or applying pressure. When finished, simply release the valve to allow the vacuum splint to re-fill with air, then undo the straps.



Note:

This presentation is a suggested guideline based on the procedures used at the Washington University School of Medicine.

Actual procedures will vary based on the physical condition of the patient involved.

Continue to follow required safety precautions in accordance with the current medical guidelines.



Step 1: Prepare the Infant

Suggestion: Adjust the Feed Schedule on the morning of the scan to ensure that the infant has been fed 30-45 minutes before scan time.

Undress the Infant down to diaper and remove any metallic monitoring leads and any dome fastener containing clothing items.



Step 2: Wrap the Infant

Wrap the infant snugly in 1-2 infant sheets in an old fashioned firm swaddle, leaving only the head and one foot (the one with the transport pulse oximetry probe) exposed





Step 3: Close the Valve

**Rotate the valve on the MedVac Bag
Clockwise until tight.**



Step 4: Place Infant on Bag

**Place the infant on the opened MedVac
Bag**





Step 5: Wrap the infant

Wrap the bag firmly around the infant's torso, making sure to have enough of the material above the head to wrap around the head as well



Step 6: Wrap the Forehead

Wrap Velcro Head Strap around the infant's forehead, and if required around the infant's chin.





Step 7: Prepare The Pump

The Manual Pump has 2 fittings, (A) for Inflation and (B) for Evacuation of air.

Attach one end the hose into fitting (B) of the pump in order to EVACUATE air from the bag.

For detailed information, see instructions printed on manual pump



Step 8: Attach The Pump

Attach the end of the hose to the valve on the MedVac Bag





Step 9: Evacuate The Air

While “cupping” the area of the bag wrapped around the head, evacuate the air using the attached pump.

Note: You cannot “Over-Pump” the bag. Air is being removed from the bag not forced in, so there is no danger of “squeezing” the infant.



Step 10: Remove Hose

Once the air has been evacuated from the MedVac bag, the infant is now contained in a rigid cradle. Remove the hose from the valve





Step 11: Place Infant in Coil

Transport the Infant to the MRI Room, and place Infant in Coil.

Note: The Infant can be carried by the Mother or Father into the MRI room in order to provide comfort to the infant and the parent.



Step 12: Run the Scan

Conduct MRI Scan. If infant awakens and cries without settling down, he/she may need to come out and be gently rocked. This can be successfully accomplished with the infant still in the vacuum bag.





Step 13: Unbuckle the Infant

After the Scan is complete, remove the infant from the coil and unbuckle the straps



Step 14: Open the Valve

Rotate the valve on the MedVac Bag Counter-Clockwise until the bag re-fills with air.



Step 15: Remove Infant



Remove the Infant from Bag and return him/her to ICU.

Be sure to clean the bag after every use using water and a detergent. An extreme mechanical cleaning which might impair the surface material must be avoided. Disinfect exclusively using alcohol-based (ethanol/propanol) disinfectants. When other substance classes are used this might lead to irreversible damage of the surface and material. Do not use solvents.

**Neonatal
VMR433X01**



Specification	VMR433X01
Colour:	blue
Material:	TPU
Length, cm:	67
Width, cm:	35-55
Weight, kg:	0,7
Thickness, cm:	2-3

**Manual Foot Pump
Plastic
Non-magnetic
VMRFP01**



**Manual Hand Pump
Aluminium
Non-magnetic
VMRHP03**



Vacuum valve

