SIPHONGUARD Anti-Siphon Device is a uniquely new device for preventing excessive CSF flow during positional changes. The SIPHONGUARD Device can be placed anywhere distal to the valve and is unaffected by scar tissue encapsulation or external pressure. The mechanical design detects the difference between the normal and excessive flow and activates only when excessive flow occurs. Dual pathway design allows for slow release of CSF due to hydrostatic pressure.

The SIPHONGUARD Anti-Siphon Device never totally closes the shunt system but instead uses resistance to impede flow. SIPHONGUARD utilizes proven ball and cone technology, which is highly reliable.

INDICATIONS
The Codman Valves are implantable devices that provide constant intraventricular pressure and drainage of CSF for the management of hydrocephalus and other conditions in which CSF flow and absorption are impaired.

CONTRAINDICATIONS
These devices are contraindicated in patients receiving anticoagulants or known to have a bleeding diathesis. Shunt implantation should be avoided if infection is present within the body. Delay the shunt procedure when infections such as meningitis, ventriculitis, peritonitis, bacteremias and endocarditis are present. Unitized valves are not designed for atrial drainage.

WARRANTY
Codman & Shurtleff, Inc. warrants that this medical device is free from defects in both materials and workmanship. Any other express or implied warranties, including warranties of merchantability or fitness, are hereby disclaimed. Suitability for use of this medical device for any particular surgical procedure should be determined by the user in conformance with the manufacturer’s instructions for use.

NOTICE
See product insert for complete warnings, precautions, adverse events and warranties.

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For more information, contact your Codman Sales Representative.

For product information, call (800) 225-0460.

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the art of managing hydrocephalus

Managing Hydrocephalus

The cranial cavity contains one of the most interesting hydrodynamic systems within the human body, one that has historically engaged the attention of both engineer and neurosurgeon in a search for a better method for treating hydrocephalus. Physicians have traditionally been limited when faced with choosing the right fixed pressure valve prior to implantation. Even if chosen correctly at the time of implantation, surgical revisions may be required as the patient’s pathophysiologies change. Basically, the patient is forced to adapt to a fixed pressure valve.

With the advent of the CODMAN HAKIM Programmable Valve System, neurosurgeons can pre-select one of 18 different pressure settings. After implantation, the valve can be adjusted non-invasively to adapt to changes in patient condition. That means surgeons are able to make precise pressure adjustments to help control intracranial pressure and verticle size at any time. This opens up new specialized therapies and may eliminate the unknowns which historically complicated the treatment process.

DESIGN

Unlike classic silicone shunt systems which only give surgeons three pressure ranges to choose from, the CODMAN HAKIM Programmable Valve features 18 pressure ranges. These ranges provide the surgeon with the ability to make subtle alterations to the opening pressure. Each adjustment can be made quickly and easily through the programmer interface. Its precise mechanical design yields repeatable, linear pressure-flow responses. The micromotor (STM01) programming motors and tightly calibrated spring tensions which give the valve its accuracy are derived from the same microtechnology employed by the Swiss watch industry. The same miniature manufacturing processes which make the valve accurate also make it reliable. Only superior materials that can stand up to the conditions evident in patients with hydrocephalus are chosen. The parts are also completely biocompatible, with the low profile of both the full housing and microhousing resulting in an undruckable implant. Once assembled, the valves are tested five separate times prior to release to ensure they meet stringent performance standards.

CONTACT

If you’re interested in seeing a demonstration of the CODMAN HAKIM Programmable Valve System, or would like further information, please contact your Codman Sales Representative or Customer Service at 800-225-0460. www.depuy.com

PROGRAMMING THE VALVE

• Turn on the programmer unit.
• Locate the programmable section of the valve.
• Press one of the 16 buttons to choose the desired pressure.
• Place the programmer head over the valve so the feet straddle and the arrows align with cSF flow direction.
• Press and release the start button on the programmer head.
• Hold in place until beeps indicate programming is complete.

CODMAN HAKIM Programmer

The setting by means of x-ray film or fluoroscopy.

• Wireless magnetic sensor rotates the spindles directly via a coded signal.

Wireless magnetic sensor rotates the spindle directly via a coded signal.

Screwdriver adjustment (via the pump) gives the surgeon the ability to precisely adjust valve opening pressure.

Screwdriver adjustment (via the pump) gives the surgeon the ability to precisely adjust valve opening pressure.

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