CODMAN NEURO
DePuySynthes

Urgent Medical Device Field Safety Notification
July 18, 2014

CODMAN® CERTAS™ Programmable Valves

PLEASE DISTRIBUTE THIS INFORMATION TO CLINICIANS WHO USE THIS DEVICE

Dear Neurology/Neurosurgery Clinician:

This safety notification is being sent to clarify the CODMAN CERTAS Valve virtual off (setting 8) pressure specification outlined in the product’s Instructions for Use (IFU).

No action is required for patients experiencing good outcomes with an implanted CODMAN CERTAS Valve.

This notification applies to all valve codes (shown below).

Affected Product (all lots)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-8800</td>
<td>In Line Valve Only</td>
</tr>
<tr>
<td>82-8801</td>
<td>In Line Valve with Catheter and Accessories</td>
</tr>
<tr>
<td>82-8802</td>
<td>In Line Valve with Unitized Catheter and Accessories</td>
</tr>
<tr>
<td>82-8803</td>
<td>In Line Valve with Unitized BactiSeal Catheter and Accessories</td>
</tr>
<tr>
<td>82-8804</td>
<td>In Line Valve only with SiphonGuard Device</td>
</tr>
<tr>
<td>82-8805</td>
<td>In Line Valve with SiphonGuard Device, Catheter and Accessories</td>
</tr>
<tr>
<td>82-8806</td>
<td>In Line Valve with Siphonguard, Unitized Catheter and Accessories</td>
</tr>
<tr>
<td>82-8807</td>
<td>In Line Valve with SiphonGuard Device, Unitized Bactiseal Catheter and Accessories</td>
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</tbody>
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Summary of Issue
As stated in the CODMAN CERTAS Valve IFU, the virtual off setting (setting 8) is intended to limit flow through the valve and has an average pressure greater than 400mm H₂O. Recent in-vitro testing of the virtual off setting showed that the operating pressure for an individual valve may fall below 400mm H₂O. This testing found only one occurrence out of 72 test instances that was significantly below 400mm H₂O (observed at 275mm H₂O), although when retested, this valve performed above 400mm H₂O.

*Medos International SARL is the legal manufacturer issuing this notice.
Impact and Potential Harms Associated with the Virtual Off Setting

If a valve is considered to be virtually off, but is still operating at a physiologically relevant pressure, a clinician may inaccurately consider the patient to be shunt independent. This may result in a delay in treatment for shunt-related complications.

If the virtual off setting is being used to restore ventricular volume for patients with Slit Ventricle Syndrome or subdural hemorrhage formation resulting from overdrainage, treatment response may be delayed for valves operating significantly below 400mm H₂O. This risk of harm is mitigated by the fact that the valves recently tested in-vitro did not consistently operate below 400mm H₂O.

Actions to be Taken by Clinicians Treating Patients with CODMAN CERTAS Valves

If the Virtual Off setting is being used to address an acute overdrainage situation that has resulted in subdural hemorrhage or slit ventricle formation, close observation is advised to make sure that the patient is responding as expected (operating pressure >400mm H₂O).

This notification is based upon internal in-vitro testing. Codman Neuro is not aware of any adverse events associated with this issue. Patient symptoms resulting from this issue are similar to those seen in the standard course of treatment, so it is difficult to directly correlate complaints with the issue discussed in this Notification.

Please note, Codman Neuro is not recommending explantation of CODMAN CERTAS Valves.

Please provide this notice to any neurosurgeons or other clinicians at your facility who are managing patients with an implanted CODMAN CERTAS Valve.

Please complete the enclosed Acknowledgement Form and fax the completed form to 1-888-239-1305

It is important that we receive this acknowledgement form. You may also e-mail the form to us at codman6304@stericycle.com

If you have any questions or concerns regarding this notification, please contact your local Codman Neuro Representative or Scientific and Medical Affairs at SciMedAffairs@its.jnj.com or (866) 685-7325. Thank you for your cooperation.

Sincerely,

J. Thomas Mebergian MD, PhD
Vice President - Strategic Medical Affairs and Medical Sciences

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