Are open-toe antithromboembolic compression stockings safe?

Rastel D, MD and Lun B, PhD

SCOTT, non profit association, Grenoble, France
Introduction and objective

SECURITY ALERT from the French Medical Devices Vigilance System (HAS) on 10 patients aged > 80
OTMCS: post-surgery VTED prevention.
Most of the lesions were caused by an inadequate wearing and/or inadequate stockings.

A test was carried to evaluate the pressure level exerted by these antithromboembolic OTMCS, on the lateral and medial aspects of the 1rst and 5th metatarsal phalangeal joints.
Algorithm on Excell (B. Lun)

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circonférence en mm</td>
<td>240</td>
</tr>
<tr>
<td>Pression Globale en mmHg</td>
<td>15</td>
</tr>
<tr>
<td>Epaisseur côté Gros Orteil</td>
<td>30</td>
</tr>
<tr>
<td>Pression Médiale en mmHg</td>
<td>38</td>
</tr>
<tr>
<td>Epaisseur côté Petit Orteil</td>
<td>20</td>
</tr>
<tr>
<td>Pression Radiale en mmHg</td>
<td>57</td>
</tr>
</tbody>
</table>

Measurements on 30 patients of 75-85 yo, included in a phlebological consultation
n = 30
80 ± 3.4 years old

Pressure (mmHg)
CONCLUSIONS

Very elevated pressures!

Could be the cause of pain, skin injuries or discomfort

Only one brand of ATE OTMCS studied

Advices to strengthen the medical follow-up, education….

Not only ATE MCS are open toe: compliance?