The assessment of carotid stenoses by contrast-enhanced tomographic ultrasound

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Disclosure

Speaker name: Christoph Schäffer

I have the following potential conflicts of interest to report:

☐ Consulting
☐ Employment in industry
☐ Stockholder of a healthcare company
☐ Owner of a healthcare company
☐ Other(s)

☒ I do not have any potential conflict of interest
Contrast Enhanced tomographic Ultrasound (CEtUS)

Setup:

- Standard Duplex Ultrasound System
- Independent 3D image-acquiring and analysis system projecting a magnetic tracking field
- Contrast agent SonoVue
## Comparison CEtUS & MRA

<table>
<thead>
<tr>
<th>CEtUS</th>
<th>MRA</th>
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<tbody>
<tr>
<td><img src="image1" alt="CEtUS Image" /></td>
<td><img src="image2" alt="MRA Image" /></td>
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The images above illustrate the comparison between CEtUS and MRA. The blue arrows point to the areas of interest for comparison.
Comparison CEtUS & CTA
Comparison CEtUS & CTA
Experiences

Pros:
➢ Very high spatial resolution (0.1 mm)
➢ Fast, save and cheap method with low logistic requirements
➢ No nephrotoxicity or other known side effects

Cons:
➢ Artifacts due to calcification/acoustic shadowing
➢ No representation of intracranial vessels
➢ Exclusion of patients with pacemakers
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