

Improving needle tip identification during ultrasound-guided procedures in anaesthetic practice

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Passion
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Background

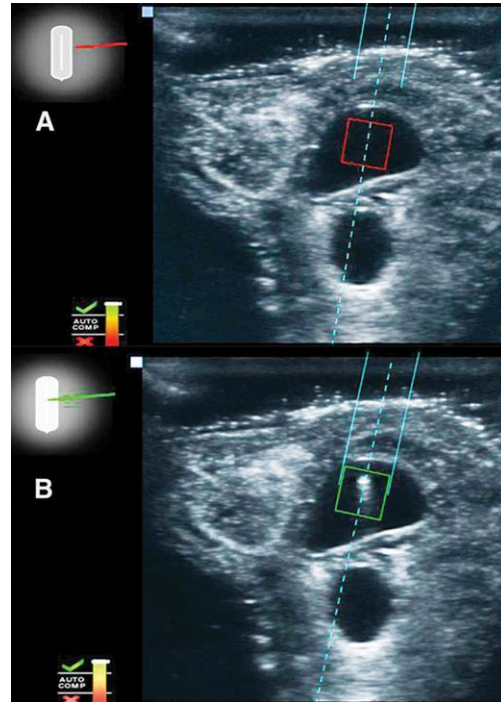


GPS / Optical Tracking



- Additional hardware and special needles
- Interference and accuracy issues
- Possible improvement in out of plane approach in inexperienced users

Magnetism



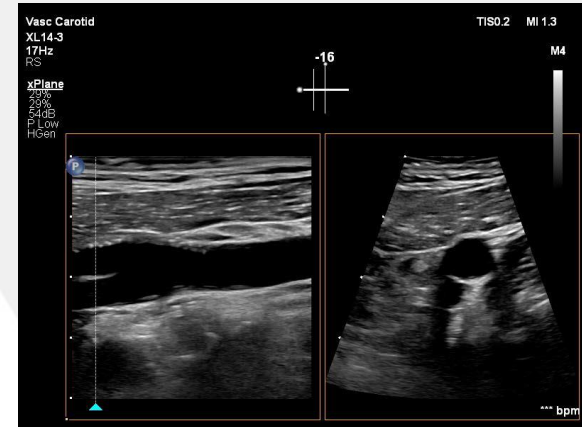
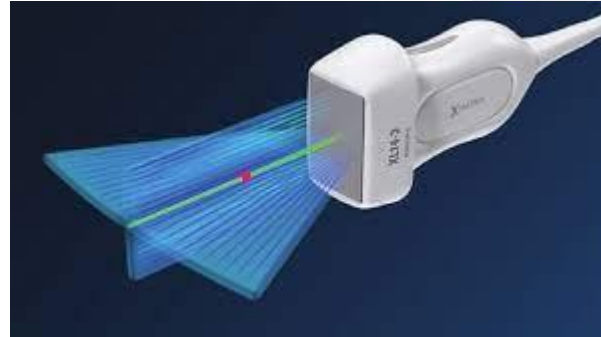
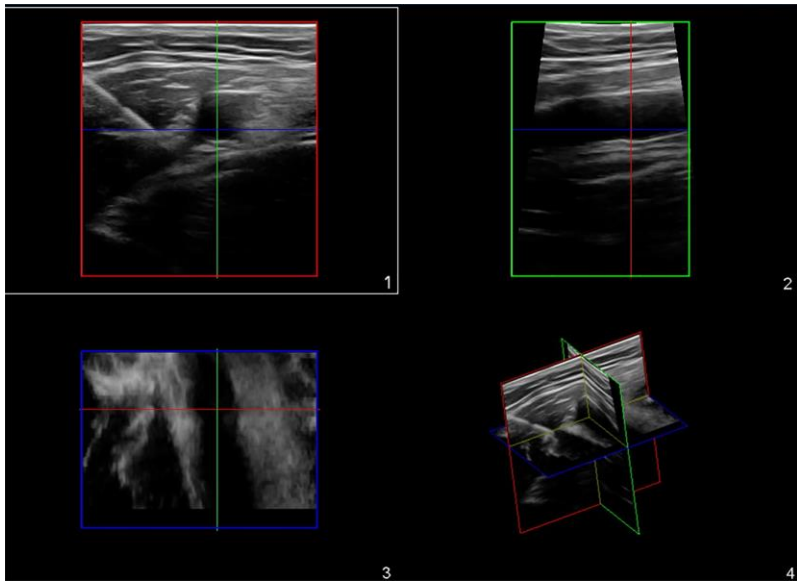
Needle tip design



Image based needle tracking



3D (4D)



Future



- Needle based algorithms: no extra hardware needed



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**Bedankt
en blijf gezond**

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