

## **Miniaturization in Medical Devices: New Therapies and New Markets**

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Progressive miniaturization of implantable medical devices such as pacemakers and drug pumps has nearly reached the limits of conventional technology. This discussion will explore whether size is a limiting factor for current indications and what new indications and markets will emerge given nanotechnology's dramatic potential. The focus will be on developing a market need "wish list" for nanotech medical devices. Examples include miniaturized neurostimulation electrodes that can be delivered minimally invasively and nanotechnology scaffolding for organ replacement.