Highlights from:
Gregory K. Feld, Jay Tiongson, and Ganiyu Oshodi
Feld et al., J Interv Card Electrophysiol, Jan 2011 DOI: 10.1007/s10840-010-9531-3

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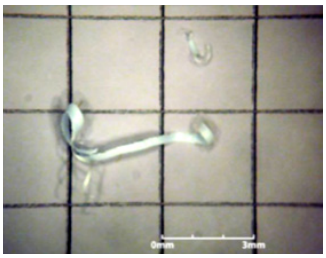
Particle formation and risk of embolization during transseptal catheterization: Comparison of standard transseptal needles and a new radiofrequency transseptal needle

INTRODUCTION

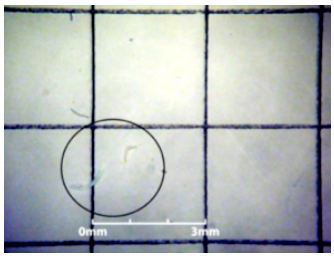
- This study examined the risk of particle formation (due to skiving) during transseptal procedures. A standard needle, a reverse-bevel needle, and a radiofrequency needle were compared.

DISCUSSION AND CONCLUSIONS

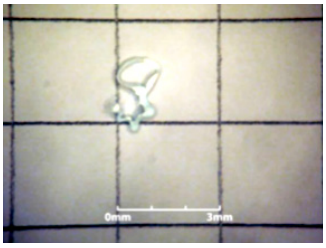
- The standard needle generated clinically relevant, visible particles when used without the stylet. Use of the stylet reduced the amount of visible particles generated but did not eliminate the problem.
- Use of the reverse-bevel needle reduced the amount of visible particles generated but did not eliminate the problem.
- Use of the radiofrequency needle eliminated the problem of visible particles.



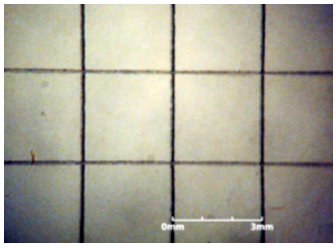
Standard needle without stylet



Standard needle with stylet



Reverse-bevel needle



NRG™ Needle

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