



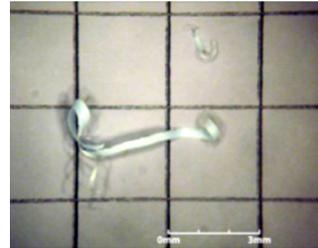
Particle formation and risk of embolization during transseptal catheterization: Comparison of standard transseptal needles and a new radiofrequency transseptal needle

INTRODUCTION

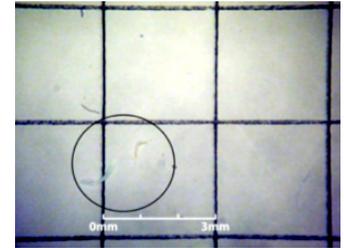
- ▶ This study examined the risk of particle formation (due to skiving) during transseptal procedures. A standard needle, a reverse-bevel needle, and a radiofrequency needle were compared.

DISCUSSION AND CONCLUSIONS

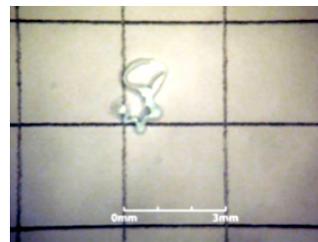
- ▶ The standard needle generated clinically relevant, visible particles when used without the stylet. Use of the stylet reduced the amount of visible particles generated but did not eliminate the problem.
- ▶ Use of the reverse-bevel needle reduced the amount of visible particles generated but did not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



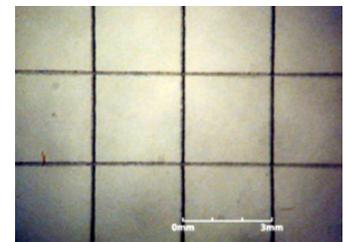
Standard needle without stylet



Standard needle with stylet



Reverse-bevel needle



NRG™ Needle

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