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

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- 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.

- 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.