

Safety Slide – NMR Tubes

NMR tubes are made of thin-walled glass and extremely fragile

When handling NMR tubes, avoid cuts or impalement by:

- 1) Using fingers and *NOT* palm to insert the tube into the spinner
- 2) Use minimal force to affix cap to NMR tube
- 3) Dispose of all chipped/broken/cracked/scratched tubes
(aside from personal injury, they increase risk to the instruments)
- 4) Be careful when NMR tube & spinner are coming into/out of instrument
(can fall & break on rough insertion or come out of instrument with excess pressure)
- 5) Avoid rushing up & down the platforms when inserting or removing tubes



Unlike most other glassware, NMR tubes easily impale hands (not just cut) and can subsequently break leaving shards of glass behind that may require minor surgery (that can't utilize xrays leading to a dig-and-find approach)

Ouch

Not Voodoo X.4

Mistake	Vote	#Rookies
Stabbed yourself with a syringe needle	↑	662
Burned hand on hot plate because it didn't look hot!	↑	521
Used too much force opening a NMR tube and broke it (And cut yourself)	↑	272

http://nmr.ucsc.edu/HowTos_files/NMR_Sample_Preparation.pdf
<https://chemglass.com/4mm-nmr-tubes>
<https://www.ch.cam.ac.uk/analytical/nmr/tips-and-videos>
<http://curlvarrow.blogspot.com/2007/05/revenge-of-nmr-tube.html>
<https://slideplayer.com/slide/9485243/>