

## Fine Needle Aspiration-Mohsinraza Technique: A Modified Technique

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### Case Blog

The conventional technique of FNA is use of 10ML Syringe, 22 gauge needle. Making 5-6 passes into the solid parts of mass maintaining a negative pressure. When the syringe is withdrawn from the tissue the negative pressure in syringe tends to suck the aspirated material from hollow column of needle to the body of syringe, thus a part of material is lost in the syringe.

A simple technique to stop the sucking of this material into the syringe is described, using a 2 way stop cock

### Material and Methods

A 2 way stop cock is placed between the syringe and the needle and the needle is passed into the mass and usual passes are made into the mass, but before the syringe is withdrawn from the tissue, the stopcock is closed.

This allows all the aspirated material to stay in the column of needle. The syringe is then detached from the stopcock .Air is drawn in syringe and again connected to the stop cock, is opened. The piston of syringe is pushed; the material is sprayed over the slides as in conventional method.

### Results

This technique has been applied in 50 Cases, 35 cases of Breast lumps and 15 cases of Thyroid with 92% accuracy, thus alleviating repeated aspiration, comment from pathologist "material insufficient for diagnosis" and saving loss of time to reach an early diagnosis.

### Discussion

The technique is based on the basic principles of physics that continuous negative pressure in the syringe will result in loss of aspirated material into the body of syringe, the stopcock allows the aspirated specimen, which is already very small amount to stay in the shaft of needle.

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Figure 1: Material is sucked in syringe body and lost.



Figure 2 & 3: Stop cock prevents material from being lost in body of syringe.