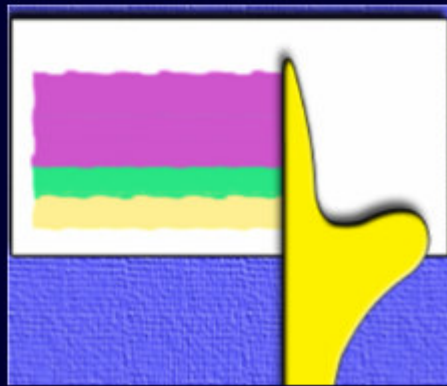


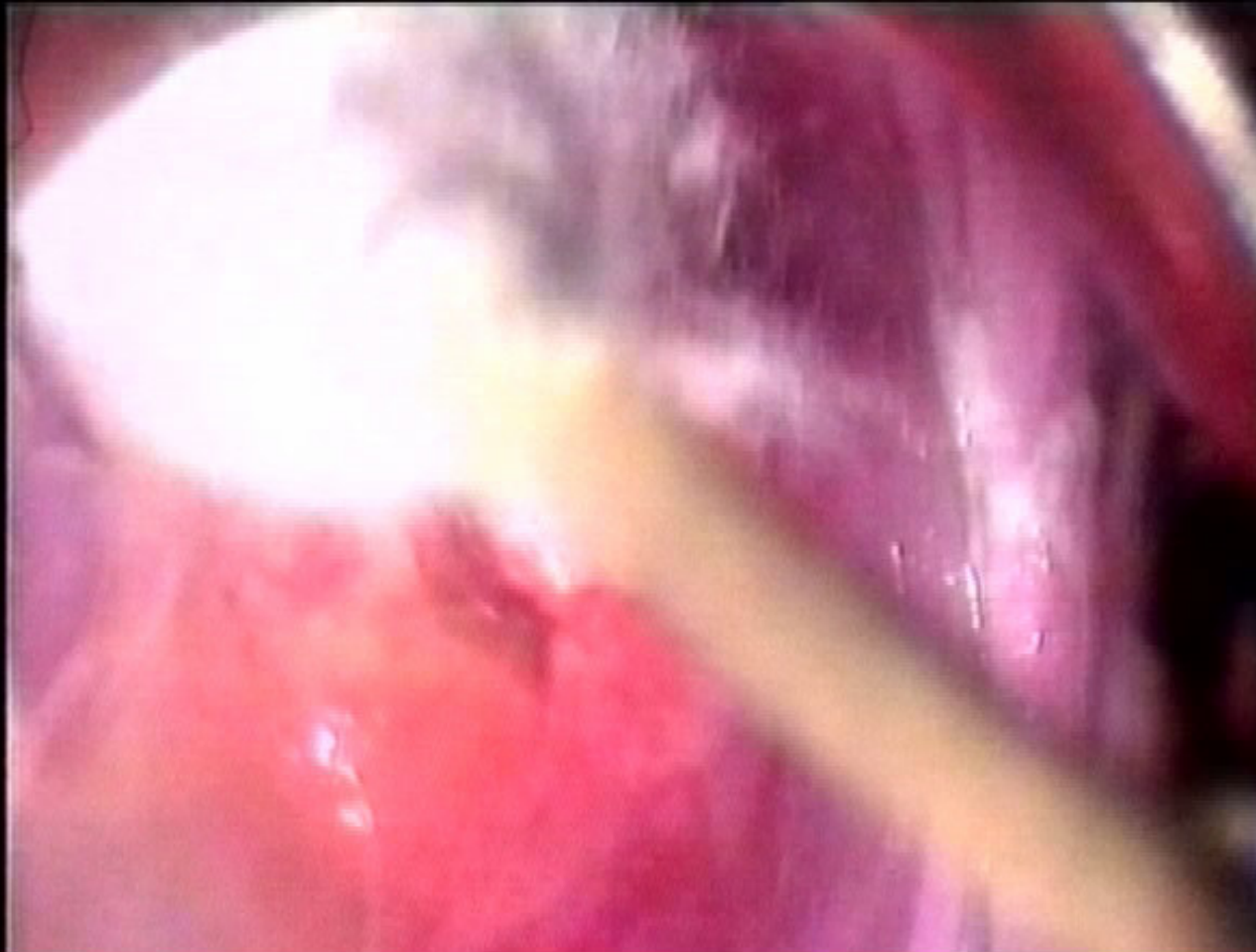
# The Szalay Cyto-Spatula Pap-Test



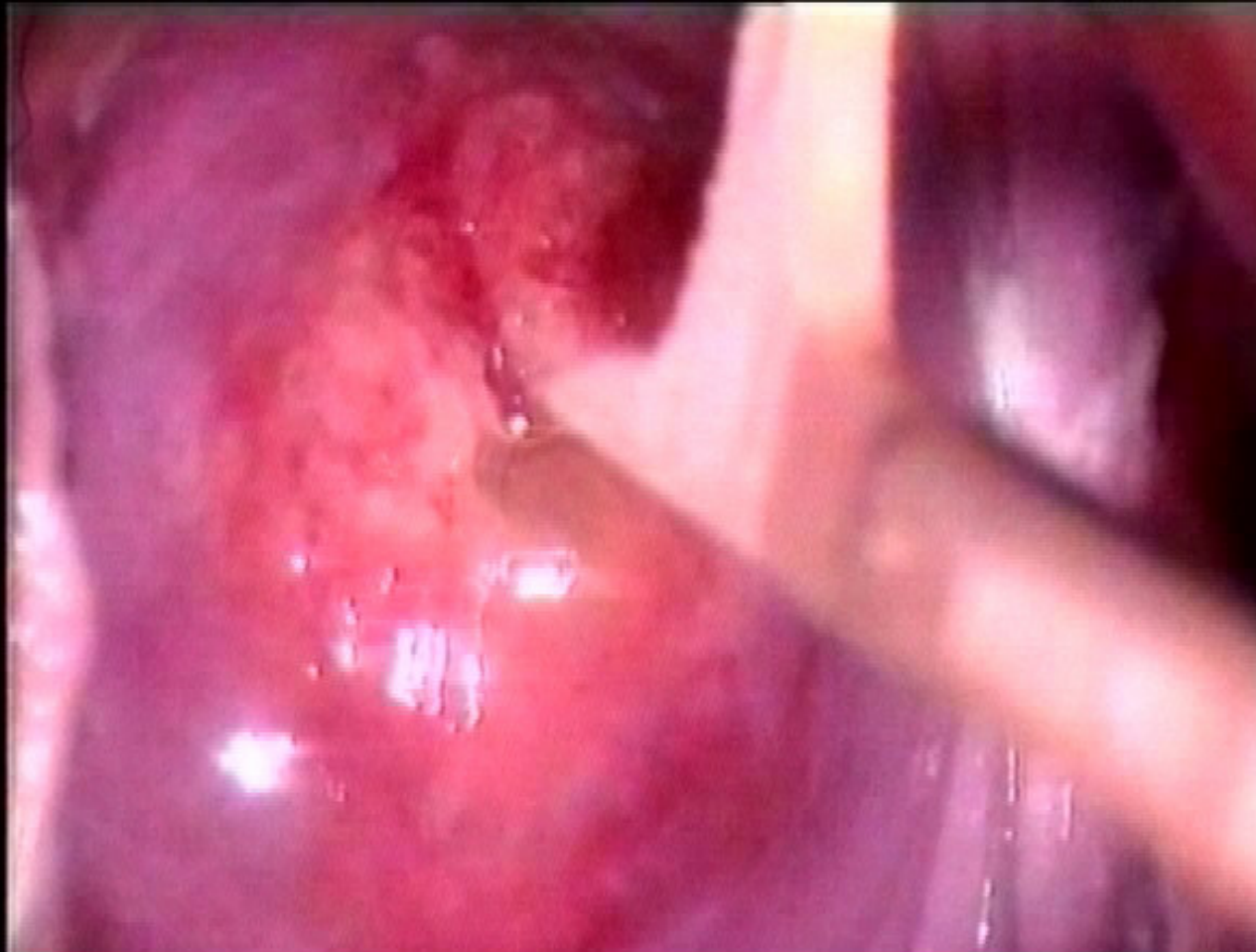
- After inserting the speculum, the basic principles are as follows:
  - Remove mucus and debris with a cotton swab
  - Select a Spatula to match the anatomical form
  - Place the instrument on the ectocervix with the Spatula shoulder at the 3 o'clock position before rotating in a clockwise direction

**Then smear the Szalay-Cyto-Spatula evenly and in parallel to the long axis on the slide, or detach the front part of the Spatula for liquid-based methods of analysis.**





**Remove mucus and debris with a  
cotton swab.**

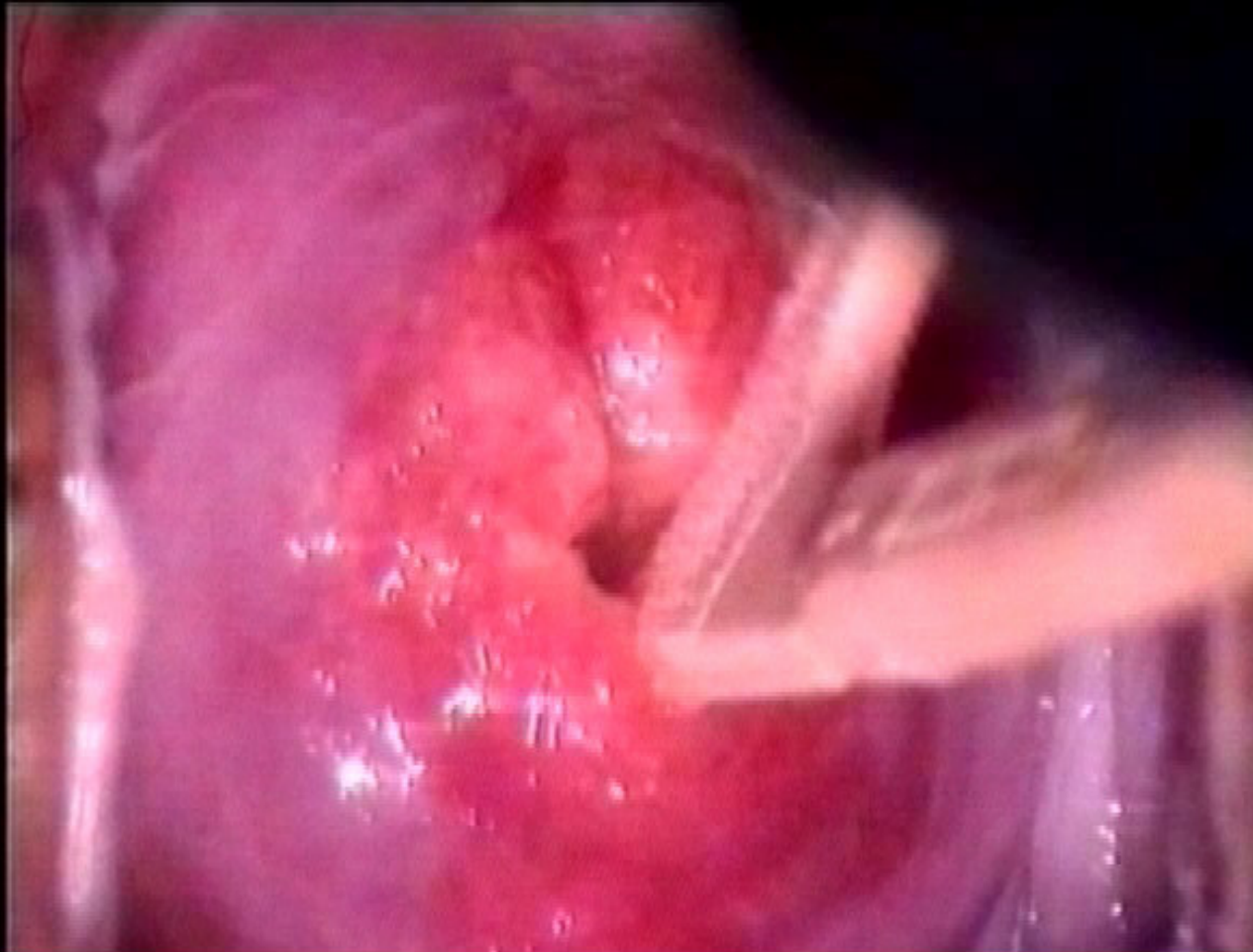


**Place the spatula at the 3 o'clock  
position ..**





**Place the spatula at the 3 o'clock  
position ..**

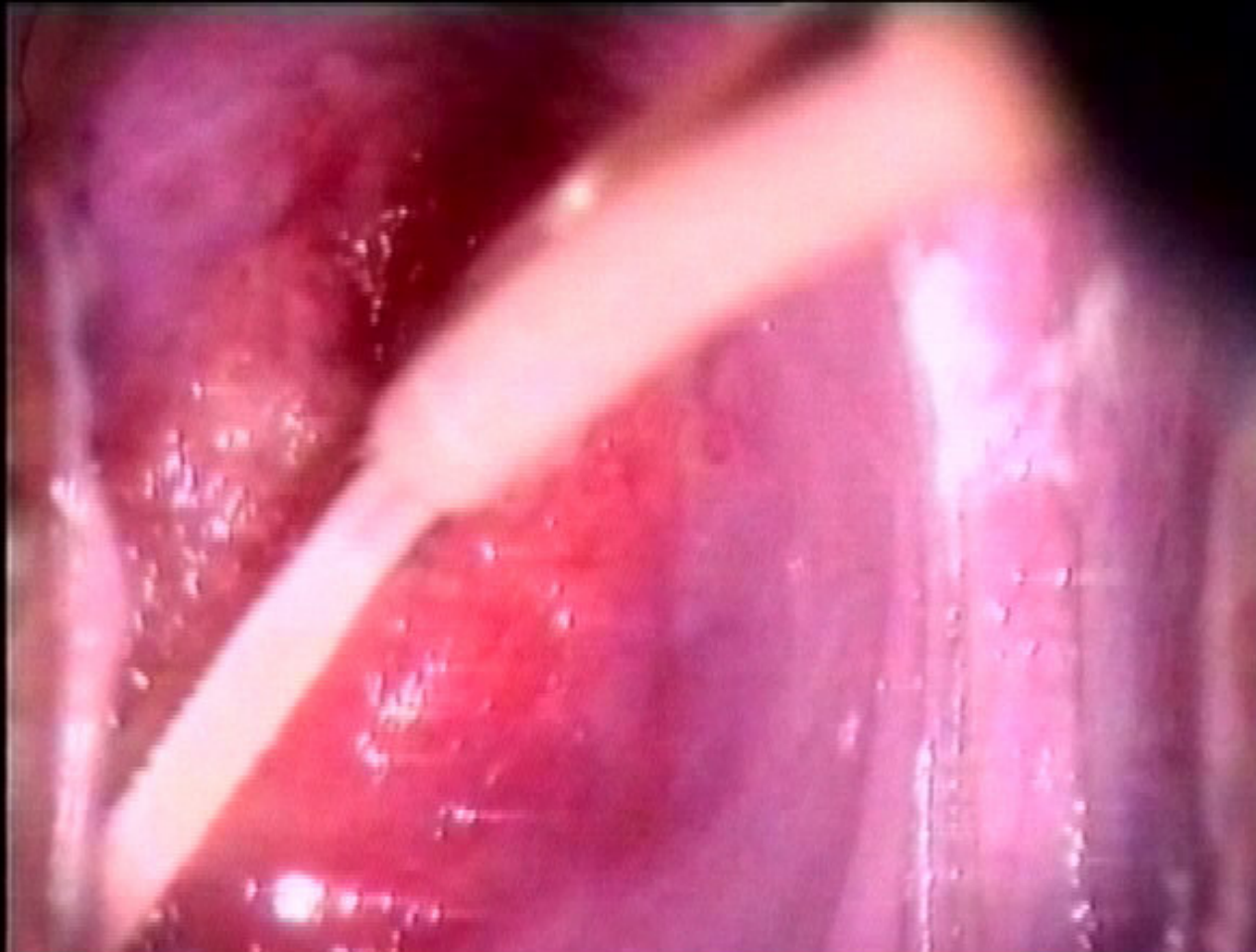


**and then rotate clockwise under  
gentle pressure.**

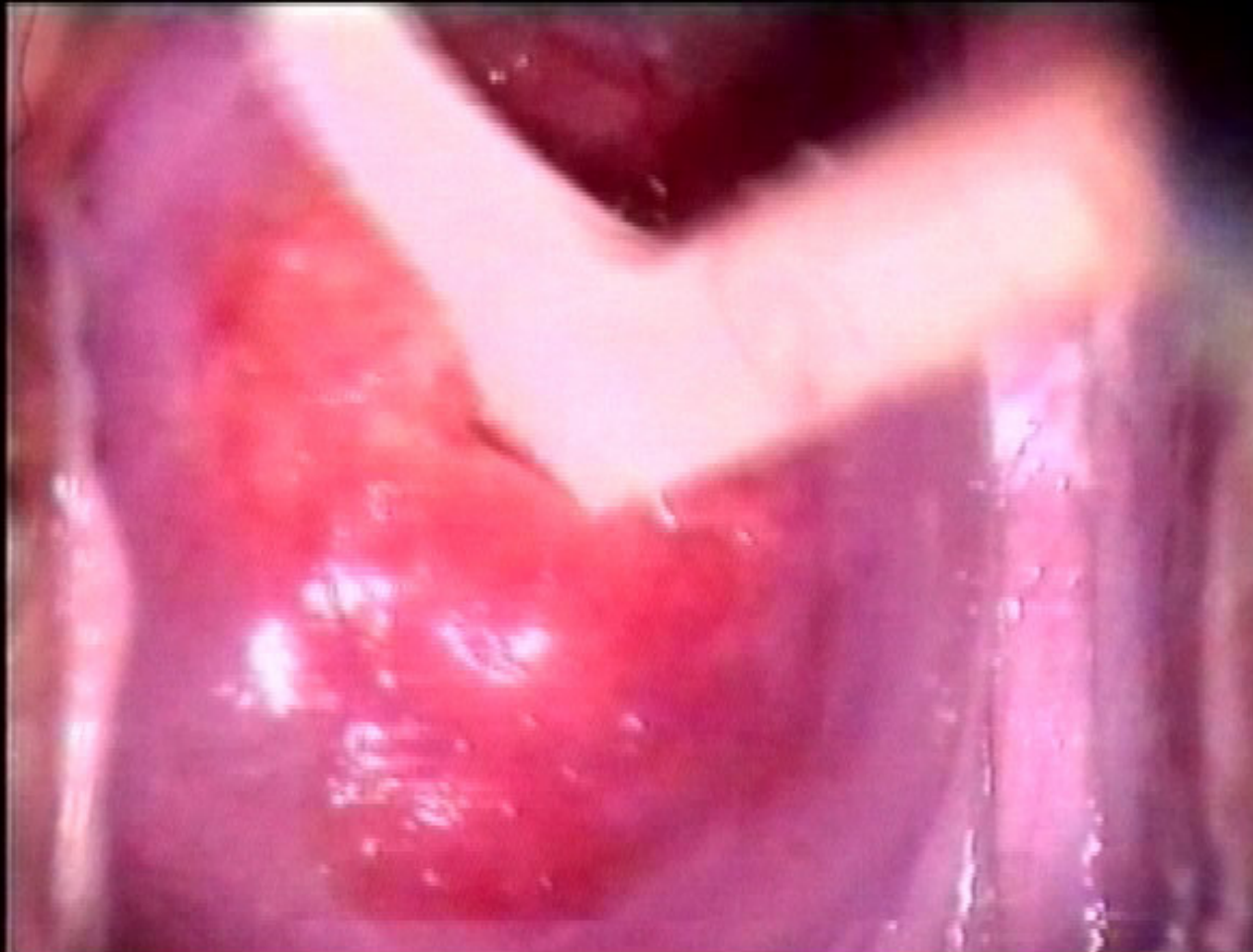


**and then rotate clockwise under  
gentle pressure.**

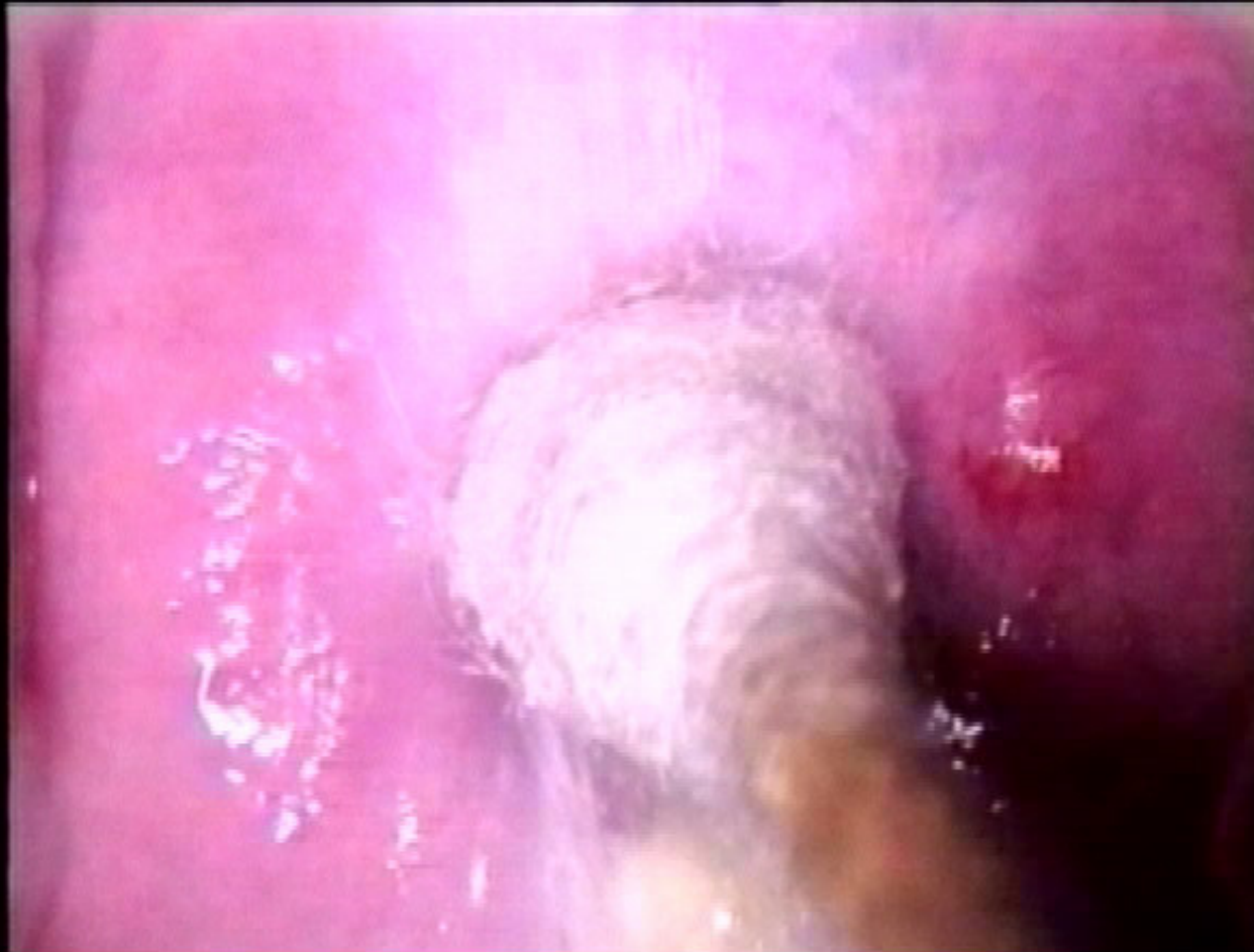




**and then rotate clockwise under  
gentle pressure.**



**and then rotate clockwise under  
gentle pressure.**



**Mucus is removed.**



**The shoulder of the spatula is  
placed on the ectocervix.**





**The spatula (No 2) is rotated  
under gentle pressure.**





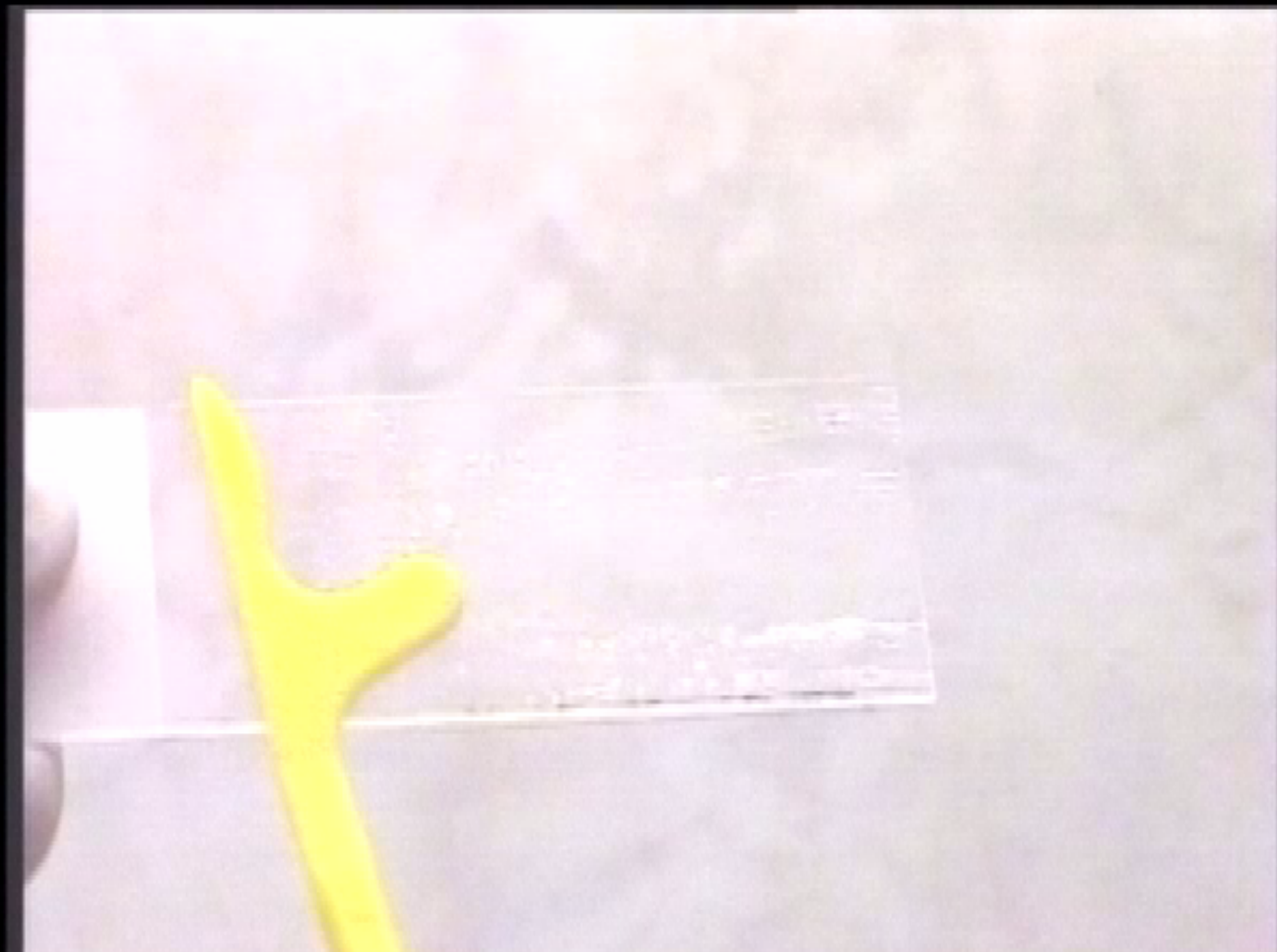
**The spatula (No 2) is rotated  
under gentle pressure.**



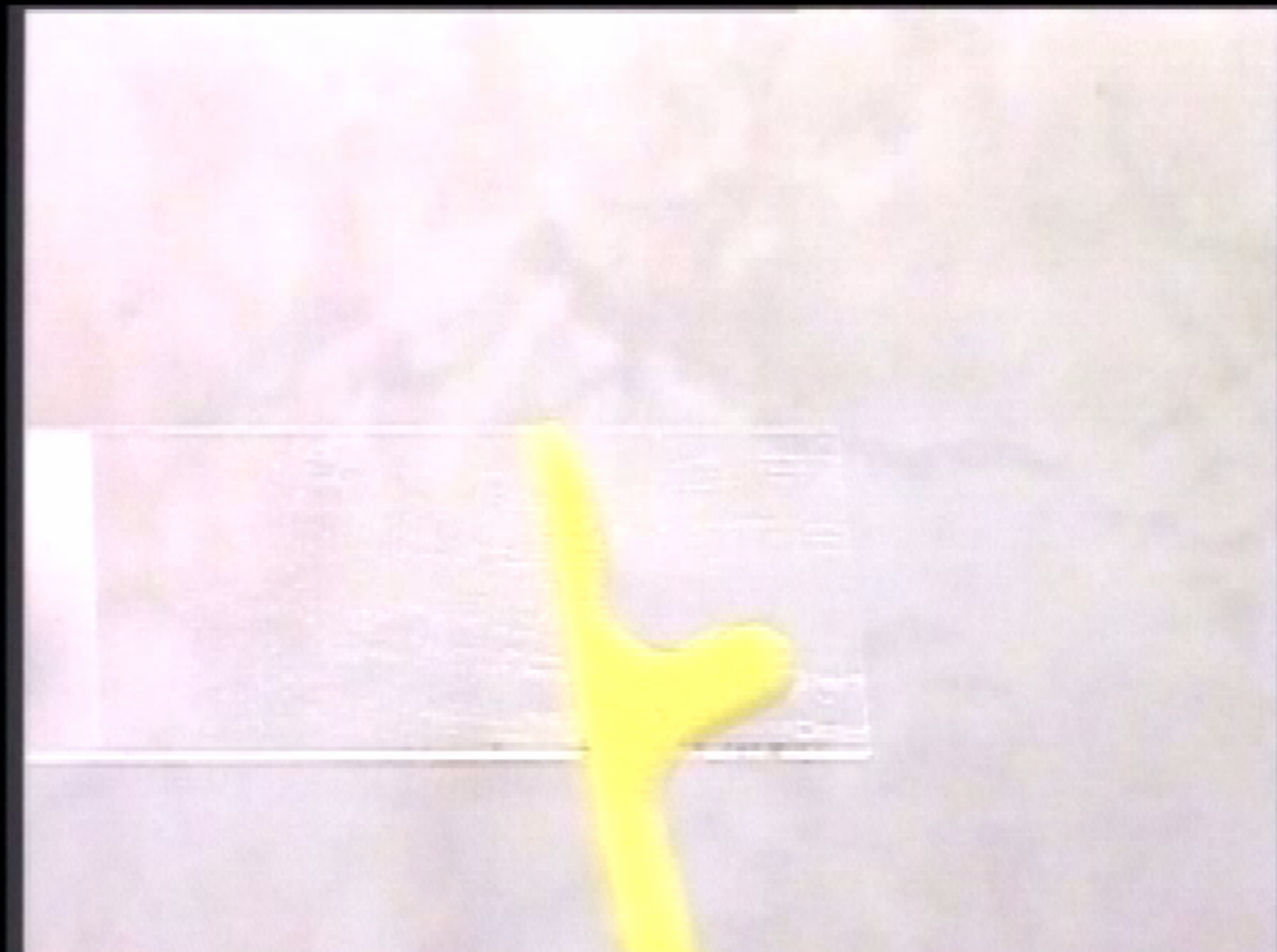
**The spatula (No 2) is rotated  
under gentle pressure.**



**The spatula (No 2) is rotated  
under gentle pressure.**

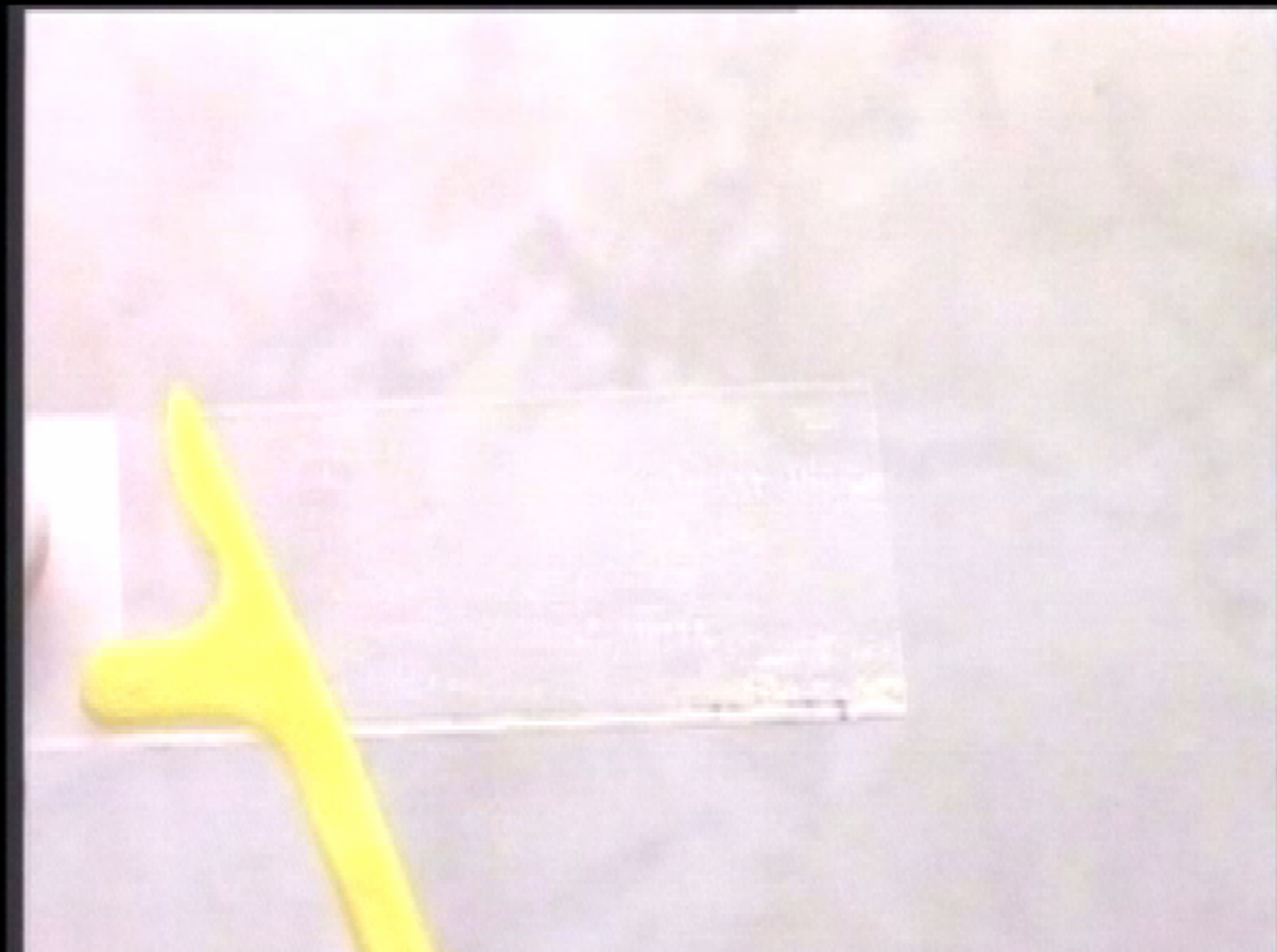


**Spread the cells evenly onto the slide..**

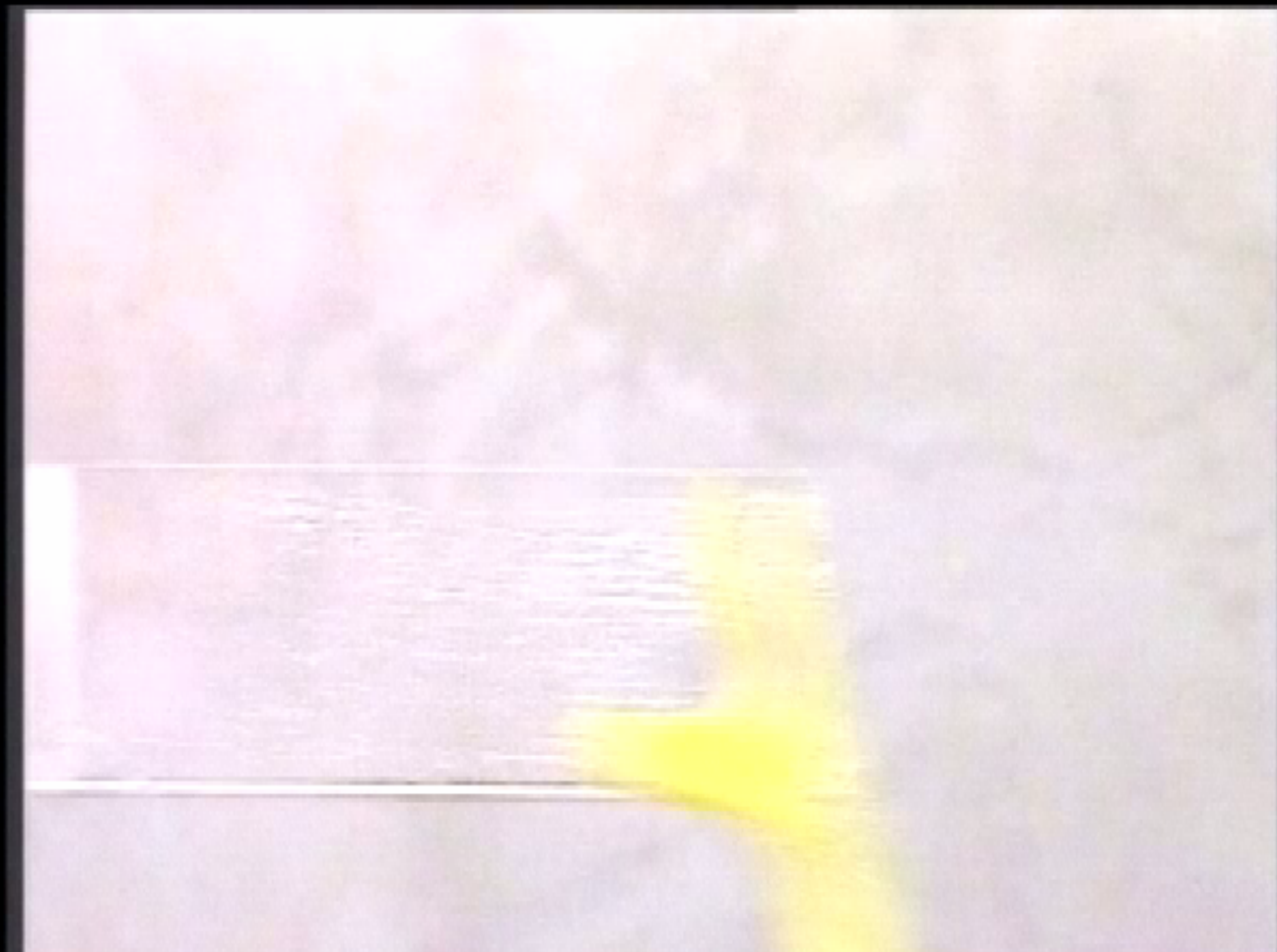


**Spread the cells evenly onto the slide..**

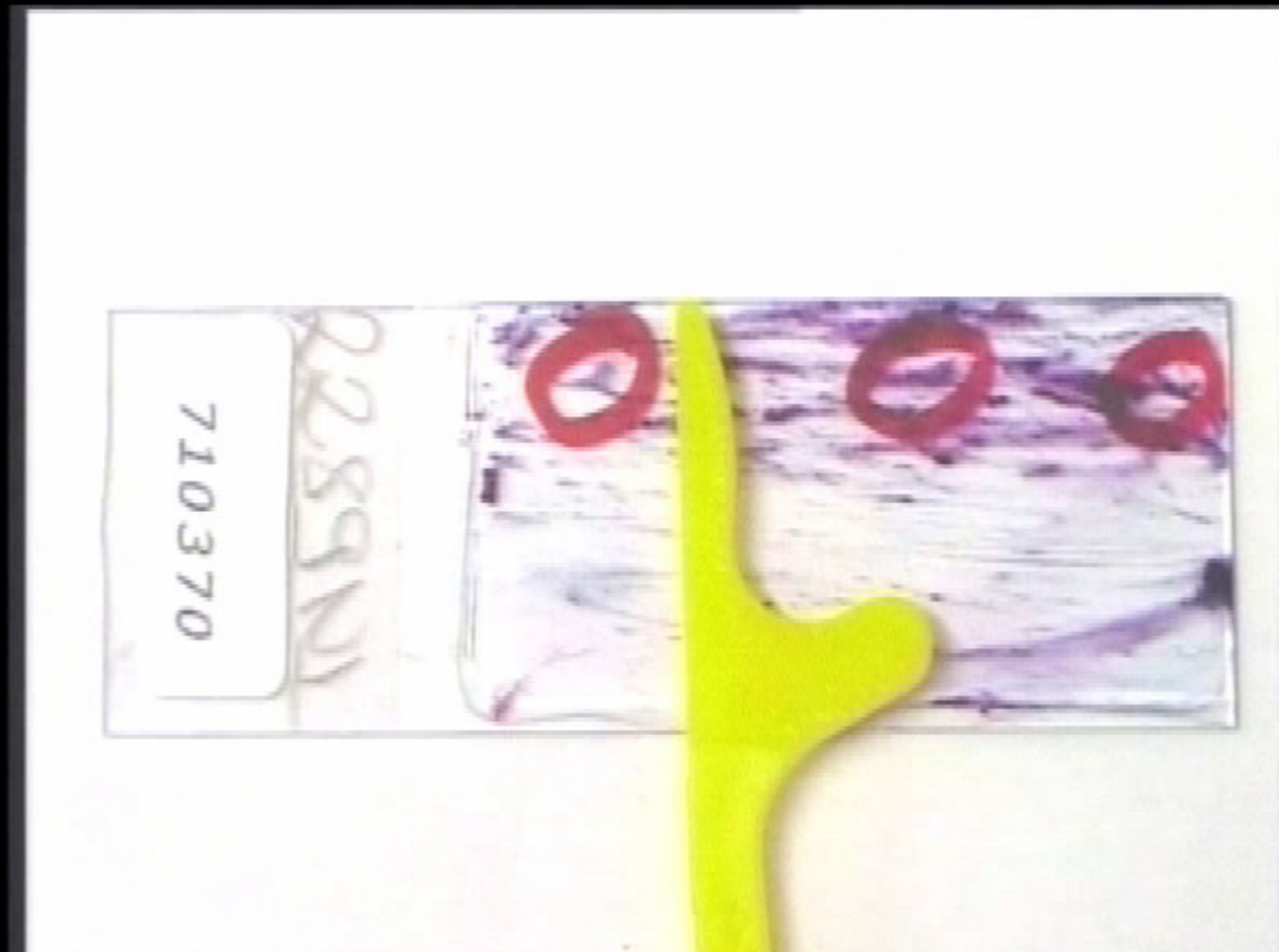




**Spread the cells evenly onto the slide..**



**Spread the cells evenly onto the slide..**



**The distribution of cells on the slide indicate an endocervical carcinoma.**

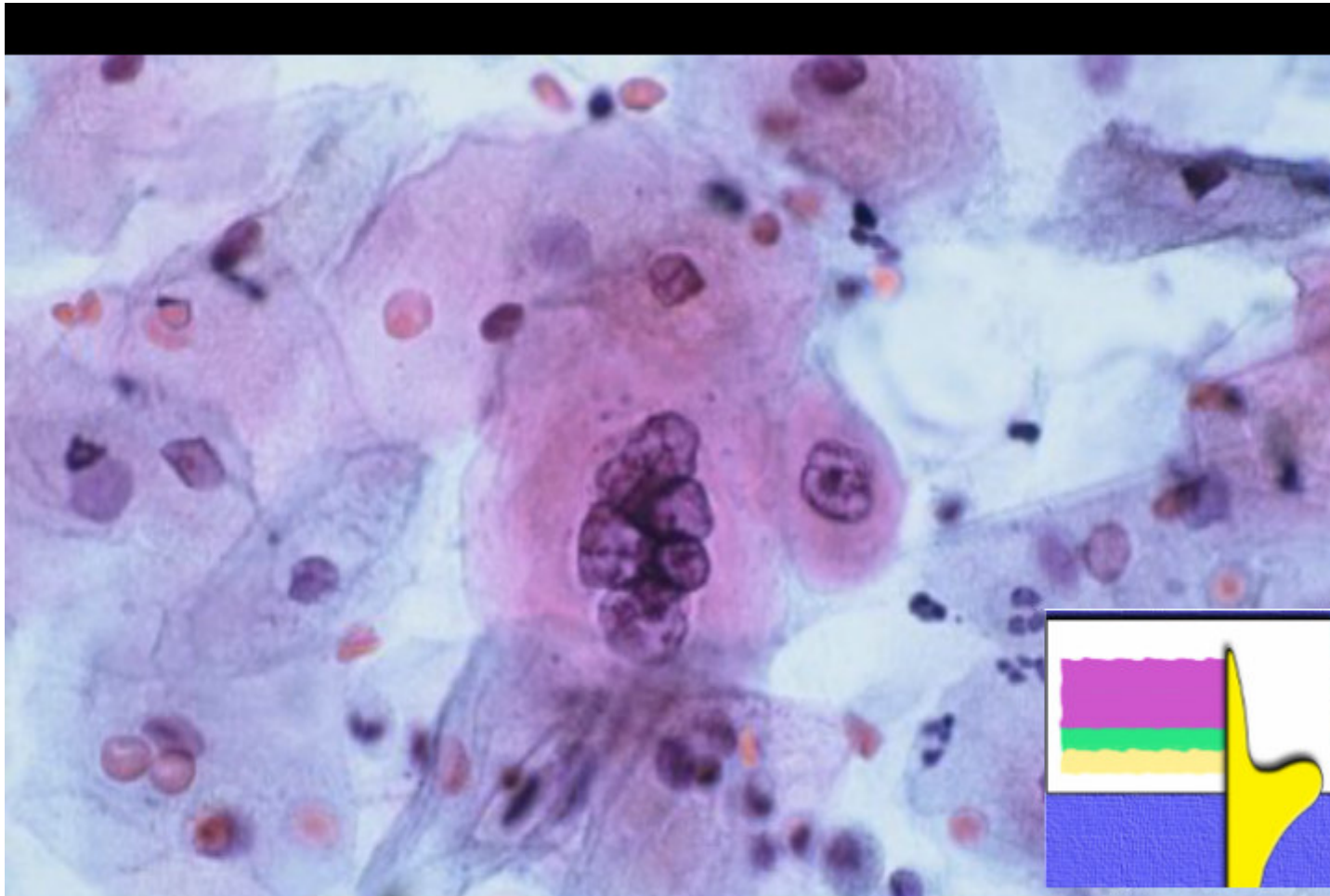


**Do not simply rotate the spatula,  
but move the tongue of the ..**

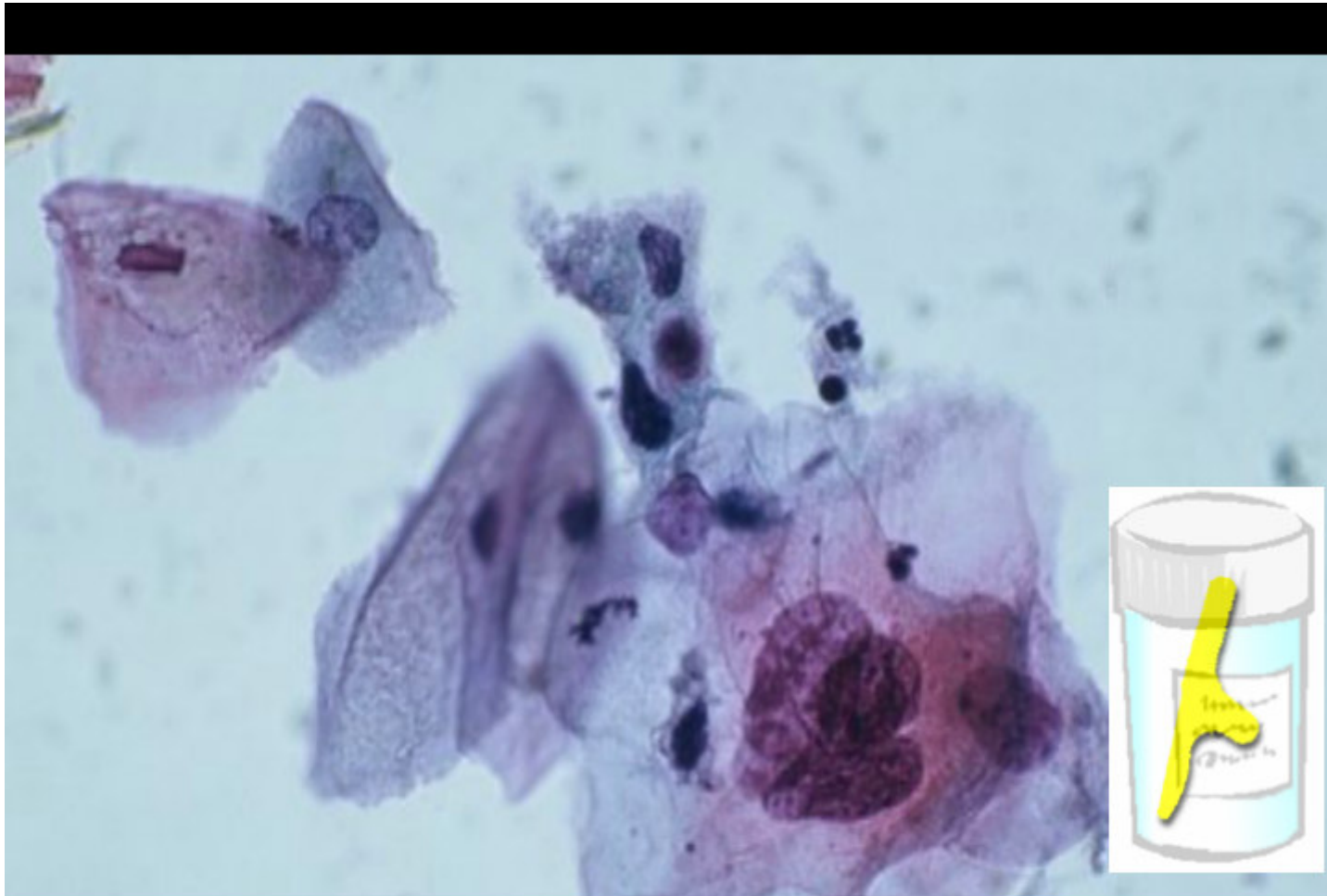


**spatula under gentle pressure along  
the contour of the cervix.**

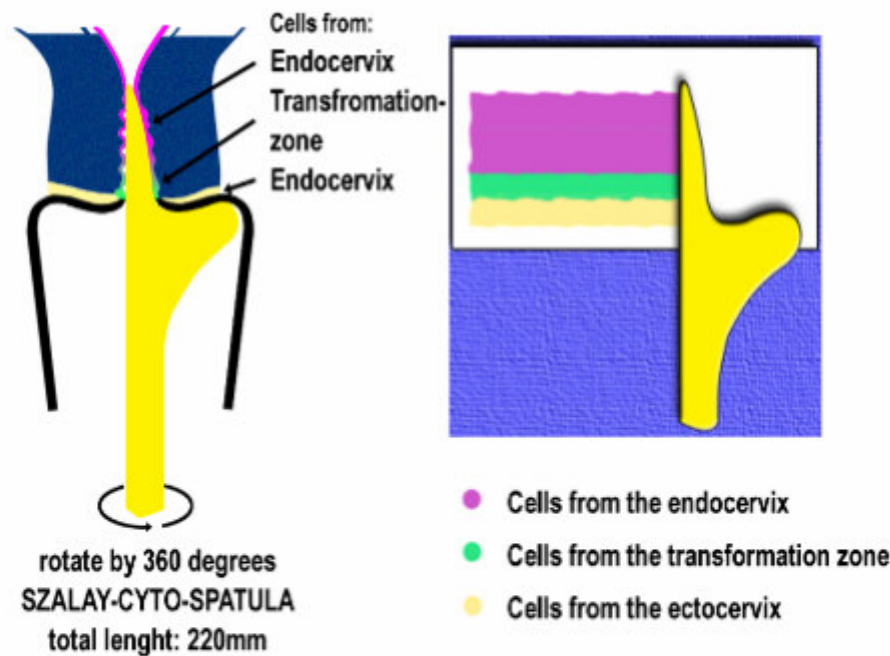




## Conventional method of analysis

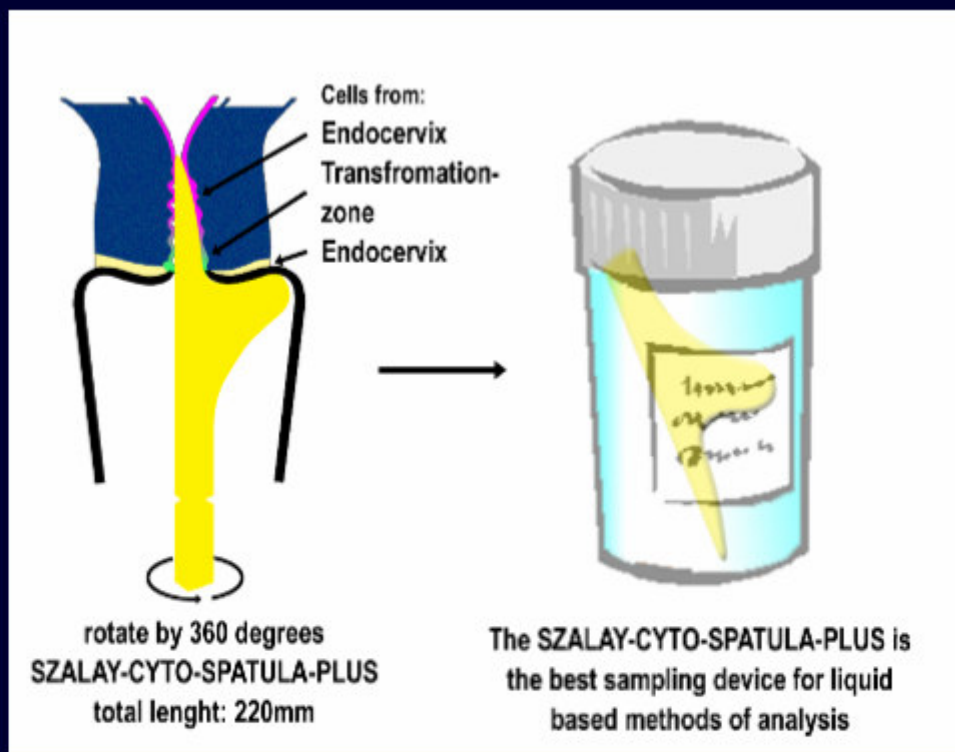


## Liquid based method of analysis



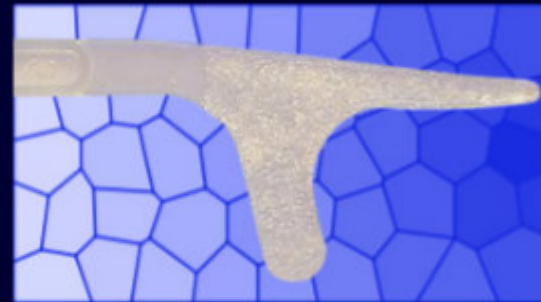
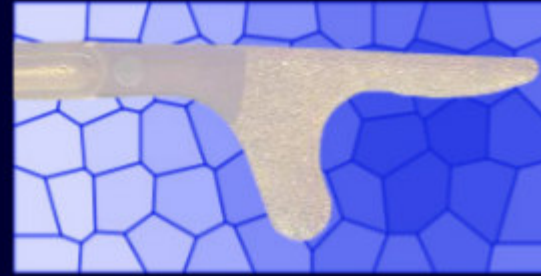
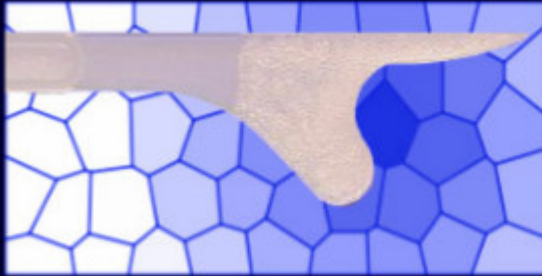
## Advantage

One single smear always provides enough representative cell material from all zones of the cervix uteri.



## Advantage

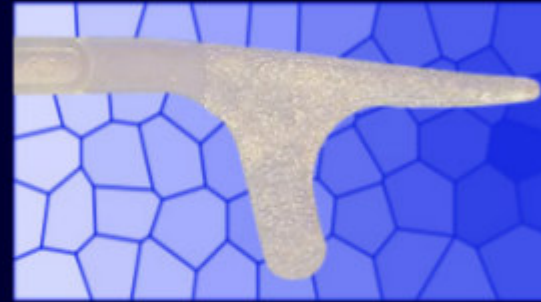
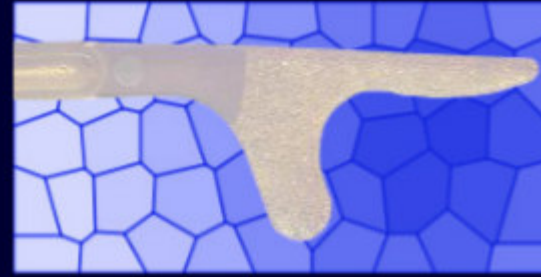
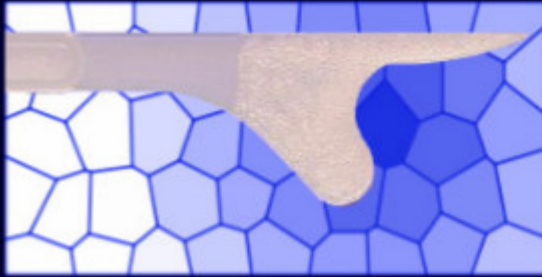
**One single smear always provides  
enough representative cell material  
from all zones of the cervix uteri.**



## Advantage

The specially treated surface of the spatula enables cells to be sampled, even from the deeper cell layers.



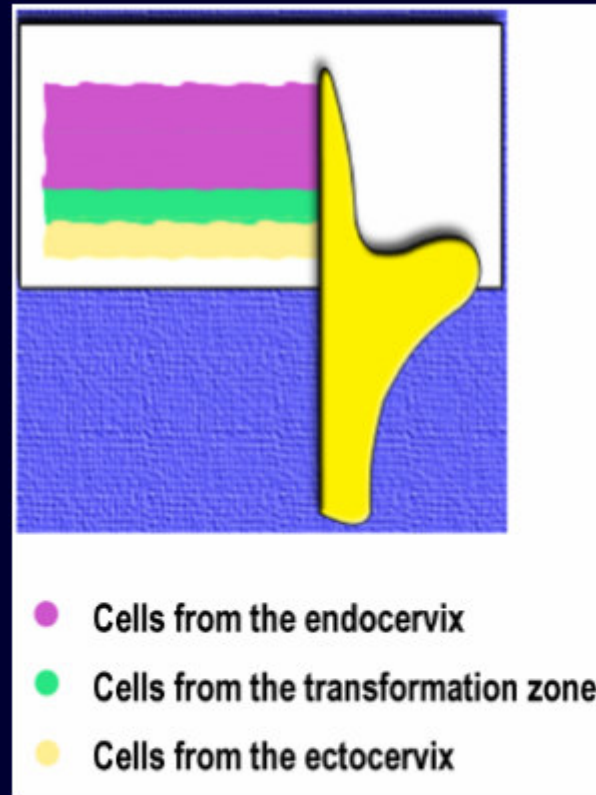


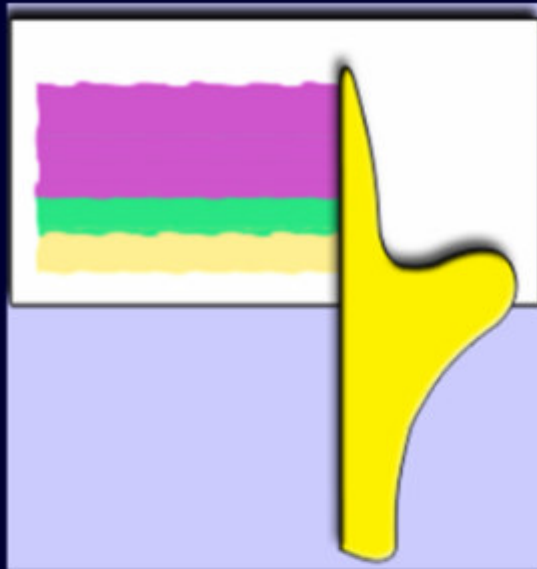
## Advantage

The available range of shape and size of spatula enables cells to be sampled, even where the cervical canal is very narrow or almost closed.

## Advantage

When the cells are smeared correctly onto the slide, they arrange themselves in a single layer (monolayer). Connected cell structures are preserved.





## Advantage

A smear taken with the Szalay spatula provides highly reliable results for both conventional and liquid-based methods of analysis.

# Scientific Studies

- Liquid Compared With Conventional Cervical Cytology. A Systematic Review and Meta-analysis. Marc Arbyn, MD, MSc, Christine Bergeron, MD, PhD, Paul Klinkhamer, MD, Pierre Martin-Hirsch, MD, PhD, Albertus G. Siebers, MSc, and Johan Bulten, MD, PhD. OBSTETRICS & GYNECOLOGY VOL. 111, NO. 1, JANUARY 2008
- Lancet 2006; 367: 122–32: Effect of study design and quality on unsatisfactory rates, cytology classifications, and accuracy in liquid-based versus conventional cervical cytology: a systematic review Elizabeth Davey, Alexandra Barratt, Les Irwig, Siew F Chan, Petra Macaskill, Patricia Mannes, A Marion Saville
- J.H. Obwegeser, M.D., Does liquid-based technology really improve detection of cervical neoplasia?, Acta Cytologica 2001/709 [www.acta-cytol.com](http://www.acta-cytol.com)
- Rea Rammou-Kinia, M.D., Comparison of Spatula and Nonspatula methods for cervical sampling, Acta Cytologica 1991/35 [www.acta-cytol.com](http://www.acta-cytol.com)

# The Szalay Cyto-Spatula Pap-Test

CSM Graf GmbH  
sales@csmgraf.ch  
Switzerland

