

# Cytec Corporation - Case Presentation Archive - February 2001

## Breast Fine Needle Aspirate collected in CytoLyt®

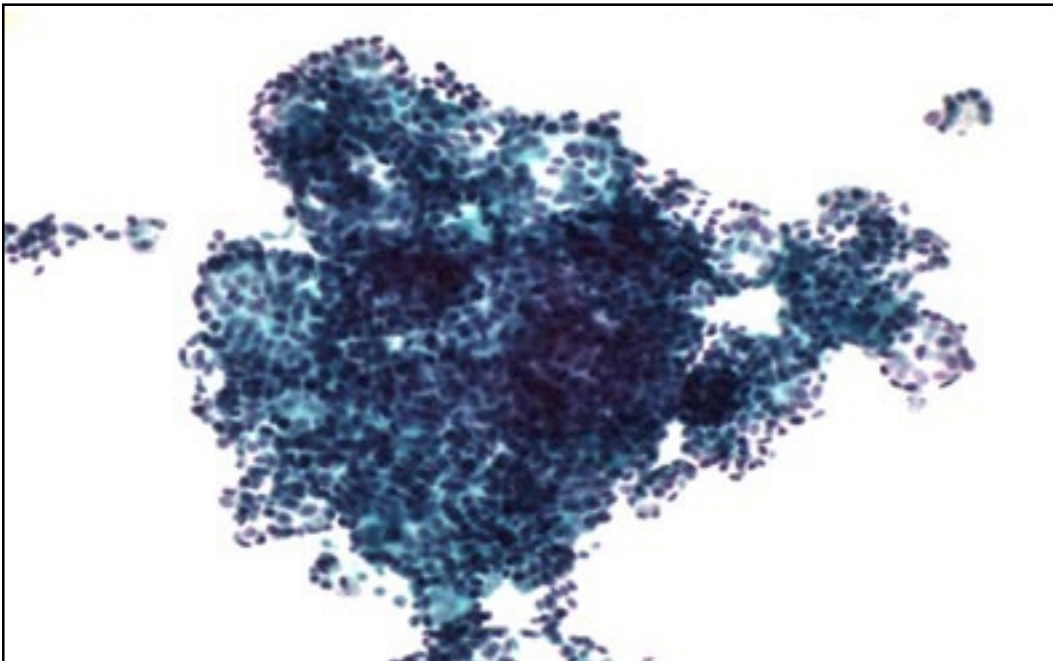
**History:** 58 Years Old

**LMP:** Postmenopausal

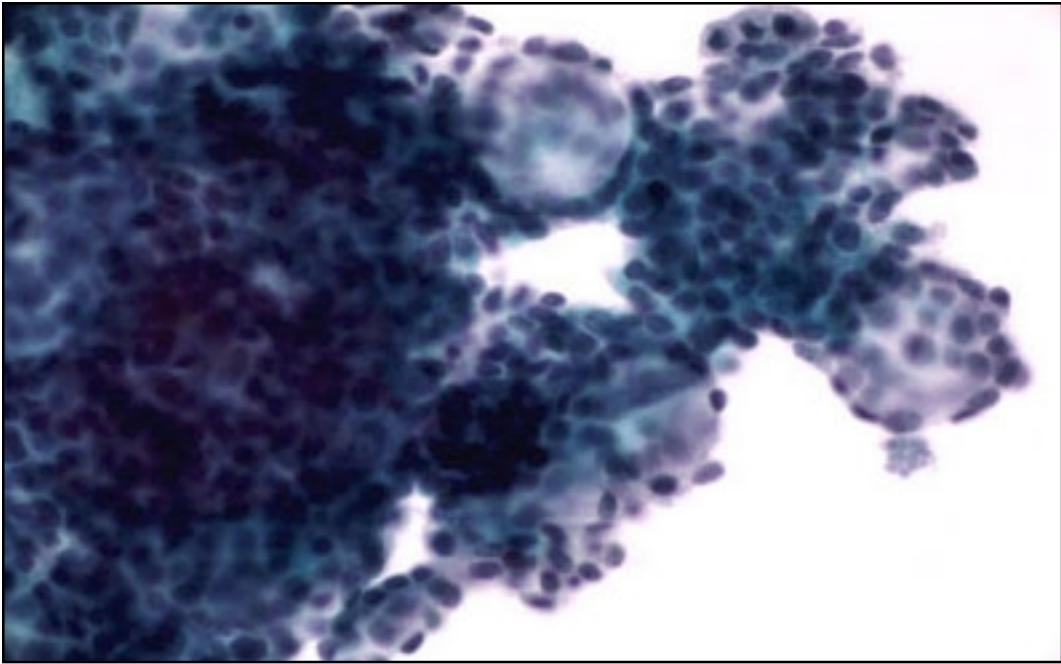
**Clinical Impression:** Fibrocystic nodule at 12 o'clock

Case provided by Dr. François Joris, Médecin-Chef, Institut Central des Hopitaux Valaisans, Sion, Switzerland.

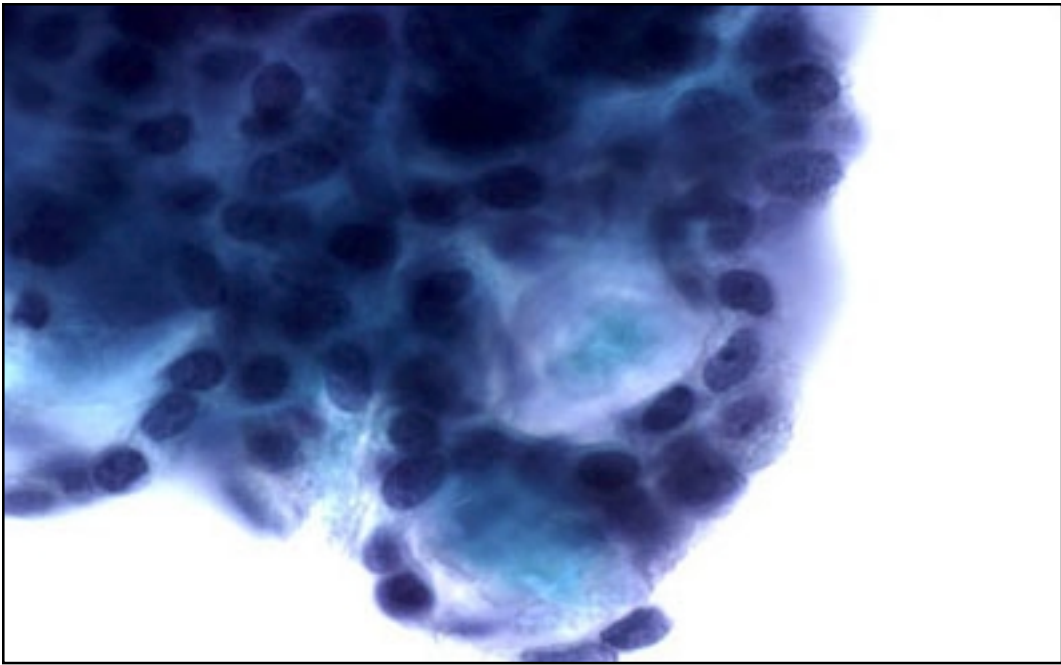
\*The images, analysis and diagnosis for this case study were provided by an independent physician. All conclusions and opinions are those of the physician and not Cytec Corporation.



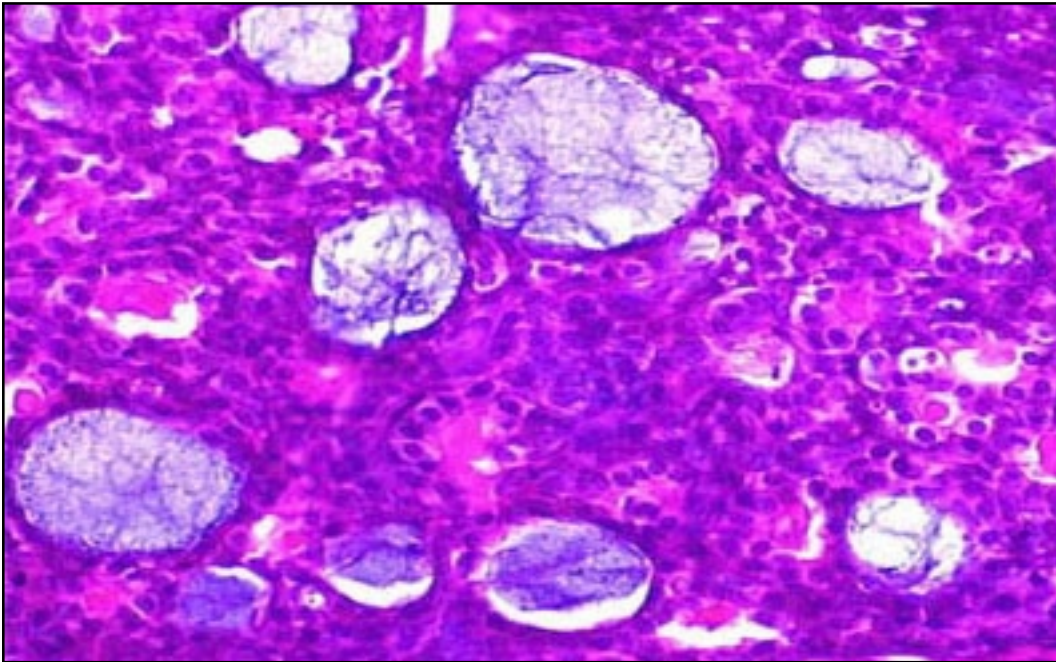
Slide 1



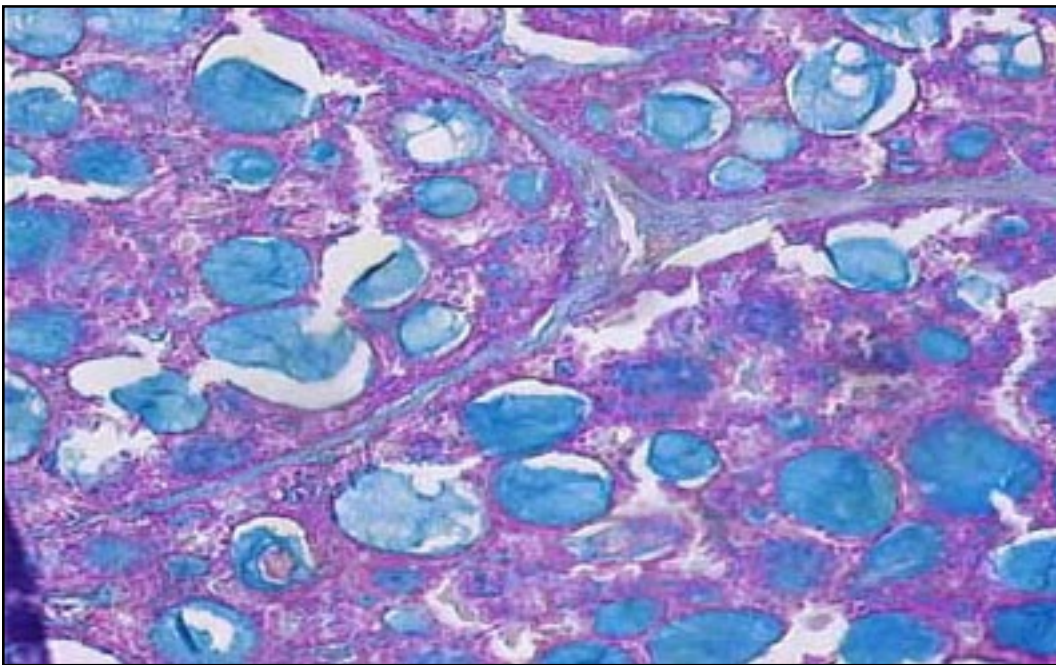
Slide 2



Slide 3



Slide 4



Slide 5

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## **Discussion:**

Slide 1: A thick three-dimensional group of cells with bland nuclei and high n/c ratios, forming ball-like rounded groups and cylindrical formations.

Slide 2: Cells appear relatively uniform and surround a refractive, clear substance. (globules)

Slide 3: Cells have abnormal nuclei with nucleoli and surround a blue staining globular substance.

Slides 4: Tissue section (H&E) showing a cribriform growth pattern with cords and cylinders of cells surrounding hyaline-like material composed of basal lamina substance.

Slide 5: Tissue section (Alcian blue) showing Alcian blue positivity of basal lamina substance.

## **Cytologic Diagnosis:**

Specimen Adequacy: Satisfactory for evaluation

Diagnostic Category: Positive for malignancy

Descriptive Diagnosis: Adenoid Cystic Carcinoma

## **Tissue Diagnosis:**

Breast biopsy: Adenoid Cystic Carcinoma.

Adenoid Cystic Carcinoma is a slow growing malignant tumor arising in glandular tissue. The most common site for this tumor is in the salivary glands. The breast is an uncommon site for this neoplasm, as is the trachea and bronchus. Adenoid cystic carcinoma may also arise in the cervical glands or Bartholin's glands. Long term prognosis of this tumor is poor due to the high frequency of recurrence.

## **References:**

Chen, Vicky, et.al., *Guides to Clinical Aspiration Biopsy Head and Neck*, Igaku-Shoin ©1996

McKee, Grace T., *Cytopathology*, Mosby-Wolfe ©1997

Bibbo, Marluce, *Comprehensive Cytopathology*, W.B. Saunders ©1991