

СИМ-техника 2006 SIM-technika 2006



Image

Contour

Mammary gland anatomy

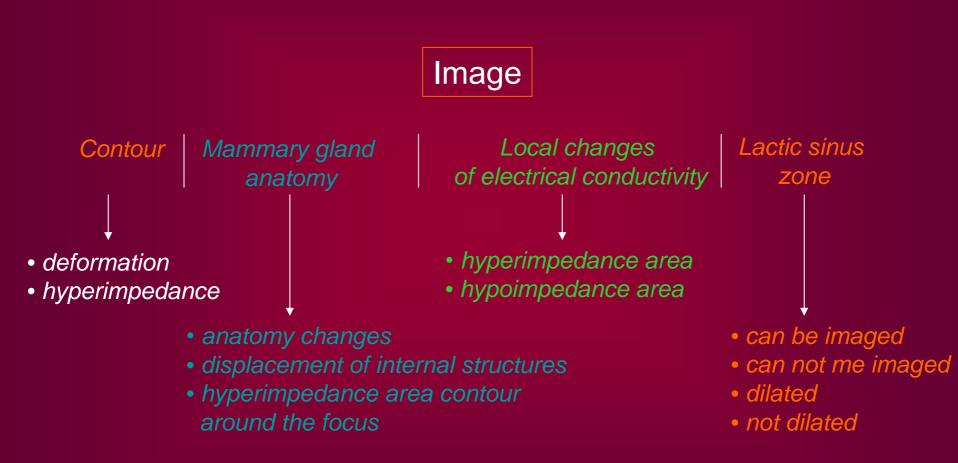
Local changes of electrical conductivity

Lactic sinus zone

Measurement

Mean electrical Conductivity index Electrical conductivity distribution divergence

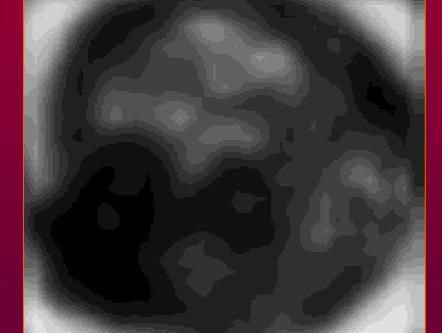
Local changes of electrical conductivity



Mammary gland contours

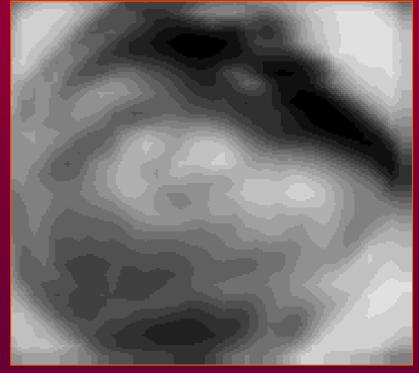
Contour deformation

outwards (bulging)



Mastitis

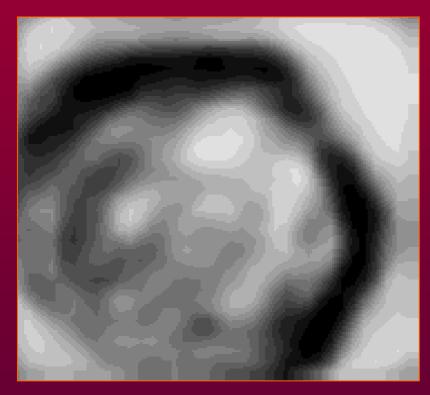
inwards (retraction)



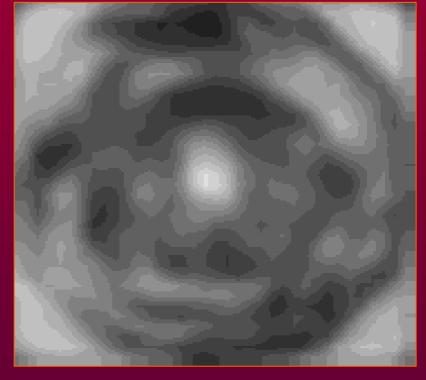
Mammary gland cancer

Mammary gland contours

Hyperimpedance of the contour (a 51-years-old patient)



Right mammary gland cancer



Left mammary gland

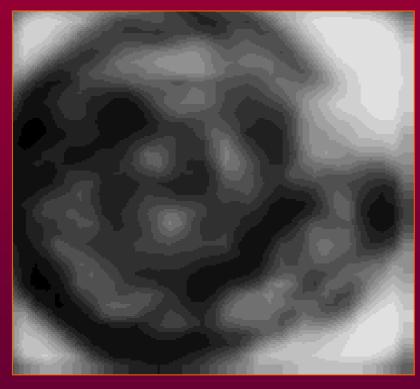
Mammary gland anatomy

Anatomy

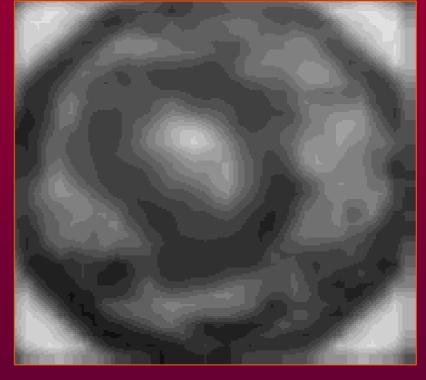
(a 39-years-old patient)

altered





Affected mammary gland (cancer)

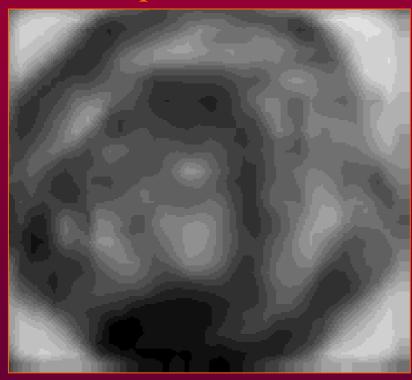


Normal mammary gland

Mammary gland anatomy

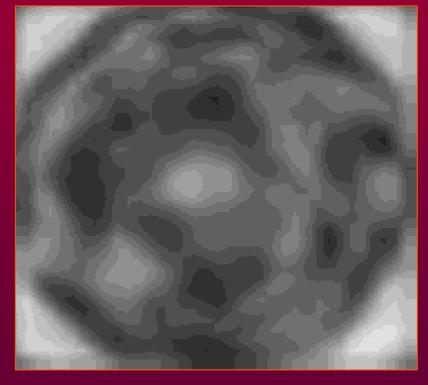
Displacement of internal structures (a 50-years-old patient)

with displacement



Affected mammary gland (cancer)

no displacement

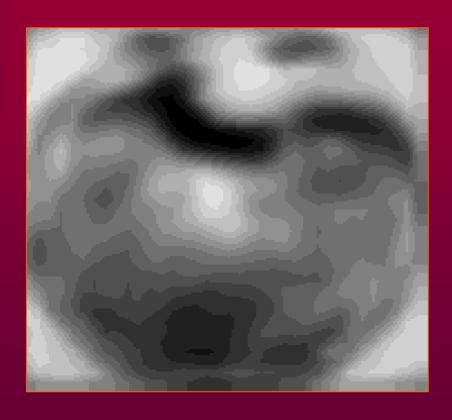


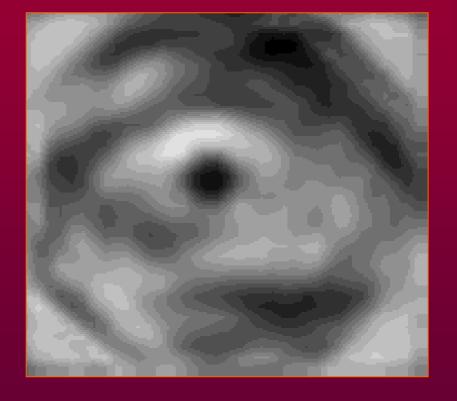
Normal mammary gland

Mammary gland anatomy

Hyperimpedance contour around the focus

(a 67-years-old patient)





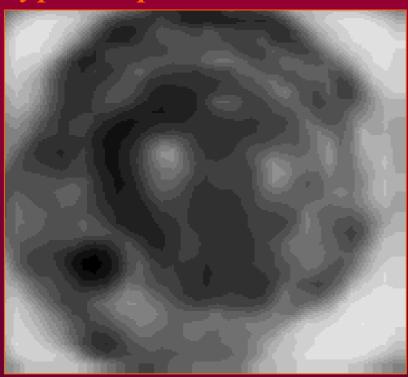
Affected mammary gland (cancer)

Normal mammary gland

Local changes of electrical conductivity

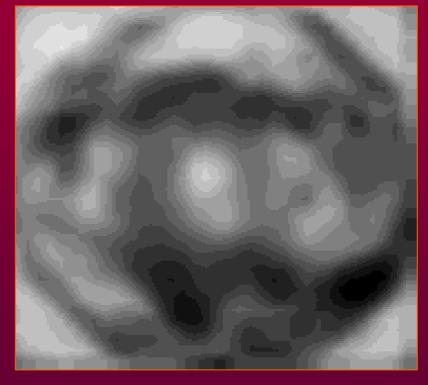
Changes of electrical conductivity(a 50-years-old patient)

hyperimpedance area



Mastitis

hypoimpedance area

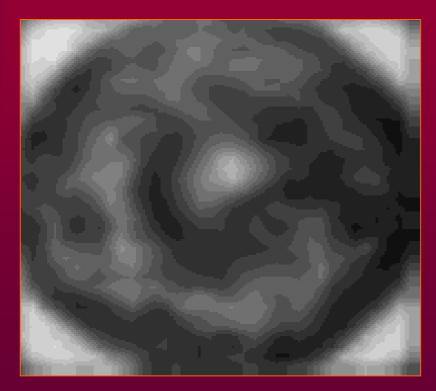


Mammary gland cancer

Lactic sinus zone

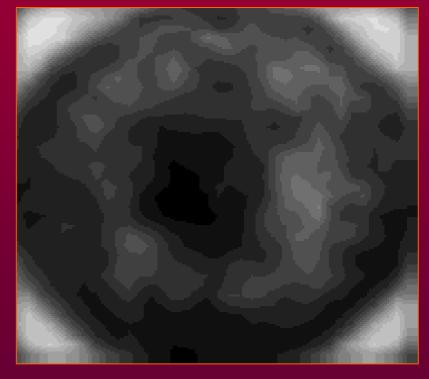
Lactic sinus

can be imaged



A 42-years-old patient

can not be imaged



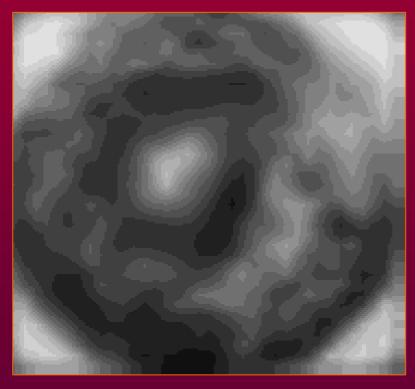
A 38-years-old patient

Lactic sinus zone

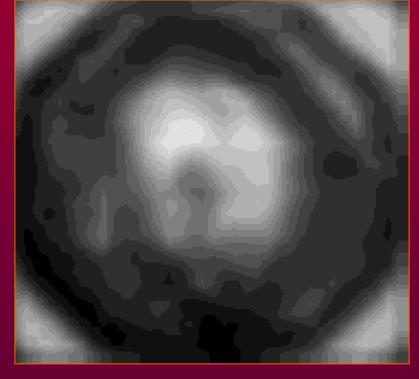
Lactic sinus

Not dilated

dilated



A 35-years-old patient



A 27-years-old patient

Measurement

Mean electrical conductivity index

Electrical conductivity distribution divergence

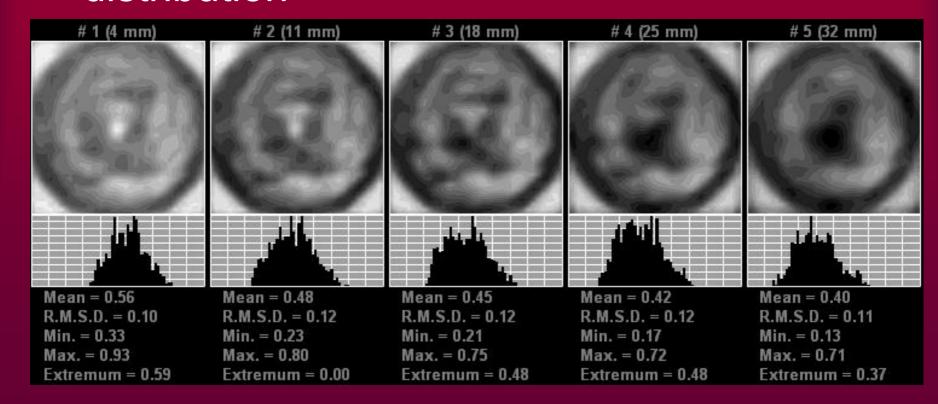
Local changes of electrical conductivity

- mean electrical conductivity index
- histogram of electrical conductivity distribution

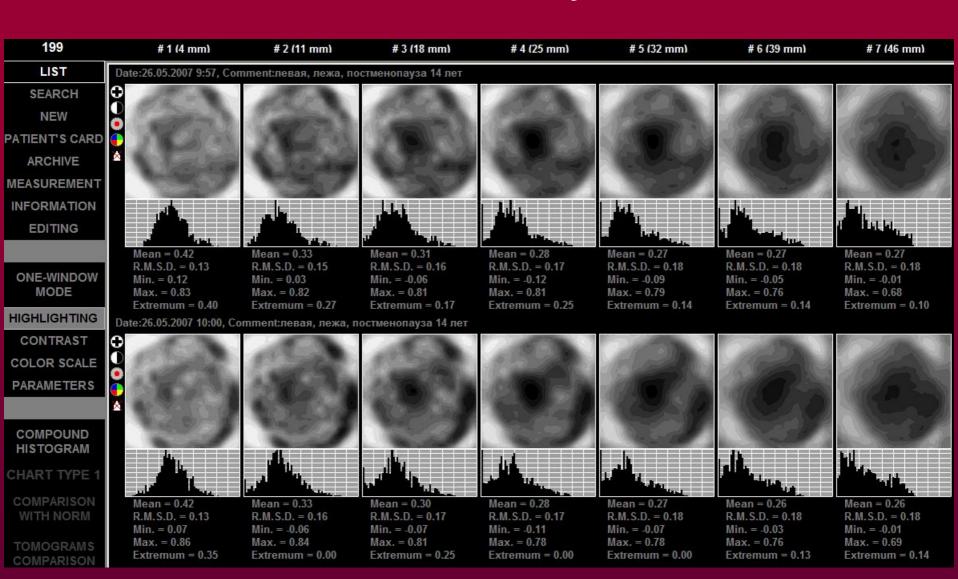
- mean electrical conductivity index of the selected area
- histogram of electrical conductivity distribution
- mean electrical conductivity index and divergence in electrical conductivity distribution between the left and right breast
- mean electrical conductivity index and divergence in electrical conductivity distribution between the left (right) and the normal breast

Mean electrical conductivity index

 Mean electrical conductivity index and histogram of electrical conductivity distribution



Mean electrical conductivity index and histogram of electrical conductivity distribution

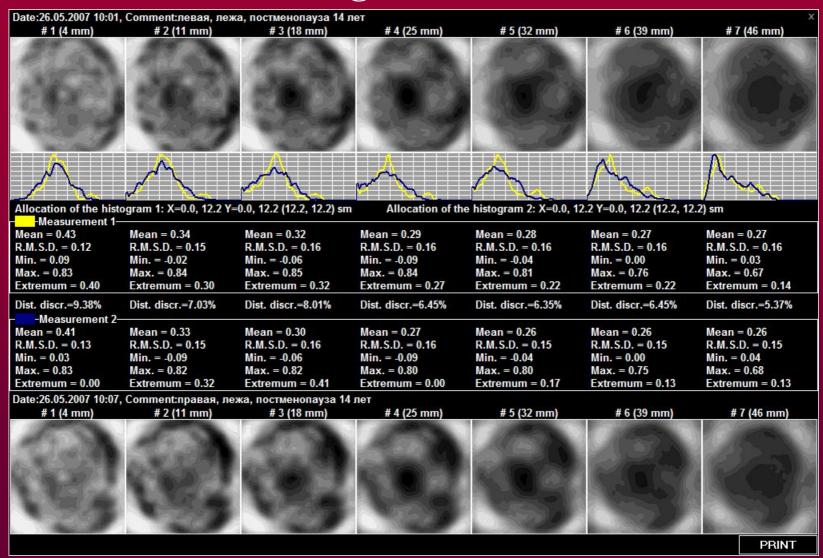


Divergence in electrical conductivity distribution

• Mean electrical conductivity index and divergence in electrical conductivity distribution between the left and right breast

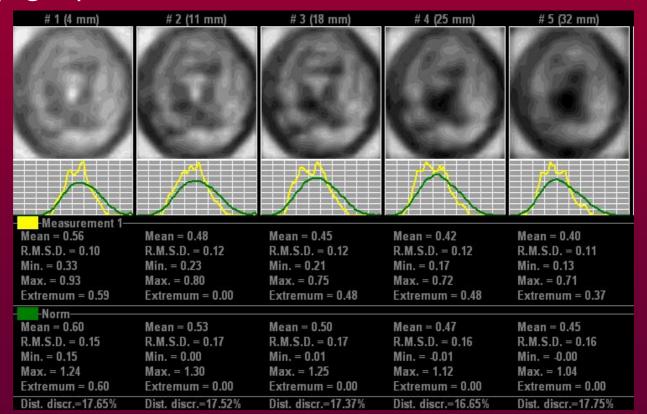


Mean electrical conductivity index and divergence in electrical conductivity distribution between the left and right breast

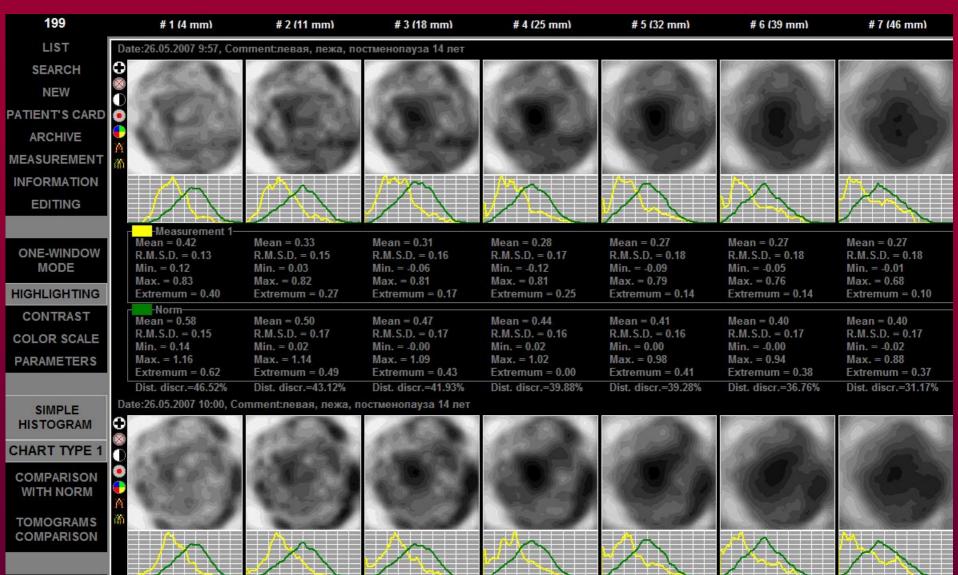


Divergence in electrical conductivity distribution

 Mean electrical conductivity index and divergence in electrical conductivity distribution between the left (right) and the normal breast



Mean electrical conductivity index and divergence in electrical conductivity distribution between the left (right) and the normal breast



Local changes of electrical conductivity

 Mean conductivity index of the selected area and histogram of electrical conductivity distribution

