

 #WCD2019

# AEDV

## HIGHLIGHTS

24<sup>th</sup> World Congress of Dermatology (WCD)

10-15  
JUNIO  
2019

*Milán*



Patrocina:

janssen  Immunology  
PHARMACEUTICAL COMPANIES OF 

Organiza:



# AEDV

## HIGHLIGHTS

24<sup>th</sup> World Congress of Dermatology (WCD)

10-15  
JUNIO  
2019

Milán



## Diagnostic imaging in dermatology: advances in ultrasound

**Dr. Azael Freites Martinez**

*Dermatologist. Clinica IVALIA- Gran Canaria*

*Fellow in Oncodermatology at MSKCC, New York*

Patrocina:



Organiza:

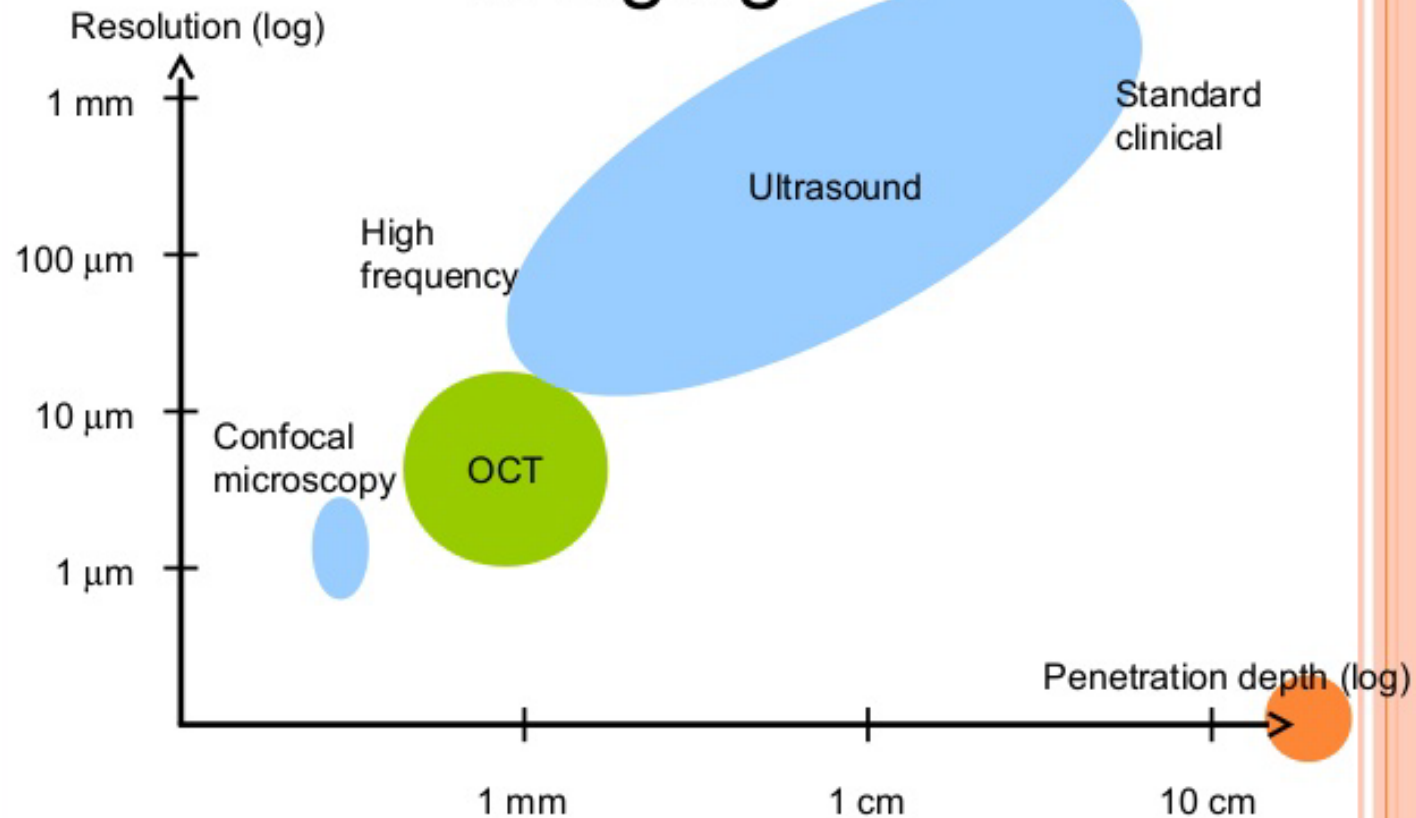


## Ximena Wortsman MD, FAIUM

- Chair of the Dermatologic Ultrasound Interest Group at AIUM- Fellow Member American Institute of Ultrasound in Medicine
- Adjunct Professor: Institute for Diagnostic Imaging and Research of the Skin and Soft Tissues Departments of Dermatology, Faculties of Medicine, University of Chile and Pontifical Catholic University of Chile, Santiago, Chile



# OCT vs. standard imaging



## Better Anatomical Resolution



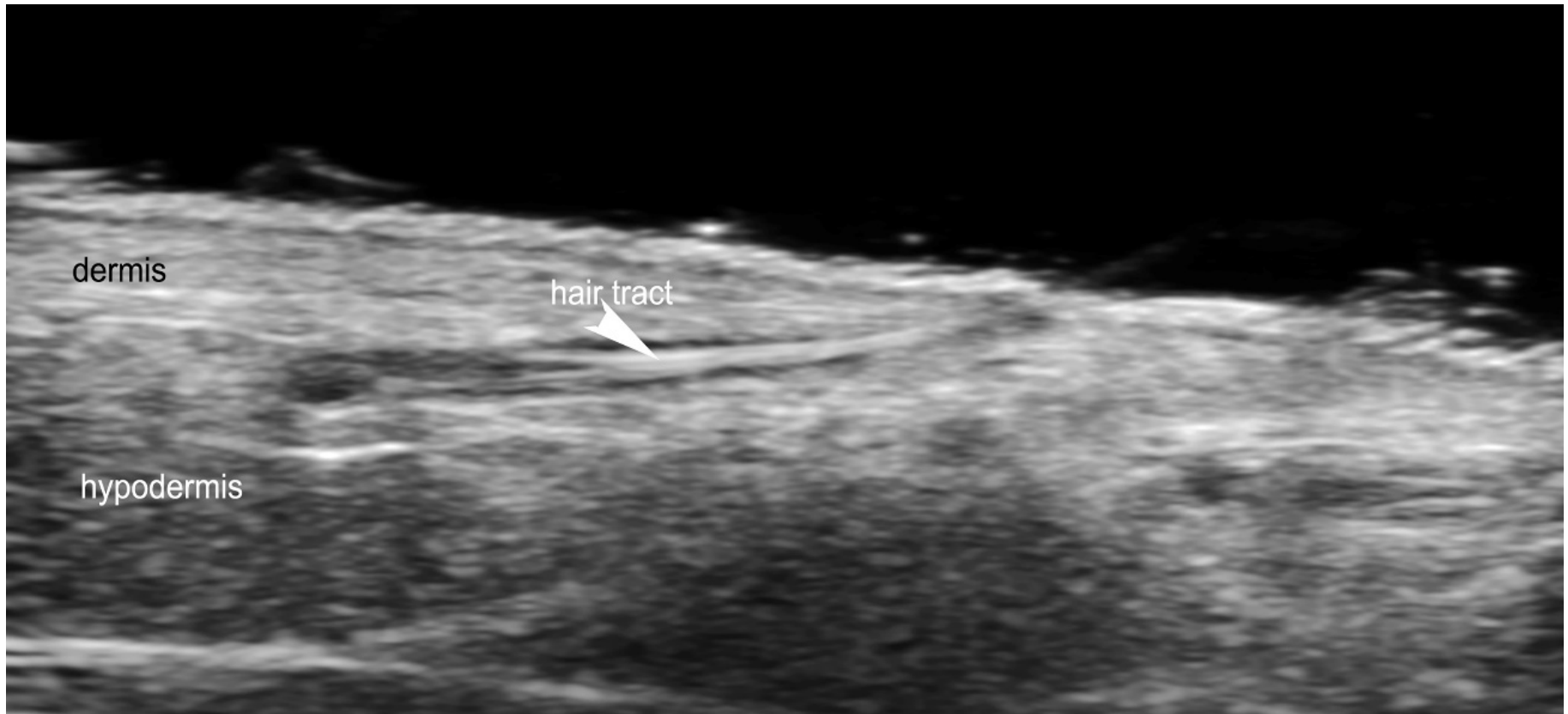
**18 MHz Axial resolution of 100  $\mu\text{m}$  /pixel, lateral resolution of 90  $\mu\text{m}$ / pixel**

*Wortsman X, Wortsman J, Clinical usefulness of variable frequency ultrasound in localized lesions of the skin. J Am Acad Dermatol 2010; 62 : 247-256*

*Courtesy: Ximena Wortsman*

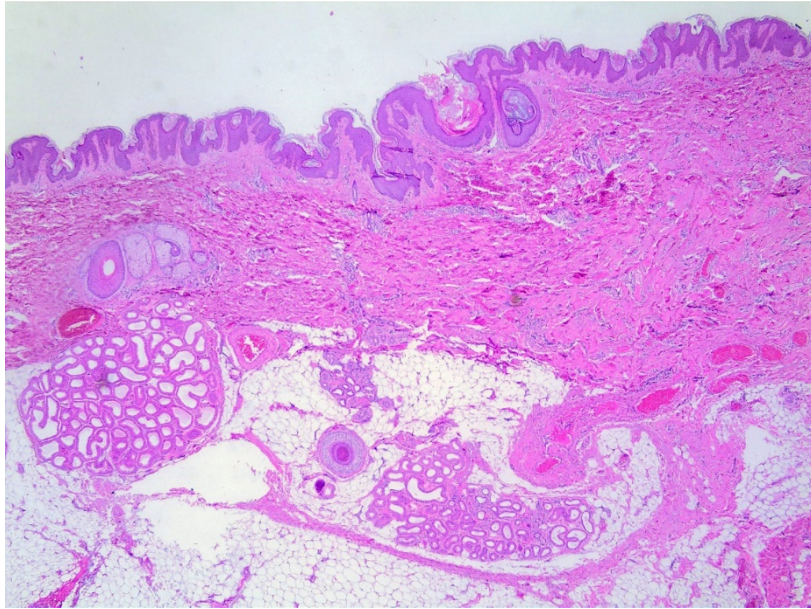


## Better Anatomical Resolution

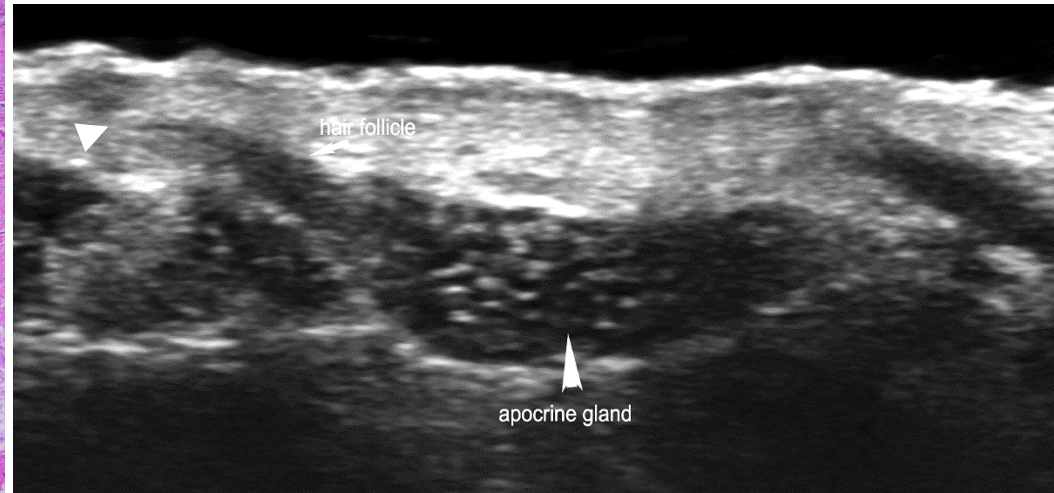


**70 MHz. Axial resolution of 30  $\mu\text{m}$ /pixel lateral resolution of 65  $\mu\text{m}$  /pixel.**

## Better Anatomical Resolution: Apocrine Glands



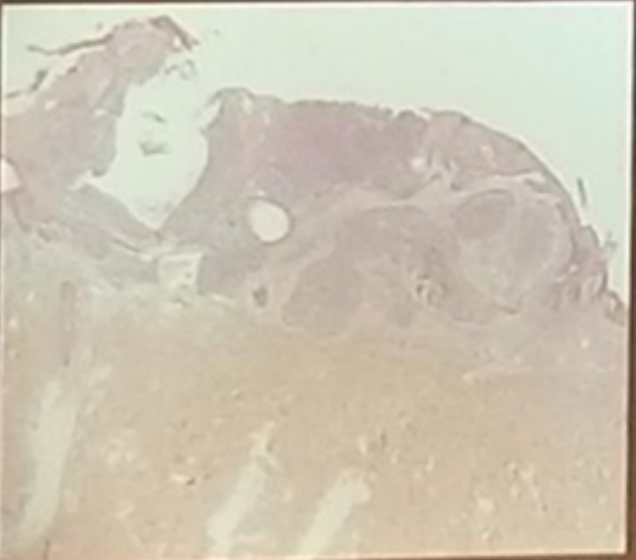
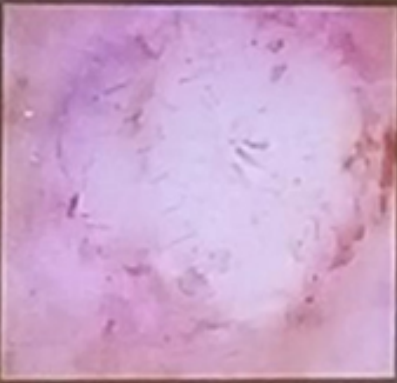
**Apocrine gland**



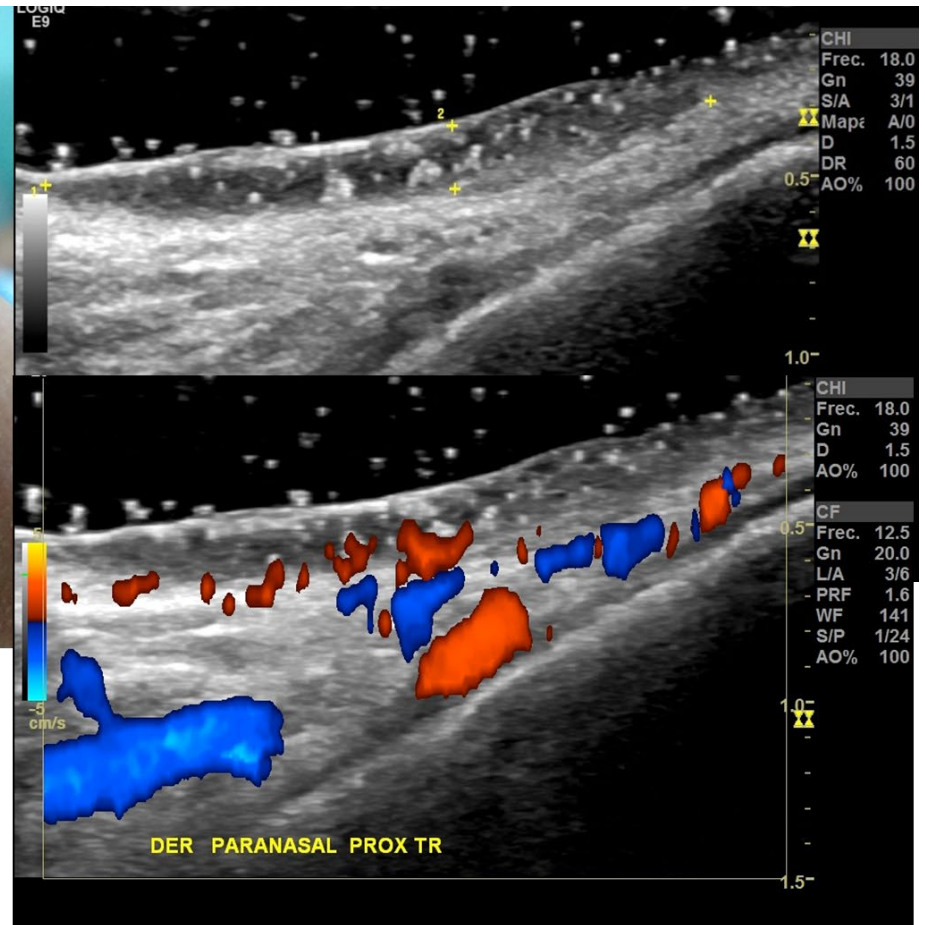
**“pseudo-ovary” morphology**





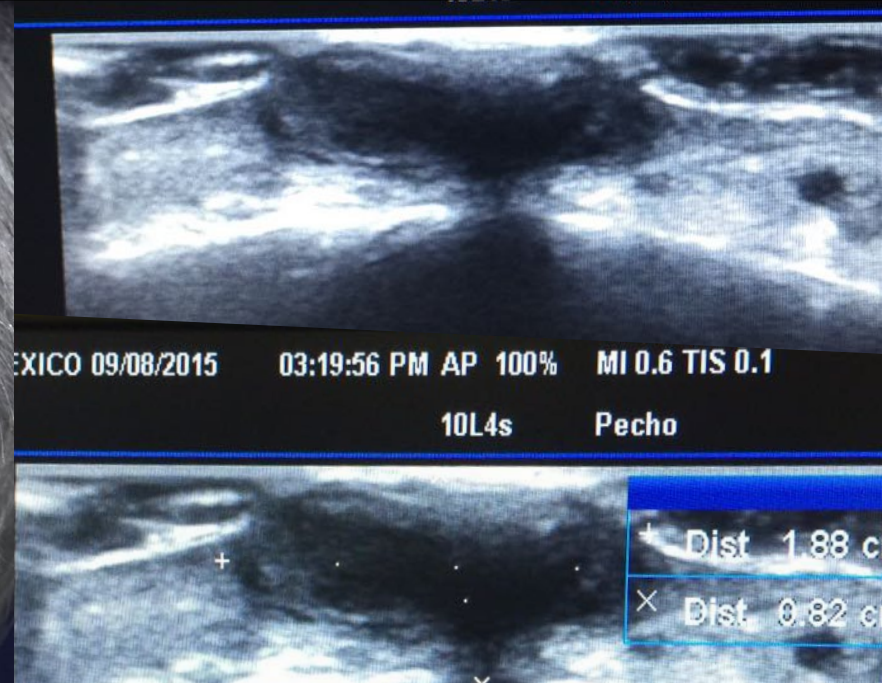
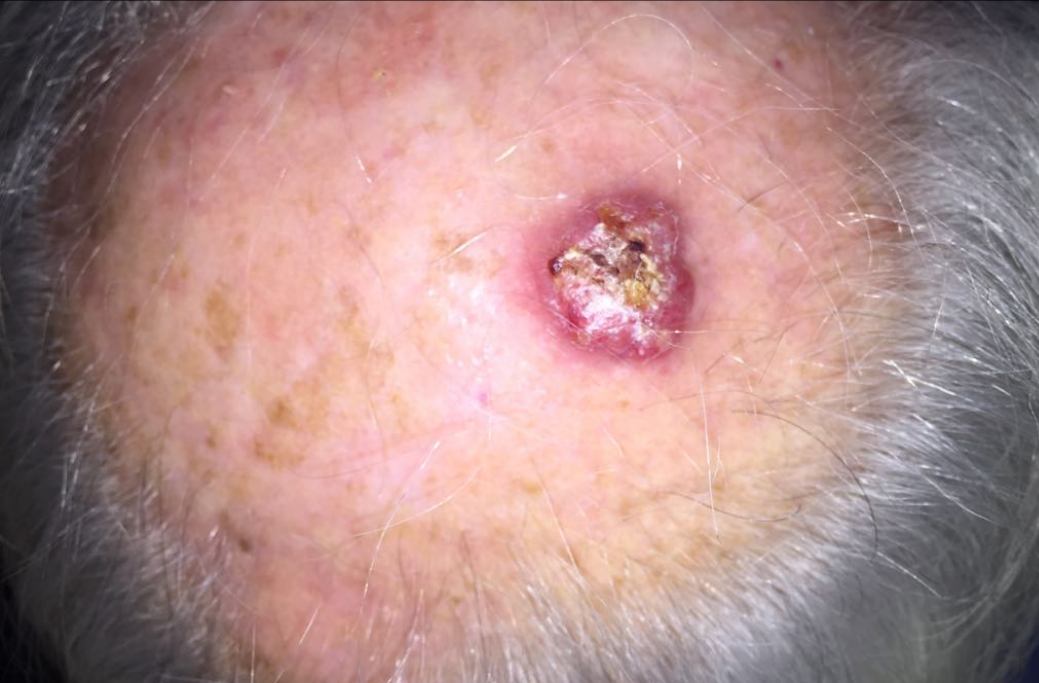


## Better Anatomical Resolution: for better surgery outcome



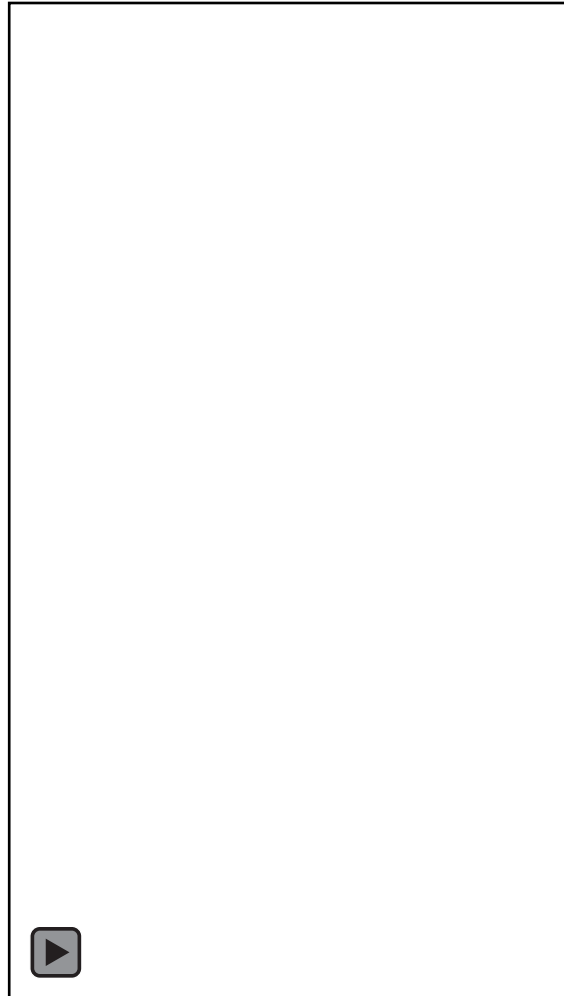
Carcinoma Basocelular Paranasal  
Espesor 1,8 mm  
Diámetro Transverso: 18,9 mm

## Better Anatomical Resolution: for better surgery outcome



Cortesía de la Dra. Lucía Achell

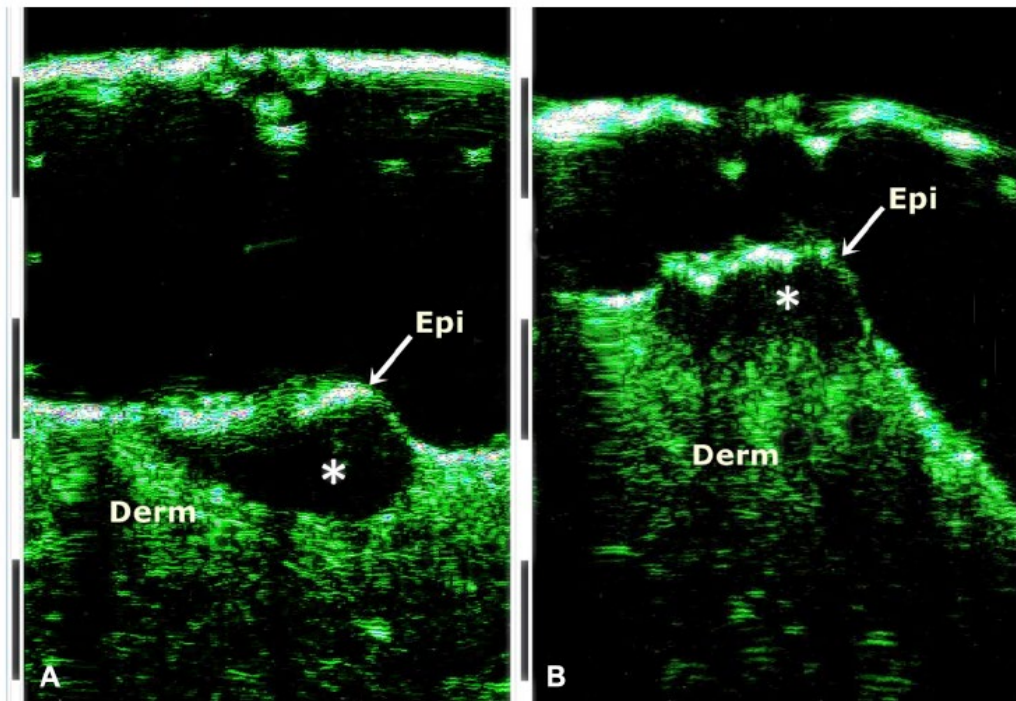
## Better Anatomical Resolution: for better surgery outcome



# Better Anatomical Resolution: for better surgery outcome

1278 Letters

J AM ACAD DERMATOL  
JUNE 2016



**Fig 1.** **A**, In vivo high-frequency ultrasound (HFUS) image of a nodular basal cell carcinoma (BCC); **B**, Ex vivo HFUS image of the same tumor. Note the different tumor shape obtain by ex vivo, well-demarcated hypoechoic tumor (\*), epidermis (*Epi*), dermis (*Derm*), and the free surgical margins.

**Ex vivo high-frequency ultrasound: A novel proposal for management of surgical margins in patients with non-melanoma skin cancer**





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**This Issue**

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**Review**

November 28, 2017

# Hidradenitis Suppurativa Advances in Diagnosis and Treatment

Ditte Marie Lindhardt Saunte, MD, PhD<sup>1</sup>; Gregor Borut Ernst Jemec, MD, DMSc<sup>1</sup>

» [Author Affiliations](#)

JAMA. 2017;318(20):2019-2032. doi:10.1001/jama.2017.16691



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April 17, 2018

# Diagnosis and Treatment of Hidradenitis Suppurativa

Ximena Wortsman, MD<sup>1</sup>

[» Author Affiliations](#)

*JAMA*. 2018;319(15):1617-1618. doi:10.1001/jama.2018.0814



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## Trending

Review

Use of Menopausal Hormone Therapy in

Milàn



# Multicentric Study : Ultrasound is useful for staging and managing HS

## 13 Hospitals from Spain

Fig. 1a. Differences in staging criteria.

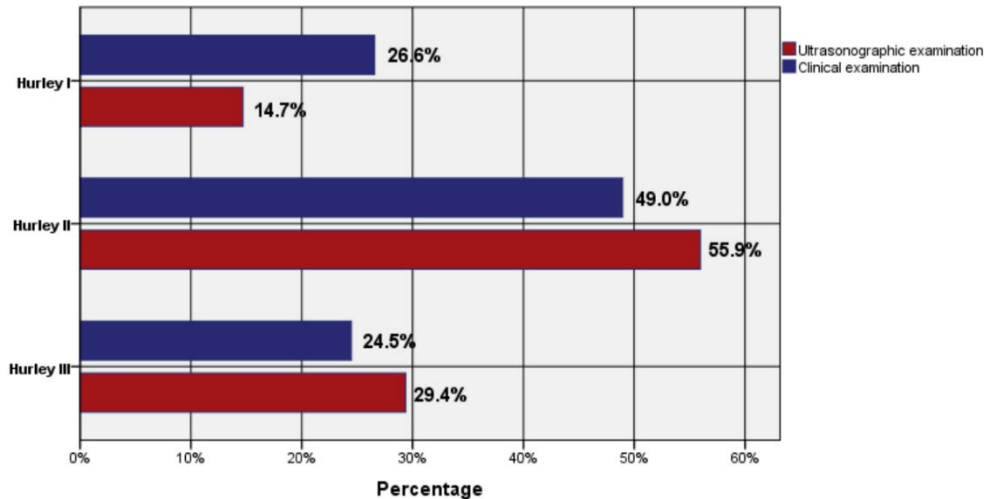


Fig. 1b. Differences in clinical approach.

## Strong Validation of Ultrasound

Table 2. Intra-observer and inter-observer agreement

Clinical vs ultrasonographic examination			
Intra-observed agreement			
ICC	95% CI		P value
0.37	0.11	0.56	<0.01
Ultrasonographic examination			
Intra-observed agreement (blinded reassessment)			
Kappa	SE	P value	
0.95	0.01	<0.01	
External radiologist vs researchers			
Ultrasonographic inter-observed agreement			
Kappa	SE	P value	
0.82	0.09	<0.01	

CI, confidence interval; ICC, intra-class correlation coefficient; SE, standard error.





## Standardization, Staging, Monitoring Activity, Increase of the level of Evidence and Validation

- Ultrasound can detect subclinical information and modify disease management in hidradenitis suppurativa (HS)
- Clinical examination alone can underestimate HS severity
- Ultrasound examination is an essential tool for accurately staging HS