#WCD2019

AEDV HIGHLIGHTS

24th World Congress of Dermatology (WCD)

10-15 JUNIO 2019

Milàn

Patrocina:

janssen Immunology

PHARMACEUTICAL COMPANIES OF Johnson&Johnson

Organiza:

ACADEMIA ESPAÑOLA DE DERMATOLOGÍA Y VENEREOLOGÍA

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Milán

Diagnostic imaging in dermatology: confocal microscopy- clinical implications

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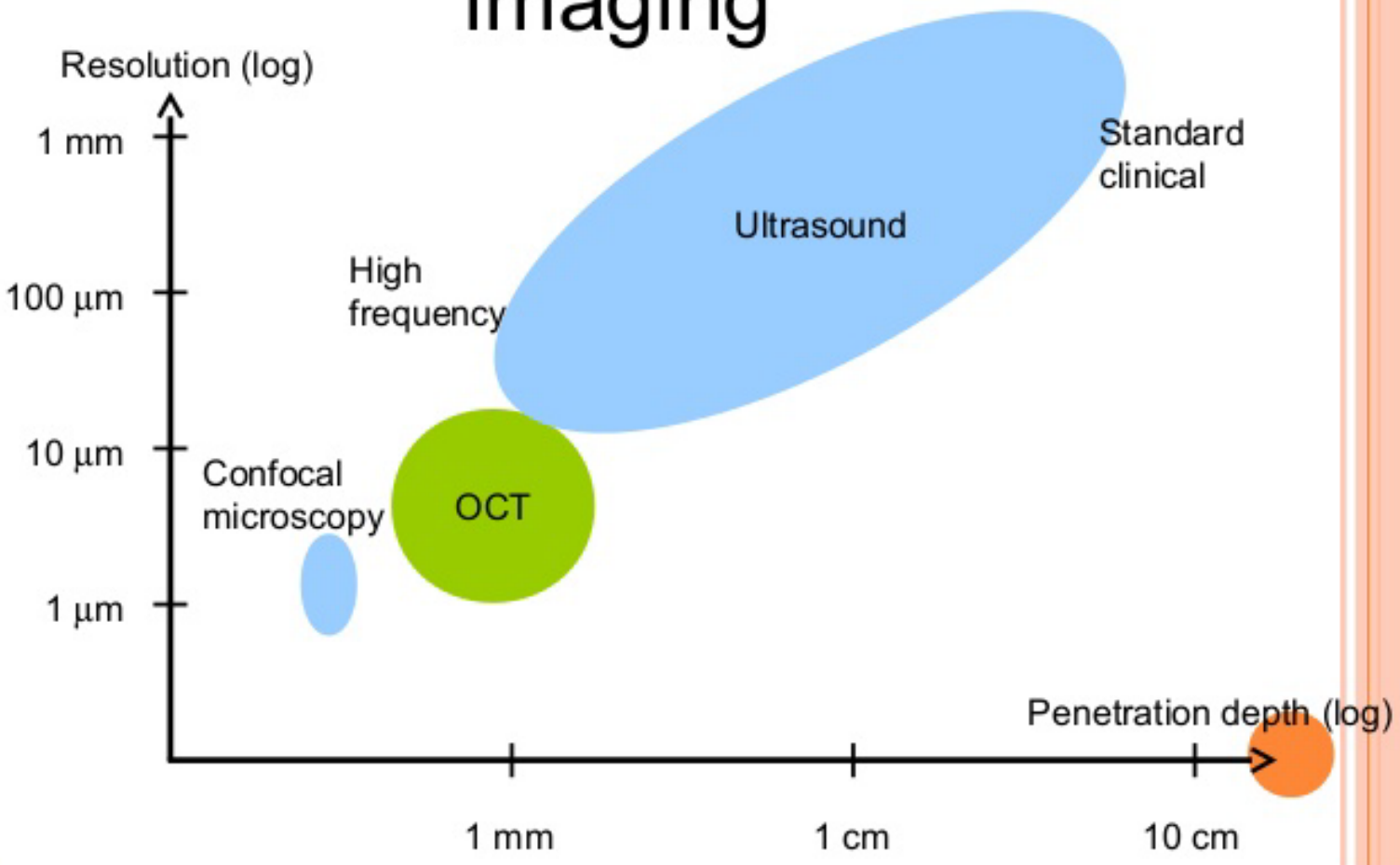
Patrocina: Janssen Immunology, Pharmaceutical companies of Johnson & Johnson

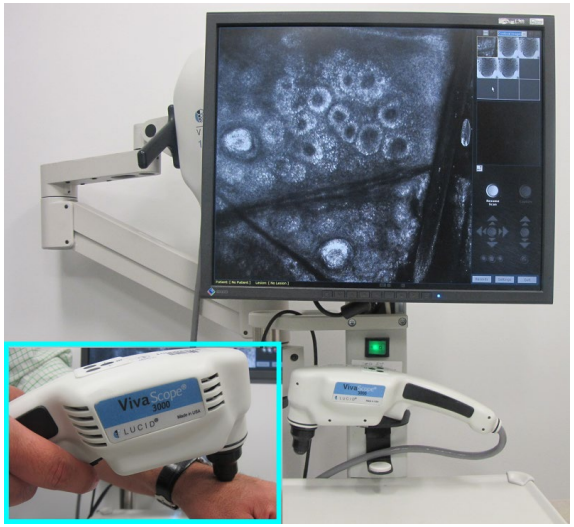
Organiza: Academia Española de Dermatología y Venereología AEDV 1909

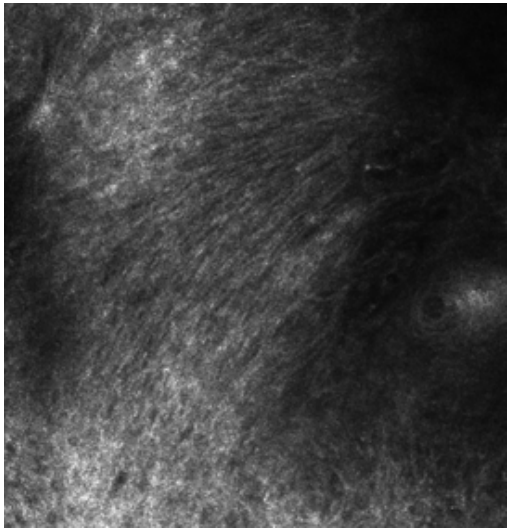
OCT vs. standard imaging

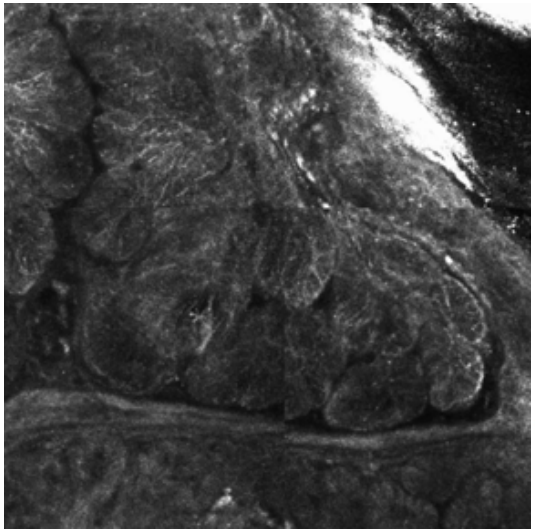


Reflectance Confocal Microscopy

- Non-invasive imaging modality (low-powered laser system)
  - Real-time, cellular-level resolution images
- Can rapidly assess skin in x-y plane and up to 150µm deep into tissue
- Characteristics have been defined for melanoma and NMSC, and other dermatologic conditions







Reflectance confocal microscopy terminology glossary for nonmelanocytic skin lesions: A systematic review

Cristian Navarrete-Dechent, MD,[a,b] Antonio P. DeRosa, MS, MLIS, AHIP,[c] Caterina Longo, MD,[d,e] Konstantinos Liopyris, MD,[b] Margaret Oliviero, ARNP,[f] Harold Rabinovitz, MD,[f] Ashfaq A. Marghoob, MD,[b] Allan C. Halpern, MD,[b] Giovanni Pellacani, MD,[d] Alon Scope, MD,[b,g] and Manu Jain, MD[b]

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Reflectance Confocal Microscopy made easy: the four must-know key features for the diagnosis of melanoma and non-melanoma skin cancers.

Pellacani G[1], Scope A[2], Gonzalez S[3], Guitera P[4], Farnetani F[1], Malvehy J[5], Witkowski A[6], De Carvalho N[7], Lupi O[8], Longo C[9].

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8 Department of Dermatology, Federal University of the State of Rio de Janeiro, Rio de Janeiro, Brazil.
9 Department of Dermatology, University of Modena and Reggio Emilia, Modena, Italy; Azienda Unità Sanitaria Locale - IRCCS di Reggio Emilia, Centro Oncologico ad Alta Tecnologia Diagnostica-Dermatologia, Reggio Emilia, Italy.

- Novice users of RCM may diagnose common skin cancers with reasonable sensitivity (75%) and specificity (91%) by recognizing a shortlist of quintessential RCM features
- This simplified approach may facilitate dissemination of RCM among dermatologists

Pellacani G1, Scope A2, Gonzalez S3, Guitera P4, Farnetani F1, Malvehy J5, Witkowski A6, De Carvalho N7, Lupi O8, Longo C9 Reflectance Confocal Microscopy made easy: the four must-know key features for the diagnosis of melanoma and non-melanoma skin cancers. J Am Acad Dermatol. 2019 Apr 4.

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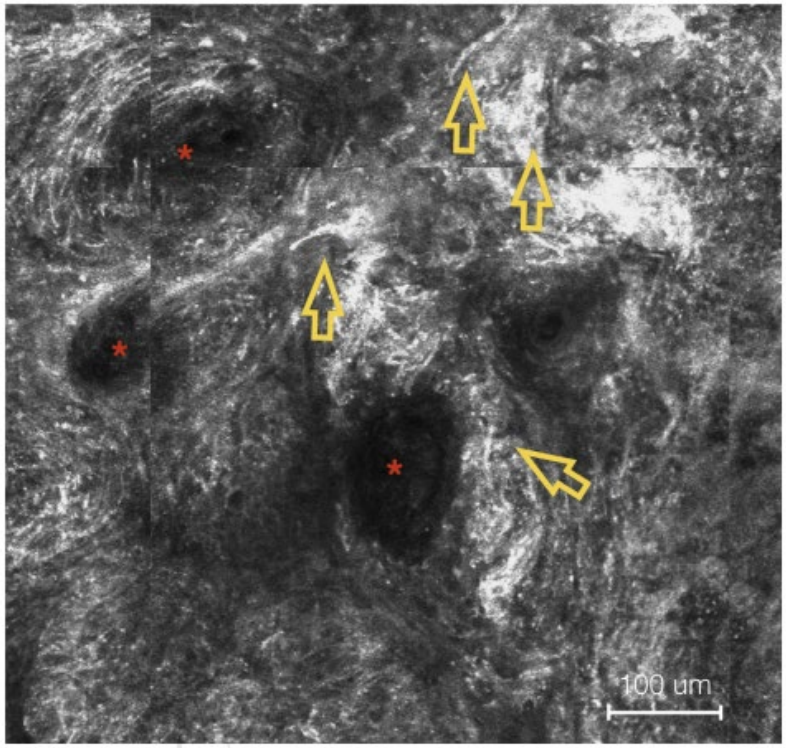
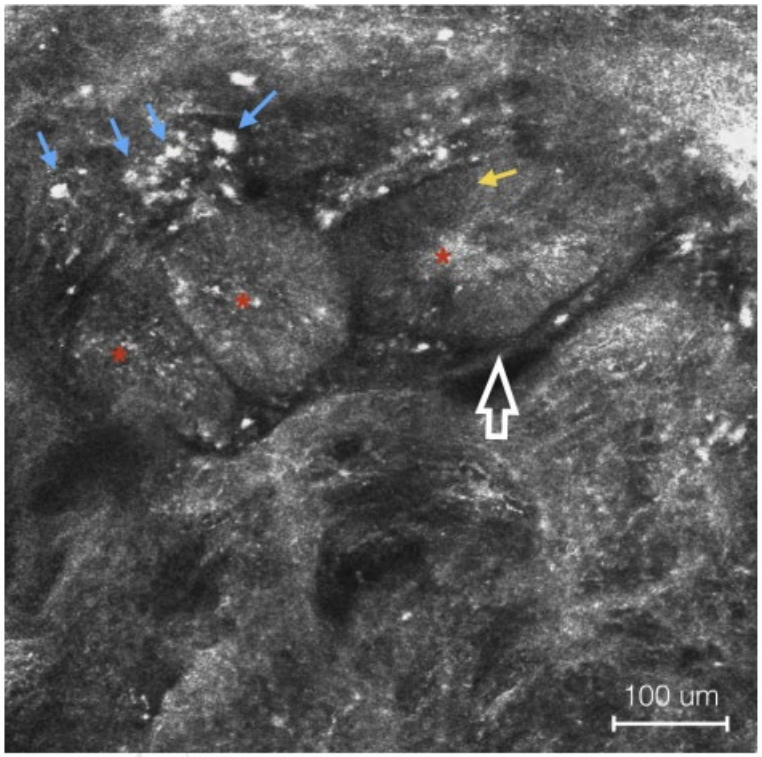
Dermal-epidermal junction (DEJ) Disarray



Basaloid cords/islands



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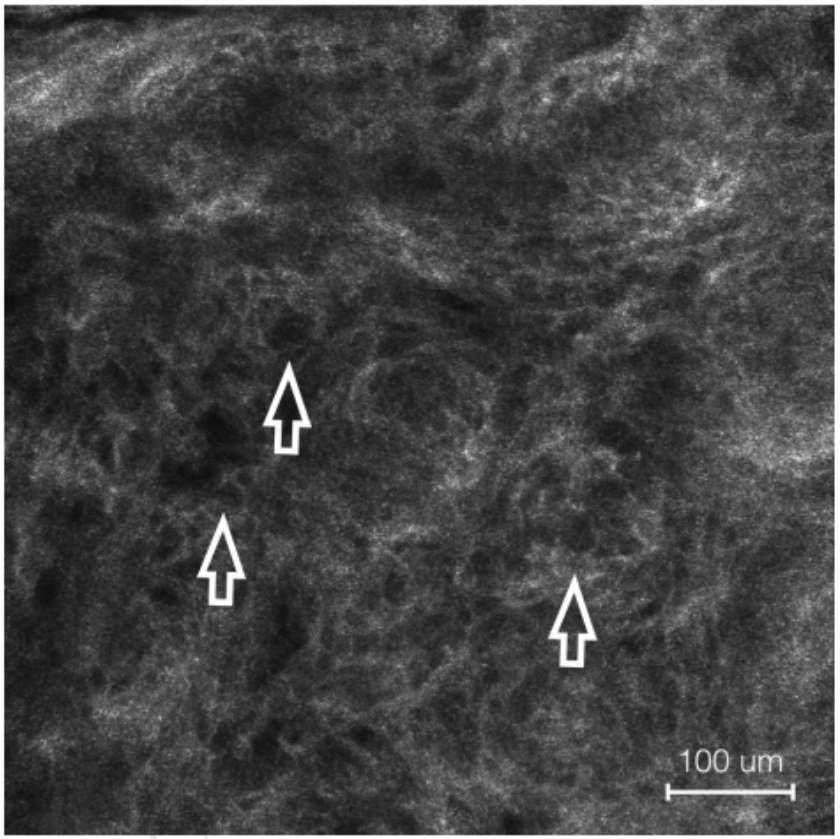
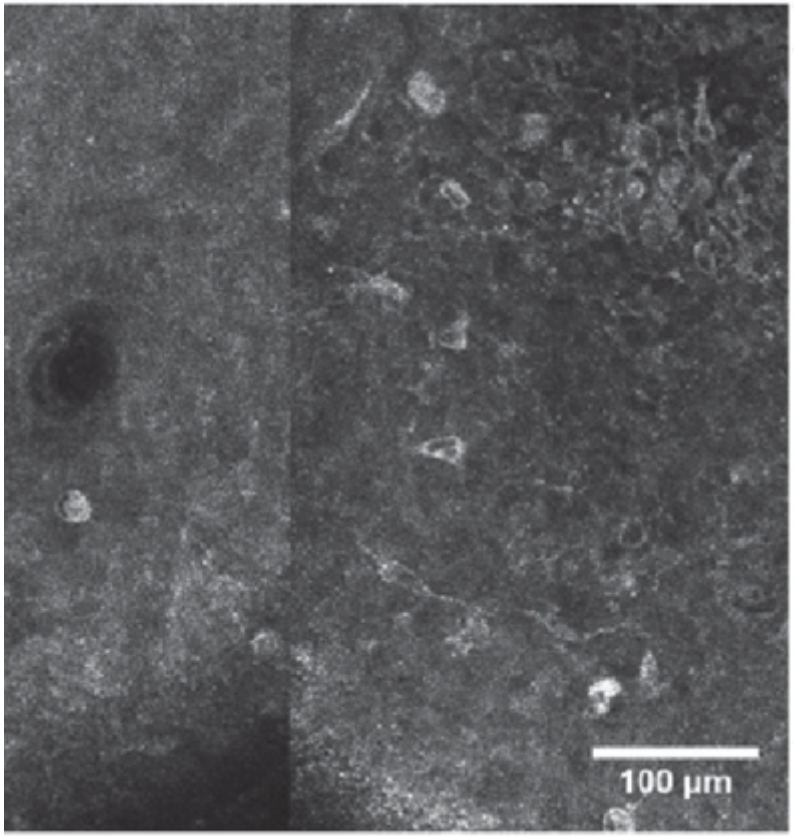
Keratinocyte disarray



Atypical cells



Pellacani G[1], Scope A[2], Gonzalez S[3], Guitera P[4], Farnetani F[1], Malvehy J[5], Witkowski A[6], De Carvalho N[7], Lupi O[8], Longo C[9] **Reflectance Confocal Microscopy made easy: the four must-know key features for the diagnosis of melanoma and non-melanoma skin cancers.** J Am Acad Dermatol. 2019 Apr 4.

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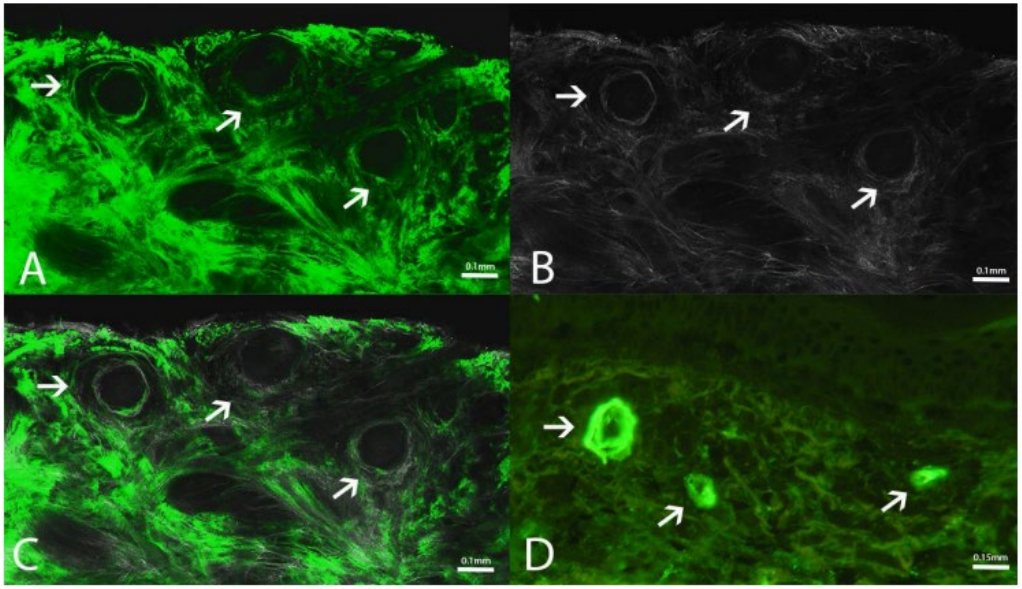
RCM for other skin conditions: vasculitis

- Ex vivo confocal laser scanning microscopy would be an alternative method of diagnosis for vascular immune deposits in patients with vasculitis
- Could identify immune depositions along the vessel walls with vasculitis
- The deposition patterns were homogenous, linear or granular along the vessel wall, similar to those in DIF microscopy
- C3 was the most common immunoreactant deposited in the vessel walls by using both methods, followed by IgM and fibrinogen



Bağcı IS1, Aoki R1, Krammer S1, Ruzicka T1, Sárdy M1,2, Hartmann D1. Ex vivo confocal laser scanning microscopy: An innovative method for direct immunofluorescence of cutaneous vasculitis. J Biophotonics. 2019 Apr 25:e201800425.

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