

Supplement 22 | Dermoscopy

WG-19 DERMATOLOGY

FIRST READ

LIAM CAFFERY

JANUARY 2020

Dermoscopy imaging devices

- Smartphone attached
- Camera attached
- Dedicated imaging systems



COPYRIGHT DICOM® 2019



Imaging techniques

Light: LED +
polarized filters
to achieve **cross-
polarization**

Polarized light
dermoscopy
(PD)

Non-polarized
light dermoscopy
(NPD)

Light: LED

Technique

Non-
Contact
(PNCD)

Contact
(PCD)

Contact
(NPCD)

Non-contact does not require
direct contact with the skin

Direct contact of the glass plate
with the skin surface
+ **liquid interface**

Non-contact dermoscopy

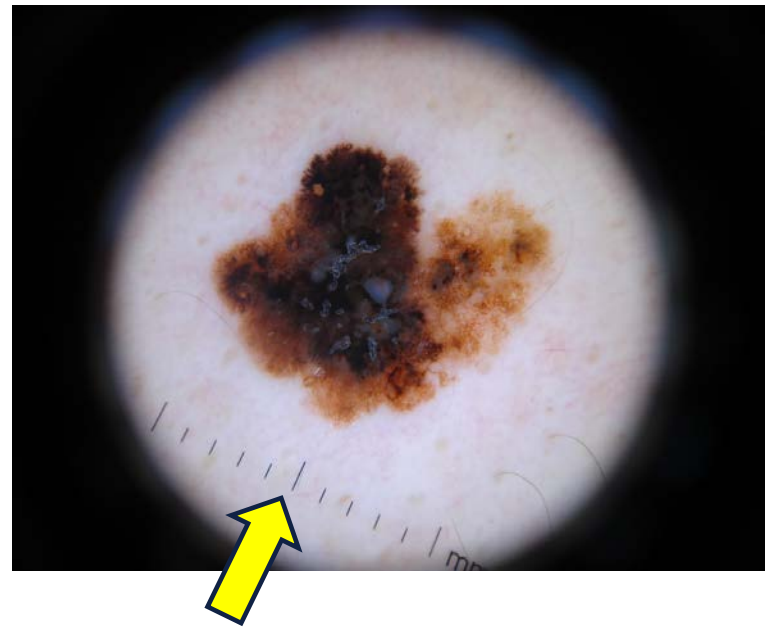
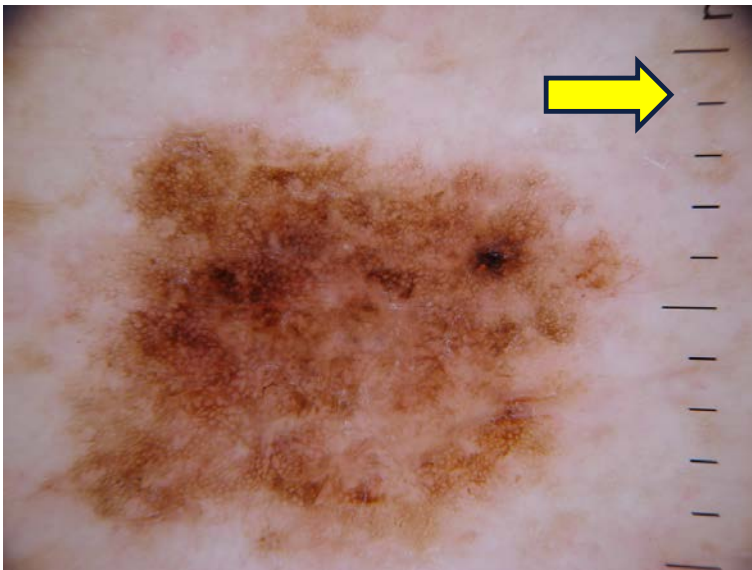
Glass plate for
contact dermoscopy



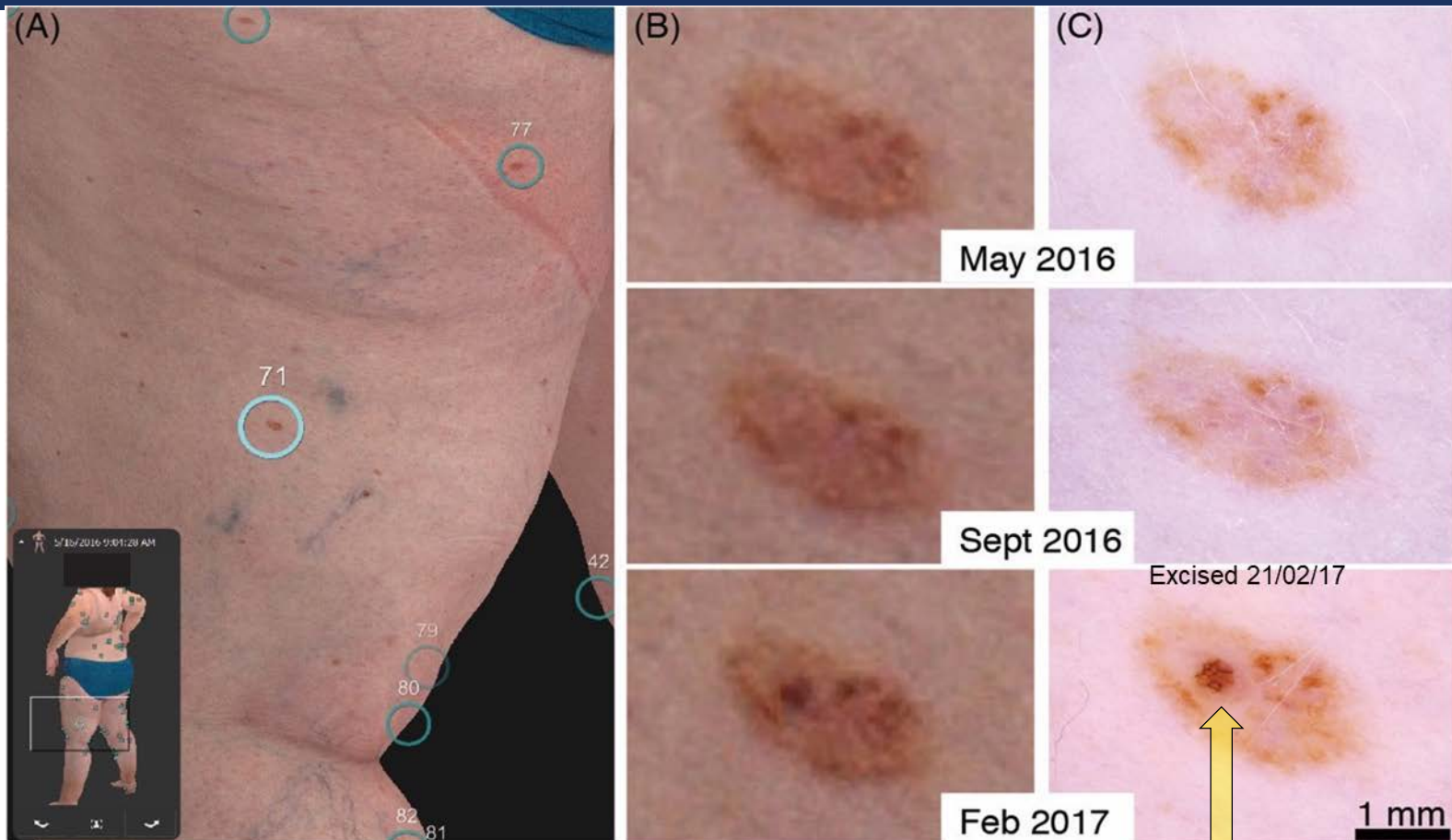
Fixed distance device
for non-contact
dermoscopy



Images



Sequential dermoscopy



Dermoscopy supplement

- Dermoscopy Photography IOD
 - Dermoscopic Image Module
 - ~6 new DICOM attributes
- Dermoscopic Photography Image Storage SOP class
- Skin Cancer Acquisition Context Template

Issues

