Supplement 221 Dermoscopy

WG-19 DERMATOLOGY
PUBLIC COMMENT
APRIL 2020

Scope - Dermoscopy imaging devices

- Smartphone attached
- Camera attached
- Dedicated imaging systems
Acquisition parameters - Imaging techniques

- **Light:** LED + polarized filters to achieve cross-polarization
- **Technique:**
  - Polarized light dermoscopy (PD)
  - Non-polarized light dermoscopy (NPD)
  - 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.

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Acquisition parameters

- Polarization
- Emitter Color Temperature
- Contact Method
- Immersion Media
- Optical Magnification Factor
- Lesion Coverage (full versus partial)
Measurements

Glass plate for contact dermoscopy

Fixed distance device for non-contact dermoscopy
Sequential dermoscopy – Lesion Tracking

Tracking ID: Lesion 2
Tracking UID: 1.2.4.5.100086.1.2.1.6

Skin Cancer Acquisition Context

- Fitzpatrick skin type
- Race
- History of malignant melanoma / melanoma in situ / non-melanoma skin cancer
- Family history
- Finding reported by patient (itchy, change)
- Palpation (firm, raised)
- Observation (bleeding)
- Treatment history (cryotherapy, biopsy, photodynamic)
Use case – Linking dermoscopic and regional image

Use case – Longitudinal lesion tracking workflow

DICOM Structured Reporting Object