



DERMOSCOPY AND SKIN IMAGING

## DERMATOSCOPIC IMAGE ANALYSIS PRECISION BETWEEN THE LATVIAN DERMATOLOGISTS

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**Introduction:** Dermoscopy is an inexpensive, in vivo and non-invasive technique that permits the visualization of morphologic features that are not visible to the naked eye.

**Objective:** Collect data on dermatoscopic image recognition among Latvian dermatologists.

**Materials and Methods:** The research data were obtained by analyzing the questionnaire results. Selected 60 dermatoscopic images with different skin lesions from a dermatologist Raimond Karl archive. It was designed electronic questionnaire Monkey Survey system, which was electronically sent to all Latvian dermatologists and residents.

**Results:** Interpretation of the data we have to conclude that all of the dermatoscopy images better recognize malignant tumors 77.8%, precancerous 74.1% and benign tumors in 64.4%. The highest number of correct answers 48.2 from 60 dermatoscopic images are dermatologist whose practice in dermatology is 11-15 years. Doctors with experience in more than 25 years shows all the worst results in just 35.4 correct answers. More than 10 years of experience in dermatoscopy is only 3 out of 45 doctors with correct 55.7 cases. Experienced in dermatoscopy less than 5 years used by 22 doctors, which constitutes 39.2 correct answers. Of all 45 dermatologists, yourself as an expert in dermatoscopy considers only three doctors and it correlates well with the highest number of correct answers, constituting 54.33 cases. Dermatologists who do not have the experience shows the lowest results, number of correct answers is only 32 cases

**Conclusions:** Latvian dermatologists everything worse detects benign skin tumors 64.4% and better are recognized malignant tumor 77.8%. Only half of the dermatologists recognize early stage melanoma and Morbus Bowen, as a result of patients not start timely treatment. Many benign lesions, such as the blue nevus is recognized as malignant tumor, and are carried out unnecessary lesions excision or biopsy.

