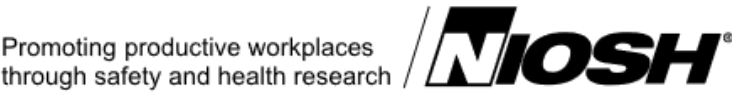




The National Institute for Occupational Safety and Health (NIOSH)



Application of the ILO International Classification of Radiographs of Pneumoconioses to Digital Chest Radiographic Images

NIOSH PerspectiveILO PerspectiveILO Perspective

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A NIOSH Scientific Workshop

Workshop Overview

On March 12–13, 2008, the National Institute of Occupational Safety and Health (NIOSH) of the Centers for Disease Control and Prevention (CDC) hosted a workshop to address issues for classifying digital chest radiographs for patients with pneumoconioses. The international group of scientists in attendance heard from representatives of the International Labour Organization (ILO), NIOSH, and academia. Expert presenters described current and future issues in digital radiography, especially as they relate to classification. The workshop participants broke into smaller groups to discuss (1) image acquisition, (2) image presentation, and (3) file interchange, and to develop recommendations for advancing digital classification for pneumoconioses.



Workshop Summary (workshopsummary.pdf [PDF – 129 KB])

Introductory Presentations

Presentation Title	Presentation PDF	Speaker
ILO Perspective	ILO Perspective [PDF – 386 KB]	Igor Fedatov, MD
NIOSH Perspective	NIOSH Perspective [PDF – 459 KB]	Edward L. Petsonk, MD
ACR Perspective	ACR Perspective [PDF – 806 KB]	Daniel Henry, MD

Main Topics

Manuscript Title	Manuscript PDF	Presentation PDF	Author
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Manuscript Title	Manuscript PDF	Presentation PDF	Author
Standardizing file formats, security, and integration of digital chest image files for pneumoconiosis classification	Standardizing file formats, security, and integration of digital chest image files for pneumoconiosis classification [PDF – 56 KB]	Standardizing file formats, security, and integration of digital chest image files for pneumoconiosis classification [PDF – 3.3 MB]	David Clunie, MD
Image presentation: Implications of Processing and Display	Image presentation: Implications of Processing and Display [PDF – 2.1 MB]	Image presentation: Implications of Processing and Display [PDF – 6.4 MB]	Michael Flynn, PhD
Comparison of Digital Radiographs with Film-Screen Radiographs for Classification of Pneumoconiosis	Comparison of Digital Radiographs with Film-Screen Radiographs for Classification of Pneumoconiosis [PDF – 73 KB]	Comparison of Digital Radiographs with Film-Screen Radiographs for Classification of Pneumoconiosis [PDF – 97 KB]	Alfred Franzblau, MD
Acquisition of digital chest images for pneumoconiosis classification: Methods, procedures, and hardware	Acquisition of digital chest images for pneumoconiosis classification: Methods, procedures, and hardware [PDF – 345 KB]	Acquisition of digital chest images for pneumoconiosis classification: Methods, procedures, and hardware [PDF – 1.8 MB]	Ehsan Samei, PhD
Assuring image quality for classification of digital chest radiographs	Assuring image quality for classification of digital chest radiographs [PDF – 285 KB]	Assuring image quality for classification of digital chest radiographs [PDF – 3.2 MB]	Ehsan Samei, PhD
CR and FPD DR chest radiographic image parameters for the pneumoconioses: the Japanese approach and experience	CR and FPD DR chest radiographic image parameters for the pneumoconioses: the Japanese approach and experience [PDF – 192 KB]	CR and FPD DR chest radiographic image parameters for the pneumoconioses: the Japanese approach and experience [PDF – 2.1 MB]	Narufumi Suganuma, MD, PhD

Group Discussions

Group Topic	Mediator
Acquisition and QC for classification of digital chest radiographs: Group discussion and outcome	Ehsan Samei, PhD
File Interchange Subgroup: Recommendations	David A. Clunie, MD