




The National Institute for Occupational Safety and Health (NIOSH)

 Promoting productive workplaces
through safety and health research 

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

NIOSH Perspective ILO Perspective ILO Perspective

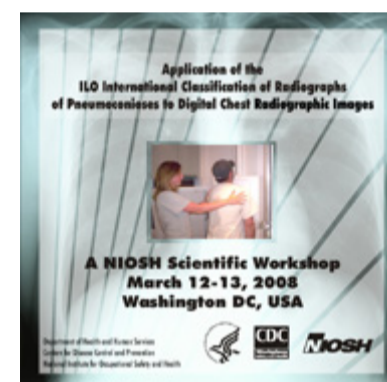
DHHS (NIOSH) PUBLICATION NUMBER 2008-139

JULY 2008

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 |
|------------------|----------------|------------------|--------|
|------------------|----------------|------------------|--------|

| 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 |

Last Reviewed: June 6, 2014