

Roentgenographic Interpretation

U.S. DEPARTMENT OF LABOR
OFFICE OF WORKERS' COMPENSATION PROGRAMS
DIVISION OF COAL MINE WORKERS' COMPENSATION



Note: This report is authorized by law (30 USC 901 et. seq.) and required to obtain a benefit. The results of this interpretation will aid in determining the miner's eligibility for black lung benefits. Disclosure of a Social Security number is voluntary.

OMB No. 1240-0023
Expires: XX-XX-XXXX

Please record your interpretation of a single film by placing "X" in the appropriate boxes on the form and return it promptly to the office that requested the interpretation. The form must be completed as per instructions, signed by a physician, and contain the miner's name, and social security number. The Department of Labor will pay only for films of acceptable quality (1, 2 and 3). Films of inferior quality (U/R) must be retaken without cost to the Department.

1. Miner's Name (Print)
1A. Date of X-Ray
1B. Miner's Social Security Number
1C. Film Quality (if not Grade 1. Give Reason):

1D. Is Film Completely Negative?
2A. Any Parenchymal Abnormalities Consistent with Pneumoconiosis?

2B. Small Opacities Consistent With Pneumoconiosis
a. SHAPE/SIZE
b. ZONES
c. PROFUSION
2C. Large Opacities Consistent With Pneumoconiosis

3A. ANY PLEURAL ABNORMALITIES
CONSISTENT WITH PNEUMOCONIOSIS?

3B. PLEURAL PLAQUES (mark site, calcification, extent and width)
Chest Wall
Site
Calcification
Extent (chest wall; combined for in profile and face on)
Width (in profile only)

3C. COSTOPHRENIC ANGLE OBLITERATION

3D. DIFFUSE PLEURAL THICKENING (mark site, calcification, extent, and width)
Chest wall
Site
Calcification
Extent (chest wall, combined for in profile and face on)
Width (in profile only)

4A. ANY OTHER ABNORMALITIES?

4B. OTHER SYMBOLS (OBLIGATORY)
aa at ax bu ca cg cn co cp cv di ef em es fr hi ho id ih kl me pa pb pi px ra rp tb

REPORT ITEMS WHICH MAY BE OF PRESENT CLINICAL SIGNIFICANCE IN THIS SECTION
OD (Specify od) Date Personal Physician notified? M o. D ay Y r.

4C OTHER COMMENTS
SHOULD WORKER SEE PERSONAL PHYSICIAN BECAUSE OF COMMENTS IN SECTION 4C?

5A. FACILITY PROVIDING ROENTGENOGRAPHIC EXAMINATION:
DOL Medical Provider Number (if applicable):
Was film taken by a registered radiographer/radiographic technologist?
Name Registration No. State

5B. Physician Interpreting Film (Print Name):
Are you: Board-Certified Radiologist? Board-eligible radiologist? B-reader?

5C. I certify that this film has been interpreted in accordance with the instructions provided on Form CM-954a and/or 20 CFR 718. Subpart B, 718.102 and Appendix A. I also certify that the information furnished is correct and am aware that my signature attests to the accuracy of the results reported.

PHYSICIAN'S SIGNATURE DATE OF READING (Mo., Day, Yr.)

Public Burden Statement

We estimate that it will take an average of 5 minutes to complete this information collection, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information.

DO NOT SEND THE COMPLETED FORM TO THIS OFFICE

NOTE: Persons are not required to respond to this collection of information unless it displays a currently valid OMB control number.

For Purpose of Coding for the Department of Labor, the following codes will be used
ILO 2000 INTERNATIONAL CLASSIFICATION OF RADIOGRAPHS OF THE PNEUMOCONIOSES

| FEATURES | | CODES | DEFINITIONS | |
|--|---|--|--|---|
| Technical Quality | | 1 2 3 4 | Good Acceptable, with no technical defect likely to impair classification of the radiograph for pneumoconiosis. Poor, with some technical defect but still acceptable for classification purposes. Unacceptable. | |
| Parenchymal Abnormalities Small Opacities | Profusion | 0/- 0/0 0/1 1/0 1/1 1/2 2/1 2/2 2/3 3/2 3/3 3/+ | The category of profusion is based on the assessment of concentration of opacities by comparison with the standard radiographs. Category 0 – small opacities absent or less profuse than the lower limit of Category 1. Categories 1, 2 and 3 – represent increasing profusion of small opacities as defined by the corresponding standard radiographs. | |
| | Extent | RU RM RL LU LM LL | The zones in which the opacities are seen are recorded. The right (R) and left (L) thorax are both divided into three zones – upper (U), middle (M) and lower (L). | |
| | Shape and Size rounded | p/p q/q r/r | The category of profusion is determined by considering the profusion as a whole over the affected zones of the lung and by comparing this with the standard radiographs. The letters p, q, and r denote the presence of small rounded opacities. Three sizes are defined by the appearances on standard radiographs. p = diameter up to about 1.5 mm. q = diameter exceeding about 1.5 mm and up to about 3 mm. r = diameter exceeding about 3 mm and up to about 10 mm. | |
| | irregular | s/s t/t u/u | The letters s, t and u denote the presence of small irregular opacities. Three sizes are defined by the appearance on standard radiographs. s = width up to about 1.5 mm. t = width exceeding about 1.5 mm and up to about 3 mm. u = width exceeding 3 mm and up to about 10 mm. | |
| | mixed | p/s p/t p/u p/q p/r q/w q/t q/u q/p q/r r/s r/t r/u r/p r/q s/p s/q s/r s/t s/u t/p t/q t/r t/s t/u u/p u/q u/r u/s u/t | For mixed shapes (or sizes) of small opacities the predominant shape and size is recorded first. The presence of a significant number or another shape and size is recorded after the oblique stroke. | |
| Large Opacities | | A B C | The categories are defined in terms of dimensions of the opacities. Category A – an opacity having a greatest diameter exceeding about 10 mm and up to and including 50 mm, or several opacities each greater than about 10 mm, the sum of whose greatest diameters does not exceed 50 mm. Category B – one or more opacities larger or more numerous than those in category A whose combined area does not exceed the equivalent of the right upper zone. Category C – one or more opacities whose combined area does not exceed the equivalent of the right upper zone. | |
| Pleural Abnormalities | | | Two types of pleural thickening of the chest wall are recognized: circumscribed (plaques) and diffuse. Both types may occur together. | |
| Pleural Thickening Chest Wall | Type | | | |
| | Site | R L | Pleural thickening of the chest wall is recorded separately for the right (R) and left (L) thorax. | |
| | Width | A B C | For pleural thickening seen along the lateral chest wall the measurement of maximum width is made from the inner line of the chest wall to the inner margin of the shadow seen most sharply at the parenchymal-pleural boundary. The maximum width usually occurs at the inner margin of the rib shadow at its outermost point. a = maximum width up to about 5 mm. b = maximum width over about 5 mm and up to about 10 mm. c = maximum width over about 10 mm. | |
| | Face On | Y N | The presence of pleural thickening seen face-on is recorded even if it can be seen also in profile. If pleural thickening is seen face-on only, width can not usually be measured. | |
| | Extent | 1 2 3 | Extent of pleural thickening is defined in terms of the maximum length of pleural involvement, or as the sum of maximum lengths, whether seen in profile or face-on. 1 = total length equivalent up to one quarter of the projection of the lateral chest wall. 2 = total length exceed one quarter but not one half of the projection of the lateral chest wall. 3 = total length exceeding one half of the projection of the lateral chest lateral chest wall | |
| Diaphragm | Presence | Y N | A plaque involving the diaphragmatic pleura is recorded as present (Y) or absent (N) separately for the right (R) or left (L) thorax. | |
| Costophrenic Angle | Site | R L | The presence (Y) or absence (N) costophrenic angle obliteration is recorded separately from thickening over other areas for the right (R) and left (L) thorax. The lower limit for the obliteration is defined by a standard radiograph. | |
| | Presence | Y N | If the thickening extends up the chest wall then both costophrenic angle obliteration and pleural thickening should be recorded. | |
| Pleural Calcification | Site | R L | The site and extent of pleural calcification are recorded separately for the two lungs, and the extent defined in terms of dimensions. | |
| | Site chest wall diaphragm other | R L R L R L | "Other" includes calcification of the mediastinal and pericardial pleura. | |
| | extent | 1 2 3 | 1 = an area of calcified pleura with greatest diameter up to about 20 mm or a number of such areas the sum of whose greatest diameters does not exceed about 20 mm. 2 = an area of calcified pleura with greatest diameter exceeding about 20 mm and up to about 100 mm, or a number of such areas the sum of whose greatest diameters exceed about 20 mm but does not exceed about 100 mm. 3 = an area of calcified pleura with greatest diameter exceeding about 100 mm or a number of such area whose sum of greatest diameters exceeds about 100 mm. | |
| | | | | It is to be taken that the definition of such of the Symbols is preceded by an appropriate word or phrase such as "suspect", "pneumoconiotic changes suggestive of", or "opacities suggestive of", etc. |
| Symbols | | | | |
| aa | - atherosclerotic | | hi | - enlargement of hilar or mediastinal lymph nodes |
| at | - significant apical pleural thickening | | ho | - honeycomb lung |
| ax | - coalescence of small pneumoconiotic opacities | | id | - ill defined diaphragm |
| bu | - bulla(e) | | ih | - ill defined heart outline |
| ca | - cancer of lung or pleura | | kl | - septal (kerley) lines |
| cg | - calcified non-pneumoconiotic opacities | | me | - mesothelioma |
| cn | - calcification in small pneumoconiotic opacities | | pa | - plate atelectasis |

co - abnormality of cardiac size or shape
 cp - cor pulmonale
 cv - cavity
 di - marked distortion of the intrathoracic organs
 ef - effusion
 em - definite emphysema
 es - eggshell calcification of hilar or mediastinal lymph nodes
 fr - fractured rib(s) (acute or healed)

pb - parenchymal bands
 pi - pleural thickening in the interlobar fissure
 px - pneumothorax
 ra - rounded atelectasis
 rp - rheumatoid pneumoconiosis
 tb - tuberculosis
 od - other significant abnormality

| Comments | Presence | Y | N |
|----------|----------|---|---|
|----------|----------|---|---|

Comments should be recorded pertaining to the classification of the radiograph particularly if some other cause is thought to be responsible for a shadow.