

Reference-CT's:

I. Parenchyma:

Film		Main Feature	Additional Finding
1	R 0 / Irr 0	No rounded or irregular opacities	None
2	R 0 / Irr 0	No rounded or irregular opacities	Pleural thickening with calcification, parietal type
3	R 0 / Irr 0	No rounded or irregular opacities	Pleural thickening (parietal type) with calcification, extrapleural fat
4	R Gr 1 Q	Rounded, well defined opacities, mainly Q, Grade 1	“Pseudoplaques” = pleural based silicotic nodules, mild mosaic perfusion
5	R Gr 2 P	Rounded, well defined opacities, mainly P, Grade 2	Bronchiectasis left, artefacts left
6	R Gr 2 Q	Rounded, well defined opacities, mainly Q, Grade 2	Large opacity due to silicosis, AX, calcified nodules, “Pseudoplaques”
7	Irr Gr 1	Inter- and intralobular opacities, Grade 1	Pleural thickening, visceral type, SC
8	Intralobular Gr 2	Intralobular opacities, Grade 2	Mainly intralobular, minimal interlobular opacities, localized honeycombing, mild subpleural emphysema
9	Irr Gr 2	Intra- and interlobular opacities, Grade 2	Pleural fibrosis (visceral type), very extensive, (= hyalinosis complicata); MP;
10	GGO Gr 1	Ground Glass Opacity Grade 1, focal distribution	Thickening of pleura and interlobar fissure
11	GGO Gr 2	GGO Grade 2, patchy distribution	Honeycombing (HC) Grade 2 posteriorly, PB, centrilobular opacities, pleural thickening
12	GGO Gr 3	GGO Grade 3, wide spread distribution	HC Grade 2-3, pleural thickening due to fibrosis

Order of Reference-Film(sketch on CD fecit H. Itoh):

1 – R 0 / Irr 0	2 – R 0 / Irr 0	3 – R 0 / Irr 0
4 – R Gr 1 Q	5 – R Gr 2 P	6 – R Gr 2 Q
7 – Irr Gr 1	8 – Intralobular ,Gr 2	9 – Irr Gr 2
10 – GGO Gr 1	11 – GGO Gr 2	12 – GGO Gr 3

II. Honeycombing, Emphysema, Symbols:

Film		Main Feature	Additional Finding
1	HC Gr 1	Honeycombing Grade 1= mild = up to 10 mm in the subpleural region	Intralobular, dotlike opacities, mild subpleural emphysema
2	HC Gr 2	Honeycombing Grade 2 = moderate = >10 up to 30 mm in the subpleural space	Intralobular, dotlike opacities, focal distribution of Ground Glass Opacity (GGO), pleural thickening due to fibrosis
3	HC Gr 3	Honeycombing Grade 3 = severe = >30 mm up to whole area	focal distribution of Ground Glass Opacity (GGO), pleural thickening due to fibrosis,
4	EM Gr1	Subpleural and centrilobular emphysema Grade 1= mild = up to 15 % of the area	some intra- and interlobular opacities
5	EM Gr 2	Panlobular and subpleural emphysema, Grade 2 = moderate = between 15 to 30 %	pleural thickening due to mild fibrosis
6	EM Gr 3	Panlobular and subpleural emphysema, Grade 3 = severe = > 30 %	some intra- and interlobular opacities
7			
8	Large Opacity –B	Diameter of one or sum of more opacities larger than „A“, less than ½ of the area (2 quadrants) of the right side of the CT-slice at the carina	Coalescence (AX), Distortion (DI), paracicatricial emphysema, calcified lymph nodes, MP
9			
10			
11			
12			

Order of Reference-Film(sketch on CD fecit H. Itoh):

1 – HC Gr 1	2 – HC Gr 2	3 – HC Gr 3
4 – EM Gr1	5 – EM Gr 2	6 – EM Gr 3
7	8 – Large Opacity –B	9
10	11	12

III. Pleural findings:

Film	Main Feature	Additional Finding
1	Hyaline Plaque, parietal type Extent 1, right side, Width "a", < 5 mm	None
2	Hyaline Plaques, parietal type Extent 1, right and left side, Width "b", > 5 mm	No parenchymal reactions
3	Hyaline Plaques, parietal and visceral type Hyaline plaques with calcification and parenchymal reaction Extent 2, right side, Width "c" Extent 3, left side, Width "c"	PB in combination with visceral type of pleural abnormality, calcification both sides at the wall (W)
4-6	Pleural abnormalities, Extent Film 4 – R 1/c, L 1/c par.type Film 5 – R 2/c visc.type, L 2/c par. Film 6 – R 2/c v.+ p.t. L 3/c v.+ p.t.	PB, parietal and visceral type, calcification (W), see text
7-9	Pleural abnormalities, Extent Film 7 – R 1/a v. + p.t. L 1/b p.t. Film 8 – R 2/b p.t. L 1/b v. + p.t. Film 9 – R 1/c p.t. L 2/c p.t	PB, parietal and visceral type, calcification (W), see text. # 8 – interlobar plaque?
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12		

Order of Reference-Film(sketch on CD fecit H. Itoh):

1 – Hyaline Plaque, parietal type	2 – Hyaline Plaques, parietal type	3 – Hyaline Plaques, parietal and visceral type
4 – Extent– R 1/c, L 1/c par.type	5 – Extent– R 2/c visc.type, L 2/c par.	6 - Extent– R 2/c v.+ p.t. L 3/c v.+ p.t
7 – Extent– R 1/a v. + p.t. L 1/b p.t.	8 - Extent– R 2/b p.t. L 1/b v. + p.t.	9 – Extent– R 1/c p.t. L 2/c p.
10	11	12

IV: Additional findings, Symbols

Film		Main Feature	Additional Finding
1	AX	Coalescence of silicotic nodules	Rounded opacities P and Q, Pseudoplaques, Distortion (DI), mild paracicatricial emphysema
2	BE	Bronchiectasis	None
3	BU	Bulla	Subpleural type of emphysema, visceral type of pleural abnormalities, PB
4	CA	Large Opacity, size A, Rule out carcinoma or metastasis!	Centrilobular and pleural based opacities; pleural abnormality?
5	MP	Mosaic Perfusion	Centrilobular dotlike lesions, consolidation
6	TB	Tuberculosis	Bronchiectasis (BE); Distortion (DI); paracicatricial emphysema
7	RA	Rounded Atelectasis	Visceral type of pleural abnormalities; Calcification of the pleura and the diaphragm
8	PB	Parenchymal Band	Parietal and visceral type of pleural abnormalities, intralobular opacities
9	FP	Fat Pad	None
10	TD	Tree in Bud	Extensive disease, differential diagnostic considerations should be mentioned
11			
12			

Order of Reference-Film(sketch on CD fecit H. Itoh):

1 – AX	2 – BE	3 – BU
4 – CA	5 – MP	6 – TB
7 – RA	8 – PB	9 – FP
10 – TD	11	12