

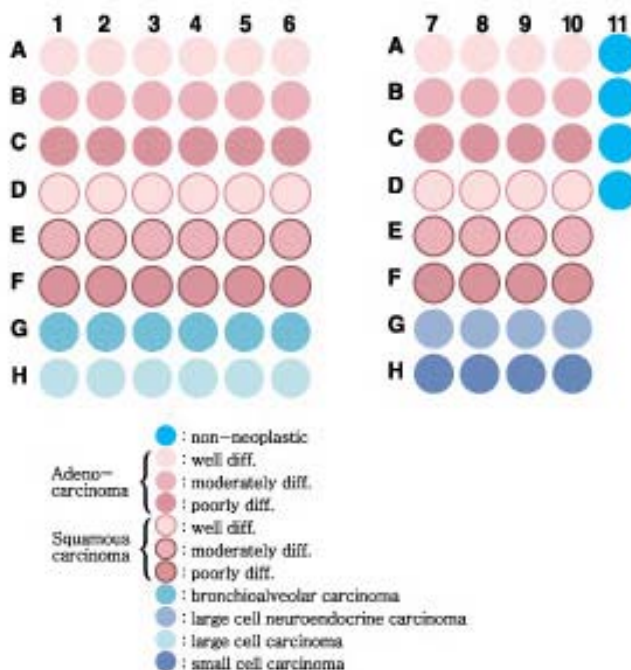
**Specifications:**

- No. of cases: 40
- Tissue type: Lung cancer tissues
- No. of spots: 2 spots from each cancer case (80 spots)  
4 non-neoplastic spots (4 spots)
- Total spots: 84
- Corresponding normal tissues with cancers: Yes
- Diameter: 1.0 mm

**Documents:**

- Product specification: layout, summary of tissue spots
- H&E stained images
- Detailed pathological information

**Layout:**



**Summary of tissue spots**

No.	Coordinate	Sex	Age	Key Word	TNM Stage	
1	A	1, 2	f	57	adenocarcinoma	T2N2M0 (IIIA)
2		3, 4	m	68	adenocarcinoma	T1N0M1 (IV)
3		5, 6	m	71	adenocarcinoma	T2N0M1 (IV)
4		7, 8	f	73	adenocarcinoma	T2N0M0 (IB)
5		9, 10	f	65	adenocarcinoma	T2N2M0 (IIIA)
6		11			non-neoplastic, from A9, 10	
7	B	1, 2	m	56	adenocarcinoma	T1N0M0 (IA)
8		3, 4	f	43	adenocarcinoma	T4N1M1 (IV)
9		5, 6	m	64	adenocarcinoma	T1N0M0 (IA)
10		7, 8	m	67	adenocarcinoma	T2N0M0 (IB)
11		9, 10	f	65	adenocarcinoma	T1N2M0 (IIIA)
12		11			non-neoplastic, from D5,6	
13	C	1, 2	m	44	adenocarcinoma	T4NxM1 (IV)
14		3, 4	m	82	adenocarcinoma	T2N0M0 (IB)
15		5, 6	m	61	adenocarcinoma	T2N1M0 (IIB)
16		7, 8	m	71	adenocarcinoma	T2N3M1 (IV)
17		9, 10	m	57	adenocarcinoma	T2N0M0 (IB)
18		11			non-neoplastic, from G5,6	
19	D	1, 2	m	69	squamous cell carcinoma	T2N0M0 (IB)
20		3, 4	m	67	squamous cell carcinoma	T2N0M0 (IB)
21		5, 6	m	64	squamous cell carcinoma	T2N1M0 (IIB)
22		7, 8	m	68	squamous cell carcinoma	T2N0M0 (IB)
23		9, 10	m	47	squamous cell carcinoma	T4N3M0 (IIIB)
24		11			non-neoplastic, from H1,2	
25	E	1, 2	m	75	squamous cell carcinoma	T3N0M0 (IIB)
26		3, 4	m	59	squamous cell carcinoma pneumonia	T3N2M0 (IIIA)
27		5, 6	m	70	squamous cell carcinoma	T3N0M0 (IIB)
28		7, 8	m	67	squamous cell carcinoma	T2N1M0 (IIB)
29		9, 10	m	60	squamous cell carcinoma	T1N1M0 (IIA)
30		F	1, 2	m	72	epidermoid carcinoma squamous cell carcinoma
31	3, 4		m	72	squamous cell carcinoma	T2N0M0 (IB)
32	5, 6		m	54	squamous cell carcinoma	T2N1M0 (IIB)
33	7, 8		m	49	obstructive pneumonitis squamous cell carcinoma	T3N1M0 (IIIA)
34	9, 10		m	69	squamous cell carcinoma	T2N0M0 (IB)

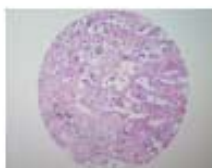
**Summary of tissue spots**

No.	Coordinate	Sex	Age	Key Word	TNM Stage	
35	G	1, 2	f	65	bronchioloalveolar carcinoma	T1N0M0 (IA)
36		3, 4	m	61	bronchioloalveolar carcinoma	T2N0M0 (IB)
37		5, 6	f	66	bronchioloalveolar carcinoma	T2N0M0 (IB)
38		7, 8	m	64	large cell necroendocrine carcinoma	T2N0M0 (IB)
39		9, 10	f	70	large cell necroendocrine carcinoma	T2N1M0 (IIB)
40	H	1, 2	m	68	large cell carcinoma	T2N0M0 (IB)
41		3, 4	m	73	large cell carcinoma pneumoconiosis	T1N0M0 (IA)
42		5, 6	m	73	large cell carcinoma	T2N2M0 (IIIA)
43		7, 8	m	64	small cell carcinoma	T2N1M1 (IV)
44		9, 10	m	60	small cell carcinoma	T2N0M0 (IB)

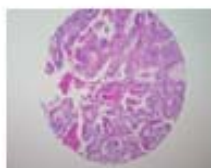
**QC sheet\_LOT#122120309181**  
**Haematoxylin and Eosin staining**



A1



A2



A3



A4



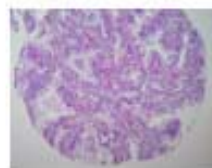
A5



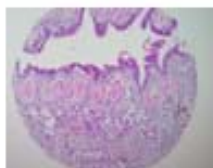
A6



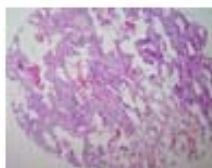
A7



A8



A9



A10



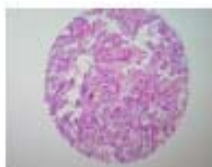
A11



B1



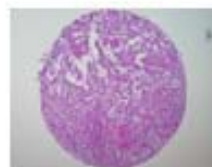
B2



B3



B4



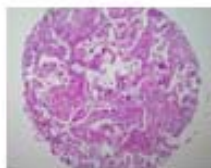
B5



B6



B7



B8



B9



B10



B11



C1



C2

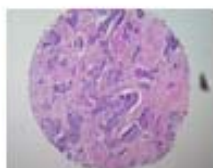
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**Haematoxylin and Eosin staining**



**C3**



**C4**



**C5**



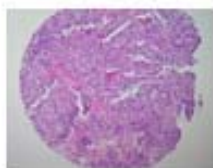
**C6**



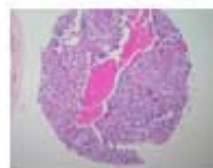
**C7**



**C8**



**C9**



**C10**



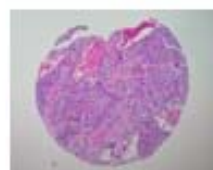
**C11**



**D1**



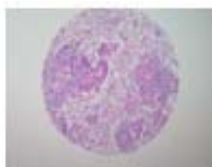
**D2**



**D3**



**D4**



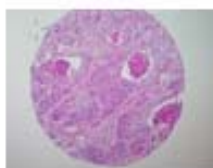
**D5**



**D6**



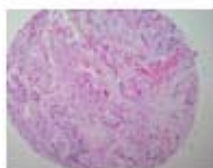
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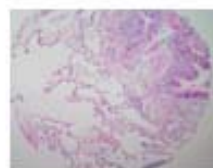
**D8**



**D9**



**D10**



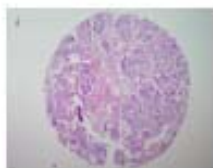
**D11**



**E1**



**E2**

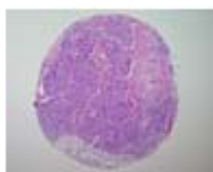


**E3**

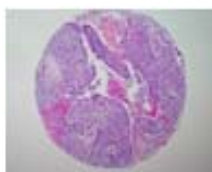


**E4**

**QC sheet\_LOT#122120309181**  
**Haematoxylin and Eosin staining**



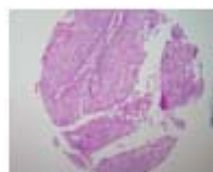
**E5**



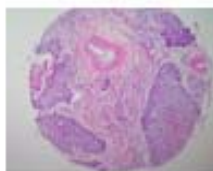
**E6**



**E7**



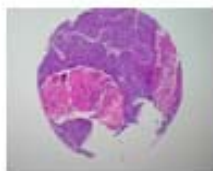
**E8**



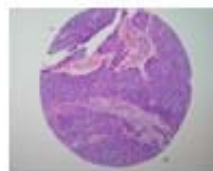
**E9**



**E10**



**F1**



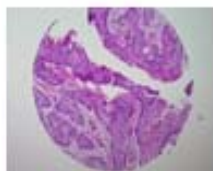
**F2**



**F3**



**F4**



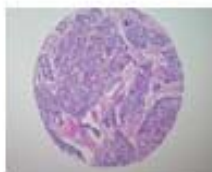
**F5**



**F6**



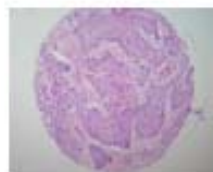
**F7**



**F8**



**F9**



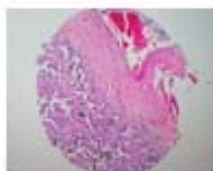
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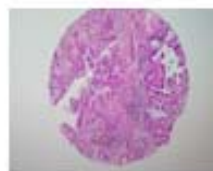
**G1**



**G2**



**G3**



**G4**



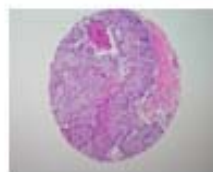
**G5**



**G6**

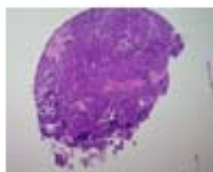


**G7**

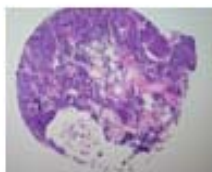


**G8**

**QC sheet\_LOT#122120309181**  
**Haematoxylin and Eosin staining**



**G9**



**G10**



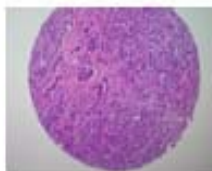
**H1**



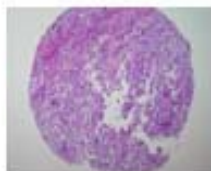
**H2**



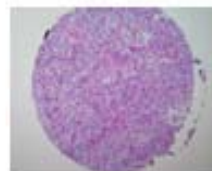
**H3**



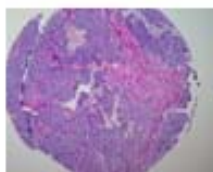
**H4**



**H5**



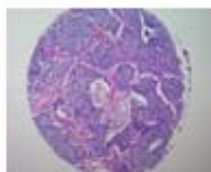
**H6**



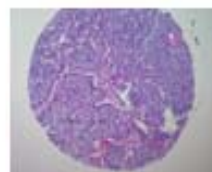
**H7**



**H8**



**H9**



**H10**

**A206: Lung cancer tissues**

No.	Coordinate		Sex	Age	Key Word	Histological Diagnosis	TNM Stage
1	A	1, 2	f	57	adenocarcinoma	Lung, right upper, lobectomy: 1. Adenocarcinoma, bronchogenic, well differentiated confined to the lung (T1 stage IIIa) 2. Resection margin, bronchial: 3. Regional lymph nodes, right paraesophageal (1/2), inferior pulmonary ligment (0/3), subcarinal (1/2), hilar (0/1), interlobar (0/1), lobar (2/5) : (4/14): metastatic carcinoma in 4 out of 14 lymph nodes	T2N2M0 (IIIA)
2	A	3, 4	m	68	adenocarcinoma	Lung, right upper lobe, lobectomy: 1. Adenocarcinoma, well differentiated confined within the lung parenchyme of anterior segment (TNM:T1) 2. Apical segment: bullae 3. Bronchial resection margin: free of tumor 4. Regional lymph nodes, paratracheal(0/3), hilar(0/4): free of tumor in all 7 nodes	T1N0M1 (IV)
3	A	5, 6	m	71	adenocarcinoma	Lung, right upper lobe, lobectomy: 1. Adenocarcinoma, well differentiated with 1) extension to the visceral pleura (T2) 2) bronchioloalveolar pattern 3) no lymphovascular invasion 2. Resection margin, bronchus: free of tumor 3. Regional lymph node, lobar(0/3), subcarinal(0/1), paratracheal (0/3), hilar(0/2), interlobar(0/6) : (0/15): free of tumor	T2N0M1 (IV)
4	A	7, 8	f	73	adenocarcinoma	Lung, left lower, lobectomy: 1. Adenocarcinoma, well differentiated with extension to the visceral pleura 2. Bronchiectasis with aspergillosis (fungal ball) 3. Bronchus, resection margin: free of tumor 4. Lymph node, separately sent, IPL (0/4), interlobar (0/2), lobar (0/1), para-aortic (0/2), hilar (0/1): 1) free of tumor 2) chronic granulomatous inflammation with fibrosis	T2N0M0 (IB)

No.	Coordinate		Sex	Age	Key Word	Histological Diagnosis	TNM Stage
5	A	9, 10	f	65	adenocarcinoma	Lung, right upper lobe, lobectomy: 1. Adenocarcinoma, well differentiated, acinar type, 1) mixed with bronchioloalveolar carcinoma, focally 2) size(2.7x1.2 cm) 3) visceral pleura involvement 2. Bronchial resection margin: free of tumor 3. Regional lymph nodes: Tumor metastasis to 1 out of 3 (1/3)	T2N2M0 (IIIA)
6	A	11			non-neoplastic	Non-noeplastic, from A9,10	
7	B	1, 2	m	56	adenocarcinoma	Lung, right upper lobe, lobectomy: 1. Adenocarcinoma, moderated differentiated 2. Resection margin, bronchial: free of tumor 3. Regional lymph nodes, interlobar (0/4), paraesophageal (0/2), right lower paratracheal (0/1), tracheobronchial with lower paratracheal (0/3), hilar (0/7), interbronchial (0/2): free of tumor in all 19 nodes	T1N0M0 (IA)
8	B	3, 4	f	43	adenocarcinoma	Lung, left, pneumonectomy: 1. Adenocarcinoma moderately differentiated, papillary type with extension to the pleura and lymphatic permeation 2. Resection margin: free of tumor 3. Tissue labelled as "pleural nodules": Chronic nonspecific inflammation with dense fibrosis and mesothelial hyperplasia 4. Lymph nodes, hilar (2/9), paraaortic (0/4), intrapulmonary (0/1), subcarinal (0/2), peribronchial (3/9), AP window (0/10): metastatic carcinoma in 5 out of 35 lymph nodes	T4N1M1 (IV)
9	B	5, 6	m	64	adenocarcinoma	Lung, upper lobe, left, lobectomy: 1. Adenocarcinoma, moderately differentiated, with involvement of bronchus 2. Resection margin, bronchial: free of tumor 3. Regional lymph nodes, hilar node (0/7), interlobar node (0/10), pulmonary artery (0/3) : (0/20): free of tumor	T1N0M0 (IA)

No.	Coordinate		Sex	Age	Key Word	Histological Diagnosis	TNM Stage
10	B	7, 8	m	67	adenocarcinoma	<p>Lung, right lower lobe, lobectomy:</p> <ol style="list-style-type: none"> <li>1. Adenocarcinoma, moderately differentiated, with spreading to the visceral pleura (mass size: 9x5.5 cm, T2)</li> <li>2. Pleural thickening with fibrosis and marked lymphocytic infiltration</li> <li>3. Resection margin, bronchial: free of tumor</li> <li>4. Regional lymph nodes, upper paratracheal (0/1), lower paratracheal (0/4), interbronchial (0/6): free of tumor in all 11 nodes (N0)</li> </ol>	T2N0M0 (IB)
11	B	9, 10	f	65	adenocarcinoma	<p>Lung, right, lobectomy:</p> <ol style="list-style-type: none"> <li>1. Adenocarcinoma, acinar type, moderately differentiated with               <ol style="list-style-type: none"> <li>1) prominent bronchioloalveolar growth pattern</li> <li>2) focal spindle cell foci</li> <li>3) tumor size: 2.3 cm</li> <li>4) no vascular and perineural invasion</li> <li>5) occasional lymphatic permeation</li> <li>6) subpleural tumor extension without involvement of visceral pleural surface</li> </ol> </li> <li>2. Bronchial resection margin: free of tumor</li> <li>3. Regional lymph node (0/1): free of tumor</li> </ol>	T1N2M0 (IIIA)
12	B	11			non-neoplastic	Non-neoplastic, from D5,6	
13	C	1, 2	m	44	adenocarcinoma	<p>Lung, right upper lobe, lobectomy:</p> <ol style="list-style-type: none"> <li>1. Adenocarcinoma, poorly differentiated, with               <ol style="list-style-type: none"> <li>1) signet ring cell feature</li> <li>2) size (3.5x3 cm)</li> <li>3) extend to the visceral pleura</li> </ol> </li> <li>2. Resection margin, bronchial: free of tumor</li> <li>3. Lymph nodes, interlobar (3/9), segmental (0/1) : (3/10): tumor metastasis in 3 out of 10 lymph nodes</li> </ol>	T4NxM1 (IV)

No.	Coordinate		Sex	Age	Key Word	Histological Diagnosis	TNM Stage
14	C	3, 4	m	82	adenocarcinoma	Lung, left lower lobe, segmentectomy: 1. Adenocarcinoma, poorly differentiated 1) with spreading to the visceral pleura (T2) 2) anthracotic macules in non-involved lung tissue 3) resection margin: free of tumor 2. Resection margin, bronchi: free of tumor	T2N0M0 (IB)
15	C	5, 6	m	61	adenocarcinoma	Lung, right middle lobe, lobectomy: 1. Adenocarcinoma, poorly differentiated with 1) size: 4x3x2.5 cm 2) visceral pleural invasion 3) lymphovascular invasion 4) intact resection margin of bronchus	T2N1M0 (IIB)
16	C	7, 8	m	71	adenocarcinoma	Lung, right, pneumonectomy: 1. Adenocarcinoma, poorly differentiated (tumor size: 4x3 cm) with marked lymphangitic metastasis to whole upper lobe and lower lobe (M1 stage) 2. Resection margin, bronchial: free of tumor 3. Regional lymph nodes, pretracheal (7/11), tracheobronchial, left (2/3), prevascular (3/4), carinal (1/1), lower paratracheal, right (3/4), ubcarinal (7/12), IPL (0/1), upper paratracheal (3/7), peribronchial (6/8) : (32/51) : tumor metastasis to 32 out of 51 lymph nodes (N3 stage) 4. Results of special stains: 1) mucicarmine(+), alcian blue(+). 2) results of immunohistochemical stains: NSE(-), chromogranin A(-), synaptophysin(-).	T2N3M1 (IV)
17	C	9, 10	m	57	adenocarcinoma	Lung, lobectomy: 1. Adenocarcinoma, poorly differentiated, size 2.5x2.4 cm, and extension to the visceral pleura 2. Surrounding lung: emphysematous change 3. Resection margin: free of tumor 4. Regional lymph node, peribronchial: free of tumor (0/2)	T2N0M0 (IB)
18	C	11			non-neoplastic	Non-neoplastic, from G5,6	

No.	Coordinate		Sex	Age	Key Word	Histological Diagnosis	TNM Stage
19	D	1, 2	m	69	squamous cell carcinoma	<p>Lung, left, pneumonectomy:</p> <ol style="list-style-type: none"> <li>1. Squamous cell carcinoma, well differentiated               <ol style="list-style-type: none"> <li>1) arising from upper lobar bronchus</li> <li>2) tumor size: 3x1 cm</li> <li>3) no vascular invasion identified</li> <li>4) no perineural invasion identified</li> <li>5) bronchial resection margin is free of tumor, but in situ carcinoma is very close to the margin (1.0 mm)</li> <li>6) pleura: free of tumor</li> <li>7) nonneoplastic lung: Extensive obstructive pneumonitis and bullae</li> </ol> </li> <li>2. Regional lymph node, AP window (0/3), inferior pulmonary lymph node (0/4), paratracheal (0/1), interlobar (0/1):               <ol style="list-style-type: none"> <li>1) free of tumor</li> <li>2) anthracosilicotic nodule</li> </ol> </li> <li>3. Pleura: anthracosilicotic nodule</li> </ol>	T2N0M0 (1B)
20	D	3, 4	m	67	squamous cell carcinoma	<p>Lung, left, pneumonectomy:</p> <ol style="list-style-type: none"> <li>1. Squamous cell carcinoma, well differentiated with               <ol style="list-style-type: none"> <li>1) invasion to visceral pleura</li> <li>2) no lymphovascular invasion</li> </ol> </li> <li>2. Anthracosilicotic nodules with calcification and ossification</li> <li>3. Resection margin, bronchial: free of tumor</li> <li>4. Regional lymph nodes, paraesophageal (0/3), subaortic (0/1), AP window (0/1), hilar (0/10):               <ol style="list-style-type: none"> <li>1) free of tumor in all 15 lymph nodes</li> <li>2) anthracosilicotic nodules</li> </ol> </li> </ol>	T2N0M0 (1B)

No.	Coordinate		Sex	Age	Key Word	Histological Diagnosis	TNM Stage
21	D	5, 6	m	64	squamous cell carcinoma	<p>Lung, left, pneumnectomy:</p> <ol style="list-style-type: none"> <li>1. Squamous cell carcinoma, well differentaited with               <ol style="list-style-type: none"> <li>1) extension to the visceral pleura</li> <li>2) mass dimension: 3.5x2 cm</li> <li>3) a few lymphatic prmeation</li> </ol> </li> <li>2. Non-neoplastic lung:               <ol style="list-style-type: none"> <li>1) progressive massive fibrosis showing features of silicosis and mixed dust fibrosis</li> <li>2) obstruction penumonitis</li> </ol> </li> <li>3. Bronchial resection margin: extension of tumor</li> <li>4. Soft tissue, labelled as "subcarinal LN": extension of squamous cell carcinoma</li> <li>5. Regional lymph nodes, inferior pulmonary ligment (0/1), lower paratracheal (0/1):               <ol style="list-style-type: none"> <li>1) free of tumor</li> <li>2) anthracosilicotic nodule with ossification</li> </ol> </li> </ol>	T2N1M0 (IIB)
22	D	7, 8	m	68	squamous cell carcinoma	<p>Lung, right lower lobe, lobectomy:</p> <ol style="list-style-type: none"> <li>1. Squamous cell carcinoma, well differentiated, arising from periphery of superior segment and focally extension to the visceral pleura</li> <li>2. Resection margin of bronchus: free of tumor</li> <li>3. Lymph nodes, interlobar (0/7) and IPL (0/3):               <ol style="list-style-type: none"> <li>1) free of tumor in all 10 lymph nodes</li> <li>2) numerous anthracosilicotic noduels</li> </ol> </li> </ol>	T2N0M0 (IB)
23	D	9, 10	m	47	squamous cell carcinoma	<p>Lung, right, pneumonectomy:</p> <ol style="list-style-type: none"> <li>1. Squamous cell carcinoma, well differentiated, involving middle and lower lobes, with extensive intravascular invasion and perihilar soft tissue invasion</li> <li>2. Resection margins, main bronchus and pulmonary vein: extension of the tumor</li> <li>3. Lymph nodes, regional hilar (7/9), lobar (9/11), inferior pulmonary ligament (1/5), and subclavian (2/2): metastasis in 19 out of 27 nodes</li> </ol>	T4N3M0 (IIIB)

No.	Coordinate		Sex	Age	Key Word	Histological Diagnosis	TNM Stage
24	D	11			non-neoplastic	Non-neoplastic, from H1,2	
25	E	1, 2	m	75	squamous cell carcinoma	Lung, right, pneumonectomy: 1. Moderately differentiated bronchogenic squamous cell carcinoma, bronchial resection margin is involved by tumor Note: The hilar lymph node shows anthracosilicotic nodule without metastatic tumor.	T3N0M0 (IIB)
26	E	3, 4	m	59	squamous cell carcinoma pneumonia	Lung, right, pneumonectomy: 1. Lower lobe: 1) bronchogenic squamous cell carcinoma, moderately differentiated with extension to the pleura 2) obstructive pneumonia adjacent the tumor mass 2. Middle lobe: subpleural bullous emphysema 3. Bronchus, resection margin: free of tumor 4. Pulmonary artery and vein: free of tumor 5. Lymph nodes, labelled as right hilar (0/1), right paratracheal (0/0), right paraesophageal (0/1), subcarinal (1/1), anterior mediastinal(0/1), right lower paratracheal (3/6), right high paratracheal (1/1), lobar (2/6), interlobar (0/5) and segmental (1/1) : (8/23): metastatic carcinoma in 8 out of 23 nodes	T3N2M0 (IIIA)

No.	Coordinate		Sex	Age	Key Word	Histological Diagnosis	TNM Stage
27	E	5, 6	m	70	squamous cell carcinoma	<p>Lung, right pneumonectomy:</p> <ol style="list-style-type: none"> <li>1. Squamous cell carcinoma, moderately differentiated               <ol style="list-style-type: none"> <li>1) tumor location: right upper lobe</li> <li>2) tumor size: &gt; 3 cm</li> <li>3) with invasion of pulmonary artery (T4)</li> <li>4) no perineural invasion</li> <li>5) main stem bronchus: involved by invasive carcinoma</li> <li>6) with no in situ carcinoma</li> </ol> </li> <li>2. Non-neoplastic lung.               <ol style="list-style-type: none"> <li>1) focal obstructive pneumonitis</li> <li>2) emphysematous change</li> <li>3) microscopic foci of atypical hyperplasia of pneumocytes</li> </ol> </li> <li>3. Bronchus, resection margin: free of tumor</li> <li>4. Regional lymph node, hilar (0/7), right inferior pulmonary ligament (0/2), right lower paratracheal (0/2), right paraesophageal (0/2), subcarina (0/3), right upper paratracheal (0/3), right tracheobronchial (0/1), (0/20), free of tumor</li> </ol>	T3N0M0 (IIB)
28	E	7, 8	m	67	squamous cell carcinoma	<p>Lung, left lower lobe, lobectomy:</p> <ol style="list-style-type: none"> <li>1. Bronchogenic squamous cell carcinoma, moderately differentiated, lateral basal segment</li> <li>2. Obstructive pneumonia</li> <li>3. Bronchial resection margin: free of tumor</li> <li>4. Lymph nodes, peribronchial:               <ol style="list-style-type: none"> <li>1) metastatic squamous cell carcinoma in one out of 13 nodes</li> <li>2) anthracosillicosis</li> </ol> </li> </ol>	T2N1M0 (IIB)

No.	Coordinate		Sex	Age	Key Word	Histological Diagnosis	TNM Stage
29	E	9, 10	m	60	squamous cell carcinoma	<p>Lung, right, pneumonectomy:</p> <ol style="list-style-type: none"> <li>Squamous cell carcinoma, moderately differentiated, arising from the upper lobar and apical segmental bronchus and extending to the peribronchial soft tissue without invasion to the lung parenchyma with               <ol style="list-style-type: none"> <li>perineural invasion, absent</li> <li>vascular invasion, absent</li> <li>no main stain bronchus involvement</li> <li>focal obstructive pneumonia with organization in the upper lobe</li> <li>irregular emphysematous change in the upper lobe</li> </ol> </li> <li>Resection margin, bronchial: free of tumor</li> <li>Lymph nodes, labelled as inferior pulmonary ligament (0/3), tracheobronchial (0/2), interlobar (0/14), hilar (0/5) and intralobar (4/21), (4/45): metastatic carcinoma in 4 out of 45 lymph nodes</li> </ol>	T1N1M0 (IIA)
30	F	1, 2	m	72	epidermoid carcinoma squamous cell carcinoma	<p>Lung, left, upper lobe:</p> <ol style="list-style-type: none"> <li>Mass of apicoposterior segment: epidermoid carcinoma, poorly differentiated, peripherally located, confined to the lung parenchyme (2.5x2.2 cm in size, T1)</li> <li>Resection margin, bronchial, free of tumor</li> <li>Regional lymphnodes, peribronchial, tumor metasis to 5 out of 9</li> </ol>	T2N3M0 (IIIB)
31	F	3, 4	m	72	squamous cell carcinoma	<p>Lung, right, pneumonectomy:</p> <ol style="list-style-type: none"> <li>Bronchogenic squamous cell carcinoma, poorly differentiated</li> <li>Bronchus, resection margin: free of tumor</li> <li>Lymph node, hilar(0/6), free of tumor</li> </ol> <p>Note: pleural invasion of tumor is not identified.</p>	T2N0M0 (IB)
32	F	5, 6	m	54	squamous cell carcinoma	<p>Lung, right, pneumonectomy:</p> <ol style="list-style-type: none"> <li>Bronchogenic squamous cell carcinoma, poorly differentiated, intermediate bronchus</li> <li>Bronchiectasis and endogenous lipid pneumonia, secondary to bronchial obstruction by neoplasm, lower lobe</li> <li>Bronchial resection margin, free of tumor</li> <li>Lymph node, peribronchial, metastatic squamous cell carcinoma in 4 out of 18. pulmonary vessel, Involvement of tumor in middle lobe</li> </ol>	T2N1M0 (IIB)

No.	Coordinate		Sex	Age	Key Word	Histological Diagnosis	TNM Stage
33	F	7, 8	m	49	obstructive pneumonitis squamous cell carcinoma	<ol style="list-style-type: none"> <li>1. obstructive pneumonitis</li> <li>2. squamous cell carcinoma with marked tumor necrosis and vascular permeation               <ol style="list-style-type: none"> <li>1) tumor extension to the visceral pleura</li> <li>2) obstructive pneumonitis</li> </ol> </li> <li>3. Resection margin, bronchial: free of tumor</li> <li>4. Regional lymph nodes, hilar lymph nodes (2/3), interlobar lymph nodes (1/6), subcarinal lymph nodes (0/4) : (3/13): tumor metastasis in 3 out of 13 lymph nodes</li> </ol>	T3N1M0 (IIIA)
34	F	9, 10	m	69	squamous cell carcinoma	<p>Lung, pneumonectomy:</p> <ol style="list-style-type: none"> <li>1. Bronchogenic squamous cell carcinoma (3.5x3x2.8 cm), poorly differentiated with               <ol style="list-style-type: none"> <li>1) marked tumor necrosis</li> <li>2) occasional blood vessel invasion</li> <li>3) no lymphatic permeation</li> <li>4) no involvement of visceral pleura</li> </ol> </li> <li>2. Nonneoplastic lung               <ol style="list-style-type: none"> <li>1) obstructive pneumonitis</li> <li>2) emphysematous change</li> </ol> </li> <li>3. Resection margin, bronchial: free of tumor</li> <li>4. Regional lymph nodes, hilar LNs (0/5), interlobar LNs (0/5), inferior pulmonary ligament LNs (0/2), subcarinal LNs (0/3), paraesophageal LNs (0/4) : (0/19): free of tumor</li> </ol>	T2N0M0 (IB)
35	G	1, 2	f	65	bronchioloalveolar carcinoma	<p>Lung, clinically side unstated, lobectomy:</p> <ol style="list-style-type: none"> <li>1. Bronchioloalveolar carcinoma, perihilar, with               <ol style="list-style-type: none"> <li>1) size: 3x1.8x1.5 cm</li> <li>2) extension to visceral pleura</li> <li>3) intact bronchial resection margin</li> <li>4) no metastasis to peribronchial lymph node (0/3)</li> </ol> </li> </ol>	T1N0M0 (IA)

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No.	Coordinate		Sex	Age	Key Word	Histological Diagnosis	TNM Stage
36	G	3, 4	m	61	bronchioloalveolar carcinoma	<p>Lung, left upper lobe, lobectomy:</p> <ol style="list-style-type: none"> <li>1. Bronchioloalveolar carcinoma with               <ol style="list-style-type: none"> <li>1) size: 2 cm in the greatest diameter</li> <li>2) invasion to visceral pleura</li> <li>3) lymphovascular invasion</li> <li>4) intact bronchial resection margin</li> <li>5) no metastasis to perihilar lymph nodes (0/12)</li> </ol> </li> </ol>	T2N0M0 (IB)
37	G	5, 6	f	66	bronchioloalveolar carcinoma	<p>Lung, right middle lobe, lobectomy:</p> <ol style="list-style-type: none"> <li>1. Adenocarcinoma, acinar type, moderately differentiated, mixed with bronchioloalveolar carcinoma               <ol style="list-style-type: none"> <li>1) peripherally located</li> <li>2) extension to visceral pleura</li> <li>3) size (3x3 cm)</li> </ol> </li> <li>2. Adjacent lung: anthracotic macules</li> <li>3. Resection margin, bronchial: free of tumor</li> <li>4. Regional lymph nodes: free of tumor in all nodes (0/31), in detail, hilar (0/7), subcarinal (0/14), interlobar (0/2), paratracheal (0/8)</li> </ol>	T2N0M0 (IB)

No.	Coordinate		Sex	Age	Key Word	Histological Diagnosis	TNM Stage
38	G	7, 8	m	64	large cell necroendocrine carcinoma	<p>Lung, right lower lobe, lobectomy:</p> <ol style="list-style-type: none"> <li>1. Large cell neuroendocrine carcinoma               <ol style="list-style-type: none"> <li>1) size: 4 cm</li> <li>2) no vascular invasion</li> <li>3) no perineural invasion</li> <li>4) no pleural invasion</li> <li>5) no in situ carcinoma identified</li> </ol> </li> <li>2. Bronchus, resection margin: free of tumor</li> <li>3. Blood vessels: free of tumor</li> <li>4. Regional lymph node, lobar (0/4), segmental (0/1), inferior pulmonary ligament (0/1), superior mediastinal (0/3), lower paratracheal (0/3), interlobar (0/3) : (0/15): free of tumor</li> </ol> <p>&lt;Comment&gt;</p> <p>The tumor shows prominent organoid architecture: trabecular, palisading and rosette-like structure, with extensive necrosis. Large tumor cells reveal round or polygonal or fusiform nuclei, finely granular eosinophilic cytoplasm, coarse chromatin, and occasional nucleoli. High mitotic rate (about 70/10 HPF) is seen. Neoplastic cells reveal strong and diffuse positivity for Synaptophysin: focal positivity for neuron specific enolase and Chromogranin.</p>	T2N0M0 (IB)

No.	Coordinate		Sex	Age	Key Word	Histological Diagnosis	TNM Stage
39	G	9, 10	f	70	large cell necroendocrine carcinoma	<p>Lung, left upper lobe, lobectomy:</p> <ol style="list-style-type: none"> <li>1. Large cell neuroendocrine carcinoma with               <ol style="list-style-type: none"> <li>1) size: 2x1.8 cm</li> <li>2) frequent lymphovascular involvement</li> <li>3) no in situ carcinoma present</li> <li>4) no involvement of visceral pleura</li> </ol> </li> <li>2. Bronchus, resection margin: free of tumor</li> <li>3. Blood vessels: free of tumor</li> <li>4. Regional lymph node, lobar (3/9): tumor metastasis in 3 out of 9 lymph nodes</li> <li>5. Regional lymph node, separately submitted, A-P window (1/1), IPL (0/5), peribronchial (1/3), lower paratracheal (1/1), hilar (0/1), anterior mediastinal (0/1), interlobar (0/1) : (2/12): tumor metastasis in 2 out of 12 lymph nodes</li> </ol> <p>Note: The result of immunohistochemistry: S-100(-), NSE(+), Chromogranin(-), Synaptophysin(-).</p>	T2N1M0 (IIB)
40	H	1, 2	m	68	large cell carcinoma	<p>Lung, left, pneumonectomy:</p> <ol style="list-style-type: none"> <li>1. Large cell carcinoma with adenocarcinomatous differentiation, with extension to the pleura</li> <li>2. Pneumonia and edema</li> <li>3. Resection margin, bronchial, free of tumor</li> <li>4. Resection margin, pulmonary vein, free of tumor resection margin, pulmonary artery, free of tumor lymph node, hilar (1/2), peribronchial (0/3), metastatic carcinoma to 1 out of 5</li> </ol> <p>Rib: Adhesion to the pleura without tumor metastasis.</p>	T2N0M0 (IB)
41	H	3, 4	m	73	large cell carcinoma pneumoconiosis	<p>Lung, right lower lobe, lobectomy:</p> <ol style="list-style-type: none"> <li>1. Large cell carcinoma with poorly differentiated squamous cell feature (maximal dimension: 3.5x3.5 cm) involving anterior basal segment</li> <li>2. Pneumoconiosis, moderate</li> <li>3. Resection margin, bronchial: free of tumor</li> <li>4. Regional lymph nodes, pretracheal (0/1), right paratracheal (0/3), right tracheobronchial (0/4), paraesophageal (0/3), hilar (0/5): free of tumor</li> </ol>	T1N0M0 (IA)

No.	Coordinate		Sex	Age	Key Word	Histological Diagnosis	TNM Stage
42	H	5, 6	m	73	large cell carcinoma	<p>Lung, pneumonectomy, right:</p> <ol style="list-style-type: none"> <li>1. Undifferentiated large cell carcinoma</li> <li>2. Bronchial resection margin: Free of tumor</li> <li>3. Regional lymph nodes, hilar (2/8), interbronchial (0/6), paratracheal (0/6), subcarinal (0/3), paraesophageal (1/2): metastatic carcinoma in 3 out of 25 nodes</li> </ol> <p>Pleura: fibrohyaline thickening with plaque formation            Note: Immunohistochemical stain for neuron-specific enolase, Chromogranin are negative.</p>	T2N2M0 (IIIA)
43	H	7, 8	m	64	small cell carcinoma	<p>Lung, right, pneumonectomy:</p> <ol style="list-style-type: none"> <li>1. Small cell carcinoma, involving middle and lower lobe</li> <li>2. Bronchial resection margin: free of tumor</li> <li>3. Regional lymph nodes, hilar (2/2), interbronchial (0/7): metastatic small cell carcinoma in 2 out of 9 nodes</li> </ol>	T2N1M1 (IV)
44	H	9, 10	m	60	small cell carcinoma	<p>Lung, left lower lobe, lobectomy:</p> <ol style="list-style-type: none"> <li>1. Small cell carcinoma with visceral pleural involvement (tumor size: 3 cm in maximal diameter)</li> <li>2. Bronchopulmonary lymph nodes (0/3) and resection margin are free of neoplastic involvement</li> <li>3. Lymph nodes, each labelled as "hilar (0/1)", "AP window (0/9)", "subcarinal (0/3)" and "peribronchial (0/3)" are free of neoplastic involvement</li> <li>4. Specimen, site not specified, biopsy: pneumoconiosis with focal osseous metaplasia</li> </ol>	T2N0M0 (IB)