Patient characteristics			
Patient birth date	Month year (yyyy)		
Sex	○ Male		
	○ Female		
Performance status	○ 0		
	○ 1		
	○ 2		
	○ 3		
	○ 4		
Smoking history	○ Never smoked		
	○ Former smoker		
	○ Current smoker		
	○ No data		
Asbestos exposure	○ No		
	○ Yes		
	○ No data		
Preoperative evaluation			
Comorbidity	○ No		
	○ Yes		
		Diabetes mellitus	○ No
			○ Yes
			○ No data
		Renal insufficiency	○ No
			○ Yes
			○ No data
		Respiratory comorbidity	○ No
			○ Yes
			○ No data
		Cardiovascular comorbidity	○ No
			○ Yes
			○ No data
		Previously treated malignancy	○ No
			○ Yes
			○ No data
Laboratory values	☐ Blood test		
		Hemoglobin	
			g/dL
		White cell count	
			cells/microL
		Lymphocyte count	
			%
		Neutrophil count	
			%
		Neutrophil/lymphocyte ratio	
		Platelet count	
			cells/microL
		Total protein	
			g/L
		Albumin	
			g/L
		Creatinin	
			micromol/L
		C-reactive protein	
			mg/dL
		Fibrinogen	
			mg/dL
		Ferritin	
			ng/dL
		Hyaluronic acid (HA)	

			ng/dL
		Soluble mesothelin-related peptides (SMRP)	
			nmol/L
		Carcinoembryonic antigen (CEA)	
			ng/dL
		Squamous cell carcinoma antigen (SCC)	
			ng/dL
		Cytokeratin fragment 21-1 (Cyfra)	
			ng/dL
	☐ Pleural effusion		
		SMRP	
			nmol/L
		HA	
			ng/dL
		CEA	
			ng/dL
		SCC	
			ng/dL
		Cyfra	
			ng/dL
		Adenosine deaminase (ADA)	
			IU/L
	☐ PET		
		○ No	
		○ Yes	
			Maximum SUV of Pleura
	☐ Pulmonary function		
		Pulmonary function tests	○ No
			○ Yes
			Forced vital capacity (FVC)
			Forced expiratory volume in one second (FEV_1)
			% predicted FVC
			% predicted FEV_1
Disease description at diagnosis			
Diagnostic method	○ Cytology		
		Date of diagnosis	Date month Year (yyyy)
		Cytology method	○ Smears
			○ Cell blocks
			○ Others
			○ No data
		Immunohistochemical evaluation	
			CEA ○ Positive
			○ Negative
			○ No data
			TTF-1 ○ Positive
			○ Negative
			○ No data
			CK5/6 ○ Positive
			○ Negative
			○ No data
			Calrerinin ○ Positive
			○ Negative
			○ No data
			D2-40 ○ Positive
			○ Negative
			○ No data
			AE1/AE3 ○ Positive
			○ Negative
			○ No data

			WT-1	○ Positive
				○ Negative
				○ No data
			Desmin	○ Positive
				○ Negative
				○ No data
			p-16	○ Positive
				○ Negative
				○ No data
	○ Histology			
		Date of diagnosis	Date Month Year (yyyy)	
		Diagnostic method	○ Open biopsy	
			○ Thoracoscopic biopsy (general anesthesia)	
			○ Thoracoscopic biopsy (local anesthesia)	
			○ Needle Biopsy	
			○ Others	
		Immunohistochemical evaluation		
			CEA	○ Positive
				○ Negative
				○ No data
			TTF-1	○ Positive
				○ Negative
				○ No data
			CK5/6	○ Positive
				○ Negative
				○ No data
			Calretinin	○ Positive
				○ Negative
				○ No data
			D2-40	○ Positive
				○ Negative
				○ No data
			AE1/AE3	○ Positive
				○ Negative
				○ No data
			WT-1	○ Positive
				○ Negative
				○ No data
			Desmin	○ Positive
				○ Negative
				○ No data
			p-16	○ Positive
				○ Negative
				○ No data
		Histologic type	○ Epithelioid mesothelioma	
			○ Sarcomatoid mesothelioma	
			○ Desmoplastic mesothelioma	
			○ Biphasic mesothelioma	
			○ Others	
		Localized *vs*. diffuse	○ Localized	
			○ Diffuse	
		Pleomorphic	○ Yes	
			○ No	
			○ No data	
Preoperative pleurodesis	○ No			
	○ Yes			
		Date of treatment	Date month year (yyyy)	
			○ Talc	
			○ Others	

Clinical T status	○ T1	
	○ T2	
	○ T3	
	○ T4	
Clinical N status	○ N0	
	○ N1	
	○ N2	
	○ N3	
Clinical M status	○ M0	
	○ M1	
Evaluation of clinical T status		
	Localization	○ Right
		○ Left
		○ No data
	Features	○ Minimal
		○ Rind-like
		○ Nodular
		○ No data
	Upper level	mm
	Middle level	mm
	Lower level	mm
	Maximal thickness	mm
	Pleural effusion	○ No
		○ Right
		○ Left
		○ Bilateral
		○ No data
	Pericardial effusion	○ Yes
		○ No
		○ No data
	Ipsilateral parietal pleura invasion	○ Yes
		○ No
		○ No data
	Ipsilateral visceral pleura invasion	○ Yes
		○ No
		○ No data
	Ipsilateral visceral pleura invasion including the fissure	○ Yes
		○ No
		○ No data
	Chest wall invasion	○ Yes
		○ No
		○ No data
	Contralateral pleural invasion (direct invasion)	○ Yes
		○ No
		○ No data
	Lung parenchyma invasion	○ Yes
		○ No
		○ No data
	Mediastinal fat invasion	○ Yes
		○ No
		○ No data
	Pericardial invasion	○ Yes
		○ No
		○ No data
	Esophageal invasion	○ Yes
		○ No
		○ No data
	Diaphragm invasion	○ Yes
		○ No
		○ No data

	Spinal invasion	○ Yes	
		○ No	
		○ No data	
Evaluation of N status	Lymph node metastasis	#1R	
			○ Yes
			○ No
			○ No data
		#1L	
			○ Yes
			○ No
			○ No data
		#2R	
			○ Yes
			○ No
			○ No data
		#2L	
			○ Yes
			○ No
			○ No data
		#3R	
			○ Yes
			○ No
			○ No data
		#3L	
			○ Yes
			○ No
			○ No data
		#4R	
			○ Yes
			○ No
			○ No data
		#4L	
			○ Yes
			○ No
			○ No data
		#5	
			○ Yes
			○ No
			○ No data
		#6	
			○ Yes
			○ No
			○ No data
		#7	
			○ Yes
			○ No
			○ No data
		#8R	
			○ Yes
			○ No
			○ No data
		#8L	
			○ Yes
			○ No
			○ No data
		#9R	
			○ Yes
			○ No
			○ No data
		#9L	
			○ Yes
			○ No
			○ No data

		#10R	
			○ Yes
			○ No
			○ No data
		#10L	
			○ Yes
			○ No
			○ No data
		#11R	
			○ Yes
			○ No
			○ No data
		#11L	
			○ Yes
			○ No
			○ No data
		#12R	
			○ Yes
			○ No
			○ No data
		#12L	
			○ Yes
			○ No
			○ No data
Evaluation of M status			
		Contralateral pleura	
			○ Yes
			○ No
			○ No data
		Contralateral lung	
			○ Yes
			○ No
			○ No data
		Peritoneal cavity	
			○ Yes
			○ No
			○ No data
		Bone	
			○ Yes
			○ No
			○ No data
		Liver	
			○ Yes
			○ No
			○ No data
		Brain	
			○ Yes
			○ No
			○ No data
		Distant lymph node	
			○ Yes
			○ No
			○ No data
		Others	
			○ Yes
			○ No
			○ No data

Surgical treatment			
Surgery	○ No		
	○ Yes		
1st treatment	○ Surgery		
	○ Chemotherapy		
	○ Radiation		
1st treatment date	Date month year (yyyy)		
2st treatment	○ Surgery		
	○ Chemotherapy		
	○ Radiation		
2st treatment date	Date month year (yyyy)		
3st treatment	○ Surgery		
	○ Chemotherapy		
	○ Radiation		
3st treatment date	Date month year (yyyy)		
4st treatment	○ Surgery		
	○ Chemotherapy		
	○ Radiation		
4st treatment date	Date month year (yyyy)		
5st treatment or more	○ No		
	○ Yes		
	○ No data		
Surgical procedure	○ Exploratory thoracotomy		
	○ Partial pleurectomy		
	○ Extended pleurectomy/decortication		
	○ Extended pleurectomy/decortication with diaphragm and/or pericardial resection		
	○ Extrapleural pneumonectomy		
	○ Others		
	○ No data		
Combined resection	Diaphragm		
		○ No	
		○ Yes	
		○ No data	
	Pericardium		
		○ No	
		○ Yes	
		○ No data	
	Chest wall (Two or more ribs)		
		○ No	
		○ Yes	
		○ No data	
	Lung		
		○ No	
		○ Yes	
		Lung resection	○ Wedge resection
			○ Segmentectomy
			○ Lobectomy
			○ Bilobectomy
			○ Pneumonectomy
		○ No data	
Completeness of resection	○ R0-1		
	○ R0		
	○ R1		

Post-operative disease description		
Histologic type	○ Epithelioid mesothelioma	
	○ Sarcomatoid mesothelioma	
	○ Desmoplastic mesothelioma	
	○ Biphasic mesothelioma	
Pathological T status	○ T1	
	○ T2	
	○ T3	
	○ T4	
Pathological N status	○ N0	
	○ N1	
	○ N2	
	○ N3	
Pathological M status	○ M0	
	○ M1	
Evaluation of pathological T status		
	Ipsilateral parietal pleura invasion	○ No
		○ Yes
		○ No data
	Ipsilateral parietal visceral invasion	○ No
		○ Yes
		○ No data
	Ipsilateral visceral pleura invasion including the fissure	○ No
		○ Yes
		○ No data
	Chest wall invasion	○ No
		○ Yes
		○ No data
	Contralateral pleural invasion (Direct invasion)	○ No
		○ Yes
		○ No data
	Lung parenchyma invasion	○ No
		○ Yes
		○ No data
	Mediastinal fat invasion	○ No
		○ Yes
		○ No data
	Pericardial invasion	○ No
		○ Yes
		○ No data
	Esophageal invasion	○ No
		○ Yes
		○ No data
	Diaphragm invasion	○ No
		○ Yes
		○ No data
	Spinal invasion	○ No
		○ Yes
		○ No data
	Pleural effusion	○ No
		○ Right
		○ Left
		○ Bilatera
		○ No data
	Cytology of pleural fluid	○ Positive
		○ Negative
		○ No data

	Pericardial effusion	○ No	
		○ Yes	
		○ No data	
	Cytology of pericardial fluid	○ Positive	
		○ Negative	
		○ No data	
Evaluation of pathological N status	Lymph node metastasis		
		#1R	
			○ Yes
			○ No
			○ No data
		#1L	
			○ Yes
			○ No
			○ No data
		#2R	
			○ Yes
			○ No
			○ No data
		#2L	
			○ Yes
			○ No
			○ No data
		#3aR	
			○ Yes
			○ No
			○ No data
		#3aL	
			○ Yes
			○ No
			○ No data
		#3p	
			○ Yes
			○ No
			○ No data
		#4R	
			○ Yes
			○ No
			○ No data
		#4L	
			○ Yes
			○ No
			○ No data
		#5	
			○ Yes
			○ No
			○ No data
		#6	
			○ Yes
			○ No
			○ No data
		#7	
			○ Yes
			○ No
			○ No data
		#8R	
			○ Yes
			○ No
			○ No data
		#8L	
			○ Yes
			○ No
			○ No data

		#9R	
			○ Yes
			○ No
			○ No data
		#9L	
			○ Yes
			○ No
			○ No data
		#10R	
			○ Yes
			○ No
			○ No data
		#10L	
			○ Yes
			○ No
			○ No data
		#11R	
			○ Yes
			○ No
			○ No data
		#11L	
			○ Yes
			○ No
			○ No data
		#12R	
			○ Yes
			○ No
			○ No data
		#12L	
			○ Yes
			○ No
			○ No data
Evaluation of pathological M status			
		Contralateral pleura	
			○ Yes
			○ No
			○ No data
		Contralateral lung	
			○ Yes
			○ No
			○ No data
		Peritoneal cavity	
			○ Yes
			○ No
			○ No data
		Bone	
			○ Yes
			○ No
			○ No data
		Liver	
			○ Yes
			○ No
			○ No data
		Brain	
			○ Yes
			○ No
			○ No data
		Distant lymph node	
			○ Yes
			○ No
			○ No data
		Others	
			○ Yes
			○ No
			○ No data
Operative time	min		
Intraoperative bleeding	g		

Intraoperative transfusion	○ No			
	○ Yes			
Postoperative complication	○ No			
	○ Yes			
		☐ Cerebral hemorrhage	Clavien-Dindo version 2.0	☐ Grade 1-2
				☐ Grade 3a
				☐ Grade 3b
				☐ Grade 4a
				☐ Grade 4b
				☐ Grade 5
				☐ No data
		☐ Stroke	Clavien-Dindo version 2.0	☐ Grade 1-2
				☐ Grade 3a
				☐ Grade 3b
				☐ Grade 4a
				☐ Grade 4b
				☐ Grade 5
				☐ No data
		☐ Recurrent laryngeal nerve palsy	Clavien-Dindo version 2.0	☐ Grade 1-2
				☐ Grade 3a
				☐ Grade 3b
				☐ Grade 4a
				☐ Grade 4b
				☐ Grade 5
				☐ No data
		☐ Ischemic heart disease	Clavien-Dindo version 2.0	☐ Grade 1-2
				☐ Grade 3a
				☐ Grade 3b
				☐ Grade 4a
				☐ Grade 4b
				☐ Grade 5
				☐ No data
		☐ Pericardial effusion	Clavien-Dindo version 2.0	☐ Grade 1-2
				☐ Grade 3a
				☐ Grade 3b
				☐ Grade 4a
				☐ Grade 4b
				☐ Grade 5
				☐ No data
		☐ Supraventricular arrhythmia	Clavien-Dindo version 2.0	☐ Grade 1-2
				☐ Grade 3a
				☐ Grade 3b
				☐ Grade 4a
				☐ Grade 4b
				☐ Grade 5
				☐ No data
		☐ Other arrhythmia	Clavien-Dindo version 2.0	☐ Grade 1-2
				☐ Grade 3a
				☐ Grade 3b
				☐ Grade 4a
				☐ Grade 4b
				☐ Grade 5
				☐ No data

		☐ Atelectasis/sputum excretion difficulty	Clavien-Dindo version 2.0	☐ Grade 1-2 ☐ Grade 3a ☐ Grade 3b ☐ Grade 4a ☐ Grade 4b ☐ Grade 5 ☐ No data
		☐ Tracheal fistula, bronchial fistula	Clavien-Dindo version 2.0	☐ Grade 1-2 ☐ Grade 3a ☐ Grade 3b ☐ Grade 4a ☐ Grade 4b ☐ Grade 5 ☐ No data
		☐ Pulmonary fistula	Clavien-Dindo version 2.0	☐ Grade 1-2 ☐ Grade 3a ☐ Grade 3b ☐ Grade 4a ☐ Grade 4b ☐ Grade 5 ☐ No data
		☐ Chylothorax	Clavien-Dindo version 2.0	☐ Grade 1-2 ☐ Grade 3a ☐ Grade 3b ☐ Grade 4 ☐ Grade 5 ☐ No data
		☐ Pleural effusion	Clavien-Dindo version 2.0	☐ Grade 1-2 ☐ Grade 3a ☐ Grade 3b ☐ Grade 4a ☐ Grade 4b ☐ Grade 5 ☐ No data
		☐ Lung torsion	Clavien-Dindo version 2.0	☐ Grade 1-2 ☐ Grade 3a ☐ Grade 3b ☐ Grade 4a ☐ Grade 4b ☐ Grade 5 ☐ No data
		☐ Postoperative hemorrhage	Clavien-Dindo version 2.0	☐ Grade 1-2 ☐ Grade 3a ☐ Grade 3b ☐ Grade 4a ☐ Grade 4b ☐ Grade 5 ☐ No data
		☐ Pneumonia	Clavien-Dindo version 2.0	☐ Grade 1-2 ☐ Grade 3a ☐ Grade 3b ☐ Grade 4a ☐ Grade 4b ☐ Grade 5 ☐ No data

☐ Pyothorax	Clavien-Dindo version 2.0	☐ Grade 1-2 ☐ Grade 3a ☐ Grade 3b ☐ Grade 4a ☐ Grade 4b ☐ Grade 5 ☐ No data
☐ Wound infection	Clavien-Dindo version 2.0	☐ Grade 1-2 ☐ Grade 3a ☐ Grade 3b ☐ Grade 4a ☐ Grade 4b ☐ Grade 5 ☐ No data
☐ Thrombosis/embolism	Clavien-Dindo version 2.0	☐ Grade 1-2 ☐ Grade 3a ☐ Grade 3b ☐ Grade 4a ☐ Grade 4b ☐ Grade 5 ☐ No data
☐ Subcutaneous emphysema	Clavien-Dindo version 2.0	☐ Grade 1-2 ☐ Grade 3a ☐ Grade 3b ☐ Grade 4 ☐ Grade 5 ☐ No data
☐ pulmonary fibrosis	CTCAE v 4.0	☐ Grade 1-2 ☐ Grade 3 ☐ Grade 4 ☐ Grade 5 ☐ No data
☐ Respiratory failure	CTCAE v 4.0	☐ Grade 1-2 ☐ Grade 3 ☐ Grade 4 ☐ Grade 5 ☐ No data
☐ Cardiac disorders	CTCAE v 4.0	☐ Grade 1-2 ☐ Grade 3 ☐ Grade 4 ☐ Grade 5 ☐ No data
☐ Renal and urinary disorders	CTCAE v 4.0	☐ Grade 1-2 ☐ Grade 3 ☐ Grade 4 ☐ Grade 5 ☐ No data
☐ Hepatobiliary disorders	CTCAE v 4.0	☐ Grade 1-2 ☐ Grade 3 ☐ Grade 4 ☐ Grade 5 ☐ No data
☐ Delirium	CTCAE v 4.0	☐ Grade 1-2 ☐ Grade 3 ☐ Grade 4 ☐ Grade 5 ☐ No data

		☐ Other psychiatric disorders	CTCAE v 4.0	☐ Grade 1-2 ☐ Grade 3 ☐ Grade 4 ☐ Grade 5 ☐ No data
		☐ Others	CTCAE v 4.0	☐ Grade 1-2 ☐ Grade 3 ☐ Grade 4 ☐ Grade 5 ☐ No data
Chemotherapy				
	1st Line	Date month year (yyyy)		
	1st Line regimen	O CDDP+PEM O CBDCA+PEM O CDDP+GEM O CBDCA+GEM O PEM O Others		
	2st Line	Date month year (yyyy)		
	2st Line regimen	O CDDP+PEM O CBDCA+PEM O CDDP+GEM O CBDCA+GEM O PEM O Others		
	3st Line	Date month year (yyyy)		
	3st Line regimen	O CDDP+PEM O CBDCA+PEM O CDDP+GEM O CBDCA+GEM O PEM O Others		
	4st Line	O No O Yes		
Radiotherapy				
	Sites irradiated	O Hemithoracic O Prophylactic focal radiotherapy to incisions/tract sites only O Mediastinal ± hilar only O Radiotherapy to symptomatic focal lesions*(and none of 1-3 above applies) O No data		
	Type of radiation therapy	O Conventional O Conformal-3D O IMRT O Others O No data		
	Total dose radiation	O No O Yes Gy O No data		
Non-surgical treatment				

1st treatment	○ Chemotherapy	
	○ Radiotherapy	
1st treatment	Date month year (yyyy)	
2st treatment	○ Chemotherapy	
	○ Radiotherapy	
2st treatment	Date month year (yyyy)	
3st treatment	○ Chemotherapy	
	○ Radiotherapy	
3st treatment	Date month year (yyyy)	
Chemotherapy		
	1st Line	Date month year (yyyy)
	1st Line regimen	○ CDDP+PEM ○ CBDCA+PEM ○ CDDP+GEM ○ CBDCA+GEM ○ PEM ○ Others
	2st Line	Date month year (yyyy)
	2st Line regimen	○ CDDP+PEM
		○ CBDCA+PEM
		○ CDDP+GEM
		○ CBDCA+GEM
		○ PEM
		○ Others
	3st Line	Date month year (yyyy)
	3st Line regimen	○ CDDP+PEM
		○ CBDCA+PEM
		○ CDDP+GEM
		○ CBDCA+GEM
		○ PEM
		○ Others
	4st Line	○ No
		○ Yes
Radiotherapy		
	Sites irradiated	○ Hemithoracic
		○ Prophylactic focal radiotherapy to incisions/tract sites only
		○ Mediastinal ± hilar only
		○ Radiotherapy to symptomatic focal lesions* (and none of 1-3 above applies)
		○ No data
	Type of radiation therapy	○ Conventional
		○ Conformal-3D
		○ IMRT
		○ Others
		○ No data
	Total dose radiation	○ No
		○ Yes
		Gy
		○ No data
Follow-up		
Date of last follow-up	Date month year (yyyy)	
Vital status at last follow-up	○ Alive without disease	
	○ Alive with disease	
	○ Dead of cancer	
	○ Dead of other disease	
	Lost to follow-up	
	○ No data	

Date of initial relapse	Date month year (yyyy)	
Location of initial relapse	☐ Ipsilateral hemithorax	
		☐ Chest wall
		☐ Ipsilateral mediastinal lymph node
		☐ Axillary, sub- and supraclavicular lymph node
		☐ Diaphragm
		☐ Pericardium
	☐ Distant failure	
		☐ Contralateral hemithorax
		☐ Chest wall
		☐ Intrapulmonary
		☐ Mediastinal lymph node
		☐ Axillary, sub- and supraclavicular lymph node
		☐ Diaphragm
		☐ Pericardium
		☐ Abdomen
		☐ Peritoneum
		☐ Abdominal organs
		☐ Abdominal lymph node
	☐ Other distant	
		☐ Muscle
		☐ Bone
		☐ Cervical lymph node
		☐ Others