

**Supplementary Table 1.** Cases of mediastinal mature teratoma with malignant transformation with adenocarcinoma.

	Age (years)	Sex (M/ F)	Clinical signs	Tumor markers	Chemotherapy	Radiotherapy	Histology (immunohistochemistry)	Metastasis	Evolution
Morinaga et al., 1994 [8]	66	M	Hemoptysis, Weight loss	HCG- AFP-	No	no	Teratoma + Adenocarcinoma simultaneously	No	Alive at 30 months after surgery
Jung et al., 2000 [9]	49	M	Chiefly hemoptysis	-	Yes	no	Teratoma+ adenocarcinoma simultaneously	yes	Died 6 months after surgery

<p>Popp et al., 2003 [10]</p>	<p>27</p>	<p>M</p>	<p>Shortness of breath Tachypnoea, Hypoxia Wheezing, Productive cough, Weight loss</p>	<p>HCG+ AFP-</p>	<p>Cisplatin Etoposide Ifosfamide × 4</p>	<p>no</p>	<p>Teratoma+ adenocarcinoma simultaneously</p>	<p>Pleural nodules Mediastinal and hilar lymphadenopathy</p>	<p>-</p>
<p>Michel and Pratt, 2004 [11]</p>	<p>20</p>	<p>M</p>	<p>Nausea, Fatigue, Orthopnea, dysphagia</p>	<p>HCG- AFP+</p>	<p>Cisplatin Etoposide Bleomycin × 4 Cisplatin ifosfamide Paclitaxel × 2 (metastasis)</p>	<p>no</p>	<p>Teratoma + adenocarcinoma + chondrosarcoma+ sarcoma simultaneously</p>	<p>Lung and peritoneal metastases 6 weeks after surgery</p>	<p>Died 9 months after initial diagnosis</p>

Seki et al., 2004 [12]	34	M	Asymptomatic	-	No	No	Teratoma+ adenocarcinoma	No	-
Chang et al., 2006 [13]	35	M	Low back pain	HCG- AFP-	No	no	Teratoma + Gastrointestinal adenocarcinoma concomitantly CK7-/CK20+	no	Alive at 2 years after surgery
Duran et al., 2007 [14]	29	M	Asymptomatic	HCG + AFP +	Cisplatin Etoposide Bleomycin × 4 Cisplatin ifosfamide Vinblastine × 2 (metastasis)	no	Teratoma+ gastro-intestinal adenocarcinoma + sarcoma simultaneously	Pulmonary, eyelid and liver metastases 2 months later (sarcoma	Alive at 4 months after metastasis diagnosis

<p>El Mesbah et al., 2007 <a href="#">[15]</a></p>	-	-	-	-	<p>Cisplatin Bleomycin 5- fluorouracil Oxaliplatin Irinotecan Methotrexat e</p>	yes	<p>Teratoma + adenocarcinoma 14 years after</p>	no	<p>Died  after  transformation</p> <p>6 m o n t h s  m a l i g n a n t</p>
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Chenet al., 2008 [16]	59	F	Chest distress Dyspnea	HCG–AFP +	Yes	no	Teratoma+ adenocarcinoma concomitantly	Pleural metastasis	Died 2 weeks after starting chemotherapy (traffic accident)
Saitou and Niitsuma, 2008 [17]	32	F	Anterior chest pain	-	No	no	Teratoma+ adenocarcinoma concomitantly	-	-
Sakurai et al., 2008 [18]	57	M	Asymptomatic	HCG– AFP–	Paclitaxel Carboplat in	no	Teratoma + adenocarcinoma 6 months after	no	Alive at 20 Months After surgery
Shimizu et al, 2008 [19]	43	F	Exertional	HCG–	No	no	Teratoma + adenocarcinoma	no	Alive at 6 months

Khurana et al., 2011 [20]	21	M	Asymptomatic	HCG- AFP-	No	no	Teratoma+ adenocarcinoma colonic type  Cdx2+	no	Alive at 6 months after surgery
Muramat su et al., 2011 [21]	65	F	Asymptomatic	-	No	no	Teratoma+ adenocarcinoma simultaneously	no	Alive

Kim et al., 2012 [22]	44	M	Asymptomatic	HCG- AFP-	No	36 Gy in 6 fractions	Teratoma + adenocarcinoma + sarcoma simultaneously CK7+ CK20-, Cdx2-	Pleural metastasis at 10 months after surgery: adenocarcinoma	Alive at 10 months after surgery
Dechaphunkul et al., 2012 [23]	47	M	Chest tightness, Shortness of breath	HCG- AFP+	Irinotecan 5- fluorouracil Leucovorin × 7	no	Teratoma+ colonic type adenocarcinoma simultaneously CK7- CK20+ Cdx2+	Supraclavicular lymph node	Died 9 months

<p>Paliwal et al., 2013 <a href="#">[24]</a></p>	<p>32</p>	<p>F</p>	<p>Dry cough Chest</p>	<p>-</p>	<p>no</p>	<p>no</p>	<p>Teratoma       concomitantly</p>	<p>+ ad en oc ar ci no m a  no</p>	<p>Alive at 2 months after surgery</p>
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<p>Abid et al., 2013 [25]</p>	<p>46</p>	<p>M</p>	<p>Atypical anterior chest pain</p>	<p>HCG- AFP-</p>	<p>Cisplatin Etoposide Bleomycin × 3</p>	<p>no</p>	<p>Teratoma+  concomitantly  CK7+ CK20 +</p>	<p>a d e n o c ar ci n o m a  Hilar and mediastinal lymph nodes</p>	<p>Died 1 year after diagnosis</p>
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Habougit et al., 2015 [26]	76	M	Deep vein thrombosis of left arm	HCG- AFP-	Oxaliplatin 5- fluorouracil × 3 Carb oplat in Pacli taxel	no	Teratoma+ adenocarcinoma concomitantly	Subcutaneous and lymph nodes: teratoma+ade nocarcinoma	Alive at 1 year
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<p>Lin et al., 2016 <a href="#">[27]</a></p>	<p>25</p>	<p>M</p>	<p>Heaviness of chest</p>	<p>-</p>	<p>Docetaxel × 2 Cisplatin Etoposide Bleomycin × 1 Irinotecan 5- fluorouracil × 8</p>	<p>56 Gy in 28 fractions</p>	<p>Teratoma+           concomitantly  CK7+ CK20+, Cdx2+</p>	<p>a d e n o c ar ci n o m a  Right hilar node, mesenteric and peritoneal metastases 2 months after radiotherapy</p>	<p>Alive at 6 months after FOLFIRI</p>
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Le Fève et al, 2017 [28]	21	M	Left leg pain, chest pain	HCG + AFP +	Cisplatin Etoposide Ifosfamide × 6 Oxaliplatin 5- fluorouracil Cetuximab × 4	In sacrum post-surgery: 54 Gy in 30 fractions	Teratoma in mediastinal mass 10 years after teratoma+ adenocarcinoma in bone metastasis CK7- ; CK20+; Cdx2+	Pulmonary Bone Ten years after adenocarcinoma	Alive at 12 months after transformation diagnosis
Murakami et al, 2020 [29]	54	M	Chest pain and dyspnea	HCG- AFP-	-	-	Teratoma+ subcentimeter adenocarcinoma CDX2+	no	Alive at 8 months after transformation diagnosis
Present case report	33	F	chest pain and dyspnea	HCG- AFP-	Cisplatin Etoposide x6	-	Teratoma+ adenocarcinoma concomitantly CK7+; CK20-	Pulmonary, diaphragma,, pleura, subcutaneous	Alive at 6 months after surgery

