

Clinico-pathological data at time of surgery							Primary tumor site identified by miRNA Profile					
Patient #	Specimen #	ID HD	Sex	Diagnosis	Ca in PMH	primary tumor site based on pathology and IH	primary tumor site based on additional investigations	Suggested origin 1	Suggested origin 2	Score	Score a/b	1st Immunohistochemical phenotype
1	1	130	f	CUP	-	Lung		lung-Adeno_large	thyroid-follicular	1	-	TTF1 pos., TG neg., CK7 pos., CK20 neg.
2	2	131	f	CUP	-	Lung (SCLC)		lung	N/A	1	-	TTF1 pos., TG neg., Syn pos., NSE pos.
3	3	133	m	MET	bladder	Lung		thyroid-papillary	lung-Adeno_large	1	-	TTF1 pos., CK7 pos., CK20 neg., CK5/6 neg.
4	4	136	f	CUP	-	Lung vs. Thyroid		ovary-Endometrioid	lung-Adeno_large	1	-	TTF1 pos., Mammaglobin neg., TG neg.
5	5	137	m	MET	prostate	Lung		lung-small cell	N/A	1	-	TTF1 pos., TG neg., PSA/PSAP neg., Surfacta
6	6	138	m	CUP	-	pathology fails to identify primary		lung-small cell	N/A	1	-	TTF1 neg., Syn neg., TTF1 neg., Syn neg.
7	7	139	f	CUP	-	Lung (SCLC)		lung-small cell	N/A	1	-	TTF1 pos., NSE/Syn/CD56 pos.
8	8	141	m	CUP	-	Lung		lung-small cell	N/A	1	-	TTF1 pos., PSA neg., Syn neg., NSE pos.
9	9	143	m	CUP	-	Ovarian vs. Uterus vs. Stomach		colon	stomach_esophagus-Adeno	1	-	CK7 pos., CK20 pos., CDX2 neg., CK5/6 neg.
10	10	144	m	CUP	-	Lung (SCLC)		lung-small cell	prostate	1	-	TTF1 pos., CK7 pos., CK20 neg., TG neg.
11	11	145	m	CUP	-	Lung (Adeno-Ca)		lung-Adeno_large	N/A	1	-	TTF1 pos., CK7 pos., CK8/18 pos., CK19 pos.
12	12	146	m	CUP	-	Lung (NSCLC/ neuroendocrine)		head_neck	lung-squamous	1	-	TTF1 neg., TG neg., CK5/6 neg., CK20 neg., C
13	13	148	f	CUP	-	Lung (Adeno-Ca)		lung-Adeno_large	breast	1	-	TTF1 pos., HMB45 neg., AE1/3/CL1 pos., CK7
14	14	151	m	CUP	-	Lung (Adenopapillary-Ca)	Lung (SCLC)	lung-small cell	N/A	1	-	TTF1 pos., CK7 pos., TTF1 pos., CK7 pos.
15	15	153	m	CUP	-	Adeno-Ca of unknown provenience		colon	N/A	1	-	no immunohistochemistry
16	16	155	f	CUP	-	Lung (Neuroendocrine-Ca) vs. Colorectal- Ca		lung-small cell	N/A	1	-	TTF1 pos., CD56 pos., MAP2 pos., Enolase p
17	17	156	m	CUP	-	Kidney (Renal Cell- Ca later diagnosis changed into chordoma		kidney	N/A	1	-	TTF1 neg., CEA neg., PSA neg., PNRA neg., M
18	18	159	m	CUP	-	Kidney (Renal Cell- Ca)		kidney	N/A	1	-	AE1/3 pos., KL1 pos., Vimentin pos., PNRA po
19	19	161	m	CUP	-	Skin (amelanotic malignant melanoma)		melanoma	N/A	1	-	HMB45 pos., S100 pos., Vimentin pos.
20	20	164	f	CUP	-	Breast vs. Lung (Squamous cell Ca)		thyroid-medullary	lung-Adeno_large	1	-	no immunohistochemistry
21	21	172	f	CUP	-	Lung (Adeno-Ca)		thyroid-medullary	lung-Adeno_large	1	-	no immunohistochemistry
21	22	173	f	CUP	-	Lung (Adeno-Ca)		ovary-Endometrioid	lung-Adeno_large	1	-	no immunohistochemistry
21	23	174	f	CUP	-	Lung (Adeno-Ca)		lung-Adeno_large	N/A	1	-	no immunohistochemistry
22	24	128	m	CUP	-	Lung (SCLC)		lung	N/A	1	-	TTF1 pos., Syn pos., NSE pos., MIB 95%
23	25	124	m	CUP	-	Lung		head_neck	lung-squamous	2	a	CK7 pos., CK20 neg., TTF1 neg., CDX2 neg., I
24	26	126	f	MET	breast	Lung		head_neck	lung-Adeno_large	2	a	TTF1 focally pos., mammaglobin neg., ER/PR
25	27	134	f	CUP	-	Lung (NSCLC)		ovary-Endometrioid	lung-Adeno_large	2	a	TTF1 pos., CK7 pos., CK5/6 neg., Chromogran
26	28	135	m	MET	prostate	Lung (SCLC)		lung-small cell	N/A	2	a	TTF1 pos., CK7 neg., CK5/6 neg., PSA/PSAP
27	29	140	f	CUP	-	Lung vs. Thyroid		lung	N/A	2	a	TTF1 pos., Mammaglobin neg., ER/PR neg., C
28	30	154	m	CUP	-	Kidney (Renal Cell Ca)		kidney	N/A	2	a	Vim pos., KL1 pos., S100 pos.,
29	31	160	f	CUP	-	GI- tract (Adeno-Ca)		thyroid-medullary	stomach_esophagus-Adeno	2	a	no immunohistochemistry
30	32	165	f	CUP	-	pathology fails to identify primary		lung-small cell	N/A	2	a	pos.: Lu5; neg.: Synapto., Chromogranin
31	33	176	f	CUP	-	Kidney (Renal Cell-Ca)		kidney	melanoma	2	a	no immunohistochemistry
32	34	178	m	CUP	-	Lung (squamous cell Ca)	Lung (SCLC)	lung-small cell	head_neck	2	a	no immunohistochemistry
33	35	179	m	CUP	-	Lung (Adeno-Ca)		lung-Adeno_large	N/A	2	a	no immunohistochemistry
34	36	180	m	CUP	-	Lung (Adeno- vs. Squamous cell Ca)		lung-Adeno_large	N/A	2	a	no immunohistochemistry
35	37	182	m	CUP	-	Stomach (Cardia-Ca)		lung-carcinoid	stomach_esophagus-Adeno	2	a	no immunohistochemistry
36	38	184	m	CUP	-	pathology fails to identify primary		breast	lung-Adeno_large	2	a	S100 neg., Melan A neg., Lu5 pos.
37	39	157	f	CUP	-	pathology fails to identify primary		ovary-Endometrioid	lung-Adeno_large	2	b	
38	40	166	f	LYMPHOMA	-	pathology fails to identify primary		lung-small cell	melanoma	2	b	Syn pos., CD20/CD3/LCA neg., AE1/3/Lu5/KL
39	41	168	m	CUP	-	unidentified site (malignant neuroendocrine tumor)		lung-carcinoid	N/A	2	b	KL1 pos., AE1/3 neg., KL1 pos., AE1/3 neg.
39	42	169	m	CUP	-	unidentified site (malignant neuroendocrine tumor)		lung-carcinoid	N/A	2	b	KL1 pos., AE1/3 neg., KL1 pos., AE1/3 neg.
40	43	181	f	CUP	-	Stomach (Signet-ring cell- Ca)		colon	biliary_track_carcinoma - nonLiver	2	b	Lu5 pos., Vim pos., EMA pos
41	44	127	m	CUP	-	Lung		head_neck	thymus	3	-	TTF1 pos., TG neg., TTF1 pos., TG neg.
42	45	149	f	CUP	-	Kidney (Renal Cell-Ca)		breast	lung-Adeno_large	3	-	AE1/3 pos., KL1 (also cytokeratin) pos.
43	46	177	f	CUP	-	GI-tract (Adeno-Ca)	Lung (Adeno-Ca)	breast	thyroid-medullary	3	-	no immunohistochemistry
44	47	185	f	CUP	-	Breast		lung-small cell	head_neck	3	-	no immunohistochemistry
45	48	132	m	CUP	-	GI- tract vs. Lung		head_neck	N/A	4	-	TTF1 neg., TG neg., CK7 pos., CEA pos., CK2
46	49	142	m	MET	NSCLC	Squamous cell Ca. (Lung?)		head_neck	N/A	4	-	TTF1 neg., CK5/6 pos., CK7 neg., CK8/18 pos
47	50	147	m	GLIOMA	-	Lung (Adeno-Ca vs. Squamous cell Ca)		head_neck	N/A	4	-	TTF1 pos., TG neg., CK20 pos., CK5/6 pos.
48	51	150	m	MET	prostate	Urothelial Ca (Prostate- Ca ruled out)		lung-small cell	N/A	4	-	UAE pos., CK13/Syn/Chrom. neg., PSA neg.
49	52	152	m	GLIOMA	-	Lung (NSCLC)		melanoma	kidney	4	-	TTF1 pos., CK14 pos., TTF1 pos., CK14 pos.,
50	53	175	f	CUP	-	Lung (Squamous cell Ca)		head_neck	N/A	4	-	no immunohistochemistry
51	54	162	m	GLIOMA	-	pathology fails to identify primary		head_neck	N/A	unknown	-	no immunohistochemistry
52	55	163	m	CUP	-	pathology fails to identify primary		head_neck	N/A	unknown	-	no immunohistochemistry
53	56	171	m	CUP	-	pathology fails to identify primary		breast	lung-small cell	unknown	-	Lu5 pos., Lu5 pos., Lu5 pos., Lu5 pos., Lu5 pos.
54	57	183	f	CUP	-	Lung vs. Ovar (Adeno-Ca)		lung-squamous	head_neck	unknown	-	no immunohistochemistry

Clinco- pathological data after clinical work-up following surgery			
2nd line Immunohistochemistry	clinically verified origin	histologically verified origin	Comment
	Lung	-	-
	Lung (SCLC)	-	tumor- suggestive lesion in lung
	Lung	-	-
	Lung (Adeno-Ca)	Lung (Adeno-Ca)	-
	Lung	-	tumor- suggestive lesion in lung
	Lung	cytology from BAL with tumor suggestive cells	tumor suggestive lesion in lung
	Lung (SCLC)	cytology from BAL with tumor suggestive cells	tumor suggestive lesion in lung
	Lung (SCLC)	-	tumor suggestive lesion in lung
	Stomach-Ca	Stomach-Ca (Adeno-Ca)	-
	Lung (SCLC)	Lung (SCLC)	-
	Lung	-	tumor suggestive lesion in lung
	Lung	-	tumor suggestive lesion in lung
	Lung	-	tumor suggestive lesion in lung, clinically tTyroid Ca also suspected
pos.: AE1/3, Synaptophysin, Chromogranin	Lung	-	tumor suggestive lesion in lung
	GI-tract, (Rectum -Ca)	GI-tract, (Rectum -Ca)	-
	Lung (SCLC)	Lung (SCLC)	patient dead
	Renal cell carcinoma	Renal cell carcinoma	-
	Renal cell carcinoma and stomach cancer	Renal cell carcinoma and stomach cancer	-
	amelanotic malignant melanoma	amelanotic malignant melanoma	primary skin lesion not found
	lung cancer	-	tumor suggestive lymph nodes in lung hilus
	Lung (Adeno-Ca)	-	Lung (Adeno-Ca) documented
	Lung (Adeno-Ca)	-	Lung (Adeno-Ca) documented
	Lung (Adeno-Ca)	-	Lung (Adeno-Ca) documented
	SCLC	-	tumor- suggestive lesion in lung
	Breast- Ca	Breast- Ca diagnosis in 2002	no work- up for potential primary lung tumor
	-	-	-
	no data on clinical work- up; patient dead	-	-
	no primary found to date	no primary tumor found to date	-
	no verified tumor	-	tumor-suspectve lesion in lung
	no clinical follow up	-	-
	no data on clinical work-up	-	stereotactic biopsy
	no clinically verified primary tumor site	-	-
pos.: AE1/3; CK7; Mib1: 85%neg.; CK5/6;	no data on clinical work-up	-	-
	no clinically verified primary tumor site	-	stereotactic biopsy
	no clinically verified primary tumor site	-	-
	no clinically verified primary tumor site	-	-
	no clinically verified primary tumor site	-	-
	no primary found to date	-	-
	no data on clinical work-up	-	stereotactic biopsy
	-	-	-
	no clinically verified primary tumor site	-	-
	-	-	-
	no primary found to date	-	-
pos.: AE1/3, CK7, TTF1, Mib1: 30%; neg.	no data on clinical work-up	-	-
pos.: CK7; MG; neg.: CK5/6; CK20; TTF	no data on clinical work-up	-	-
	Lung	-	tumor- suggestive lesion in the lung
	Lung	Lung	-
	Lung	-	tumor- suggestive lesion in lung
	Prostate-Ca	Prostate-Ca	-
	Lung	-	tumor- suggestive lesion in lung
	Lung	-	tumor- suggestive lesion in lung
	no primary found to date	-	-
	Lung	-	tumor- suggestive lesion in lung
	no data on clinical work-up	-	-
	no data on clinical work-up	-	-