

Metastatic basal cell carcinoma to the bone: a case of bone metastasis in uncommon sites

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Supplementary Table 1.

Reports of patients with diagnosis of Basal Cell Carcinoma metastatic to the bone (1930-2020).

Author, year *	Gender	Age	Primary tumor site	Bone met	BM met	Other	Time between primary tumor and metastasis	Survival after diagnosis of mts	Treatments of metastasis
Spies JW 1930	NR	NR	Cheek	Yes		Lung, liver, spleen, dura	10 years	6 months	X-ray
De Navasquez S1941	NR	NR	Forehead			Lung	20 years	1 year	X-ray
Singer A 1944	NR	NR	Face	Yes			5 years	2 months	none
Cotran RS 1961	NR	NR	Scapula	Yes		Lung	45 years	1 year	X-ray
Crawford HJ 1964	NR	NR	Scalp	Yes		Liver, pancreas, lung, spleen	9 years	2 months	none
Chien WL 1966	NR	NR	Ear	Yes		Lung	7 years	6 months	X-ray
Stell JS 1966	NR	NR	Nasolabial			Lung	7 years	1.6 years	X-ray
Assor D 1967	NR	NR	1) Nasolabial 2) Scalp	1) Yes 2) Yes			1) 6 years 2) 3 years	1) 1 year 2) NR	1) none 2) X-ray
Coletta DS 1968	NR	NR	Leg	Yes		Lung	5 years	0	none
Crammer L 1970	M	42	Right scapula	Left femur		Skin	6 years	NR	X-ray
Beretta G 1970	NR	NR	Eyelid	Yes			6 years	1 year	X-ray
Hall TE 1970 (2 pts)	NR	NR	1) Chest 2) Eyelid			1) LN 2) LN, lung, dura	1) 10 years 2) 22 years	1) 6 years 2) 5 years	1) none 2) none
Mantell BS 1972	NR	NR	Scalp	Yes		Lung	15 years	NR	X-ray
Cornelius CE 1972	NR	NR	Nose	Yes	Yes		6 years	1 year	none
Harris JH Jr 1972	NR	NR	Orbit, nose	Yes			17 years	2.6 years	X-ray
Jackson R 1973	NR	NR	1) Upper lip 2) Neck	1) Yes 2) Yes		1) Lung 2) LN	1) 13 years 2) 8 years	1) 1 year 2) 2 years	1) X-ray 2) X-ray
Funkhouser JW 1973	NR	NR	Cheek	Yes			19 years	6 months	X-ray
Mikhail GR 1977 (2 pts)	1) M 2) F	1) 57 2) 59	1) Left cheek 2) Face	1) Left iliac bone, L2 Left mastoid 2) Maxillary bone, column, ischium		2) Parietal scalp, sc tissues sc	1) 8 years 9 years 2) 1 year 1.5 year	1) 9 years 2) 1.5 year	1) Bleomycin 2) Bleomycin MTX + Leucovorin

*references are intragally reported after the table

Christeen M 1978	1) NR 2) NR	1) NR 2) NR	1) NR 2) NR	1) Yes 2) Yes		1) NR 2) NR	1) NR 2) NR	1) NR 2) NR	1) NR 2) NR
Bryarly RC 1980	F	53	Right ear	Left femur, ribs, sternum	Yes		1 year	1 year	Surgery, RT
Rugge M 1982	NR	NR	NR	Yes			NR	NR	NR
Kleinberg C 1982	NR	NR	NR	Yes			NR	NR	NR
Weshler Z 1984	F	34	Eyelid	Frontal bone C7, T8-T10, ribs, pelvis, right ilium, left femur		Dura	2 years 2.2 years	4 years	Surgery, RT RT
Conley J 1985	NR	NR	Nose	Yes		Lung, skin, sc tissues, hypopharynx	NR	NR	Surgery
Hartman R 1986	NR	NR	NR	Column Column	Yes Yes		NR NR	3 years	RT Surgery
Winkler PA 1987	M	48	Forehead (Gorlin Syndrome)	Skull, ribs		Lung	22 years	3 months	Surgery, CHT
Postlethwaite KR 1990	M	80	Face	Local bones		Liver, gut	1 year	NR	NR
Bason MM 1990	F	53	Neck	Vertebrae, ribs, clavicles, femurs Multiples	Yes Yes Yes	Lung, pleura, pelvis Skin	0 1 year 1 year	2 years	Cisplatin + Bleomycin + MTX + Leucovorin Cisplatin + 5-FU Surgery, RT, MTX + 5-FU
Quin JD 1990	F	57	NR	Rib			0	2 months	none
Lo JS 1991	NR	NR	NR	Yes		LN	NR	NR	NR
Ko CB 1992	1) M 2) F 3) F	1) 61 2) 70 3) 80	1) Head 2) Scalp 3) Glabella	1) Ethmoids, maxilla, skull base 2) Local bones 3) Local bones		1) Brain 2) Dura, brain Local skin, dura, brain 3) Local skin Local	1) NR 2) 7 years 5 years 3) NR 5 years	1) 3 months 10 months 3) 0	1) none 2) Surgery, RT Surgery Surgery
Beer RE 1992	M	43	Left ear	Column, skull, both scapulae, bony pelvis, right femur	Yes		2 years	3 months	Surgery, RT, Cisplatin + Adriamycin
Morselli P 1993	M	46	Back	Column, skull		Local	11 years	NR	RT
Long SD 1993	M	40	Scalp	Local bones		Brain Brain	8 years 3 years	3 years	RT RT
Oram Y 1994	M	67	Scalp	T4-T6	Yes		6 months	NR	RT
Wallny T 1996	M	61	Temple skin	Column			11 years	NR	NR
Kogan L 2000	M	68	Scalp, left leg Shoulder skin	Local bones Column	 Yes		0 5 months	NR	Surgery NR

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Jarus-Dziedzic K 2000	F	69	Head	Local bones	Yes Yes	Dura, brain	1 year	NR	Surgery, RT NR
Van Bockel LW 2003	NR	NR	Head	Yes		Parotid, LN	NR	NR	Surgery, RT
Adem K 2004	F	64	Multiples (Gorlin Syndrome)	Rib, bilateral hip, iliac bones, sacrum, bilateral femurs		Lung	0	NR	NR
Ting PT 2005	F	47	Left malar eminence	Ribs, right maxilla, vertebrae, right femur		Lung	2 years	Few months	none
Puri T 2006	F	66	Left canthus	Right clavicle, left superior pubic ramus, skull, ribs, column, left scapula	Yes		0	NR	NR
Alonso V 2006	M	53	Multiples	Column	Yes	LN, lung	NR	NR	RT
Rodriguez C 2007	NR	NR	NR	Yes			NR	NR	NR
Caron J 2009	1) M 2) M	1) 45 2) 58	1) Nose 2) Right axilla	1) Yes 2) Yes		1) Parotid, lung 2) LN, lung	1) NR 2) NR	1) NR 5 months 3 months	1) Carboplatin + paclitaxel + MTX Cetuximab EGFR overexpression 2) Cetuximab
Elghissassi I 2009	M	48	Forehead	7 th rib, column	Yes	Local skin	10 years	3 weeks	Cisplatin
Sakai T 2011	F	87	Vulva	Left pubic bone		Local skin, pubic muscles	4 years	2 years	Surgery
Alimoglu Y 2011	M	65	Face	L4-L5 Multiples		Local skin, nasal cavity Liver	2 years 5 years	6 months	Surgery NR
Taylor E 2012	F	86	Left shoulder	Sternum, first rib, sacrum, right acetabulum, femur			0	6 weeks	Palliative RT
Galioto S 2012	1) F 2) M	1) 89 2) 80	1) Nose 2) Face, scalp	1) Mandible 2) Mandible		2) Submandibular gland, LN, brain	1) 1.3 year 2) 1.6 year	1) NR 2) NR	1) Surgery 2) Surgery
Stewart NC 2013	M	51	Back	T3, left 5 th rib		Lung	3 years	NR	Vismodegib
Di Lerna V 2013	M	66	Left side of the flank	Yes	Yes	LN, lung, liver	0	7 months	Carboplatin + docetaxel
Tang S 2016	M	70	Mild upper back	Yes		LN, lung, skin	0	4.5 years	RT
Piva de Freitas P 2017	M	58	Maxillary region	L5		LN Local	7 months NR	1.9 years	Surgery Carboplatin + paclitaxel

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Awad R 2018	M	69	Left shoulder	Left clavicle, glenoid, humeral head		Skin, LN, lung	0	NR	Vismodegib, RT
Pabst A 2018	F	44	Face	Axial skeleton			1 year	NR	Vismodegib
Tillman E 2019	F	60	Face	Right frontotemporal bone, sphenoid, and skull base, hilum, C7		Lung, LN	NR	NR	NR
Fram BR 2019	F	71	Right shoulder	Right shoulder, right and left mid femoral shafts		None	NR	1 months	RT
Glen P 2020	F	73	Right eyebrow	Orbit		None	0	2.7 years	Vismodegib
Bisceglia M 2020	F	43	Retroauricular	Cranium, vertebral column, ribs, pelvis and left femur	Yes	Lung	NR	5 months	None
Nigro O 2021	M	73	Back	Left femur, left omerus, right scapula, D4, D5, D8, D11, S1, right acetabulum	Yes	Scutaneous, skin	10 years	Alive	Vismodegib RT

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