

Study	Surgical management	Margins	Recurrence	Survival/Outcome	Follow up time
Augenstein et al. 2012 ¹⁶	Wide local excision - 59 (100%)	Not specified	Locoregional - 4 (8.5%) distant - 5 (10.6%)	Not specified	Not specified
Benmeir et al. 1995 ⁶	Wedge resection - 7 (53.9%) Total auriclectomy - 3 (23.1%) Excision and skin grafting - 2 (15.4%) Partial auriclectomy - 1 (7.7%)	Not specified	Overall - 1 (7.7%)	Mean - 45.77 months	Not specified
Cohen et al. 1990 ⁴¹	Wide local excision of retroauricular area with elective modified radical lymph node dissection - 1 (100%)	3cm	Overall - 0 (0%)	1 year	1 year
Cole et al. 1992 ⁹	Local excision with split thickness graft - 3 (9.7%) Wedge excision - 16 (51.6%) Partial amputation - 10 (32.3%) Total amputation - 2 (6.5%) *elective radical neck dissection in 5 cases	Not specified	Local - 2 (6.5%) Local/regional - 4 (12.9%) Distant - 4 (12.9%)	1 year - 31 (93%) 2 years - 27 (85%) 5 years - 25 (77%) 10 years - 17 (47%)	7.12 years
Craig et al. 2012 ²²	"most were treated with partial amputation. Two with posterior ear melanoma treated conservatively with only removal of skin an perichondrium"	Not specified	Not specified - no outcomes data	Not specified	Not specified
Byers et al. 1980 ¹⁰	No treatment with follow up: 36 (35.3%) Wedge excision: 36 (35.3%) Partial amputation: 21 (20.6%) Total amputation: 9 (8.8%)	Not specified	Not specified	2 years - 60% 5 years - 12% 10 years - 6% 46 (45%) died from melanoma at conclusion of study	2 year minimum or until death
Hudson et al. 1990 ¹	Wedge resection - 6 (50%) Wide local excision - 5 (41.7%) Total ear amputation - 1 (8.3%)	wedge group mean - 6mm wide local excision group mean - 12mm	Local (wedge group) - 6 (100% of wedge group) Local (Wide local excision group) - 0 (0%) Distant (Wide local excision group) - 1 (20%) Amputation - 0 (0%)	Wedge group - 57.2 months (mean) Wide local excision group - 33.4 months (mean); 1 died at 41 months with lung mets Amputation - No evidence of disease at 70 months	48.33 months (range: 4-133 months) - endpoints were death and last follow up; 60.3 months in survivors
Jahn et al. 2005 ¹⁵	Not specified	12.6 mm (mean)	Recurrence free survival: 83% at 3 years; 79% at 5 years First recurrence Local: 14 (8.7%) satellite/in transit: 6 (3.7%) Lymph node: 10 (6.2%) Distant: 8 (5%)	14 (8.7%) died of melanoma related causes 3 years - 98% 5 years - 96%	Median - 62 months
Jones et al. 2013 ²³	Wide local excision - 49 (82%) Mohs - 10 (17%) Partial amputation - 1 (1%)	Not specified	1/3 had recurrence at mean follow up of 29 months Local - 9 (15%) Metastasis - 7 (11.7%) Both - 4 (6.7%)	5 years - 85% 10 years - 77%	Median - 38 months
McCarty et al. 2013 ²¹	Wide local excision sparing cartilage	1-2 cm	Local - 0 (0%) Regional - 1 at 25 months (5.6%) Distant - 1 at 41 months (5.6%)	Overall - 72% Disease free - 89%	Mean - 30.5 months
Narayan et al. 2001 ¹⁷	Wide local excision (neck dissection in 8 patients)	Not specified	Local - 1 (4.8%) Regional - 2 (9.5%)	Overall - 85% 5 year disease free survival - 43%	Mean - 3.5 years
Pack et al. 1970 ¹²	Wide excision - 40 Other - 1	Not specified	Local - 8 (19%) Regional - 14 (33.3%)	Not reported	Not specified
Pockaj et al. 2003 ¹¹	Excision of skin sparing cartilage - 7 (9%) Wedge excision - 45 (59%) Partial amputation - 8 (11%) Complete amputation - 5 (7%) Mohs - 11 (14%)	< 1 cm - 25 (33.3%) ≥ 1 cm - 29 (37.2%) not specified - 22 (28.2%)	Local - 10 (12.8%) Regional - 9 (11.5%) Systemic - 17 (21.8%)	5 years - 65%	Mean - 55.7 months
Ravin et al. 2006 ³¹	Wedge/local excision - 161 (80.9%) Amputation - 5 (2.5%) Total excision - 26 (13.1%) Biopsy only - 6 (3%) Subtotal excision - 1 (1%)	Attempted clear margins; no specific margin mentioned	Local = 54 (27%) Distant = 28 (14%) Regional nodes = 117 (59%)	Overall mean - 7.9 years	Median - 3.3 years
Sartore et al. 2012 ¹⁸	Wide local excision - 7 (77.8%) Partial amputation - 2 (22.2%) Cartilage spared in 2/9	1.83 cm (mean)	0 (0%)	Overall mean - 4.36 years	Median - 6.33 years
Bono et al. 1997 ¹⁴	Wedge excision with skin and cartilage - 14 (70%) Partial amputation - 6 (30%)	0.5cm - 6 (30%) 1cm - 8 (40%) >1cm - 6 (30%)	Local - 0 (0%) Regional - 7 (35%) Distant - 2 (10%)	Overall - 65% (mean)	Mean = 57 months
Davidsson et al. 1993 ¹³	Surgical excision with wide margins - 14 (87.5%) amputation - 2 (12.5%)	not specified	5 (31.25%) mean at time of 16 months	Overall - 62.5%	Mean - 50 months
Anderson et al. 1999 ³⁹	Wide local excision - 1 (100%)	1cm	Not specified	Not specified	Not specified
Kruse-Losler et al. 2006 ⁴⁰	Wide local excision with neck dissection including parotidectomy and partial mastoidectomy - 1 (100%)	2cm	Local - 0 (0%) Regional - 0 (0%) Distant - 0 (0%)	Overall - 100%	12 months
Peach et al. 2013 ⁴	Not specified	Not specified	Overall - 13.7% Locoregional - 12 (11.8%) Visceral - 2 (2%) 102 patients with follow-up	89.2% alive with no disease at last follow-up	Mean - 41 months Median - 30 months