

APPENDIX

eTable.

Summary of Complex LM/LMM Cases

Patient	Age, y/ Sex	Site	Follow-up, mo/ Status at Last Visit	Lesion Size/Initial Biopsy Depth	Challenging Factors	Impact of HRCM
1	82/F	Forehead	7/NER	1.0×0.5 cm/0.54 mm (transected)	Invasive to 0.54 mm (transected); prior treatment with cryotherapy and laser; ill-defined borders; field photodamage; actual lesion size on HRCM was >4 cm	Guided mapping biopsies; identified areas of invasion; 0.95-mm depth; mapped LM intraoperatively with extension of standard surgical margins; LMM removed in 1 stage
2	88/F	Cheek	6/stable disease	2.5×2.3 cm/0.2 mm	Multiple comorbidities; poor surgical candidate; lesion within 1 cm of oral commissure; occult invasion to 1.2 mm; extensive subclinical extension	HRCM detected areas of deeper invasion; HRCM used to determine extent of nonsurgical (radiation and imiquimod) treatment field; longitudinally monitored nonsurgical treatment; detected areas of subclinical early melanoma in situ at 6-mo follow-up
3	78/M	Preauricular area	12/NER	1.2×1.3 cm/1.3 mm	Invasive to 1.3 mm; 8 mitoses/mm ² ; surgical margins encroaching onto tragus; subclinical extension on HRCM	Confocal map used to plan surgery; extended margins beyond standard surgical margins up to 1.5 cm; lesion removed in 1 stage
4	62/M	Cheek	6/NER	Field of clinical suspicion/no biopsy was performed	History of invasive melanoma (1.7 mm) previously treated with 8 surgeries; recurrence within graft from lateral abdomen placed on cheek; cosmetically/functionally sensitive location	Guided mapping biopsies; 8/8 suspicious on HRCM for LM confirmed on histology; preoperatively mapped lesion for surgery; monitored topical imiquimod response
5	85/F	Cheek	3/NER	Multiple suspicious foci/no biopsy was performed	Poor surgical candidate; 8 prior melanomas; prior LM with extensive adnexal involvement excised 15 years prior; recurrent LMM along hypopigmented scar; extensive lesion with vague boundaries previously treated with topical imiquimod	Assess response to imiquimod; guided mapping biopsies; 4/4 positive for melanoma, with 1 invasive to 0.2 mm; guided debulking of invasive portion; removed in 1 stage

Abbreviations: LM, lentigo maligna; LMM, lentigo maligna melanoma; HRCM, handheld reflectance confocal microscopy; F, female; NER, no evidence of recurrence; M, male.