

Development of a Clinical Decision-Making Aid based on the British Association of Dermatologists (BAD) Guidelines for the Management of Cutaneous Squamous Cell Carcinoma (cSCC) 2020

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Problem

- In 2020, the BAD produced updated national Guidelines for the management of patients with cSCC.
- Substantial updates were made in risk stratification, excision margins, requirements for multidisciplinary discussion, adjuvant treatment and follow up.
- A clinical decision-making aid would assist in consistent implementation of Guidelines by the multidisciplinary team (MDT).

The Decision Making Aid

Management of Primary Cutaneous Squamous Cell Carcinoma (cSCC)
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Treatment options for primary cSCC are standard surgical excision, Mohs micrographic surgery, curettage, cautery and radiotherapy.

Summary surgical treatment algorithm for primary cSCC

Risk	Minimum excision margin for primary cSCC
Low	4mm
High	8mm
Very high	10mm

References:
S.G. Kohane et al. British Association of Dermatologists guidelines for the management of people with cutaneous squamous cell carcinoma 2020

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Strategy for Change

- An oral presentation highlighted important changes from previous Guidelines.
- A single-page decision-making aid was designed for use in electronic format, or display in poster format in clinic or theatre.

Measurement of Improvement

- A five-item questionnaire tested knowledge of the main updates in the Guidelines.
- A QR code linked to a Google Form questionnaire, was administered and completed both before the presentation, and again following the presentation, this time with the benefit of having the decision-making aid for reference

Effects of Change

- The decision-making aid underwent two trials: regional plastic surgery audit meeting and specialist skin MDT.
- There was a statistically significant increase ($p < 0.05$) in scores in all questions, following the oral presentation and distribution of the clinical decision-making aid.

Discussion

- This was enthusiastically received, and is being prepared for regional adoption via the NI Skin Cancer Guidelines.

Management of primary cSCC

Tumour factors	Risk	Low (all factors denote low risk tumour)	High (any single factor denotes high risk tumour)	Very high (any single factor denotes a very high risk tumour)
Diameter	< 20mm (spT1)	> 20-40mm (spT2)	> 40mm (spT3)	> 40mm (spT3)
Thickness	< 4mm	4-6mm	> 6mm	> 6mm
Tumour depth	dermis	subcutaneous fat	beyond subcutaneous fat	any bone invasion
Perineural invasion	No	Present dermal only, nerve diameter < 0.3mm	Present in named nerve, diameter > 0.3mm; or none beyond dermis	
Lymphovascular invasion	No	Yes	Yes	Yes
Site	Ear / lip	Ear / lip	Remove from within scar/ area of chronic inflammation	
Histological features and subtypes	Well differentiated or moderately differentiated	Poorly differentiated	High grade histological subtype: adenosquamous, desmoplastic, keratid, sarcomatoid/ melanocytic in transit metastases	
Biological margin	Clear	Close	Close	
Margin status	Clear pathology margins in all dimensions (< 1mm)	One or more involved/Close (0-2mm) pathology margin in a high risk tumour	One or more involved at close (0-2mm) pathology margin in a high risk tumour	
Patient factors	Host immune status	Immune competent	Immunosuppressed	ALL FOR HIGH RISK especially solid organ transplant recipients, immunological malignancies
Return to MDT	SMOD Discussion	Not needed	Discuss at SMOD	Discuss at SMOD
Follow-up	Follow-up in secondary care not needed after single post-treatment appointment, where appropriate.	8 months for 12 months + 6 months for the 2nd year especially if several risk factors	8 months for 12 months + 6 months for 2 years and 8-monthly for a third year.	
	Inform patient and GP of the 10% risk of further keratinocyte cancer within 5 years	10%	20%	30%

All patients require full skin check, examination of regional lymph node basin, discussion of diagnosis and patient education about sun protection and skin surveillance.