

Completeness of Basal Cell Carcinoma Excisions in an English Region

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1 Introduction

The National Institute for Health and Clinical Excellence (NICE) guidance for skin cancer recommends that appropriately trained General Practitioners (GPs) excise only suspected low-risk basal cell carcinoma (BCCs), referring high-risk and unknown lesions to specialists.

BCC can arise at anatomical sites requiring complex surgery with resultant morbidity. Complete excision needs to be achieved to minimise risk of recurrence. The South West Public Health Observatory (SWPHO) in collaboration with its Skin Cancer Tumour Panel has undertaken an audit of BCC histopathology reports to determine completeness of excision of BCCs in primary and secondary care.

2 Method

SWPHO cancer registry data were used to identify the first 100 excisions per Trust in 2007 for inclusion in the audit. Fields collected included name, status and place of work of clinician requesting the analysis, anatomical site and size of BCC, and excision margins.

3 Cohort details

Histological subtypes and associated risk

Histological subtype	Number (%)	High/Low-risk subtype
Nodular	640 (47%)	Low
Multi-subtype	260 (19%)	High
Superficial	99 (7%)	Low
Morpheic/Infiltrative	93 (7%)	High
Micronodular (<0.15mm)	40 (3%)	High
Atypical Squamous Component	6 (0.4%)	High
Other	60 (4%)	-
Unknown	167 (12%)	-
Total	1,365	-

Age groups and care setting

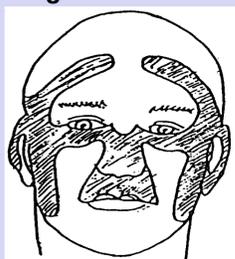
Age group (years)	Care setting	
	Primary care	Secondary care
10-19	0	1 (0.1%)
20-29	1 (0.4%)	3 (0.3%)
30-39	10 (4%)	13 (1%)
40-49	21 (9%)	61 (7%)
50-59	47 (19%)	122 (13%)
60-69	62 (25%)	228 (24%)
70-79	66 (27%)	280 (30%)
80+	41 (17%)	234 (25%)
Total	248	942

Definition of care setting

The care setting was not specified on the pathology reports and it had to be ascertained from the specimen source.

Definition of high-risk BCC is based on factors that may have an effect on recurrence rate, including histological subtype, other histological features, site, and other factors such as size, immunosuppression and genetic disorders.

Figure 1. H-zone



Definition of high-risk site and low-risk site
 BCCs considered as high-risk 1 are localised on the zone H of the face as illustrated on the shaded area on figure 1.
 BCCs considered as high-risk 2 are localised on the head and neck area (including H zone)
 BCCs considered as low-risk are localised elsewhere on the body.

4 Results

Distribution of care setting for basal cell carcinoma excision

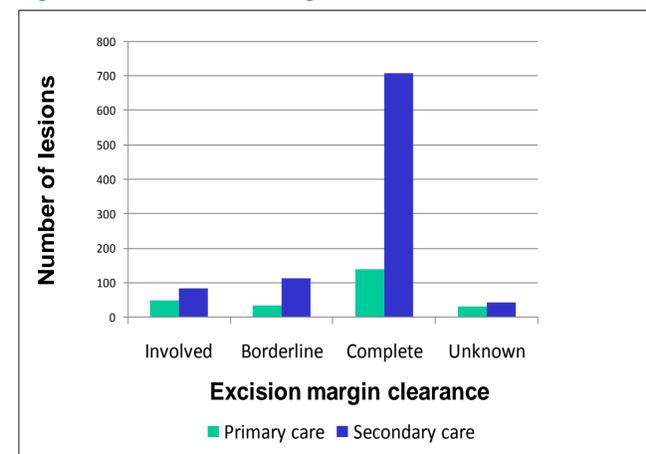
High-risk site 1				
Care setting	H-zone	Other	Unknown	Total
Primary care	41 (10%)	188 (26%)	19	248
Secondary care	383 (90%)	536 (74%)	23	942
Unknown	68	99	8	175
Total	492	823	50	1365

High-risk site 2				
Care setting	Head and Neck	Other	Unknown	Total
Primary care	103 (13%)	128 (35%)	17	248
Secondary care	681 (87%)	239 (65%)	22	942
Unknown	131	36	8	175
Total	915	403	47	1365

Lesion size

When considering lesion size, only 46 of all BCCs were classified as high-risk (≥ 2 cm) and the majority were excised in secondary care 40/46 (87%).

Figure 2: Overall excision margin clearance of basal cell carcinoma



Definition of clearance

Involved - margins are involved, one or more margins 0mm
 Borderline - a 'narrow margin' is described, cannot guarantee complete excision, one or more margin < 1mm
 Complete - excision is complete/margins are clear, one or more margin > 1mm
 Not specified - adequacy of excision cannot be guaranteed, not mentioned

Based on the recommendations of the National Cancer Intelligence Network Skin Group

Clearance of excision of high and low-risk histological subtype basal cell carcinoma in primary and secondary care

Care setting	Clearance	High-risk subtype	Low-risk subtype	Unknown	Grand Total
Primary care	Involved	19 (32%)	23 (17%)	6 (21%)	48 (22%)
	Borderline	6 (16%)	24 (18%)	3 (11%)	33(15%)
	Complete	35 (58%)	85 (64%)	19 (68%)	139 (63%)
	Unknown	10	10	8	28
Sub-Total		70	142	36	248
Secondary care	Involved	33 (12%)	31 (7%)	17 (11%)	81 (9%)
	Borderline	37 (14%)	63 (13%)	11 (7%)	111 (12%)
	Complete	204 (74%)	378 (80%)	128(82%)	710 (79%)
	Unknown	9	24	7	40
Sub-Total		283	496	163	942
Unknown	Involved	2 (5%)	10 (10%)	-	12 (7%)
	Borderline	10 (25%)	15 (15%)	4 (15%)	29 (18%)
	Complete	28 (70%)	73 (74%)	22 (85%)	123 (75%)
	Unknown	6	3	2	11
Sub-Total		46	101	28	175
Grand Total		399	739	227	1,365

5. Conclusion

There was a small percentage of excisions in primary care compared with secondary care. Overall clearance in primary care was 63% compare to 79%.

The majority of head and neck BCCs were referred to secondary care for more specialist treatment. This shows that the NICE guidance is being implemented. However it was not always easy to assess the care setting. In addition the requesting GP/clinician is not necessarily the person undertaking the excision.

Reference: Improving outcomes for people with skin tumours including melanoma. NICE 2006