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3 **NICE guidance on cancer services update**

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7 **Improving outcomes for people**
8 **with skin tumours including**
9 **melanoma (update):**

10 The management of low-risk basal cell carcinomas in
11 the community

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17 Draft for consultation

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1 **The management of low-risk basal cell carcinomas in the** 2 **community**

3 **Background**

4 In February 2006, the National Institute for Health and Clinical Excellence (NICE) published
5 service guidance on skin cancer, 'Improving outcomes for people with skin tumours including
6 melanoma' (NICE guidance on cancer services)¹. Many of the recommendations in this
7 guidance were converted into peer review measures published in the 'Manual for cancer
8 services 2008: skin measures'².

9 Early in 2009, NICE was made aware of concerns about the implementation of some
10 aspects of its guidance. These were in relation to the arrangements under which GPs could
11 remove 'low-risk' basal cell carcinomas (BCCs) and how services for skin cancer patients
12 were being commissioned. Following a meeting at NICE in April 2009, an update to the 2006
13 NICE guidance was commissioned to address the management of low-risk BCCs in the
14 community.

15 **The epidemiology of basal cell carcinoma**

16 The importance of BCC is underestimated, probably because it is rarely fatal. BCC is the
17 commonest type of cancer in the UK, with at least 49,815 cases registered in England in
18 2006³ – although this is likely to be a significant underestimation. Even with this
19 underestimate, the incidence of BCC in England is still 1.8 times higher than that of lung
20 cancer^{3,4}. It not only affects many individuals but also places a significant burden on NHS
21 resources.

22 Accurate data on the true prevalence and incidence of BCC in the UK is difficult to obtain
23 because some cancer registries do not register BCCs or do not register multiple BCCs in the
24 same individual, so the total number of BCCs is probably much higher than stated in the
25 published literature. Data from Northern Ireland, where the cancer registry does capture
26 information, documented age-adjusted incidence rates of 104 and 71 per 100,000 population
27 for males and females respectively⁵. One study, based on a UK primary care database
28 cohort study, estimates about 53,000 new cases of BCC per year in the UK⁶.

29 Furthermore, not all 'low-risk' BCCs are subject to histology before medical treatment; one
30 audit submitted under the 2009 skin cancer peer review process in England indicated that up
31 to 50% of GPs removing suspected BCCs do not submit them for histology (National Cancer
32 Action Team: personal communication 2009). This contravenes the NICE guidance on skin

¹ National Institute for Health and Clinical Excellence (2006) Improving outcomes for people with skin tumours including melanoma. Available from: <http://guidance.nice.org.uk/CSGSTM>

² National Cancer Action Team (2008) National Cancer Peer Review Programme. Manual for cancer services: skin measures. Available from: <http://www.ncpr.nhs.uk/index.php?menu=resources>

³ Available from the United Kingdom Association of Cancer Registries (UKACR): <http://82.110.76.19/>

⁴ Available from the National Cancer Intelligence Network (NCIN): <http://www.ncin.org.uk/index.shtml>

⁵ Hoey et al (2007) British Journal of Dermatology 156, 1301-1307

⁶ Bath-Hextall et al (2007) International Journal of Cancer 121 (9), 2105-2108

1 cancer services⁷ and the NICE 'Referral guidelines for suspected cancer'⁸ which made it
2 clear that all excised skin lesions should be sent for histological examination.

3 The main risk factor for BCC is sun (ultraviolet light) exposure. This is reflected in the
4 multiplicity of tumours that patients develop and the predominance of tumours in sun-
5 exposed areas, for example the head, neck, forearms, hands, lower legs and feet, and trunk.
6 Superficial BCCs are seen on the trunk, especially in men. Individuals with fair skin are more
7 at risk. Age-standardised rates of BCC in the south west of England are much higher than in
8 England overall (121.3 per 100,000 population compared with 93.72 per 100,000
9 population)⁹.

10 BCCs also arise in patients with a genetic predisposition, for example Gorlin's syndrome or
11 xeroderma pigmentosum. These patients have large numbers of BCCs, should be referred
12 to and managed by the local skin cancer multidisciplinary team (LSMDT) or the specialist
13 skin cancer multidisciplinary team (SSMDT) and should not have their BCCs treated with
14 radiotherapy (as recommended in the NICE guidance on skin cancer services¹⁰).

15 The incidence of BCC increases with age and it is more common in men¹¹. Using 2002–06
16 age-standardised rates, at ages up to 50 years, men have lower incidence rates ($p < 0.01$)
17 than women, or there is no significant difference. In those aged 50 years and over the
18 incidence rate is higher for men ($p < 0.01$). The largest difference is for the 80–84 age group,
19 where the incidence rate for men is 66% higher than that for women¹².

20 Patients diagnosed with one BCC are at increased risk of having further BCCs diagnosed at
21 the same time, or of developing them subsequently¹³. Studies suggest that the risk of
22 developing a second BCC within 3 years of the first presentation is approximately 44%¹⁴.

23 Where epidemiological studies have been undertaken, it has been shown that the incidence
24 of BCC is rising, with evidence suggesting a 3% year-on-year increase¹⁵. The largest
25 reported increase in incidence was seen in the 30–39 age group¹⁶. Unless population
26 attitudes to sun exposure and skin protection change, the numbers of BCCs will continue to
27 rise. The rise in incidence is predicted to be particularly great up to 2030 because of the
28 large increase in the elderly population that will arise as the 'baby boom' population ages¹⁷.
29 Thus numbers would rise even if incidence rates stayed static.

30

⁷ National Institute for Health and Clinical Excellence (2006) Improving outcomes for people with skin tumours including melanoma. Available from: <http://guidance.nice.org.uk/CSGSTM>

⁸ National Institute for Health and Clinical Excellence (2005) Referral guidelines for suspected cancer. Available from: www.nice.org.uk/CG27

⁹ Available from the United Kingdom Association of Cancer Registries (UKACR): <http://82.110.76.19/>

¹⁰ National Institute for Health and Clinical Excellence (2006) Improving outcomes for people with skin tumours including melanoma. Available from: <http://guidance.nice.org.uk/CSGSTM>

¹¹ Hoey et al (2007) British Journal of Dermatology 156, 1301-1307

¹² Available from the United Kingdom Association of Cancer Registries (UKACR): <http://82.110.76.19/>

¹³ Cantwell et al (2009) British Journal of Cancer 100, 174-177

¹⁴ Marcil and Stern (2000) Archives of Dermatology 136, 1524

¹⁵ Brewster et al (2007) British Journal of Dermatology 156, 1295-1300

¹⁶ Bath-Hextall et al (2007) International Journal of Cancer 121 (9), 2105-2108

¹⁷ Møller et al (2007) British Journal of Cancer 96, 1484-1488

1 BCC is rarely fatal. Moreover, the majority of BCCs can be treated in an out-patient, day-
2 case setting or community/primary-care setting. However, failure to diagnose early and/or
3 inadequate treatment can result in tumours that erode important anatomical structures. Such
4 tumours are very challenging to treat, making it difficult to obtain a good cosmetic result. The
5 number of in-patient bed days devoted to managing BCCs is roughly comparable to those
6 devoted to in-patient management of malignant melanoma¹⁸. Increased public awareness of
7 the risk of excess sun exposure, combined with a change in behaviour towards greater skin
8 protection, could reduce the incidence of BCC. Raising public awareness as advocated in
9 the National Awareness and Early Diagnosis Initiative (NAEDI) programme¹⁹ could reduce
10 the proportion of patients presenting with advanced disease.

11 **Burden of disease**

12 The epidemiology and health services epidemiology of BCC, described above, demonstrates
13 that the number of cases is rising significantly. These cases of BCC impose a significant
14 workload on both primary and secondary care services and their management (if they are of
15 a high-risk type) and require expertise to ensure curative resection is combined with a good
16 cosmetic result and low risk of complications.

17 It is estimated that 24% of primary care workload is related to the diagnosis and
18 management of skin conditions, including skin lesions²⁰. The burden of skin lesion
19 management in dermatology out-patient services is also great, with 35–45% of specialist
20 referrals relating to the diagnosis and management of skin lesions²¹. This figure is as high as
21 60% in some areas²². Furthermore, approximately 88% of two-week wait urgent referrals for
22 suspected skin cancer turn out to be non-malignant²³, highlighting a need for better training
23 in primary care on the recognition of skin cancer. The epidemiology of BCC, especially the
24 predictions for the next two decades, means that there will be a requirement for better
25 trained healthcare professionals to diagnose and manage BCCs.

26 **Patient perspective**

27 Patients and their carers want BCCs to be accurately diagnosed and then to be treated by
28 healthcare professionals who:

- 29
- 30 • have been fully and adequately trained
 - 31 • have met prescribed standards
 - 32 • participate in audit
 - undertake continuous professional development (CPD) in this clinical area.

¹⁸ South West Public Health Observatory (www.swpho.nhs.uk/)

¹⁹ The National Awareness and Early Diagnosis Initiative. Available from:
<http://www.ncin.org.uk/outcomes/naedi.shtml>

²⁰ Schofield J, Grindlay D and Williams H (2009). Skin conditions in the uk: a health care needs assessment.
Centre of Evidence Based Dermatology, University of Nottingham

²¹ Schofield J, Grindlay D and Williams H (2009). Skin conditions in the uk: a health care needs assessment.
Centre of Evidence Based Dermatology, University of Nottingham

²² Joseph et al (2008) British Journal of Dermatology, 159 (Suppl. 1), 52.

²³ Cox N (2004) British Journal of Dermatology 150, 291-8.

1 Patients want their BCC(s) to be treated effectively the first time, with minimal risk of
2 recurrence. They want to have the best cosmetic result achievable and surgery that, if
3 undertaken, minimises the risk of damaging important, proximate anatomical features, such
4 as nerves, where possible. Most importantly, they want to be clearly informed of their
5 diagnosis and involved in the decision on choice of treatment and where this is delivered.
6 The healthcare professional's advice and choice of treatment should not be influenced by a
7 patient's age, gender or other disabilities unless the latter has a direct clinical relationship
8 with the success of certain forms of treatment.

9 Patients are also keen to have their care provided close to home, which should not mean a
10 compromise on the quality of care they receive²⁴. This emphasis on equity of access to high
11 quality care is reinforced in the recent Darzi review²⁵.

12 **Training and accreditation**

13 It is recognised that the training of healthcare professionals in dermatology is limited^{26,27}.
14 This includes undergraduate and postgraduate medical, nurse and pharmacy training. In
15 particular, undergraduate medical training may be as little as 2 weeks, with no formal training
16 or assessment of skin surgery. There is also no mandatory postgraduate training in
17 dermatology or skin surgery for GPs, with no further requirement currently for formal
18 assessment in these skills, or a mandatory system of accreditation including ongoing CPD
19 and participation in audit.

20 **Existing guidance**

21 There are three key national documents that guide service development and quality
22 assessment for services for patients with BCC. These are the NICE 'Improving outcomes for
23 people with skin tumours including melanoma' guidance²⁸, the Department of Health
24 'Guidance and competencies for the provision of services using GPs with a special interest
25 (GPwSIs)'²⁹ and the 'Manual for cancer services: skin measures'³⁰. Early results from the
26 peer review of skin cancer services in England (National Cancer Action Team: personal
27 communication 2009) show generally poor levels of compliance to the standards, especially
28 with respect to the primary care component and commissioning, although there are many
29 notable exceptions across the country.

²⁴ Department of Health (2006) Our health, our care, our say: a new direction for community services. Cm 6737. Norwich: The Stationery Office.

²⁵ Department of Health (2008) High quality care for all: NHS next stage review final report. Cm 7432. Norwich: The Stationery Office.

²⁶ All Party Parliamentary Group on Skin (1998) Enquiry into the training of healthcare professionals who come into contact with skin diseases. London

²⁷ All Party Parliamentary Group on Skin (2004) Dermatological training for health professionals. London

²⁸ National Institute for Health and Clinical Excellence (2006) Improving Outcomes for People with Skin Tumours including Melanoma. Available from: <http://guidance.nice.org.uk/CSGSTM>

²⁹ Department of Health (2007) Guidance and competencies for the provision of services using GPs with a Special Interest (GPwSIs). Available from:

http://www.dh.gov.uk/en/Publicationsandstatistics/Publications/PublicationsPolicyAndGuidance/DH_074665

³⁰ National Cancer Action Team (2008) National Cancer Peer Review Programme. manual for cancer services: skin measures. Available from: <http://www.ncpr.nhs.uk/index.php?menu=resources>

1 Key obstacles identified from the 2009 skin cancer peer review process include:

- 2 • weak commissioning
- 3 • clinical governance arrangements across the primary/secondary care interface
- 4 • issues with finance transfer across the primary/secondary care interface
- 5 • inadequate understanding of the models under which GPs can manage 'low-risk'
- 6 BCCs
- 7 • in some circumstances, adherence to the appropriate guidance on 'high-risk' BCCs.

8 This updated guidance will seek to address these areas and provide clarification for patients,
9 commissioners of services and providers of care.

10

11 **Definition of low- and high-risk basal cell carcinoma**

12 The review of the systems for classifying high- and low-risk BCCs showed that some
13 incorporate histological features that would only be available after biopsy or excision.
14 However, for the purposes of the clinical recognition of high-risk BCCs, criteria were defined
15 for the 'Manual for cancer services 2008: skin measures'³¹. There is a need for a clear
16 clinical triage definition for high- and low-risk BCCs to ensure simple and efficient referral to
17 appropriate healthcare professionals for management.

18 To aid clinical assessment of patients in the community with suspected BCC, and for clinical
19 triage to the appropriate level of expertise for intervention, a range of definitions and criteria
20 for defining high- and low-risk BCC were reviewed by the Guideline Development Group
21 (GDG). These definitions had been summarised in a review paper prepared by Dr Dafydd
22 Roberts and presented to the meeting at NICE in April 2009. The GDG concluded that the
23 clinical triage definitions for the face and scalp (head) needed to be simplified because:

- 24 • there is a lack of precision regarding the H-zone (the high-risk zone on the face)
- 25 • a 10 mm low-risk BCC resected with the recommended 4 mm margins would
- 26 lead to tissue removal of at least 18 mm diameter, which even on the cheek
- 27 would result in a poor cosmetic result and make primary closure challenging
- 28 • proximity to facial structures presents a challenge to achieving a good cosmetic
- 29 result and adequate resection margins.

30 These factors are not independent, particularly in lesions on the face and head. Therefore
31 the GDG decided to recommend that new criteria be adopted for the definition of high- and
32 low-risk BCC presenting in the community that take into account:

- 33 • risk of recurrence (incomplete excision)
- 34 • the skill and experience required by the healthcare professional to achieve a
- 35 good cosmetic result
- 36 • risk caused by underlying anatomical structures

³¹ National Cancer Action Team (2008) National Cancer Peer Review Programme. Manual for cancer services: skin measures. Available from: <http://www.ncpr.nhs.uk/index.php?menu=resources>

- 1 • other management risks (for example, recurrent BCC, Gorlin’s syndrome,
2 immunosuppression).

3 **Recommendations**

4 The following definition of high-risk BCC should be used for clinical triage in primary care:

- 5 • recurrent BCCs
6 • BCCs on the head (face and scalp)
7 • BCCs greater than 2 cm in diameter, unless they are superficial BCCs that can be
8 managed non-surgically
9 • lesions that have a clinical appearance of morpheic, infiltrative or basosquamous
10 • lesions with poorly defined margins
11 • BCCs in patients who are immunosuppressed or have Gorlin’s syndrome
12 • BCCs located over important underlying anatomical structures (for example, major
13 vessels or nerves) or where primary surgical closure may be difficult (for example,
14 digits or front of shin).

15 Patients with superficial BCCs (not usually classified as high risk) should be appropriately
16 referred in order that they are offered a full range of medical treatments, including
17 photodynamic therapy.

18
19 Healthcare professionals managing superficial BCC in the community should have
20 experience and knowledge of this condition.

21
22 Patients with clinically suspected or histologically confirmed high-risk BCCs should continue
23 to be referred to approved specialists as recommended in ‘Improving outcomes for people
24 with skin tumours including melanoma’ (NICE guidance on cancer services)³².

26 **Training and education**

27 All healthcare professionals dealing with skin lesions in the community should have access
28 to specialist training in the diagnosis and management of skin lesions.

29
30 All healthcare professionals wishing to excise skin lesions in the community should be fully
31 accredited to do so and undergo continuous professional development in the diagnosis and
32 management of skin lesions to maintain their accreditation status.

33 **Quality assurance**

34 All skin lesion samples (excision, incision, punch biopsy and curettage) should be sent for
35 histological examination as recommended in the NICE ‘Referral guidelines for suspected

³² National Institute for Health and Clinical Excellence (2006) Improving outcomes for people with skin tumours including melanoma. Available from: <http://guidance.nice.org.uk/CSGSTIM>

1 cancer³³. Where multiple lesions exist, they should be sent in separate specimen pots with
2 individual referral forms.

3
4

5 Histology request and reporting forms, and the electronic recording of these data items,
6 should be improved to capture the minimum dataset requirements (National Cancer
7 Intelligence Network dataset project [in development]³⁴ and the Royal College of Pathology
8 dataset³⁵).

9

10 Healthcare professionals in the community sending skin lesion samples for histological
11 assessment should have a mechanism in place to ensure that they receive histology results
12 and should take appropriate action.

13

14 Healthcare professionals dealing with low-risk BCCs in the community should maintain a log
15 book or spreadsheet of the suspected and actual skin cancer lesions they have managed.

16

17 All healthcare professionals performing skin surgery in the community should provide
18 quarterly feedback to their primary care trusts (PCTs) on histology reported in the minimum
19 dataset.

20

21 As required by the 'Manual for cancer services 2008: skin measures'³⁶ there should be an
22 audit of all BCCs excised by healthcare professionals in the community. The PCT should
23 make these audit results available to the multidisciplinary team (MDT) on a quarterly basis
24 and it should be included in the cancer network annual audit (cancer standards 08-6A-
25 103J³⁶).

26

27 All healthcare professionals dealing with low-risk BCCs in the community should attend an
28 educational meeting (organised by the Cancer Network Site Specific Group) where the
29 annual BCC network results are presented along with a breakdown of individual healthcare
30 professional data. This meeting should also include one CPD session (a total of 4 hours) on
31 the diagnosis and management of low-risk BCCs. These meetings should be run at least
32 twice a year and healthcare professionals should attend on at least one occasion.

33

34 The MDT should facilitate the development of a patient reported outcome measure (PROM)
35 for the treatment of BCCs.

36

³³ National Institute for Health and Clinical Excellence (2005) Referral guidelines for suspected cancer. Available from: www.nice.org.uk/CG27

³⁴ Available from the National Cancer Intelligence Network (NCIN): <http://www.ncin.org.uk/index.shtml>

³⁵ Available from the Royal College of Pathologists: <http://www.rcpath.org/index.asp?PageID=154>

³⁶ National Cancer Action Team (2008) National Cancer Peer Review Programme. Manual for cancer services: skin measures. Available from: <http://www.ncpr.nhs.uk/index.php?menu=resources>

1 **Clinical governance**

2 PCTs commissioning community dermatology services that include skin cancer should
3 ensure that:

- 4 • Clinical governance arrangements are in place for all healthcare professionals
5 providing these services (including private providers contracted to treat NHS
6 patients) and they are accredited to perform skin lesion excisions.
- 7 • All healthcare professionals providing these services work to agreed local clinical
8 protocols for referral, treatment and follow-up. These should be coherent with
9 network-wide clinical protocols and signed off by the network site specific lead for
10 skin cancer.

11 Healthcare professionals dealing with skin lesions in the community should obtain informed
12 consent before any treatment is undertaken^{37,38,39}.

13

14 This updated guidance and other national clinical guidelines should be used in the
15 development of local protocols and guidelines at the cancer network level.

16

17 PCTs should ensure that all primary care healthcare professionals excising skin lesions are
18 appropriately accredited.

19

20 Quality standards against which performance can be managed/monitored should be
21 reflected in the national minimum dataset.

22

23 **Commissioning**

24 Commissioners should undertake a full needs assessment of low-risk BCC for their specific
25 population and this should:

- 26 • include projections of the likely increase in the number of cases over the next two
27 decades
- 28 • consider local issues such as population demographics, access to services and
29 patient preferences.

30

31 Commissioners should use the commissioning cycle⁴⁰ and follow the process outlined in the
32 NHS primary care contracting guidance⁴¹.

33

34 The commissioning process should plan for a significant increase in the number of patients
35 with low-risk BCC, especially in an older population.

³⁷ Department of Health Guidance on informed consent. Available at:

http://www.dh.gov.uk/prod_consum_dh/groups/dh_digitalassets/documents/digitalasset/dh_103653.pdf

³⁸ General Medical Council (GMC) guidance on informed consent. Available at:

http://www.gmc-uk.org/static/documents/content/Consent_2008.pdf

³⁹ Welsh Assembly Government Guidance on informed consent. Available at: www.wales.nhs.uk/consent

⁴⁰ Department of Health (2007) World class commissioning: vision. London: Department of Health.

⁴¹ NHS Primary Care Contracting (2008) Providing care for patients with skin conditions: guidance and resources for commissioners. Leeds: NHS Primary Care Contracting.

1
2 Commissioners should ensure that the management of low-risk BCCs by healthcare
3 professionals in the community is subject to the quality standards and requirements outlined
4 in this guidance.

5
6 All providers of community cancer services for low-risk BCC should demonstrate that they
7 are competent in the diagnosis and management of skin lesions, including skin cancer
8 surgery (SS1 and SS2 competencies⁴²). This should be assessed by direct observation of
9 procedural skills (DOPS).

10
11 Commissioners should consider innovative approaches to the diagnosis of low-risk BCCs so
12 that patients are not inconvenienced with unnecessary travel/access arrangements.

13
14 Commissioners should consider quality of care and value for money in commissioning
15 services for low-risk BCCs.

16
17 Provided quality standards can be ensured, commissioners should commission services
18 from different providers. The options are:

- 19 • Group 3 community cancer GPwSIs^{43,44}.
- 20 • Outreach specialist services provided by secondary care (including consultants, staff
21 grade and associate specialist [SAS] doctors, specialist nurses and new model 2
22 practitioners⁴⁵).
- 23 • A new GP expert in skin lesions (a framework should be developed based on
24 SS1/SS2⁴² that will enable commissioners to commission skin services and low-risk
25 BCCs from suitably trained individuals).
- 26 • GPs already performing minor surgery within the Directed Enhanced Services
27 (DES)⁴⁶ (minor surgery) arrangements under General Medical Services (GMS) or
28 Personal Medical Services (PMS). Such GPs may undertake low-risk BCC surgery if
29 the following additional criteria are met:
 - 30 ○ GPs should satisfy their contracting PCT that they are competent in the diagnosis
31 of BCCs and carry out the appropriate surgical procedures; this should be
32 reviewed annually as part of the contracting arrangements for the DES.
 - 33 ○ GPs already excising BCCs should provide evidence that they have been
34 excising low-risk BCCs appropriately with adequate skin margins. If the GP
35 cannot provide such evidence, they should undergo a direct observation of
36 procedural skills (DOPS).

⁴² Department of Health (2007) Guidance and competencies for the provision of services using GPs with special interests (GPwSIs). Available from:

http://www.dh.gov.uk/en/Publicationsandstatistics/Publications/PublicationsPolicyAndGuidance/DH_074665

⁴³ Department of Health (2007) Guidance and competencies for the provision of services using GPs with special interests (GPwSIs). Available from:

http://www.dh.gov.uk/en/Publicationsandstatistics/Publications/PublicationsPolicyAndGuidance/DH_074665

⁴⁴ Department of Health (2007) Implementing care closer to home: convenient quality care for patients. Part 3: the accreditation of GPs and pharmacists with special interests. London: Department of Health.

⁴⁵ National Cancer Action Team (2008) National Cancer Peer Review Programme. Manual for cancer services: skin measures. Available from: <http://www.ncpr.nhs.uk/index.php?menu=resources>

⁴⁶ Department of Health (2006) The primary medical services (Directed Enhanced Services) (England) Directions.

- 1 ○ GPs wishing to start providing this service should undergo a DOPS to
2 demonstrate competency.
3 ○ GPs should keep a log book or spreadsheet of all suspected low-risk BCCs to be
4 excised.
5 ○ All skin specimens removed should be sent to histology for analysis.
6 ○ GPs should provide information about the site of excision and provisional
7 diagnosis on the histology request form.
8 ○ Practices should have a robust process to ensure that patients are informed of
9 the final diagnosis, and whether any further treatment or follow-up is required.
10 ○ GPs should provide quarterly feedback to their PCT on the histology reported in
11 the minimum dataset. This should include details of all proven BCCs clinically
12 diagnosed before surgery. GPs should also provide details of any type of skin
13 cancer removed in their practice, as it is acknowledged that GPs will occasionally
14 excise a skin cancer unknowingly.
15 ○ GPs should attend an educational meeting (organised by the Skin Cancer
16 Network Site Specific Group) where the annual BCC network results are
17 presented, including a breakdown of individual GP performance. This meeting
18 should also include one CPD session (a total of 4 hours) on the diagnosis and
19 management of low-risk BCCs. These meetings should be run at least twice a
20 year and GPs should attend on at least one occasion.
21

22
23 **Models of care**

24 PCTs should ensure that services procured/commissioned (by practice-based
25 commissioning) for low-risk BCCs for their population adhere to national standards.

26
27 **Data collection**

28 Improved quality of data collection for BCC should be implemented by cancer peer review
29 following the publication of the skin cancer minimum dataset now in development⁴⁷.

30
31 BCCs should be comprehensively registered by cancer registries to allow national and sub-
32 national epidemiology and health service epidemiological studies to take place.

33
34 **Communication**

35 All healthcare professionals managing BCCs in the community should be responsible for the
36 provision of information, advice and support for patients and their carers.

37

⁴⁷ Available from the National Cancer Intelligence Network (NCIN): <http://www.ncin.org.uk/index.shtml>

1 **Research recommendations**

2 The Guideline Development Group has made the following recommendations for research,
3 based on its review of evidence, to improve NICE guidance and patient care in the future.

- 4 • Research on the epidemiology and health service epidemiology of BCCs should be
5 increased.
- 6 • Further research should be undertaken on predictive factors in recurrence and other
7 outcome measures.

8

9 **Linking evidence to recommendations**

10 The GDG reviewed a number of types of evidence in the process of assessing the fitness for
11 purpose of the existing NICE guidance on skin cancer services⁴⁸ pertaining to the
12 identification, referral and management of low-risk BCC. This included:

- 13 • an overview of the epidemiology of BCC and its health service epidemiology
- 14 • a summary of methods for defining high- and low-risk BCC, including the clinical
15 definitions included in the 'Manual for cancer services: skin measures'⁴⁹
- 16 • preliminary data from the 2009 skin cancer services peer review process, presented
17 by the National Cancer Action Team
- 18 • undergraduate and postgraduate training requirements for GPs in skin lesion
19 recognition and management
- 20 • an evidence review undertaken to examine the question 'Do outcomes differ when
21 the excisional surgery of a suspicious lesion is performed by a GP compared with a
22 specialist in secondary care?'

23

24

⁴⁸ National Institute for Health and Clinical Excellence (2006) Improving outcomes for people with skin tumours including melanoma. Available from: <http://guidance.nice.org.uk/CSGSTIM>

⁴⁹ National Cancer Action Team (2008) National Cancer Peer Review Programme. Manual for cancer services: skin measures. Available from: <http://www.ncpr.nhs.uk/index.php?menu=resources>

1 Evidence summary

2 [References for this evidence review are listed at the end of this section]

3 The evidence base for this topic consists of one randomised controlled trial (RCT), non-
4 randomised observational studies (both prospective and retrospective), meeting abstracts
5 presenting audit data, some audit data from specific health services and published
6 correspondence. Almost half the evidence was generated from within the UK, with the other
7 half generated from Australia and one paper published from New Zealand. Applicability of
8 the Australian evidence is limited in the UK setting.

9 In order to accurately evaluate the outcomes from excisional surgery of a suspicious skin
10 lesion performed by a GP compared with a specialist in secondary care, the ideal study
11 would require the randomisation of patients to either of these settings and then assessment
12 of the outcomes. The evidence body is limited in this sense, with only one study attempting
13 to evaluate this question in this way (George *et al.*, 2008). The remaining evidence comes
14 from observational studies, mainly retrospective series, which involve high levels of bias with
15 respect to data collection processes or patient/lesion selection criteria. Furthermore, this
16 evidence did not consistently describe if the GP groups included were GPs with a special
17 interest or not, therefore making it difficult to draw conclusions about the performance of
18 GPs with a special interest or GPs (with no specialised training).

19 Overall, 11 studies (Carter *et al.*, 2009; Dabrera 2007; De La Roche *et al.*, 2008; George *et*
20 *al.*, 2008; Goulding *et al.*, 2009; Khalid *et al.*, 2009; Macbeth *et al.*, 2009; Murchie *et al.*,
21 2008; Neal *et al.*, 2008; Su *et al.*, 2007; Youl *et al.*, 2007) with varying levels of
22 methodological bias compared dermatologists with GPs or other clinical specialists. Eight of
23 these studies indicated that margin clearance or complete excision is more adequately
24 achieved by ('hospital' or 'specialist') dermatologists than GPs (Carter *et al.*, 2009; Dabrera
25 2007; De La Roche *et al.*, 2008; Goulding *et al.*, 2009; Khalid *et al.*, 2009; Macbeth *et al.*,
26 2009; Murchie *et al.*, 2008; Neal *et al.*, 2008).

27 Three of the 11 studies reported the following:

- 28 • The equivalence study by George *et al.*, (2008) compared three outcomes of minor
29 surgery, including the excision of suspected skin cancers, and was conducted in
30 primary care or at a hospital in the South of England. Statistically, hospital doctors
31 scored higher marks than GPs in surgical quality (odds ratio [OR] = 1.64, 95%:
32 0.997–2.69%) but, as this was an equivalence study, the authors found the clinical
33 significance of this result difficult to interpret. GPs failed to recognise a malignant
34 lesion about one third of the time but were good at recognising benign lesions.
35 Hospital doctors achieved more adequate excisions than GPs but the difference was
36 not significant and, with such a low patient number, firm conclusions should not be
37 drawn from this result. Patients were more satisfied with treatment in primary care
38 and found it less inconvenient than attending hospital.
- 39 • Su *et al.*, (2007) reported the incidence of incomplete excision at a tertiary referral
40 public hospital. There was no significant difference in the percentage of incomplete

1 excision between consultants, registrars and the clinical assistant, but the low
2 numbers of cases performed by consultants may have contributed to this result.

- 3 • Youl *et al.*, (2007) compared the ability of GPs or hospital doctors to correctly
4 recognise malignant skin lesions. Hospital doctors were statistically superior in the
5 detection of BCCs and malignant melanomas but not squamous cell carcinomas.
6 GPs and hospital doctors were of equal ability in the detection of benign skin lesions.

7 Importantly, the evidence body lacked sufficient evidence of difference between GPs and
8 dermatologists in terms of long-term patient outcomes. Recurrence is one key outcome and
9 was addressed by only one study in this update (Wylie *et al.* 2009). Wylie *et al.* (2009)
10 reported a study that compared guideline recommendations and actual current practice.
11 Fifty-three dermatologists were involved in an anonymous online questionnaire. When asked
12 to respond to a clinical case example, which asked for the likely excision margin (1 mm to
13 > 4 mm) for a primary well-defined nodular basal cell carcinoma measuring 1 cm on the mid-
14 forehead, 33% suggested they would excise with a margin of 2 mm or less and only 32%
15 gave 4 mm or greater as their response. Similar wide variations in practice were found with
16 examples for high-/low-risk squamous cell carcinoma and also for initial primary melanoma
17 excision. Grade of operator and frequency of surgery were linked with the use of smaller
18 margins. The largest margins (more closely following recommended guidelines) came from
19 British Society of Dermatology Surgery members, although not exclusively. Overall it was
20 concluded that, in terms of providing adequate clearance and reducing recurrence rates, the
21 results indicated marked discrepancies.

22 In conclusion, the retrospective studies, although flawed, do indicate a consistent trend of
23 current practices and outcomes in favour of specialist care in this setting. The controlled
24 study by George *et al.*, (2008) provides an important framework for further research to be
25 conducted and, along with more well-conducted studies using reliable audit data, the
26 outcomes of excisional surgery will be more adequately reported.

27 [*The full evidence review is presented as a separate document that accompanies this*
28 *update*]

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Appendices

Appendix 1.0: People and organisations involved in production of the guidance

- 1.1 Members of the Guideline Development Group (GDG)
- 1.2 Organisations invited to comment on guidance development
- 1.3 Individuals carrying out literature reviews and complementary work
- 1.4 Members of the Guideline Review Panel

Appendix 1.1: Members of the Guideline Development Group (GDG)

GDG Chair

Dr Julia Verne Deputy Regional Director of Public Health and South West Public Health Observatory Director

Group members

Mrs Fiona Bonas North West London Cancer Network Director

Dr Timothy Cunliffe GPwSI in Dermatology and Skin Surgery, Middlesbrough Specialist Skin Service

Dr Bruce Eden GP Advisor to Greater Midlands Cancer Network

Dr Antony Feltbower GP, Coventry

Ms Gillian Godsell Skin Cancer Clinical Nurse Specialist, Nottingham University Hospital NHS Trust

Dr Stephen Keohane Consultant Dermatologist, Portsmouth Hospital

Dr David Marshall GP, Reading

Mr Barry Powell Consultant Plastic Surgeon, St George's Hospital, London

Dr Julia Schofield Principal Lecturer, University of Hertfordshire, Consultant Dermatologist, United Lincolnshire Hospital NHS Trust

Mrs Sylvia Toresen Patient/carer member

Mrs Pippa Tostevin Patient/carer member

Declarations of interest

GDG members were asked to declare any possible conflicts of interest that could interfere with their work on the guideline.

GDG member	Interest declared	Type of interest	Decision taken
Julia Schofield	Received an honorarium from Leo Pharm Lecture to give a lecture on GPwSI accreditation and community cancer services	Personal pecuniary specific	Declare and must withdraw from discussions on topics that focus on GPwSI accreditation until Jan 2010. Chairperson's action taken that JS can be asked specific technical questions about GPwSI accreditation.
	Received an honorarium from Schering Plough to give a lecture on commissioning dermatology services	Personal pecuniary non-specific	Declare can participate in discussions as the meeting was not specific to skin cancer.

Appendix 1.2: Organisations invited to comment on guidance development

The following stakeholders registered with NICE and were invited to comment on the draft version of this guidance

Association of British Insurers (ABI)	County Durham PCT
Associazione Infermieristica per lo Studio delle Lesioni Cutanee (AISLeC)	Criminal Justice Women's Strategy Unit
Antimicrobial Resistance and Healthcare Associated Infection	Department of Health
Association of Chartered Physiotherapists in Oncology and Palliative Care	Dudley Group of Hospitals NHS Trust
Association for Clinical Biochemistry	Gloucestershire Hospitals NHS Trust
Association of Surgeons in Primary Care	Gorlin Syndrome Group
AstraZeneca UK Ltd	Institute of Biomedical Science
British Association of Dermatologists	Johnson & Johnson Medical
British Medical Association	Juvenile Diabetes Research Foundation
British National Formulary	Kent County Council Children and Families Directorate
British Nuclear Medicine Society	Liverpool PCT Provider Services
Care Quality Commission	Luton & Dunstable Hospital NHS Foundation Trust
Central South Coast Cancer Network	Macmillan Cancer Support
College of Occupational Therapists	Medicines and Healthcare Products Regulatory Agency
Commission for Social Care Inspection	Met Office
Connecting for Health	Ministry of Defence
ConvaTec	National Patient Safety Agency

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National Public Health Service – Wales	Royal College of Psychiatrists
National Treatment Agency for Substance Misuse	Royal College of Radiologists
NHS Clinical Knowledge Summaries Service (SCHIN)	Royal College of Surgeons of England
NHS Plus	Royal Pharmaceutical Society of Great Britain
NHS Quality Improvement Scotland	Sandwell PCT
NHS Sheffield	Scottish Intercollegiate Guidelines Network (SIGN)
Patients Council	Sheffield Teaching Hospitals NHS Foundation Trust
PERIGON Healthcare Ltd	Skin Care Campaign
Plymouth PCT	Social Care Institute for Excellence (SCIE)
Primary Care Dermatology Society	Social Exclusion Task Force
Royal College of Anaesthetists	The Teenage Cancer Trust
Royal College of General Practitioners	Thames Valley Cancer Network
Royal College of General Practitioners - Wales	University College London Hospitals (UCLH) Acute Trust
Royal College of Midwives	Welsh Assembly Government
Royal College of Nursing	Welsh Scientific Advisory Committee (WSAC)
Royal College of Obstetricians and Gynaecologists	Western Health and Social Care Trust
Royal College of Paediatrics and Child Health	York NHS Foundation Trust
Royal College of Pathologists	
Royal College of Physicians of London	

Appendix 1.3: Individuals carrying out literature reviews and complementary work

Overall Coordinators

Dr John Graham Director, National Collaborating Centre for Cancer, Cardiff

Dr Andrew Champion Centre Manager, National Collaborating Centre for Cancer, Cardiff

Project Manager

Lianne Black National Collaborating Centre for Cancer, Cardiff

Senior Researcher

Angela Melder National Collaborating Centre for Cancer, Cardiff

Researcher

Karen Francis National Collaborating Centre for Cancer, Cardiff

Information Specialist

Stephanie Arnold National Collaborating Centre for Cancer, Cardiff

Health Economist

Sarah Willis London School of Hygiene and Tropical Medicine

Appendix 1.4: Members of the Guideline Review Panel

The Guideline Review Panel is an independent panel that oversees the development of the guideline and takes responsibility for monitoring its quality. The members of the Guideline Review Panel are:

Dr John Hyslop – Chair

Consultant Radiologist, Royal Cornwall Hospital NHS Trust

Dr Ash Paul

Deputy Medical Director, Health Commission Wales

Professor Liam Smeeth

Professor of Clinical Epidemiology, London School of Hygiene and Tropical Medicine

Mr Peter Gosling

Lay member

Mr Johnathan Hopper

Medical Director (Northern Europe), ConvaTec Ltd