

Sun Safety in construction







: 07.08.13



UNITED KINGDOM · CHINA · MALAYSIA



U.V. Exposure & Skin Cancer ... an overview

Skin cancer is of three main types:

2 of these are Non-melanoma Skin Cancer (NMSC)

Basal Cell Carcinoma (BCC)



Commonest form accounting for 74% of all NMSC cases

Squamous Cell Carcinoma (SCC)

A rarer form (23% of all NMSC cases) But a far more rapidly growing tumour





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U.V. Exposure & Skin Cancer ... an overview

& finally the most serious form of skin cancer:

Malignant Melanoma



The least common form of skin cancer but much more aggressive.

Associated with abnormalities in moles on the skin, this type of cancer commonly spreads to other parts of the body causing secondary cancers.





Skin cancer statistics table



Skin cancer – UK	Males	Females	Persons
Number of new cases of <u>non-melanoma skin cancer</u> (UK 2010)	55,747	43,801	99,549
Incidence rate per 100,000 population*	139.4	93.2	113.3
Number of deaths from non-melanoma skin cancer (UK 2010)	322	224	546
Mortality rate per 100,000 population*	0.7	0.3	0.5

Estimated at actually well over 100,000 cases annually this makes Non Melanoma Skin Cancer (NMSC) the most common type of cancer





Skin cancer statistics table



Skin cancer – UK	Males	Females	Persons
Number of new cases of <u>malignant melanoma</u> (UK 2010)	6,201	6,617	12,818
Incidence rate per 100,000 population*	17.2	17.3	17.1
Number of deaths from malignant melanoma (UK 2010) Note: over 4 x that from NMSC, which has approx 9 x as many cases annually	1,266	937	2,203
Mortality rate per 100,000 population*	3.3	2.0	2.6
Five-year survival rate (adult patients diagnosed 2005-2009,)	84%	92%	-%



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U.V. Exposure & Skin Cancer ... why this topic?

Skin cancer is the most common cancer, worldwide, with Non-Melanoma Skin Cancer (NMSC) accounting for around 30% of all newly diagnosed cancers and placing a substantial burden on health services (McCool, Reeder, Robinson, Petrie & Gorman - 2009)

A study based on data (from 2002) estimated that the cost of skin cancer borne by the NHS was £101.6 million (which is only 42% of the overall cost to the UK economy) (Morris, Cox & Bosanquet – 2009)





Sun Exposure & Skin Cancer

Construction workers' and

their awareness of the risks of skin cancer from working in the sun.









U.V. Exposure & Skin Cancer ... why this topic?

Occupational

NMSC accounted for 21% of all occupational health registrations - data: 2004

Solar Radiation (NMSC) registrations (EPIDERM) : 1,541 of which 841 (56%) were construction

HSE: The burden of occupational cancer in Great Britain - 2010





U.V. Exposure & Skin Cancer greatly increased risk

Researchers from the University of Manchester found from reviewing cases reported in The Health & Occupation Reporting (THOR) network that some construction workers were up to <u>nine times</u> more likely to get skin cancer than other workers from a similar social group and background.

They have a higher risk due to long periods working outside in direct sunlight and ultraviolet rays reflected from nearby surfaces such as concrete.

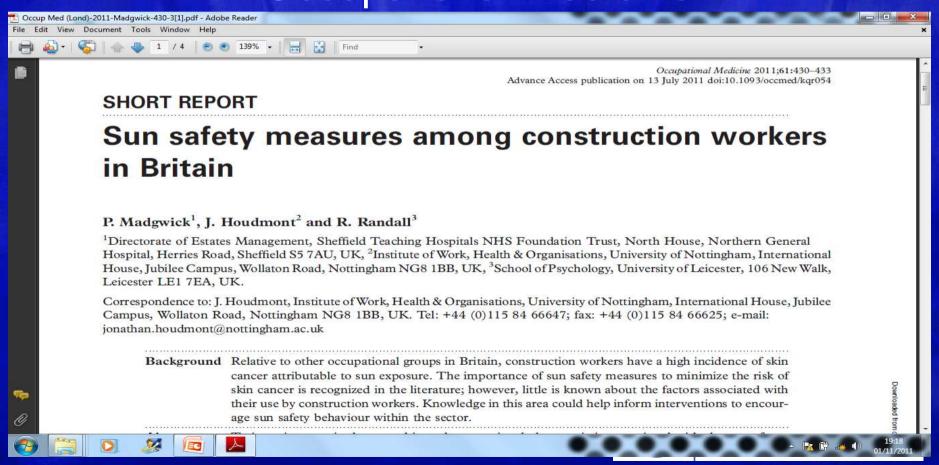
(Stocks, Turner, McNamee, Carder, Hussey & Agius – 2011)





Previous Research Project ... use of the findings

Some of the findings have been published in Occupational Medicine ...





U.V. Exposure & Skin Cancer

Current Project:

The development and evaluation of a sun safe intervention for construction workers







Questionnaire: Baseline







	UNITED KINGDO	M - CHINA - MALAYSIA
CONFIDENTIAL - only the res	searcher will see this so please be <u>honest</u> with the ans	wers you give.
	About You	
Your gender Male	Female Your age	
Where you live in the U.K S	outh-East London South-West East And	ılia 🗍
dependent to the text of the text		N. Ireland
Choose the option below which (your skin type has a direct effect on your	is most like your skin, hair & eye colour potential risk of skin cancer)	I have: (choose and tick the one closest to you)
Very pale coloured skin, a lot of fre or green eyes	eckles, light blonde, red or ginger hair, light blue, grey	
Fair/pale coloured skin, fair/ brown	or blonde coloured hair, blue, grey or green eyes	
Fair to beige coloured skin, usually	dark hair, hazel or light brown eyes	
Olive to light brown coloured skin,	dark brown or black hair, dark brown eyes	
Dark brown coloured skin, dark bro	own or black hair, dark brown eyes	
Black coloured skin, black hair, bro	ownish/black eyes	
	About the Sun	_
Have you ever had your skin c (e.g. a nurse, G.P., company do	hecked by a health professional? Yes ctor)	No 🗌
In the last 12 months have you	checked the following areas for moles or unusual	skin changes :
	your <u>entire</u> body? No Yes If 'Yes', how n	nany times ?
areas of your body regularly e	xposed to the sun? No Yes If 'Yes', how m	nany times ?
In the last 12 months, how man	ny times have you had a red sunburn that lasted a	day or more?
None 1 time	2 times 3 times 4 times 5 or r	nore times
Have you had skin cancer?	Yes No	
Have any of your close friends	or family had skin cancer? Yes No	7
	About Your Job	_
What is your job/trade?		
On average, how many hours	a day do you work outside?	
Have you ever had any training	g on the risks of working in the sun? Yes	No 🗌
If 'Yes', was this within	the last 12 months?	No 🗌
DRAFT - for information only. Not to	o be distributed for completion	Page 2 of 3

	I don't do this and I'm not thinking about starting	l don't do this but I'm thinking about starting	I don't do this, but I'm planning to start in the next month	to do	pegan and ha it in done so ast 12 for more
avoid/minimise work in sunlight in the middle of the day					
swap jobs to minimise the amount of time working in the sun					
use a shade/cover when you're working in the sun					
vear long sleeved, loose fitting tops and trousers					
vear a safety helmet with neck protection				†	
vear sunglasses					
se sun lotion/ sun screen					
rink plenty of water					
heck the UV index forecast for the day					
egularly check skin for moles or unusual changes					
Choose and circle 'Agree' or 'Don't Know' or 'Disa' I don't need to wear sun lotion/screen on a cloudy or overce It is important to wear sun glasses to protect the eyes from	ast day	each of the Agr	ee Don't K	(now	Disagree
Sun exposure is the most important risk factor for skin cancer		Agr	ee Don't F	(now	Disagree
If I apply factor 30 sun lotion, I only need to apply it once a		Agr	ee Don't k	(now	Disagree
I like to have a sun tan	•	Agr	ee Don't k	(now	Disagree
I think I am at risk of skip cancer		Agr	ee Don't K	(now	Disagree

- . Sun protection is important when working outside for less than one hour

	Agree	Don't Know	Disagree
	Agree	Don't Know	Disagree
	Agree	Don't Know	Disagree
	Agree	Don't Know	Disagree
	Agree	Don't Know	Disagree
	Agree	Don't Know	Disagree
	Agree	Don't Know	Disagree
1		L	L

This questionnaire will be followed by another sho supplying your home postcode we can use this as	
match this and further questionnaires from you.	

Therefore, please provide your home postcode

We would be grateful if you would supply your contact details. This will enable us to (1) contact you if you have won the prize draw and (2) send a short follow up questionnaire directly to you in a few

This is voluntary – you can still hand in your completed questionnaire without giving these details.

We guarantee none of your contact details will be passed to or shared with any third parties.

Your Name:	•••••	٠.
House Number (or Name):		
Telephone Number:		•••
E-mail :		

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U.V. Exposure & Skin Cancer ... sun safety toolkit (film)



Questionnaire: Follow up







UNITED KINGDOM · CHINA · MALAYSIA

The Institution of Occupational Safety and Health (IOSH), with the support of the Health and Safety Executive, has commissioned a research study to investigate workers' sun safety knowledge and use of protective measures at work.

You kindly completed a questionnaire, as a part of this study, in the summer of 2012. This follow-up questionnaire assesses whether any changes have occurred in your sun safety knowledge and use of protective measures one year on. The questionnaire should only take you 5 minutes to complete.

By answering these questions you will help to produce research that will be used to improve awareness of skin cancer, highlight ways to minimize the risks and to develop practical sun safety guidelines for the UK construction sector.

Please return your completed questionnaire in the enclosed pre-paid envelope by no later than 31 August 2013.

(Alternatively, complete the questionnaire online at https://www.surveymonkey.com/s/sun-safety)

Prize Draw

As a 'Thank You' for your involvement, all fully completed questionnaires returned will be entered into a prize draw with the chance to win one of **THREE** driving experiences in an Aston Martin (or similar car) on an organised driving day.



Paul, a joiner from the North-East, won the last prize draw of an Aston Martin driving experience





YOU could be one of the THREE lucky winners of the next Prize Draw

Just complete & return your questionnaire today

The winners will be informed during October 2013.

Your rights

- · Completion of this questionnaire is voluntary. Should you wish, you may cease to complete the questionnaire at any point.
- . All data collected is confidential neither your employer or IOSH will be able to identify individuals.
- . All data will be processed and stored in accordance with the Data Protection Act.
- It is unlikely that participation in this study will cause you any distress. However, should the questionnaire raise any issues that you
 would like to discuss with an appropriately trained professional please contact your G.P.
- The study findings will be made available at http://www.iosh.co.uk. In mid 2014. The data will be used within academic articles and the project lead's PhD study.

Project lead: Paul Madgwick; E: sunsafetyuk@gmail.com; T: 07971 810389.

Academic lead: Dr Jonathan Houdmont, University of Nottingham; E: jonathan.houdmont@nottingham.ac.uk

Sun Sydate	Today's date:	Your first name :	Your surname:	
accompaction .	Have you viewed the sun safety in construction DVD?	Home address:		
STATE OF THE PERSON NAMED IN	Yes / No (delete as appropriate)			

Part 1: Sun Safety Knowledge	Agree	Unsure	Disagree
don't need to wear sun screen/lotion on a cloudy/overcast day	and the April 100 April 10	DE TYDESMITE	
It is important to wear sunglasses to protect the eyes from the sun			
Sun exposure is the most important risk factor for skin cancer	Tho e all humbed	enio e besolo	IN I IIA
If I apply factor 30 sun screen I need only apply it once per day			
l like to have a sun tan			7 -2
think I am at risk of skin cancer	THE REAL PROPERTY AND		1 4 1971
Sun protection is important when working outside for less than one hour			

Part 2: Sun Safety Behaviours

For each of the following sun safety measures choose the answer that matches what you normally do when working outdoors in the summer.

ited sate on ye so	I don't do this and I'm not thinking about starting	I don't do this but I am thinking about starting	I don't do this but I'm planning to start in the next month	I do this and began in the last 12 months	I do this and have done so for more than a year
Avoid/minimize work in sunlight in the middle of the day	Monty	po I traĥo	na Star Majalikali il	TO LE HENT (S	ni cent
Swap jobs to minimize the amount of time spent working in the sun	entairia ad its- lanna		a agentina qualitat d	les year amounts	
Use a shade/cover when working in the sun	ago ma jus				10×1110
Wear long-sleeved loose- fitting tops and trousers	y and	1 60-40		every let	King a
Wear a safety helmet with neck protection			1978 19	Card ord ner	
Wear sunglasses			de State	PART STREET	
Use sun screen/lotion	II III M	LINEA STORY	E TAINS SECTION		
Drink plenty of water					
Check the UV index for the day	. 45			L	
Regularly check skin for moles or unusual changes		A saltrogen stars			

Part 3: Sun Safety Culture	Strongly Agree	Agree	Neutral .	Disagree	Strongly Disagree
Remembering to use sun protection has high importance within my workplace			700	1000000	-
I feel ok about applying sunscreen in front of my work mates					
I would tell my work mate if I thought he/she was getting sun burnt	-		-		
If use of sun safety measures was a site rule I would follow it					

Thank you for completing this questionnaire.



U.V. Exposure & Skin Cancer ... what's happening now

- Analysis of the Focus Groups completed with construction workers and supervisors
- Sending out the follow up questionnaires
- Presenting interim findings and promoting awareness of skin cancer and solar radiation





U.V. Exposure & Skin Cancer ... a final thought

It is estimated that 90% of all skin cancer deaths could be prevented if people properly controlled their exposure to the sun's U.V. radiation

(T.U.C. - Skin Cancer and Outdoor Workers : Guidance for Safety Representatives - 2009)

Help to make a difference in construction ... raise awareness





For further information, please contact:

Paul Madgwick: Project Lead

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Mobile: 07971 810389



