

The Impact of Role Models on Sun Protective Behaviours: Expert Paper

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The impact of media image on body satisfaction and self esteem has been the subject of a large body of research across areas such as eating disorders, sexualisation, smoking initiation and gender stereotyping (Fabrianesi et al., 2008; Jones & Rossiter, 2008; Sargent 2005; Ogden & Sherwood, 2005) as well as sun exposure.

We cannot locate any specific content analyses for television programmes or websites either in the UK or internationally relating to sun tanning, sun exposure risks or effective sun protection, however the portrayal of sun-related behaviours in all media forms is likely to have some influence on perceptions of desirable body image. The magnitude of this effect across different media forms is un-researched, as is the actual or potential impact on the effectiveness of sun protection interventions. Two major content analyses of print media from Australia and the USA respectively (Dixon et al., 2007, Miner & Baker, 1994) indicate that deep tanning is glamorised in magazines, poor sun-protective behaviours are commonly shown and a substantial quantity of implicit messages are misleading or contradictory.

Younger age groups, particularly females, appear to be more influenced by media images. By the age of 8, girls are aware of societal images of female beauty and the use of media images to compare self image with the media portrayal of ideal increase markedly between the ages of 8 – 12 and leads to dissatisfaction (Bessenof, 2006; Dohnt & Tiggemann, 2006).

The international literature indicates that preadolescent girls use media images as a basis for deciding on ideal physical attractiveness, even though the images portrayed are unrealistic or represent poor role models and unwise behaviours (Fabrianesi et al., 2008). One UK study suggests that the media's influence may be complex (Champion & Furnham, 1999). Australian evidence that magazines may have a stronger impact than television (Slater & Tiggemann, 2006) may not be generalisable to other markets and websites such as Bebo or Facebook may also be influential. We cannot locate any studies that have examined potential cross-media influence in the UK context.

The following table provides an indication of the relative size of teenage and women's magazines targeted at a young age group. What we cannot determine is overall readership; pass-on readership is likely to be high, meaning that a significant number of young women regularly read these titles.

Table 1: Circulation data as at June 2009 (Source: Audit Bureau of Circulations, 2010)

Teenage Magazines		Women's Magazines with young profiles	
Publication	Audited circulation	Publication	Audited circulation
Sugar	140,599	OK!	599,847
Top of the Pops	119,739	Closer	530,371
Bliss	86,054	Heat	445,192
Shout	76,568	New!	400,189
Mizz	54,068	Hello!	397,634

It is of concern that a television programme “*Sunset Tan*” set in a tanning salon exists in the USA and regularly features celebrities such as Britney Spears praising tanning (Poorsattar and Hornung, 2008). While this series is not available via scheduled TV channels, it is available online : <http://video.tvguide.com/SEARCH/Sunset%20Tan> Prior research indicates that celebrity role models such as Paris Hilton and Jessica Simpson who openly endorse the use of sunbeds do influence the tanning behaviours of teenage girls (Rawe & Scully, 2006). Katie Price, a known endorser of sunbed use, has her own ITV2 reality show “What Katie Did Next” (Thursdays, 9pm). Whether she discusses or shows the use of sunbeds during the show should be monitored.

There have been several recent media campaigns that use celebrity endorsers to caution against sunbed use (see, for example “Dazzle don’t Frazzle” featuring Nicole Roberts <http://www.heatworld.com/Celeb-News/2010/02/Dazzle-Dont-Frazzle-Join-our-campaign-here/>). Recent media coverage suggests an increasing number of celebrities are “proud to be pale” (Hill, undated), however the impact of such activity on actual behaviour change has not been assessed. Also un-assessed is the impact of positive and negative behavioural messages from different celebrities in terms of their relative influences on sun protection behaviour. Table 2 provides an overview of consumer media reporting on celebrities and sunbed use and / or sun tanning overall.

Table 2: Celebrities Supporting or Opposing Sunbeds or Tanning & Celebrities Reported to have had Skin Cancer (drawn from consumer media coverage)

Specifically supporting sunbeds	Supporting fake tans	Tanned – but no details of how	Opposing unsafe tanning e.g. sunbeds	Celebrities reported to have had skin cancer
Britney Spears (ContactMusic, 2007) Paris Hilton, Jessica Simpson (Rawe & Scully, 2009) Jordan / Katie Price (marieclaire 2010) Nicole Polizzi (“Snooki”) (Eisinger, 2010) Miley Cyrus (Gold, 2009) Amy Winehouse (Mirror, 2009) Hulk Hogan (Shaath, 2009)	Victoria Beckham (Lichtenstein, 2009) Colleen Rooney (Littlejohn, 2010) Duncan James (Mould, 2010)	Cheryl Cole (Lichtenstein, 2009) Amanda Holden (The Sun, 2009) Alex Curran (Harkin, 2009)	Nicola Roberts (Metro, 2010) Denise van Outen (Thomas, 2008) Gemma Merna (Hope, 2009)	Ewan McGregor (Hansworth, 2008) Melanie Griffiths (Roberts, 2009) Elizabeth Taylor (Chan, 2002)

While there is no data on the impact of positive role models on sunbed use or sun protective behaviours, US literature suggests that if celebrities continue to openly endorse unwise sun exposure practices, perceived social norms are reinforced and safe sun exposure messages that conflict with this perception are likely to be disregarded (Branstrom et al., 2004; Lowe et al., 1999; Hillhouse et al., 1997).

There is some evidence from studies of US university students that media literacy education reduces the effect of media images on body dissatisfaction in the short term at least (Watson & Vaughn, 2006; Yamamiya et al., 2005). There is no evidence of long term effects or effectiveness of this approach. This type of intervention may not be effective with young children as critical cognitive skills are not yet fully developed; children under the age of approximately 7 cannot use information outside the context in which it was acquired even when prompted; children aged between 7 and 11 are unable to use information without reminders in the context in which actual behaviour occurs (Eagle, 2007).

A further concern is the recent decision to permit product placements in television programmes produced within the UK (Neate, 2010). This involves the use of a recognizable branded product in movies or television programmes and in newer electronic media such as videogames. This placement may be paid for directly, be provided as part of an exchange of goods or services, or be a part of a joint promotional package (Karrh, 1998). Placement can take many forms in traditional media, from passive (the product is shown as part of the setting, but is not actually used), through to active (the product is used by an actor with or without verbal acknowledgement as part of the script). Placement

therefore provides an indirect form of celebrity endorsement for the product featured (Law & Braun, 2000).

While products such as alcohol, tobacco, gambling and foods deemed to be of low nutritional value will not be permitted and the BBC will remain banned from promoting any products, there is technically nothing to prevent sunbeds being featured in UK-produced programmes. This is a matter that should be addressed with some urgency. Conversely, of course, there is an opportunity to use product placements to encourage effective sun protective behaviours. There have been calls in markets such as Australia to encourage producers / editors to improve the portrayal of sun protection behaviours, given the positive impact of entertainment-based education strategies in areas such as cardio-vascular health and immunization (McDermott et al, 2005). This strategy should be given serious consideration within the UK.

Declaration of interests

Julia Verne is the Director of the South West Public Health Observatory

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References

- Audit Bureau of Circulations (2010) . Audited Magazine Readership. London: Audit Bureau of Circulations.
- Bessenoff, G. R. (2006). Can the media affect us? Social comparison, self-discrepancy, and the thin ideal. *Psychology of Women Quarterly*, 30(3), 239-251.
- Branstrom, R., Kristjansson, S., & Ullen, H. (2006). Risk Perception, Optimistic Bias, and Readiness to Change Sun Related Behaviour. *Eur J Public Health*, 16(5), 492-497.
- Champion, H., & Furnham, A. (1999). The effect of the media on body satisfaction in adolescent girls. *European Eating Disorders Review*, 7(3), 213-228.
- Chan, S. (2002). Elizabeth Taylor cured of skin cancer. <http://www.cbsnews.com>
- Contact Music (2007). Britney Spears Christmas Wish Lists. 21 December 2007
- Daily Mail (2009). Teenage Megastar Miley Cyrus drops into a tanning salon in Blackpool. <http://www.dailymail.com> 7 December 2009
- Dixon, H., Dobbinson, S., Wakefield, M., Jamsen, K., & McLeod, K. (2007). Portrayal of Tanning, Clothing Fashion and Shade Use in Australian Women's Magazines, 1987 2005. *Health Education Research*, 23(5), 791 - 802.
- Dohnt, H., & Tiggemann, M. (2006). Body Image Concerns in Young Girls: The Role of Peers and Media Prior to Adolescence. *Journal of Youth and Adolescence*, 35(2), 135-145.
- Eagle, L. (2007). Commercial Media Literacy. *Journal of Advertising*, 36(2), 101-110.
- Eisinger, A. 'Jersey Shore's' Nicole (Snooki) Polizzi slammed for promoting indoor tanning 'to change the world' http://www.nydailynews.com/gossip/2010/01/08/2010-01-08_jersey_shore_star_nicole_snooki_polizzi_slammed_for_promoting_indoor_tanning.html
- Fabrianesi, B., Jones, S. & Reid, A. (2008). Are Pre-adolescent Girl's Magazines Providing Age-Appropriate Role Models? *Health Education*, 108 (6), 437 – 449.
- Gold, M. (2009) Miley Cyrus Tanning Salon Bust. <http://www.stylelist.com/2009/12/09/miley-cyrus-tanning-salon/>
- Hansworth,A., (2008) How a check-up turned to skin cancer for Ewan, Metro, Wednesday, 23/04/08.
- Harkin, J. (2009). WAG Alex Curran looks tan-tastic. <http://www.clickliverpool.com>
- Hill, E. (undated) Proud to be Pale. Daily Mail Online <http://dailymail.com>

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- Hillhouse, J. J., Adler, C. M., Drinon, J., & Turrisi, R. (1997). Application of Azjen's Theory of Planned Behavior to Predict Sunbathing, Tanning Salon Use, and Sunscreen Use Intentions and Behaviors. *Journal of Behavioral Medicine*, 20(4), 365-378.
- Hope, J. (2009). Hollyoaks star Gemma Merna reveals her damaged skin from using sunbeds. <http://www.dailymail.co.uk> 10 November 2009
- Jones, S., & Rossiter, J. (2008). Young adults' perceptions of smoking actors. *Health Education*, p450-62.
- Karrh, J. A. (1998). Brand Placement: A Review. *Journal of Current Issues and Research in Advertising*, 20(2), 31 - 49.
- Law, S., & Braun, K. A. (2000). I'll Have What She's Having" Gauging the Impact of Product Placements on Viewers. *Psychology & Marketing*, 17(12), 1059 - 1075.
- Lichtenstein, O. (2009). Why celebrities are to blame for women risking their lives in sunbed salons to look tanned. <http://www.dailymail.co.uk> 31 July 2009
- Littlejohn, G. (2010). Colleen Rooney is in the pink as she gets a bit too much sun on her Caribbean holiday. <http://www.dailymail.co.uk> 25 February 2010.
- Lowe, J. B., Balanda, K. P., Stanton, W. R., & Gillespie, A. (1999). Evaluation of a Three-Year School-Based Intervention to Increase Adolescent Sun Protection. *Health Educ Behav*, 26(3), 396-408.
- MarieClaire (2010). Katie Price sparks outrage by promoting regular sunbed use. <http://www.marieclaire.co.uk> 13 January 2010.
- McDermott, L. J., Lowe, J. B., Stanton, W. R., & Clavarino, A. M. (2005). Suntans and Sun Protection in Australian Teen Media: 1999 to 2000. *Health Educ Behav*, 32(4), 504-513.
- Metro (2010). Nicola Roberts backs sunbed ban. <http://www.metro.co.uk> 13 January 2010.
- Miner, K. J., & Baker, J. A. (1994). Media coverage of suntanning and skin cancer: mixed messages of health and beauty. *Journal of Health Education*, 25(4), 234-238.
- Mirror (2009). Amy Winehouse gets badly burned after falling asleep on sunbed. <http://mirror.co.uk> 17 March 2009
- Mould, J. (2010). Duncan Janes tries to avoid sunbeds. <http://www.mypure.co.uk>
- Neate, R. (2010). TV Product Placement ban lifted in UK . *Daily Telegraph*, 9 February. Online edition accessed from: <http://www.telegraph.co.uk/finance/newsbysector/mediatechnologyandtelecoms/media/7197867/TV-product-placement-ban-lifted-in-UK.html>
- Ogden, J., & Sherwood, F. (2008). Reducing the impact of media images: an evaluation of the effectiveness of an airbrushing educational intervention on body dissatisfaction. *Health Education*, p489-500.
- Poorsattar, S. P., & Hornung, R. L. (2008). Television Turning More Teens Toward Tanning. *Journal of the American Academy of Dermatology*, 58(1), 171-172.
- Rawe, J. & Scully, S. (2006). Why Teens are Obsessed with Tanning. *Time*, 168 (6), 54 – 56.
- Roberts, S. (2009). Melanie Griffiths skin cancer scare. <http://www.nydailynews.com> 18 December 2009.
- Sargent, J. D. (2005). Smoking in movies: impact on adolescent smoking. *Adolescent Medicine Clinics*, 16(2), 345-370.
- Shaath, N. (2009). Tanning Salons are a hot topic for the industry. *Household and Personal Products Industry*, March, 52 - 55.
- Slater, A., & Tiggemann, M. (2006). The contribution of physical activity and media use during childhood and adolescence to adult women's body image. *Journal of health psychology*, 11(4), 553-565.
- The Sun (2009). Amanda's got talent and style. <http://www.thesun.co.uk> 16 January 2009.
- Thomas, E. (2008). "Denise Van Outen reveals: My face is scarred because I spent too much of my youth on sunbeds" <http://www.dailymail.co.uk> 17 April 2008
- Watson, R., & Vaughn, L. M. (2006). Limiting the Effects of the Media on Body Image: Does the Length of a Media Literacy Intervention Make a Difference? *Eating Disorders: The Journal of Treatment & Prevention*, 14(5), 385 - 400.

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Yamamiya, Y., Cash, T. F., Melnyk, S. E., Posavac, H. D., & Posavac, S. S. (2005). Women's exposure to thin-and-beautiful media images: body image effects of media-ideal internalization and impact-reduction interventions. *Body Image*, 2(1), 74-80.