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Title: Applying Social Theory to Understand Health-Related Behaviours

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Abstract

Health-related behaviours are a concern for contemporary health policy and practice given their association with a range of illness outcomes. Many of the policies and interventions aimed at changing health-related behaviours assume that people are more or less free to choose their behaviour and how they experience health. Within sociology and anthropology, these behaviours are viewed not as acts of choice but as actions and practices situated within a larger socio-cultural context. In this paper, we outline three theoretical perspectives useful in understanding behaviours that may influence one's health in this wider context: theories of social practice, social networks, and interactionism. We argue that by better understanding how health-related behaviours are performed in people's everyday lives, more suitable interventions and clinical management can be developed.

Applying Social Theory to Understand Health-Related Behaviours

Health-related behaviours are a concern for contemporary health policy and practice given their association with a range of illness outcomes.(1) Behaviour change programmes often focus on individual autonomy in decision-making. Such approaches may have limited effect and receive criticism for neglecting the wider social context in which behaviours take place.(2,3) In this paper we explore three social theories which are useful in helping understand behaviours that are associated with health: 1) social theories of practice, which focus on people's social and cultural background and circumstances, 2) social networks, which explore interpersonal relationships and 3) interactionist approaches, which consider the meaning-making, performativity and roles implicit in social interaction. We discuss the relevance of these theories for medical research and practice as a potential way forward for help better understand the social aspects of behaviour, leading to more suitable interventions and clinical management.

The concept of 'health behaviour' originates from psychology and describes actions that are considered to be associated with developing, or preventing, particular diseases or conditions.(4) These actions are conceptualised as discrete, categorical, and belonging to the individual. Health behaviour categories include diet, alcohol/drug consumption, physical activity, and medication adherence. It is assumed that behaviours are causally linked to health outcomes which can be improved by altering or eradicating particular behaviours. This approach has furthered understanding of the cognitive processes implicit in how people's lifestyles impact their health over the life-course.(5) However, such conceptualisations do not explain how or why people behave beyond the individual level, or have much to say about the differing ways in which behaviour is articulated by people, for example, across time, gender, ethnicity and place. We have used the term 'health-related behaviours' to indicate the importance of context and downplay the causal link assumed in many behaviour-change interventions.

Theory of Practice and Collective Patterns

Practice theory is receiving increasing attention within the social sciences,(6–8) and although it has taken off in some fields such as environment sciences,(9) it has yet to do so to the same extent in public health. A classic paper by Williams(10) on the potential for Bourdieu to help understand class, health and lifestyles was pivotal in inspiring further work in this area, for example in health lifestyle theory(11) and the collective lifestyles approach.(12) The health focus of practice theory has therefore centred on lifestyle, with diet and exercise being two of the behaviours receiving most interest. This may be because lifestyle entails everyday behaviours which are closely bound up with socio-biography.

Practice theory posits that who people are – their personalities, ways of seeing the world, ways of talking, thinking, and feeling – is rooted in and expressed through the situations and circumstances they have experienced, especially in the formative early years in life.(13) The mental categories which orientate or dispose people to act in certain ways – known as habitus – are therefore influenced more widely by the structure of society, which gives rise to the situations and circumstances characterising society. For example, growing up in an area with scarce employment opportunities might lead one to develop a fatalistic orientation towards life, where personal choice is seen as having little relevance, which has implications for a variety of health behaviours, including those implicit in smoking,(14) talking treatment use,(15) and physical activity.(16) Another important aspect of practice theory is centred on the resources – or capital – that people have available to act in certain ways. Having a healthy diet, for example, is not just a matter of choosing to be healthy, but is made easier by having the money to afford healthy foods (economic capital), the know-how to shop for and cook them (cultural capital), and being within a social setting where healthy eating is the norm (social capital).(17) Eating also entails certain meanings (e.g. cultural conventions), materials (e.g. tools), and tacit and explicit competences (e.g. embodied skills).(7)

It is interesting to contrast habitus with recent discussions from within behaviour change theory of what causes behaviour to become habitual,(18) which centre on the immediate context of behaviour. Similarly, the recently popular nudge theory focuses on the immediate built environment, such as where products are placed on the shelf or how they are packaged.(19) Combining insights from the socio-biographical and socioeconomic context of orientations and behaviour with psychological work on the context of habit formation and the influence of the built environment may be a fruitful area of inquiry. Psychological constructs can be viewed as mediating the relationship between the wider social context and individual behaviours; social theory allows for conceptualising the causal chain, and without it an important ‘layer’ of behaviour is ignored. Using these models to understand health behaviour in research and clinical practice involves looking at issues such as: how behaviour is patterned across the population and within individuals over time; cultural interpretations of risk factors; the resources available for behaviour; environments where people behave in certain ways; and how people perceive health behaviour and how this may affect their desire to engage in certain activities.

Networks

Social network analysis is used to identify agents and their relationships and the structure of systems. Originating in sociology, network analysis centres around the fundamental idea that social action and meaning-making are contingent upon people (and other phenomena) being related to one another in a multitude of ways.(20) Although methodological approaches vary, they share the idea that networks can be analysed in terms of the number of connections, the distribution of ties and the position and

influence of actors in the network.(20) Interest in social network analysis has grown massively in recent years,(21) and is also now a relatively popular approach in understanding health behaviour. A recent influential application is Christakis and Fowler's work on how obesity 'travels' in social networks, which for example showed that a person's chance of becoming obese increased by 57% if they had a friend who became obese.(22) In addition, connections of the same sex had a greater effect on each other, suggesting that people are more readily influenced by those similar to themselves. Studies using social network analysis have focused on smoking(23,24) drug-taking,(25) and sexual behaviour,(26) perhaps because these are relatively contingent upon peer interactions. In these studies, the types of explanations that emerge for health behaviour – including peer selection, influence of parents vs. friends, geographical location of network influences, clustered behavioural patterns, interaction of educational background and social network – are at odds with highly individualised explanations of health behaviour.

Another useful example of network analysis is the Network Episode Model (NEM), which aims to explain help-seeking behaviour – an important concern for medical practice. Rather than view help-seeking behaviour as a one-time action influenced solely by social psychological constructs such as self-efficacy or knowledge of services, NEM aims to systematically account for the role of networks in healthcare outcomes.(27) NEM posits that people have an 'illness career' across the lifecourse, and fluctuate between different health problems ranging in type and severity, and also fluctuate in terms of how they respond to these problems, whether by using individual coping strategies, social support, or formal healthcare. In this sense, different types of networks interact with patterns of illness across the lifecourse.

Actor-network theory (ANT) focuses on inanimate actors, such as technological systems (e.g. health records systems),(28) discourses, or other phenomena. The idea behind ANT is to explore the multiple networks between multiple human and non-human actors, including how they are established, evolve, interrelate and move.(29,30) ANT has been used to conceptualise alcohol as an 'actor' in teenage drinking behaviour,(31) to analyse the complex and messy interactions that characterise change tobacco use management,(32) and to examine the effects of the built environment on behaviour change.(33) Since ANT is a theory through which the materiality (i.e. material objects as well as people) of social life can be conceptualised, it widens the analytical lens to allow for a more complex and thorough understanding of how networks influence health.

Interactionism and performativity

Interactionist approaches propose that behaviour reflects social meaning, which derives from how people make sense of social reality within their social and cultural contexts.(34) People ascribe meaning to people, events and situations through interacting with them. A person's subjective position, or worldview, filters their understanding of their environment, and identity is formed by and

through this interactive meaning-making process. From this perspective, behaviour can be understood as a social performance centred around constructing social identity, these performances often tied to social roles with particular expectations. This perspective has been most influential in the form of Goffman's work on stigma – the situation where a person is reduced from being 'a whole and usual person to a tainted, discounted one'.(35) Stigma first became significant in the public health field in explaining the AIDS epidemic,(36) and in recent years, efforts have been made to stigmatise smokers in campaigns seeking to 'denormalise' tobacco consumption.(36) The concept has also been hugely influential in mental health, in part owing to the sometimes fuzzy boundaries between behaviour, illness and deviance.(37)

Roles provide a basis for the response of others in social interaction, and are a key part of a person's identity. Parsons' widely utilised concept of the sick role describes how being sick carries certain rights and responsibilities,(38) which might take on new significance in relation to the recent focus on changing people's 'unhealthy' behaviours. Research on gender roles has examined men's reluctant help-seeking behaviour,(39) unhealthy eating patterns(40) and sunscreen use.(41) One recent intervention encouraging men to lose weight drew upon understandings of gender roles by basing the intervention in a traditional preserve of masculinity, the football club.(42) Taking into account social roles allows for an appreciation of how behaviour is strongly shaped in terms of pre-existing and patterned norms, values and expectations.

Another aspect of the interactionist perspective is how people construct their identities through social performativity. The body is often a focus in this perspective, as it is a visible marker of social identity, which can be shaped by going to the gym or dieting, for example. Notions of performativity have been drawn upon to understand the focus of sport and fitness testing within schools.(43) Plumridge explained adolescent smoking by focussing on the 'coolness' factor surrounding it.(44) Buus used an interactionist approach to consider interviewees' performances in explaining their 'medicine-taking careers', focussing on their changing and often frustrated relationships with healthcare professionals as their medicine use changed.(45) In sum, interactionist approaches can be used to help understand how health behaviour is imbued with meaning and identity-making as part of everyday life.

Discussion

Health behaviour is incredibly complex and cannot be reduced to individual psychological factors. Social theories are systems of thought that acknowledge and attempt to disentangle the complex interplay between social and individual factors over time. The theories discussed in this paper have particular relevance to studying health-related behaviours. They look at these behaviours from the perspective of the actions being performed, who is involved, the social contexts in which they are conducted and how these influence the practices that can be conceptualised as lifestyles. Importantly,

by shifting the focus onto practices and locating these within their social context, rather than focusing on behaviour as solely a function of cognitive phenomena, one can begin to unpick the role these practices have in people's lives, the meanings they hold and the ways in which such actions serve to express and are formed by a person's situations and circumstances. Such knowledge in turn can be used in the development of future interventions and clinical management programmes. In addition, social theories often overlap. For example, social networks can be conceived as a type of capital in practice theory, and as constituted by individuals with particular roles. The habitus can be used to understand how social interaction is socially patterned. Given this overlap, each theory can be considered to provide a different lens to investigate the issue. In order to produce informed accounts of health behaviour within research, we suggest collaborative working between health psychologists and health professionals with those with the expertise in social theory, from the conceptualisation to the evaluation stages of a research project. From a policy and practice perspective, the use of social theory enables researchers to outline the processes informing health-related behaviours and provides a more comprehensive and grounded understanding of the experiences of patients and professionals in everyday life. This presents numerous challenges in itself, but is a necessary step if we are to make progress at the interface of medicine and health behaviour. Without social theory, it is evident that crucial pieces of the puzzle of health behaviour are missing.

References

1. Marteau T, Dieppe P, Foy R, *et al.* Behavioural medicine: changing our behaviour. *BMJ*. 2006 Feb 23;332(7539):437–8.
2. Cohn S. From health behaviours to health practices: an introduction. *Sociol Health Illn*. 2014 Feb 1;36(2):157–62.
3. Thorlindsson T. Bring in the social context: Towards an integrated approach to health promotion and prevention. *Scand J Public Health*. 2011 Mar 1;39(6 suppl):19–25.
4. Armstrong D. Actors, patients and agency: a recent history. *Sociol Health Illn*. 2014 Feb;36(2):163–74.
5. Cutler DM. Behavioral health interventions: what works and why. *Critical Perspectives on Racial and Ethnic Differences in Health in Late Life*. 2004;643–74.
6. Blue S, Shove E, Carmona C, *et al.* Theories of practice and public health: understanding (un) healthy practices. *Crit Public Health*. 2014;(ahead-of-print):1–15.
7. Maller CJ. Understanding health through social practices: performance and materiality in everyday life. *Sociol Health Illn*. 2015 Jan 1;37(1):52–66.
8. Veenstra G, Burnett PJ. A relational approach to health practices: towards transcending the agency-structure divide. *Sociol Health Illn* 2014 Feb 1;36(2):187–98.
9. Hargreaves T. Practice-ing behaviour change: Applying social practice theory to pro-environmental behaviour change. *Journal of Consumer Culture* 2011 Mar 1;11(1):79–99.

10. Williams SJ. Theorising class, health and lifestyles: can Bourdieu help us? *Sociol Health Illn* 1995;17(5):577–604.
11. Cockerham WC. Health Lifestyle Theory and the Convergence of Agency and Structure. *J Health Soc Behav* 2005 Mar 1;46(1):51–67.
12. Frohlich KL, Corin E, Potvin L. A theoretical proposal for the relationship between context and disease. *Sociol Health Illn* 2001 Nov 1;23(6):776–97.
13. Bourdieu P. The logic of practice. Stanford University Press 1990.
14. Frohlich KL, Potvin L, Chabot P, *et al.* A theoretical and empirical analysis of context: neighbourhoods, smoking and youth. *Soc Sci Med* 2002 May;54(9):1401–17.
15. Holman D. ‘What help can you get talking to somebody?’ Explaining class differences in the use of talking treatments. *Sociol Health Illn* 2014 May 1;36(4):531–48.
16. Lee J, Macdonald D. Rural young people and physical activity: understanding participation through social theory. *Sociol Health Illn* 2009 Apr 1;31(3):360–74.
17. Brug J. Determinants of healthy eating: motivation, abilities and environmental opportunities. *Fam Pract* 2008 Dec 1;25(suppl 1):i50–5.
18. Nilsen P, Roback K, Broström A, *et al.* Creatures of habit: accounting for the role of habit in implementation research on clinical behaviour change. *Implement Sci* 2012;7(1):53.
19. Thaler RH, Sunstein CR. Nudge: Improving Decisions about Health, Wealth, and Happiness. New Haven: Yale University Press 2008.
20. Blanchet K, James P. How to do (or not to do) ... a social network analysis in health systems research. *Health Policy Plan* 2012 Aug 1;27(5):438–46.
21. Borgatti SP, Mehra A, Brass DJ, *et al.* Network Analysis in the Social Sciences. *Science* 2009 Feb 13;323(5916):892–5.
22. Christakis NA, Fowler JH. The Spread of Obesity in a Large Social Network over 32 Years. *N Engl J Med* 2007 Jul 26;357(4):370–9.
23. Mercken L, Snijders TA, Steglich C, *et al.* Smoking-based selection and influence in gender-segregated friendship networks: a social network analysis of adolescent smoking. *Addiction* 2010;105(7):1280–9.
24. Christakis NA, Fowler JH. The collective dynamics of smoking in a large social network. *N Engl J Med* 2008;358(21):2249–58.
25. Pearson M, Michell L. Smoke rings: social network analysis of friendship groups, smoking and drug-taking. *Drugs: education, prevention and policy* 2000;7(1):21–37.
26. De P, Singh AE, Wong T, *et al.* Sexual network analysis of a gonorrhoea outbreak. *Sex Transm Infect* 2004 Aug 1;80(4):280–5.
27. Pescosolido BA. Of pride and prejudice: the role of sociology and social networks in integrating the health sciences. *J Health Soc Behav* 2006 Sep;47(3):189–208.

28. Cresswell KM, Worth A, Sheikh A. Actor-Network Theory and its role in understanding the implementation of information technology developments in healthcare. *BMC Med Inform Decis Mak* 2010;10(1):67.
29. Latour B. Science in action: How to follow scientists and engineers through society. Harvard: Harvard University Press 1987.
30. Mol A. Ontological politics. A word and some questions. *Sociol Rev* 1999;47(S1):74–89.
31. Demant J. When Alcohol Acts: An Actor-Network Approach to Teenagers, Alcohol and Parties. *Body Soc* 2009 Mar 1;15(1):25–46.
32. Young D, Borland R, Coghill K. Changing the Tobacco Use Management System: Blending Systems Thinking with Actor–Network Theory. *Rev Policy Res* 2012 Mar 1;29(2):251–79.
33. Lockton D. POSIWID and Determinism in Design for Behaviour Change [working paper]. 2012; Available from: http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2033231.
34. Blumer H. Symbolic interactionism: Perspective and method [Internet]. California: University of California Press 1986.
35. Goffman E. Stigma: Notes on the management of spoiled identity. New York: Simon and Schuster 2009.
36. Bayer R. Stigma and the ethics of public health: Not can we but should we. *Soc Sci Med* 2008 Aug;67(3):463–72.
37. Goldberg, D. and Huxley, P. Common Mental Disorders: A Bio-social Model. London: Routledge 1992.
38. Parsons T. The social system. New York: Free Press 1951.
39. Tudiver F, Talbot Y. Why don't men seek help? Family physicians' perspectives on help-seeking behavior in men. *J Fam Pract* 1999 Jan;48(1):47–52.
40. Gough B, Conner MT. Barriers to healthy eating amongst men: a qualitative analysis. *Soc Sci Med* 2006 Jan;62(2):387–95.
41. Abroms L, Jorgensen CM, Southwell BG, *et al*. Gender Differences in Young Adults' Beliefs About Sunscreen Use. *Health Educ Behav* 2003 Feb 1;30(1):29–43.
42. Hunt K, Wyke S, Gray CM, *et al*. A gender-sensitised weight loss and healthy living programme for overweight and obese men delivered by Scottish Premier League football clubs (FFIT): a pragmatic randomised controlled trial. *Lancet* 2014 Apr;383(9924):1211–21.
43. Cale L, Harris J, Chen MH. Monitoring health, activity and fitness in physical education: its current and future state of health. *Sport Educ Soc* 2014 May 19;19(4):376–97.
44. Plumridge EW, Fitzgerald LJ, Abel GM. Performing coolness: smoking refusal and adolescent identities. *Health Educ Res* 2002 Apr 1;17(2):167–79.
45. Buus N. Adherence to anti-depressant medication: A medicine-taking career. *Soc Sci Med* 2014 Dec;123:105–13.