

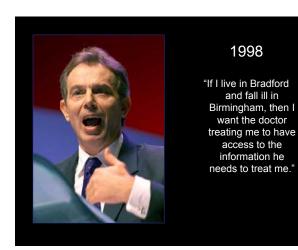
University of Nottingham Annual Health Communication Lecture 2009

"We have your medical details online"

Clinician-patient communication in an age of distributed electronic patient records

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2009

"A computerized medical record for every American within the next five years.....

...could prevent medical error, save lives and create hundreds of thousands of jobs"

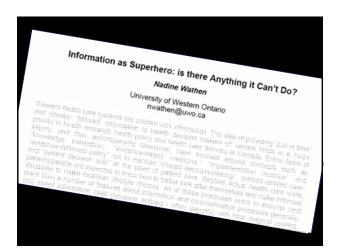




"The Prime Minister does not seem to distinguish between good public spending and bad public spending. At a time when every penny of public money needs to be spent wisely, he wants to waste £13 billion on an NHS computer system that does not work, £12 billion on a surveillance database, which will spy on everybody in the country, and billions more on ID cards."

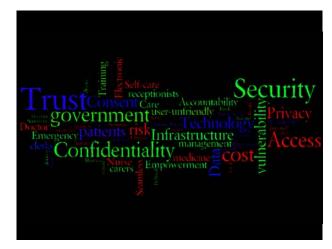


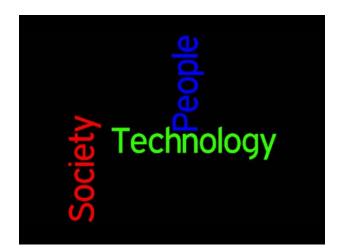








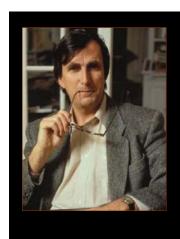




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RESEARCH QUESTION

What happens – at both macro and micro level – when government tries to modernise a health service with the help of big IT?



Bruno Latour

"All technology projects are fictions because at the outset they do not exist"



Marc Berg

"The medical record is a tool...it does not represent the work but feeds into it, structures and transforms it in complex ways: it structures communication between healthcare personnel, shapes medical decision making and frames relations between personnel and patients"



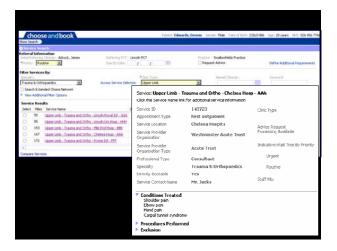
Geoff Walsham

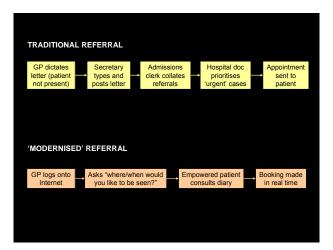
"Software is frozen organisational discourse"

DATA FRAGMENT 1

Our team wanted to observe the use of a newly introduced electronic outpatient booking service (Choose and Book), which allows GPs to offer their patients a choice of hospital and clinic date, and book the appointment in real time.

When we applied for the grant, a quarter of practices in our intended field site used Choose and Book. We anticipated catching the late majority of adopters. But by the time the research began in mid 2008, all but one practice had abandoned it – allegedly because the technology did not "work" properly.





DATA FRAGMENT 2

Summary Care Records (SCRs, centrally stored, internetaccessible summaries of patients' medical records) had recently been introduced in one area.

A commercial IT company offered to fund a pilot study in which district nurses were issued with Portable Digital Assistants (PDAs) so they could access the SCRs of the patients they visited on their rounds.

The nurses were positive about the scheme, though few regularly called up patients' SCRs. Their enthusiasm seemed due to a combination of feeling valued; the perceived appropriateness of the PDA (as a mobile workforce, they should have a mobile technology); and its general communications functions (e.g. Internet access).



"I kept it in the car and put the postcode of the next house into Google Maps to find my way about town"

"I used it regularly to access data on the patient's medical record"

PDA device with access to NHS N3 'Spine'

"I used it to call up pictures on Google Images when explaining things to patients"

"I didn't use it at all"

DATA FRAGMENT 3

Almost all GP practices in the UK now use electronic records, known as local detailed records (LDRs). We found that considerable work went into constructing the LDR (for example, by adding coded data via pull-down menus) and keeping it up-to-date.

A high proportion of this 'data quality' work was oriented towards a financial incentive scheme known as the Quality and Outcomes Framework (QOF), a government-funded initiative oriented to promoting evidence-based care of chronic diseases and increasing the transparency and accountability of GPs' performance.

QOF SCENARIO

(with acknowledgement to Dr Deborah Swinglehurst)

A 24 year old man attended for a "routine" asthma review with a nurse.

Early in the consultation he explained that he had awoken from sleep 3 weeks ago, feeling "tight" in his chest and unable to breathe. He had to use his inhaler several times and was not able to get back to sleep because of it.

The template

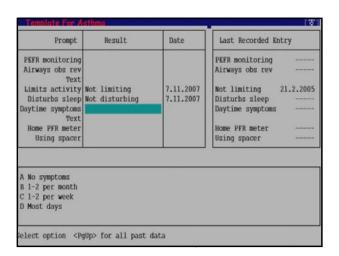
The nurse starts to complete an electronic template which offers a series of fields / prompts for her to complete.

She comes to a prompt "Disturbs sleep" and there are two possible answers to this question which she can record:

A: Disturbing sleep

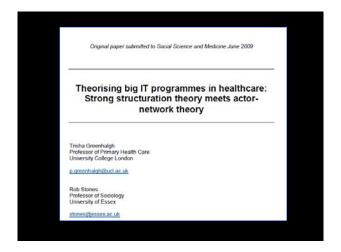
B: Not disturbing sleep

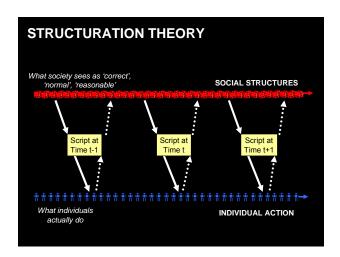
	Spoken word	Gesture
N	And do you (.) em (.) I know recently (.) the other n(.) night you said you woke up during the night(.) wi:th(.) breathlessness(.) Is that something that occurs regularly†	N Points to a piece of paper on desk on which she had written notes previously. Pt nods.
	(1)	
Pt	Uummmm(.) its occurred a couple of () uuh a couple of times but not sort of=	Pt shifts slightly in his chair
N	=a couple of times in the past how long↓	
	(2)	
Pt	°°How long°° what (1) how long† ago	Pt sits back in his chair
N	Yeah. You say a couple of times. What() a couple of times in the last $\underline{\text{ye::ar}}\uparrow$ (.) a couple of times in the last $\underline{\text{mo::nth}}\uparrow$	Nurse gestures demonstratively with both hands
Pt	A couple of times in the last year	N nods and turns to screen
N	A couple of times in the last year so that's fine. So it's not $\underline{req} \text{ularly} \!\!\downarrow$	N still looking at screen
Pt	No	Pt shakes head.

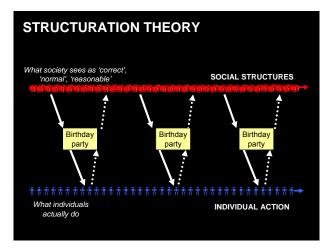


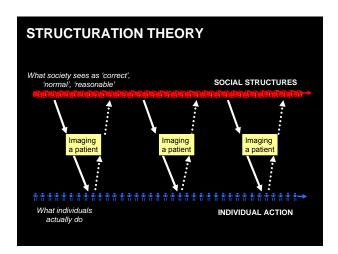
The 'macro' background

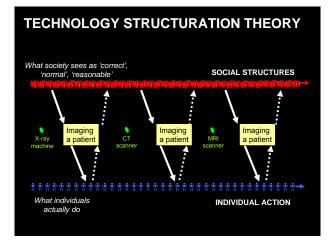
- Quality and Outcomes Framework ("QOF")
 - Clinical and administrative indicators / targets
 - Conducting an asthma review is one indicator
 - The practice achieved 100% in asthma care
- · Patient invited to attend
 - Prompted by request for inhalers
 - One of the "Denominator Population"
- Completion of template integral to nursing role

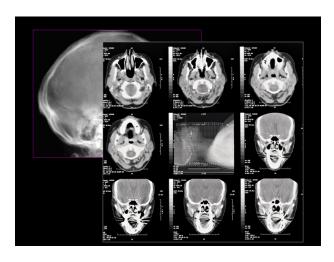


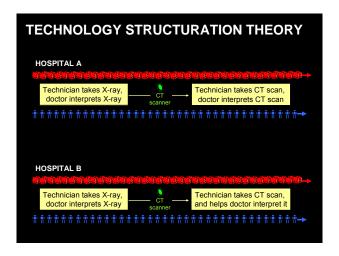


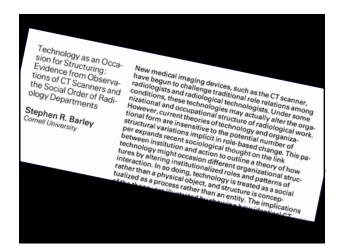


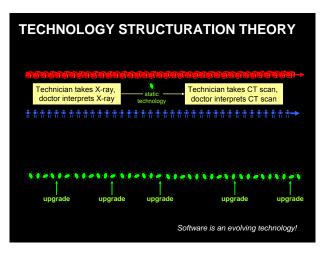


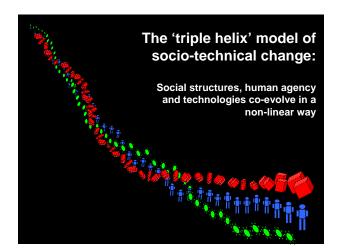


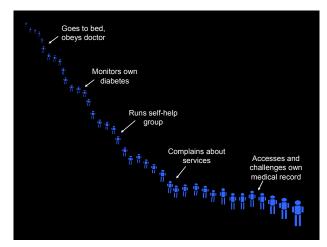


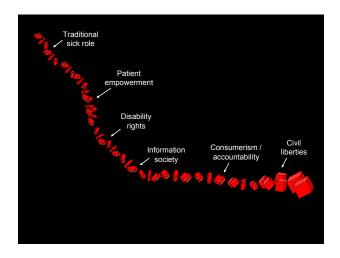


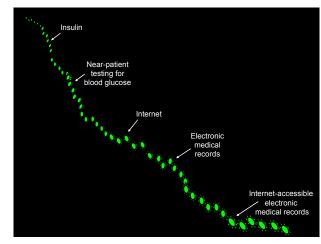


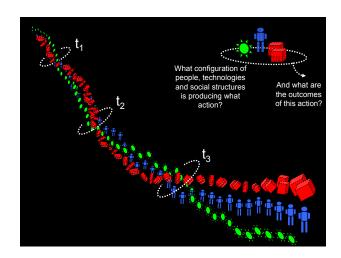


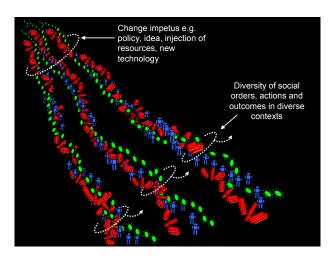


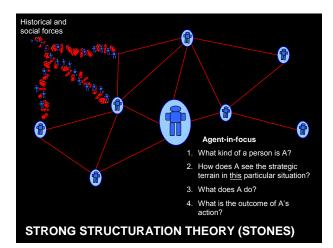


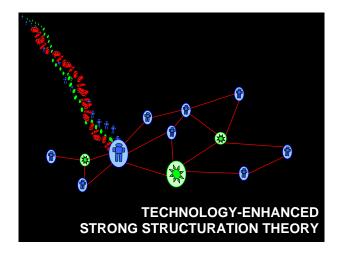


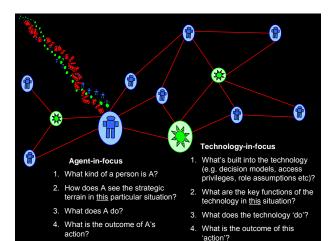


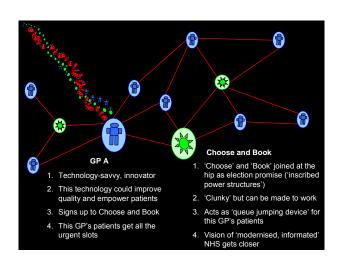


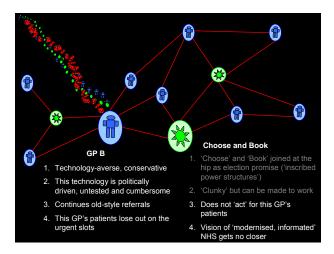


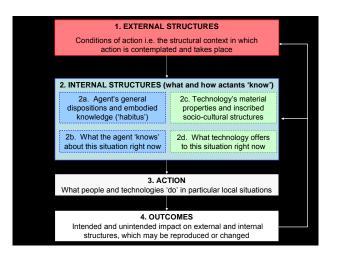














SUMMARY

- Networked electronic records have profound implications for healthcare
- A networked record system that provides a direct and uncomplicated improvement in communication is fiction
- We need new theories to help conceptualise what is happening at both macro and micro level (and how these are related) when networked systems are introduced
- A disciplined synthesis of structuration theory and actornetwork theory offers exciting opportunities for illuminating this complex field

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Thank you for your attention!

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