

Equi-injury and Rwanda912 seminar

Introduction to qualitative data analysis

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Welcome

- (Quick) Introduction to different types of qualitative data analysis
- Principles of qualitative data analysis
- Stages in the thematic analysis
- Practical experience of coding, categorising and conceptualising interview data





Introduction to different types of qualitative analysis



Different types of qualitative analysis

Thematic

Framework Discourse

Grounded Theory

Interpretative Phenomenological Analysis

Conversation

Narrative



"Thematic analysis is a method for identifying, analysing and reporting patterns (themes) within data"

(Braun & Clarke, 2006, p. 79)



Types of thematic-based analyses

- 1. Thematic analysis (Braun & Clarke, 2006)
- Grounded Theory (Glaser & Strauss, 1967)
- Framework analysis (Ritchie & Spencer, 1994)





Principles of qualitative data analysis



Qualitative data analysis

The dilemma:

Data, data, and more data!



"You busy?"

Activity



- Imagine you have been given this box of assorted chocolate
- □ How will you sort this chocolate?
- Now imagine the box of chocolate is an interview transcript
- □ How will you start analysing it?





Stages of thematic analysis

(Braun & Clarke, 2006)



Stage 1: Immersion

The researcher intensively reads or listens to material, assimilating as much of the explicit and implicit meaning as possible

Stage 2: Categorisation

Systematically working through the data, assigning codes/identifying meanings within the various segments/units of the 'text'

Stage 3: Reduction

Questioning or interrogating the meanings or categories that have been developed? Are there other ways of looking at the data? Do some codes mean the same thing?

Stage 4: Thematisation

Sorting through the categories. Deciding which categories are recurring and central and which are less significant or are invalid or mistaken

Stage 5: Interpretation

Making sense of the data from a wider perspective. Constructing a model or using an established theory to explicate the findings of the study

Immersion: How to 'Read' Data

- Literally
 - The actual words and language used the literal content of the data
 - The sequence of interaction in the case of interviews, who speaks when?
 - In the case of visual data style, layout, literal form



Immersion: How to 'Read' Data

- Interpretively
 - Constructing or documenting a version of what you think the data mean or represent
 - Reading through or beyond the data
 - □E.g. implicit norms or rules with which an interviewee is operating
 - □ Discourses that influence people
 - □ Versions or accounts of how people make sense of social phenomena



What is coding?

Codes identify an interesting feature of the data

- □Coding is part of the process of organizing data into meaningful groups, or 'opening up' the data
- □Coding is going through each interview and attaching relevant codes to each section
- □Coding structure (or framework) is a list of all of your codes



What is coding? (cont.)

- Summaries
- Paraphrases
- Associations
- Connections
- ✓ Use of language
- Sense of person

- Similarities
- Differences
- Echoes
- Amplifications
- Contradictions



Coding as a filing cabinet...



- Sorting your data
- □ With other examples of the same thing
- But YOU have to:
- Design your own filing system
- Make decisions about what to file and where

Coding as a filing cabinet...

- You can put the same thing in several different codes if you are not sure
- You can keep codes big
- ☐ You choose what size of text chunk to code
- □ See it as a staged process
- □ New codes may occur to you throughout coding: revisit



What does coding involve?

- Identifying and creating codes: the purpose of this stage is to start thinking about possible codes relevant to your research topic.
- □ Assigning data to the codes: the purpose of this stage is to begin to code the data. What is the data telling you?



Deductive, inductive or both?

https://www.youtube.com/watch?v=MmonSiFR-il



Key advice (Braun & Clarke, 2006)

- Code for as many potential patterns as possible
- Keep a little surrounding data for context
- Data extracts can be coded as much or as little as relevant



Manual or software?

- □ Manual
- □ Write notes in margin
- Use highlighters
- Use coloured pens
- Use post-it notes
- Collate manually

- Software (e.g. NVivo)
 - □Select text
 - □Assign code
 - □Data items
 - automatically collated



Example of manual coding (codes-categories-themes)



- A: I just want to get you talking about what the heart attacks meant to you and if it's changed your life. But just to get you started, tell me a bit about how it happened.
- □ DEREK: I've no idea whatsoever.
- □ A: You don't remember it?
- □ DEREK: Yes, Oh, yes. As though it were yesterday, but, I mean I were one of those people who nobody ever thought.....it was such a shock to everybody. I were one of them people who never thought it could happen, I'm a six-footer, twelve and a half stone. I were an active...at that time I were in an active job, all day every day. It were a shock.
- □ A: A shock? Why was it such a shock?
- DEREK: Why, all my family, they've had it, it's like hereditary type thing and that's always been. But with being on this job I always thought, well, I'm alright, you know, being fit, never fat I've always....I used to be in a steel firm and all that...I was a bit heavier then...... all my family died through it. So when it did happen...well, this is it, but when you think about it, I'm the only one what's had one but still here type thing.
- □ A: Did it make you feel frightened, or worried, or....?
- □ DEREK: At first, but then, I'd say no I just, you know....plod on, you know, carry on. I just don't know why it happened really.



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 healthy=no

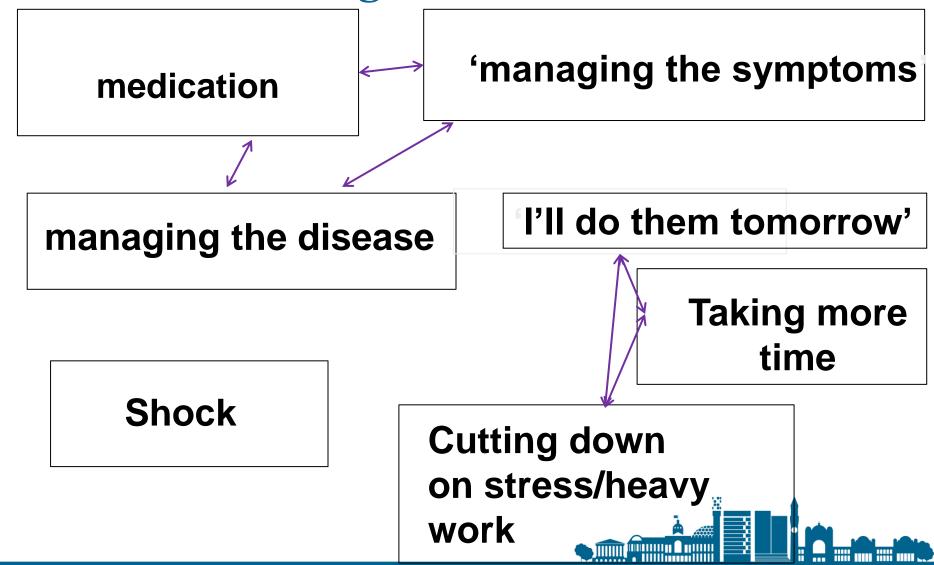
possibility of

heart attack

luck

genetic inheritance

Search for themes – map codes (codes into categories)



Review themes (codes into themes) – refine ideas

medication

'managing the symptoms'

managing the disease

Taking control of the disease

Cutting down on stress/heavy work

Struggling with physical work

I'll do them tomorrow'

Changes after having the heart attack

Shock



Define & name themes

Taking control of the disease

Changes after having the heart attack

Shock

I hate it if I have to get a [UK dress-size] twelve because I'm normally a ten. That's just women isn't it?

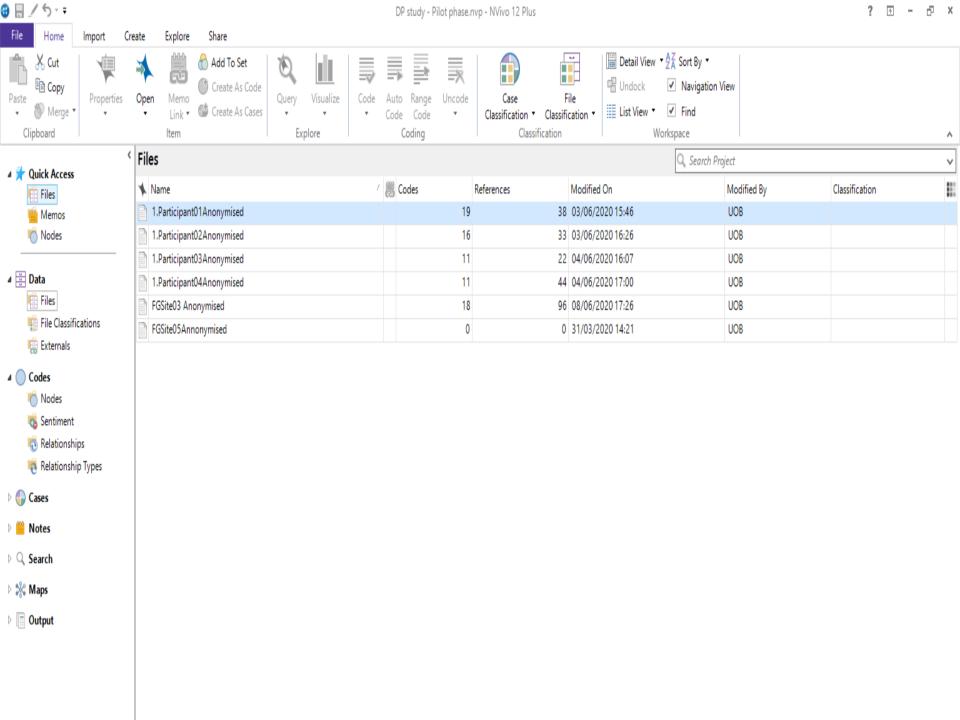
I was told by the people at the hospital that they would expect me to be back to normal, and I'm starting to learn what normal is to me - tearing down a corridor, leaping about in the lab trying explain things, you know

As soon as the pain comes on I stop, you know, or I say, right, that's enough.....At one time I would have carried on and wherever pain were you'd carry on and hope...like, but, now I stop now and I don't mess about.

mean I were one of those people who nobody ever thought.....it was such a shock to everybody. I were one of them people who never thought it could happen

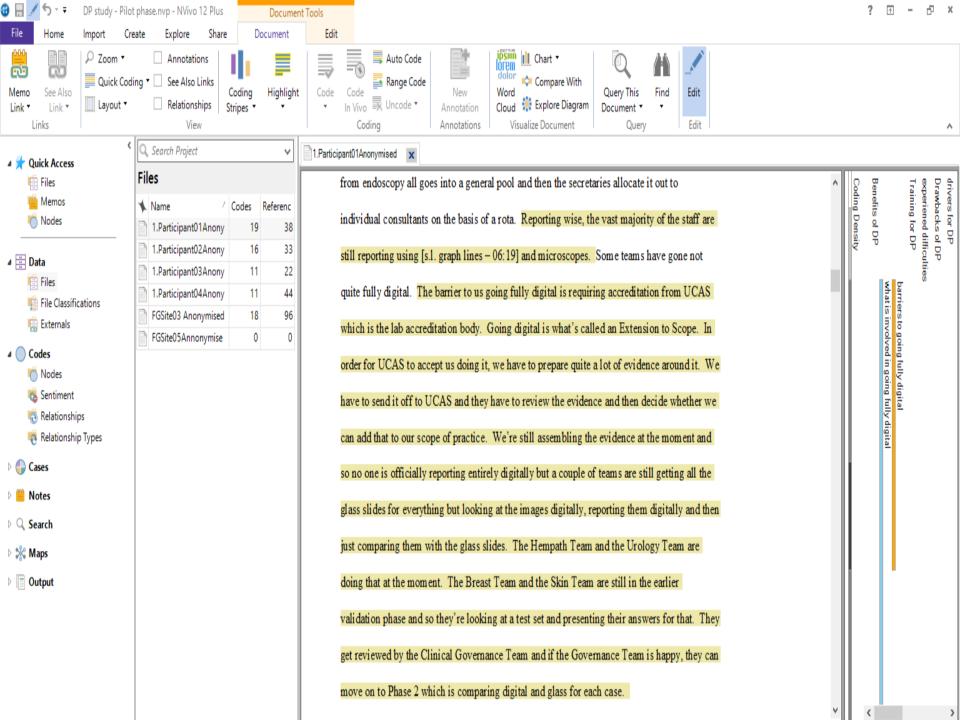
Thematisation...

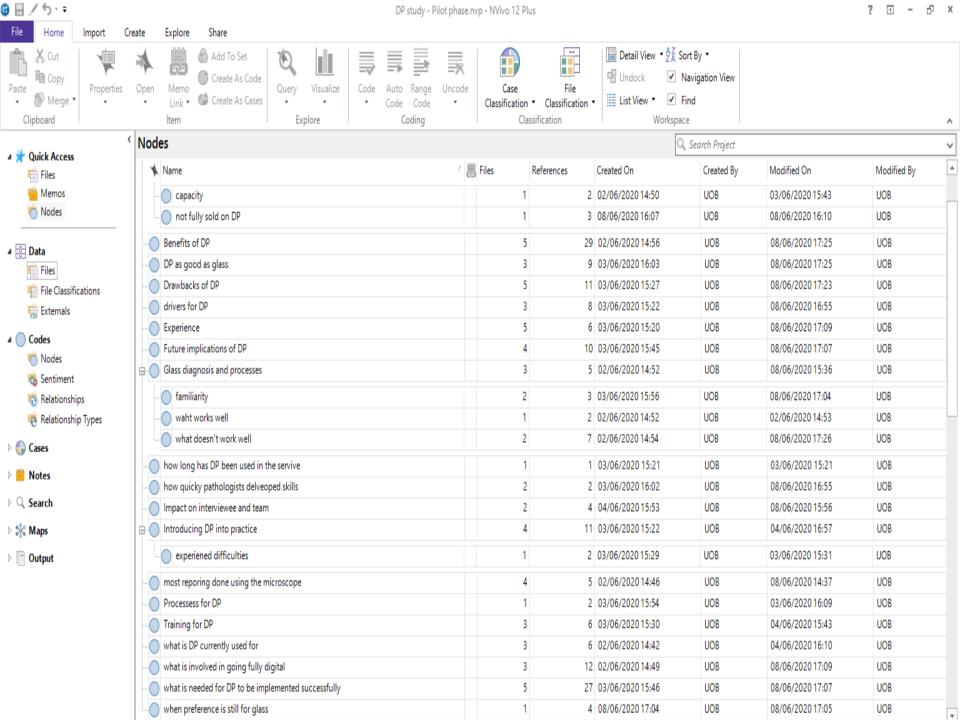
- Read through each sections of data.
- Note all the different issues raised by the coded extracts, and relevant respondents IDs...
- You will have a summary of all issues. within the code and respondents IDs
- How might these issues group together into broader themes?
- Aim is to develop an explanation of 'what is going on in the data'
- Need to take account of all issues raised, not just most common



Coding using NVivo







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Ross 4					
1	Hierarchical Name	Name	Coded Text		
sion about routine care	Nodes\routine tests and care\confusion about routine care	pt14_RGE	the consultant I'm under now, Dr. Banerjee, [yeah] she's very, very, very good. She's the one that's really taken an interest; mainly because I'm positive and I'm not prepared to - just to take it laying down [mhmm] erm, and from the results, she has done refer-, - and obviously, information that I lo-, - I found about the Zephyr valves [mhmm] came up. I did some research on that and when I saw her, I said, 'Look, I'd like to go for - have, have a go on these Zephyr valves. She did a referral to Bristol [yeah], to a Dr. Jarad erm, and anyway, cut a long story short erm it was a little bit slow erm, with exchange of information between erm, Treliske Hospital and Bristol. From that, eventually, I got a letter saying that I had got a nodule on the lung [yeah] erm, which was something like 18 mon-, -I, I - from memory, it's between nine and 18 months later. So when I saw my consultant, I said, 'Why, why is, all of a sudden, this - am, am I being told about a nodule on the lung erm, so long, long after [yeah, yeah] when it was obviously, I'd had the X-ray, or CT scan, or whatever?" Nobody could explain that but all of a sudden, it was, 'Oh, go for this test. Go for that test. Go for this test.' I then said to erm, Dr. Banerjee that my mum, mum had died from erm, various cancers [yeah] only erm, 18 months ago. I was concerned because I have erm, pains up in my head and one of them was [yeah, sure] erm, my mum had cancer of the brain [yeah]. She had		
			About arms becomes of these arrivals.		

Name	Hierarchical Name	Name	Coded Text
embarassing aspects of disease	Nodes\\embarassing aspects of disease	pt14_RGE	It's only latterly that I've pushed hard to find out a bit more; plus, I've joined a COPD group online [yeah]. Er, it's American based [yeah] but er, it doesn't matter. Erm it's - to a certain extent, it's a little bit like a, a chatroom but it's, it's all erm, information - exchange of information [yeah] - g-, good and bad. Erm, I don't like to speak too specifically about erm, personal experiences [yeah] because it's - they're individual experiences as opposed to - but just as an example, I, I, I put - something I, I did put on and that was when I push myself to the extreme, I almost become incontinent [yeah] er, by, by having a wee [yeah, yeah] and I've always been slightly embarrassed by that. Erm, anyway, cut a long story short, I put that on the, the forum and asked if anybody else had come across it and suddenly, it opened a can of worms. It, it was a lot of people that suffer from the same thing but they had been too embarrassed to say anything and erm it was in-, interesting to, to find out that I wasn't alone. It was reassuring as well but not only that but other neonle were experiencing the exact.
equity	Nodes\\value of specialist centres\equity	pt14_RGE	The distance [yeah]. Erm, I feel those - the resources are obviously here. Why can't they be strate-, strastegically placed throughout the country so that more people ha? I am fortunate. I can afford to do - to come here [yeah]. How about the ones that can't? [Yeah]. They're, they're the ones that are missing out.
equity	Nodes\\value of specialist centres\equity	pt5_RGE	I think specifically worse with rare diseases I think. I don't think there's you know, erm – well I also think drug companies are just in it for the money. They say these drugs cost X

file 4

Name	Hierarchical Name	Coded Text
Awarness about NCD plan	Nodes\\Healthcare Professional\NCD Plan (old or existing)\Awarness about NCD plan	I: then have you have heard of the NCD Plan from the MoHS?
		R: no
Awarness about NCD plan	Nodes\\Healthcare Professional\NCD Plan (old or existing)\Awarness about NCD plan	Have you heard about the Non Communicable Disease Plan? R. No
Awarness about NCD plan	Nodes\\Healthcare Professional\NCD Plan (old or existing)\Awarness about NCD plan	I. But the job that you have done for the past six years, have you ever heard somebody come to the hospital and say this, this and this is from the ministry of health, it is the national plan now to try and engage somebody that have that Non Communicable Diseases, have you ever heard about the plan about that? R. That is more, for the plan, they might have done it in my absent because for now they have done plenty of things, maybe they have done it when I was not there, for now I have not heard about it yet, for come with anything, plan like that, call us, everybody, health workers, they have



Patient autonomy/control

Loss of control

<u>Dependence on clinicians (this could also go under the empowerment heading as a counterpoint to this argument?)</u>

In some <u>cases</u> digital communication may discourage patients from taking responsibility for their own health:

'I think... personally I do think it is too... I think it makes patients a little too dependent on you and you only, which we don't like that to happen.' (Transplant coordinator 3)

CSW06s03-3: Fine, I think because they do have a crisis plan and they, you know, they're not going to have me forever to text, so they need to learn to manage these situations themselves. And you know, they do have plans in place.

Some patients were concerned if they <u>didn't</u> hear from their clinician within a few days:

CSK01yp09-1: I wouldn't say it has altered my relationship with my consultant directly,

1. Nurse – patient relationship

For nurses: this includes understanding of the relationship from a nurse perspective; the role of the nurse; nurse-patient interaction; challenges to this relationship, including paternalism, the need to prioritise some work/patients because of the staff shortages, delays to treatment and shortages of drugs, challenges in caring for patients including overcrowding due to a large numbers of patients on long-term treatment regimens and dealing with defaulting patients

'You book him /her [the patient] for..... to come on this date, he will come maybe three weeks later, you see, and even the blood pressure is elevated then so we have to intervene' Nurse

'It is a problem because... They will give you excuses, some say I was attending a funeral, some will say I went to see my child who is sick ...they give excuses' Nurse

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Because of lack of resources, nurses may have to provide care without optimal support and safeguards for their patients. They may find it necessary at times



Ignatowicz, Agnieszka

Some notes: values around health and health care imply a specific approach to life, death, health and illness, and may entail a different view of the patient, health care professional, patient/health care professional relationship and health services.



Ignatowicz, Agnieszka

Nurses seem to relate to patients in particular ways, often perpetuating stereotypes and assumptions. The biomedical focus of the health care delivery does not engage adequately with patient expectations. Patients are assumed to understand the structure and bureaucracy of the health care system.

Nurses are aware of the social determinants of health



Ignatowicz, Agnieszka

Nurses are expected to support patient self-management. But self-management strongly focuses on patient autonomy and active patient involvement, implying a less dominant role for healthcare professional (in the Western world)...



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Data analysis

Interviews and focus groups were transcribed, anonymised and translated into English by two of the data collectors—one of whom is the coauthor on this paper for subsequent analysis. The transcripts were uploaded into the NVivo programme for coding and analysis.²² Data were analysed thematically using constant comparison²³ within a modified framework approach.²⁴ Codes were generated both inductively, from the data, and deductively, focussing on articulations of understanding of CVDRF and perceived barriers to accessing care. A sample of interview transcripts was read to identify the initial set of codes by two coauthors of this paper. This generated an initial coding framework that was discussed in an analysis meeting between members of the research team and then used to code all remaining interview and focus group transcripts. Codes were gradually built into broader categories and final themes through comparison across transcripts, with further discussion among all team members. In reporting the findings, direct quotes from participants that have been translated into English and anonymised were used. The quotes were translated in a way that closely represented what the person said and not to introduce errors into translation.



Exercise (30mins)

- Identify codes.
- Group codes (How might you merge these codes into broader categories which describe what's going on in the data?)
- 3. Start to develop initial themes.
- Identify more codes under each theme.
- Prepare a description of 2 themes you found and support with quotes