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**CaHRU and LIH Improvement Science and Research
Methods seminar**

**Conducting systematic reviews of
qualitative research studies**

**Patients' experiences and perceptions of GBS and its variants at diagnosis,
discharge and during recovery**

Dr Ffion Curtis & Despina Laparidou

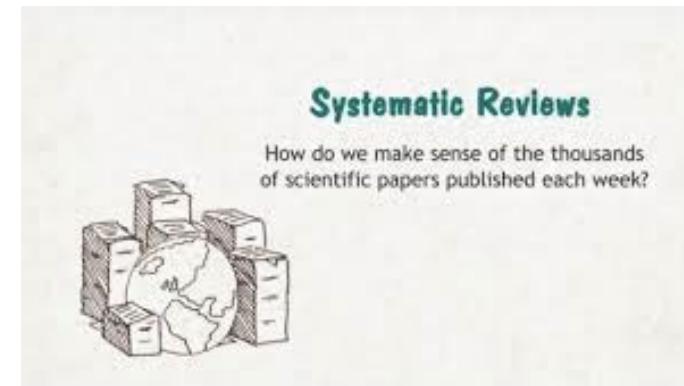
Systematic review of qualitative research studies

- Systematic Review:

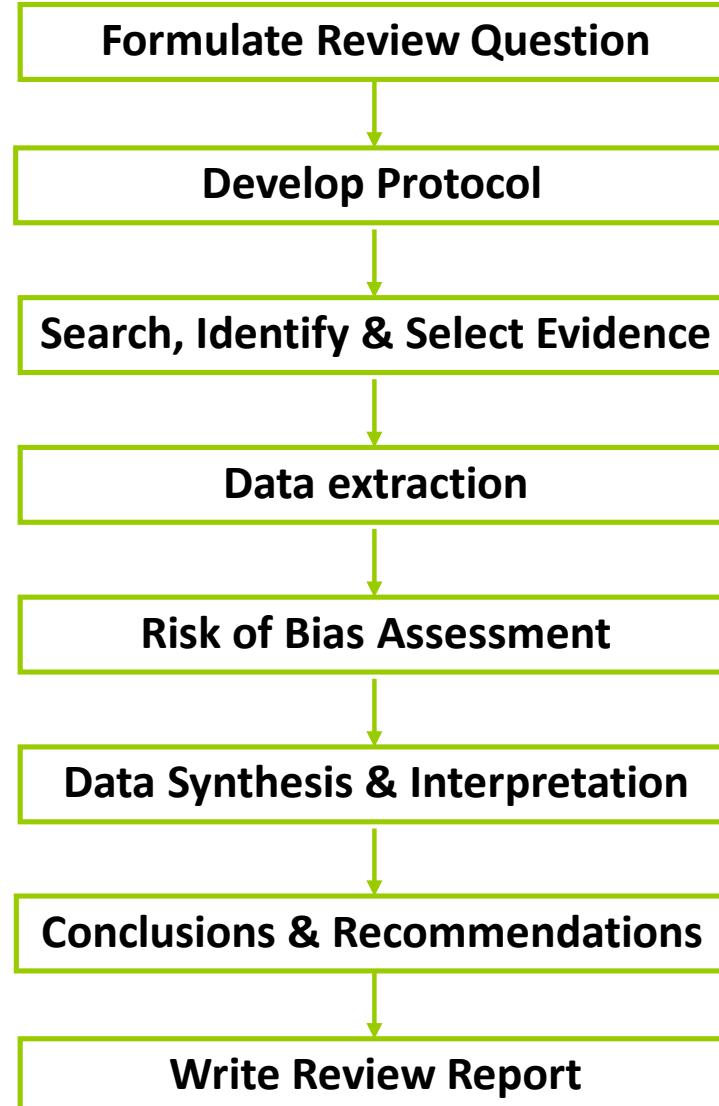
- A comprehensive, unbiased synthesis of many relevant studies in a single document using rigorous and transparent methods;
- A scientific methodology that is reproducible and amenable to rigorous evaluation.

- Types of systematic reviews:

- Quantitative systematic review & meta-analysis;
- Qualitative systematic review;
- Systematic mixed studies review;
- Umbrella review.



Key stages in conducting a systematic review



Formulate review question

PICo

- Population
- Phenomena of Interest
- Context



Example

- What are patients' experiences and perceptions of GBS and its variants at diagnosis, discharge and during recovery?

Population

Phenomena of Interest

Context

Develop protocol

- The review protocol is the first major milestone of any systematic review
 - Provides a rigid, well-specified plan for how each stage of the review will be conducted – a roadmap;
 - Helps to avoid or minimise bias at each stage of the review – but only if followed rigidly;
 - Should be sent for external peer review, e.g. advisory group comprising researchers, practitioners, users, etc.;
 - Should be published, e.g. project webpage, research register, or peer-reviewed journal.
- The review protocol was registered with the PROSPERO International prospective register of systematic reviews (CRD42019122199) and is available from:
http://www.crd.york.ac.uk/PROSPERO/display_record.php?ID=CRD42019122199

Systematic review standards

- Reporting standards exist to guide review reports:
 - PRISMA (Preferred Reporting Items for Systematic Reviews and Meta-Analyses);
 - PRISMA-ScR (PRISMA Extension for Scoping Reviews);
 - ENTREQ (Enhancing Transparency in Reporting the Synthesis of Qualitative Research);
 - Cochrane Handbook and MECIR (Methodological Expectations of Cochrane Intervention Reviews).

ENTREQ checklist (Enhancing transparency in reporting the synthesis of qualitative research) *

No.	Item	Guide questions/description	Reported on Page #
1.	Aim	State the research question the synthesis addresses	Title & 5-6
2.	Synthesis methodology	Identify the synthesis methodology or theoretical framework which underpins the synthesis, and describe the rationale for choice of methodology (e.g. meta-ethnography, thematic synthesis, critical interpretive synthesis, grounded theory synthesis, realist synthesis, meta-aggregation, meta-study, framework synthesis)	8-9
3.	Approach to searching	Indicate whether the search was pre-planned (comprehensive search strategies to seek all available studies) or iterative (to seek all available concepts until they theoretical saturation is achieved)	6-7
4.	Inclusion criteria	Specify the inclusion/exclusion criteria (e.g. in terms of population, language, year limits, type of publication, study type)	6
5.	Data sources	Describe the information sources used (e.g. electronic databases (MEDLINE, EMBASE, CINAHL, psycINFO), grey literature databases (digital thesis, policy reports), relevant organisational websites, experts, information specialists, generic web searches (Google Scholar) hand searching, reference lists) and when the searches conducted; provide the rationale for using the data sources	6-7
6.	Electronic Search strategy	Describe the literature search (e.g. provide electronic search strategies with population terms, clinical or health topic terms, experiential or social phenomena related terms, filters for qualitative research, and search limits)	67 Appendix 2



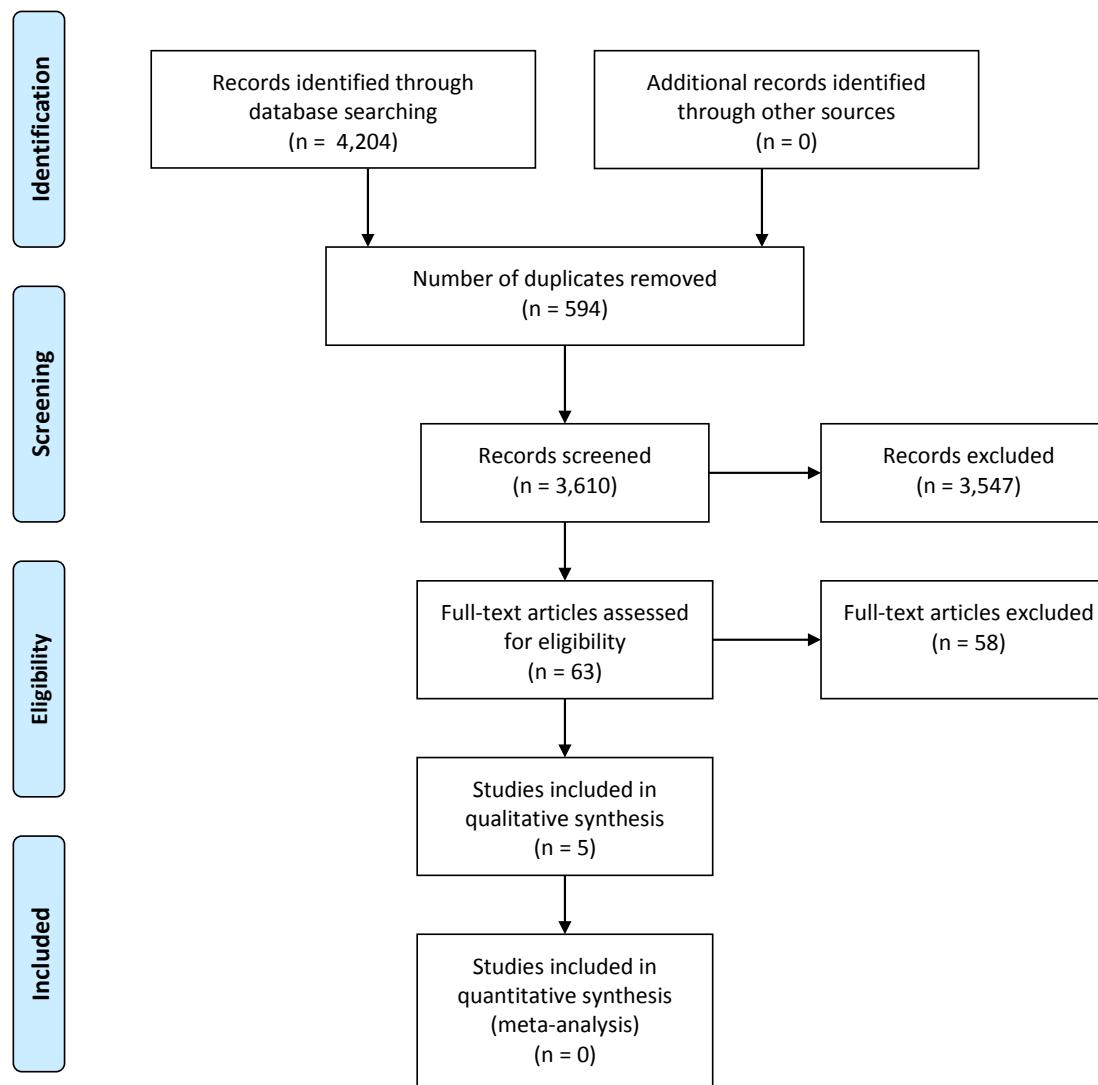
Construct your search strategy

Search ID	MeSH (Medical Subject Headings)	Search terms	Results
S1.	(MH "Guillain-Barre Syndrome") OR (MH "Miller Fisher Syndrome") OR (MH "Posterior Cervical Sympathetic Syndrome") OR "guillain–barré syndrome"		14,208
S2.	guillain-barre syndrome or gbs or Guillain-Barré		25,245
S3.	(MH "Polyradiculoneuropathy, Chronic Inflammatory Demyelinating") OR (MH "Guillain-Barre Syndrome") OR (MH "Polyneuropathies") OR (MH "Demyelinating Diseases") OR "chronic inflammatory demyelinating polyneuropathy (cidp)"		28,188
S4.	S1 OR S2 OR S3		45,850
S5.	(MH "Qualitative Research")	Truncation	95,077
S6.	interview* or focus group*		1,599,805
S7.	experience* or perception* or attitude* or view* or feeling* or opinion* or reflection* or belief*		7,914,020
S8.	acute inflammatory demyelinating polyneuropathy OR aidp		1,070
S9.	S1 OR S2 OR S3 OR S8	Boolean operators (AND/OR/NOT)	46,272
S10.	S5 OR S6 OR S7		8,890,291
S11.	S9 AND S10		2,484





PRISMA 2009 Flow Diagram



Data extractions

- Recording of information presented in primary studies
- Strike the right balance between reporting/recording too much or too little information
- Important data to extract:
 - **Participants:** demographic/disease characteristics, inclusion/exclusion criteria, sample size;
 - **Study characteristics:** aims, objectives, research questions, study design, setting, sampling method, data collection methods (e.g. interview, focus groups);
 - **Data analysis:** e.g. thematic analysis, interpretative phenomenological analysis, etc.;
 - **Results:** use NVivo software to facilitate analysis.

Data extraction

Final data extractions 08.10.18 - Excel

Despina Laparidou Share

Sweden												
Study ID	Journal paper				Aim of the study	Participants						
	Author	Year	Title	Journal		Sample size	Age	Gender	Ethnicity	Other info		How many (n, %)
Andersson et al 2005	Andersson, G., Andersson, D., Wiklund, M., Kaldo, V., & Larsen, H.C.	2005	Treatment of tinnitus in the elderly: a controlled trial of cognitive behavior therapy.	International Journal of Audiology 44:671 /675	The aim of the study was to investigate the effects of cognitive behavioral therapy (CBT) in elderly people with tinnitus (8/65 years).	23 patients	70.1±3.9: range 65-79	females 11, males 12		22% fitted with hearing aid (25% in treatment group and 18% in control), tinnitus duration 13±12.5: range 1-50 years		23, 100%
Beukes et al 2017	Beukes, E.W., Baguley, D.M., Allen, P.M., Manchaiah, V., & Andersson, G.	2017	Audiologist-Guided Internet-Based Cognitive Behavior Therapy for Adults With Tinnitus in the United Kingdom: A Randomized Controlled Trial	Ear & Hearing, XX, 00-00	This study aimed to determine the efficacy of guided iCBT, using audiological support, on tinnitus distress and tinnitus-related comorbidities, in the United Kingdom. A further aim was to establish the stability of intervention effects 2-months post-intervention.	146 (73 in each arm)	Mean 55.6 yrs (12.9 SD) range: 22-83	males N=83 57% Intervention: 43 (59%)	Not reported	Tinnitus duration Mean years (SD) Intervention: 11.1 (11.5) control: 12.4 (12.2) Overall: 11.7 (11.9) <u>Using hearing aids</u> No: intervention: 46 (63%) control: 46 (63%) overall: 92 (63%) Yes: intervention: 27 (37%) control: 27 (37%) overall: 54 (37%) <u>Employment status</u> Retired/unemployed: intervention: 30 (41%) control: 32 (44%) overall: 62 (44%) Professional: intervention: 18 (25%) control: 23 (32%) overall: 41 (28%) Service occupation: intervention: 9 (12%) control: 6 (8%) overall: 15	There were four groups and three who withdrew due to time pressures. Participants from assessment met experimental group difference in completing the	



Data extraction

Analytical themes 04.04.19.nvp - NVivo Pro

Sources

Name	Nodes	References
Cooke_Rehabilitation Nursing page 108	24	54
Data for coding - Forsberg 2015	69	98
Data for coding - Cooke 2003	47	77
Forsberg et al 2008	139	276
Hooks 2016 (002)	108	237
Royal et al 2009	106	170

Internals

Balancing everyday life two years after falling ill with Guillain-Barré syndrome: a qualitative study

Forsberg et al, 2015

Results

Lived body restrictions

A body that restricts. The participants described various bodily restrictions that still limited them in their everyday activities even two years after the onset of Guillain-Barré syndrome. They described large variations in symptoms; weakness and sensory sensations in their legs and arms, ache, and loss of energy. As well as limitations in everyday activities, they also expressed restricted possibilities for participation in society. Standing or walking for prolonged times were described as exhausting.

Sometimes I find it's hard just to walk 50 metres...when my legs are so tired. You end up in an odd position with your knees going in as you try to find some other way of doing it that will work [Participant (P) 18]

Participants who were more physically disabled described dependency on assistive mobility devices, however weak hand muscles made it difficult to grip wheelchair bars. Some used electric wheelchairs for longer distances, increasing their opportunities to participate in activities. However, some expressed frustration in relation to tasks, such as visiting shops, as there were often stairs and curbs.

Then there are all these little challenges you never think about when you're healthy. When you suddenly have to go into a store – there aren't that many provisions for disabled people. [P 13]

Participants with residual weakness in their hands also described the frustration of not being able to perform simple household chores. For some participants, sewing and knitting had been valuable leisure activities, and they described with sadness their limitations when trying to do such tasks.

"Once in a while I've tried to sew on a button. But it goes so badly I just want to chuck it all away. It's a real pain." [P11].

A specific bodily restriction mentioned by a couple of participants was facial dysfunction caused by continued paresis of the facial muscles. These participants were of younger age, and in the middle of careers and settling down in families. They described being frequently reminded of their problems when eating, as they hoarded food in their cheeks and were not able to eat thin liquids.

They described experiencing a reduction in the intensity of their emotions owing to, for example, being unable to smile. An everyday task such as talking on the phone was described as a struggle if one had difficulty pronouncing some letters.

Oh yeah, you feel it every day – it doesn't leave you untouched. No, it...you notice it when you talk, when you're about to eat, then it's like "oh you're having trouble with it even when you're eating". [P 81]

In Nodes Code At Enter node name (CTRL+Q)

DL 6 Items Nodes: 69 References: 98 Read-Only Line: 1 Column: 0

14:46 08/10/2019



Risk of bias assessment

Critical appraisal focuses on:

- congruity between philosophical position adopted in the study, study methodology, study methods, representation of the data and the interpretation of the results;
- Critical appraisal tools enable you to systematically assess the trustworthiness, relevance and results of published papers;
- Two reviewers will independently assess risk of bias

Critical Appraisal Skills Programme (CASP) Qualitative Checklist (2017)

File Tools View

Forsberg et al 2008 Data Extraction Form - Word



Findings/Results (Primary Data Excerpts to be extracted into NVivo Software)

Risk of Bias Two reviewers will independently assess risk of bias within included studies using the Critical Appraisal Skills Programme (CASP) Qualitative Checklist (2017).

	Yes	No	Can't tell	Support for judgement (include direct quotes where available with explanatory comments)	Location in text or source (pg & ¶/fig/table)
(refer to these answers when discussing risk of bias)					
1. Was there a clear statement of the aims of the research? <i>Consider</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		221
2. Is a qualitative methodology appropriate? <i>Consider</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3. Was the research design appropriate to address the aims of the research? <i>Consider</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	It appears to be appropriate, but the authors do not comment on this	221
4. Was the recruitment strategy appropriate to the aims of the research? <i>Consider</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		221

5. Was the data collected in a way that addressed the research issue? <i>Consider</i>	<ul style="list-style-type: none"> If the setting for data collection was justified If it is clear how data were collected (e.g. focus group, semi-structured interview etc.) If the researcher has justified the methods chosen If the researcher has made the methods explicit (e.g. for interview method, is there an indication of how interviews were conducted, or did they use a topic guide?) If methods were modified during the study. If so, has the researcher explained how and why? If the form of data is clear (e.g. tape recordings, video material, notes etc) If the researcher has discussed saturation of data 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not clear if they reached data saturation, but many argue that data saturation would only be relevant for grounded theory	221
6. Has the relationship between researcher and participants been adequately considered? <i>Consider</i>	<ul style="list-style-type: none"> If the researcher critically examined their own role, potential bias and influence during (a) Formulation of the research questions (b) Data collection, including sample recruitment and choice of location How the researcher responded to events during the study and whether they considered the implications of any changes in the research design 	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
7. Have ethical issues been taken into consideration? <i>Consider</i>	<ul style="list-style-type: none"> If there are sufficient details of how the research was explained to participants for the reader to assess whether ethical standards were maintained If the researcher has discussed issues raised by the study (e.g. issues around 	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ethics approval obtained, but no further info given	221

Screens 5-6 of 8



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Critical Appraisal Skills Programme (CASP) Qualitative Checklist (2017)

File Tools View

Forsberg et al 2008 Data Extraction Form - Word



<p>informed consent or confidentiality or how they have handled the effects of the study on the participants during and after the study)</p> <ul style="list-style-type: none">• If approval has been sought from the ethics committee	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8. Was the data analysis sufficiently rigorous? Consider <ul style="list-style-type: none">• If there is an in-depth description of the analysis process• If thematic analysis is used. If so, is it clear how the categories/themes were derived from the data?• Whether the researcher explains how the data presented were selected from the original sample to demonstrate the analysis process• If sufficient data are presented to support the findings• To what extent contradictory data are taken into account• Whether the researcher critically examined their own role, potential bias and influence during analysis and selection of data for presentation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	However, if they had used a more open approach to the interviews (i.e. not an a priori framework), maybe they would have had an even more detailed analysis, with more themes, etc.	221
9. Is there a clear statement of findings? Consider <ul style="list-style-type: none">• If the findings are explicit• If there is adequate discussion of the evidence both for and against the researchers arguments• If the researcher has discussed the credibility of their findings (e.g. triangulation, respondent validation, more than one analyst)• If the findings are discussed in relation to the original research question	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		222 & 224
10. How valuable is the research? Consider <ul style="list-style-type: none">• If the researcher discusses the contribution the study makes to existing knowledge or understanding e.g. do they consider the findings in relation to current practice or policy?, or relevant research-based literature?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Given that it is a qualitative study, I think it offers valuable insight into patients' experiences. However, this is not explicitly stated.	

<ul style="list-style-type: none">• If they identify new areas where research is necessary• If the researchers have discussed whether or how the findings can be transferred to other populations or considered other ways the research may be used					
--	--	--	--	--	--

END OF FORM

(*PLEASE ENSURE ANY NOTES INCLUDING THE REQUIREMENT OF CORRESPONDENCE FOR FURTHER STUDY INFORMATION ARE COPIED TO PAGE 1*)

End of document



Screens 7-8 of 8



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Risk of bias assessment

Table 3. Critical appraisal/quality assessment of studies

Study	CASP01	CASP02	CASP03	CASP04	CASP05	CASP06	CASP07	CASP08	CASP09	CASP010
Cooke & Orb, 2003	●	●	●	●	●	●	●	●	●	●
Forsberg et al., 2008	●	●	●	●	●	●	●	●	●	●
Forsberg et al., 2015	●	●	●	●	●	●	●	●	●	●
Hooks, 2015	●	●	●	●	●	●	●	●	●	●
Royal et al., 2009	●	●	●	●	●	●	●	●	●	●



Data synthesis & interpretation

- Approaches to Qualitative Synthesis:

- Thematic synthesis - **our approach**;
- Narrative synthesis;
- Realist synthesis;
- Content analysis;
- Meta-ethnography;
- Meta-aggregation.

BMC Medical Research Methodology



Research article

Open Access

Methods for the thematic synthesis of qualitative research in systematic reviews

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Data synthesis & interpretation

Analytical themes 04.04.19.nvp - NVivo Pro

FILE HOME CREATE DATA ANALYZE QUERY EXPLORE LAYOUT VIEW

Go Refresh Open Properties Edit Paste Merge Cut Copy Merge

Workspace Item Clipboard Format Paragraph Styles Editing Proofing

Look for Search In Nodes Find Now Clear Advanced Find

Nodes

Name	Sources	References
Achieving 'normality' again	0	0
desire to go back to normal	0	0
Hiding GBS	0	0
Milestones	0	0
accomplishing achievements and milestones motivating for patients	1	6
Becoming independent	0	0
distinct turning point was a relief	1	1
Going back to work	0	0
best way of moving on with life is going back to work	1	4
going back to work is a step forward	1	2
returning to work was a pivotal moment in the GBS trajectory	1	2
work has a positive impact upon behaviour & provides clear direction	1	1
work offers sense of purpose & structure to life (another motivation for	1	3
work was a marker of return to normal life & normal self	1	7
half of the patients could pinpoint a turning point	1	3
Moving to rehab ward	0	0
patients hang on to reassuring prognosis like a 'lifebuoy'	1	2
Starting to walk again	0	0
Others' perceptions of GBS	0	0
re-evaluating life	0	0
the path to recovery	0	0
Adjustment	0	0
Barriers to recovery	0	0
Facilitators to recovery	0	0
Ongoing difficulties	0	0
Response to & coping with early illness experience	0	0

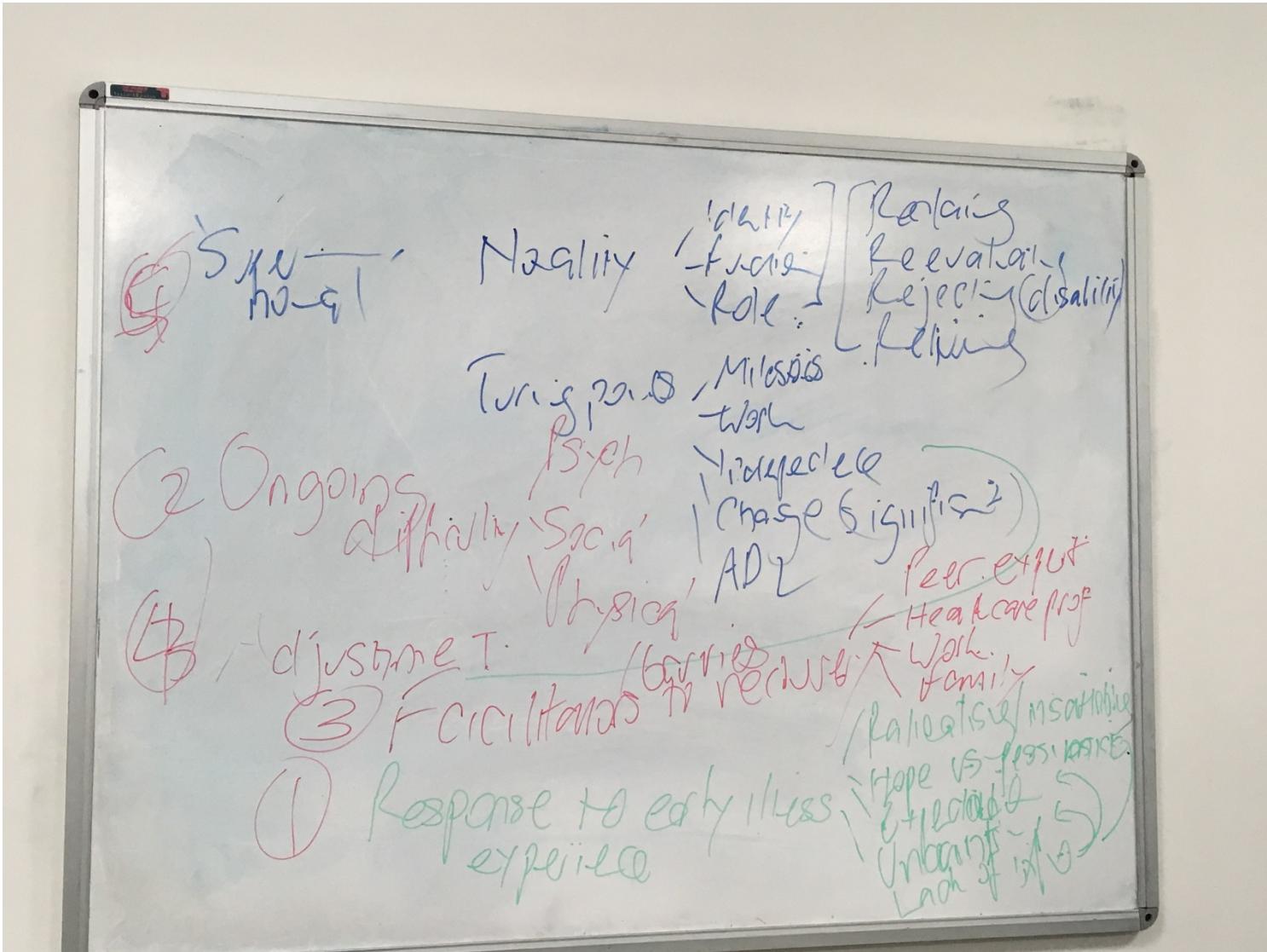
Drag selection here to code to a new node

In Nodes Code At Enter node name (CTRL+Q)

DL 618 Items

16:12 08/10/2019

Data synthesis & interpretation



Thomas & Harden (2008) Thematic synthesis

Analytical themes	Descriptive themes	Parent codes	Quotes
From uncertainty to hope	Rationalising symptoms & misattributing diagnosis	Attributing GBS to stress	"...one participant attributed the onset of GBS to severe stress, so became diligent about limiting his responsibilities at work."
		Fears of having cancer or MS	"Some also described a fear of having a better-known disease such as cancer or multiple sclerosis."
		Initially attributing symptoms to fatigue, medication, infection, etc.	"A few persons tried to ignore the strangeness of their bodies, but others came up with explanations such as being tired or overworked."
		Initially ignoring symptoms	"At first, these strange sensations were ignored but after a couple of days the feelings of illness increased."
		Misdiagnosis by healthcare staff	"This participant went to the physician's office for care. The physician's office called for emergency support and transport because they felt this participant was having a stroke."
	Participants were eager to find out what's happening to them/Relief about diagnosis	Relieved to be admitted to hospital	"Glad that I'd arrived someplace where somebody could help me. Relieved a little bit. I guess when I was admitted to the hospital that they were glad they didn't send me home...and after the ICU experiences, I began to awake and learn more about what I had."
	Prognosis	Relying on the promise of recovery	"The concern of having a very serious disease and the fact of a prolonged recovery was becoming a realization, while others in the same situation still continued to rely heavily on the prospect of a positive prognosis."
		Some received more pessimistic prognosis	"For instance, a few persons received a more pessimistic prognosis early in the course of disease."
		Some were sad & disappointed re the long recovery	"A couple of persons described a growing awareness soon after the diagnosis, that recovery would take a long time and that this made them disappointed and sad."
	Uncertainty	Uncertainty	"The uncertainty was overwhelming for many and affected their whole lives."
	Need for information	GBS info reassuring	"Frank information about the course of disease made many persons feel secure, even when the paralysis increased. They knew that the paralysis could affect their respiratory muscles and that mechanical ventilation could be necessary."

Present results- Evidence table

Table 2. Study characteristics

Study	Study aims	Sample	Method of data collection	Method of data analysis
Cooke & Orb, 2003; Australia	To “examine the perspectives of patients with Guillain-Barré syndrome during their recovery phase”	Purposive sampling of 5 participants (3 male, 2 female) admitted to the hospital with a diagnosis of GBS; discharged from hospital in the last 2 years Ages: 28-67 years	Semi-structured individual interviews with open-ended questions	Constant comparative method
Forsberg et al., 2008; Sweden	To “describe experiences of falling ill with GBS, with the focus on the onset of disease, the diagnosis and the illness progress during hospital care”	The study population (35 participants: 22 male, 13 female) was identified in a previous multicentre study, including eight hospitals. Participants were approached 2 years after illness onset. Ages: 20–78 years	Individual interviews	Content analysis
Forsberg et al., 2015; Sweden	To “describe experiences of disability in everyday life and managing the recovery process two years after falling ill with Guillain-Barré syndrome”	The study population (35 participants: 22 male, 13 female) was identified from a previous longitudinal study. Participants were approached 2 years after illness onset. Ages: 22-80 years	Semi-structured individual interviews	Content analysis
*Hooks, 2015; USA	To “gain a richer understanding of the patient’s recalled experience of an acute episode of moderate to severe Guillain-Barre’ syndrome”	Individuals, from eight different states, with a prior self-identified diagnosis of moderate to severe GBS. The sample (recruited through	Semi-structured individual interviews	Content analysis



Present results- Main themes

Table 4. Analytical and descriptive themes

Analytical theme	Descriptive themes
Theme 1: From uncertainty to hope	<ul style="list-style-type: none">Initial strange sensationsRationalising symptoms & misattributing diagnosisParticipants' eagerness to find out what's happening to themUncertaintyHealthcare professionals' lack of knowledge and experience with GBSNeed for information about GBSProspect of a positive prognosisHope of recovery
Theme 2: Feeling lost in a changing life	<ul style="list-style-type: none">Experience of physical symptomsLoss of identityDependency, vulnerability and feelings of helplessnessFeelings of shame and embarrassmentPsychological responses to GBSEffects of GBS on family lifeDifficulties with re-assuming social livesExperiencing work-related difficulties
Theme 3: Fractured care	<ul style="list-style-type: none">Lack of continuity of careLack of person-centred care at hospitalFeeling not listened to by healthcare staffCommunication issues with healthcare staffFeeling that needs are not being met by healthcare staffLack of publicity about GBS

Our systematic review- Conclusions

- Exploring this literature has enabled us to:
 - Identify how patients may need extra support to cope better with their recovery;
 - Identify ways that healthcare professionals and services can help facilitate further such a recovery.
- One of the most important areas that needs to be addressed is the lack of knowledge about GBS among the majority of healthcare professionals.
- One factor that positively influenced management and eventually outcomes was having a positive attitude and thinking towards recovery.
- Being diagnosed with and surviving GBS was a life-changing experience for all participants.

Disseminate findings

- Failing to disseminate research findings is unethical, and the protocol should detail precisely a dissemination strategy:
 - How will you disseminate the findings? Where will you publish?
 - Project report to GAIN charity
 - Peer-reviewed journal
 - Conferences
 - Who is your intended audience?
 - People diagnosed with GBS & their relatives/carers
 - Healthcare professionals
 - Social services
- Manuscript currently in preparation
(Social Science & Medicine)



References

- Aromataris, E., & Pearson, A. (2014). The Systematic Review: An Overview. *The American Journal of Nursing*, 114 (3), 47-55.
- The Joanna Briggs Institute (JBI).
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- Tong, A., Flemming, K., McInnes, E., Oliver, S.A., & Craig, J. (2012). Enhancing transparency in reporting the synthesis of qualitative research: ENTREQ. *BMC Medical Research Methodology*, 12, 181.



Thank you for listening!