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Patient complaints in healthcare systems: a systematic review and coding taxonomy

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ABSTRACT

Background Patient complaints have been identified as a valuable resource for monitoring and improving patient safety. This article critically reviews the literature on patient complaints, and synthesises the research findings to develop a coding taxonomy for analysing patient complaints.

Methods The PubMed, Science Direct and Medline databases were systematically investigated to identify patient complaint research studies. Publications were included if they reported primary quantitative data on the content of patient-initiated complaints. Data were extracted and synthesised on (1) basic study characteristics; (2) methodological details; and (3) the issues patients complained about.

Results 59 studies, reporting 88 069 patient complaints, were included. Patient complaint coding methodologies varied considerably (eg, in attributing single or multiple causes to complaints). In total, 113 551 issues were found to underlie the patient complaints. These were analysed using 205 different analytical codes which when combined represented 29 subcategories of complaint issue. The most common issues complained about were 'treatment' (15.6%) and 'communication' (13.7%). To develop a patient complaint coding taxonomy, the subcategories were thematically grouped into seven categories, and then three conceptually distinct domains. The first domain related to complaints on the safety and quality of clinical care (representing 33.7% of complaint issues), the second to the management of healthcare organisations (35.1%) and the third to problems in healthcare staff-patient relationships (29.1%).

Conclusions Rigorous analyses of patient complaints will help to identify problems in patient safety. To achieve this, it is necessary to standardise how patient complaints are analysed and interpreted. Through synthesising data from 59 patient complaint studies, we propose a coding taxonomy for supporting future research and practice in the analysis of patient complaint data.

INTRODUCTION

Patient complaints provide a valuable source of insight into safety-related problems within healthcare organisations.¹ Patients are sensitive to, and able to recognise, a range of problems in healthcare delivery,² some of which are not identified by traditional systems of healthcare monitoring (eg, incident reporting systems, retrospective case reviews).³ Thus, patient complaints can provide important and additional information to healthcare organisations on how to improve patient safety.⁴ Furthermore, analysing data on negative patient experiences strengthens the ability of healthcare organisations to detect systematic problems in care. This has recently been highlighted in the UK through the Francis report⁵ on 1200 unnecessary deaths that occurred over 3 years at Mid-Staffordshire NHS Foundation hospital. The report found that, over the duration of the incident, written patients complaints had identified the problems of neglect and poor care at the trust. Yet, deficiencies in complaint handling meant critical warning signs were missed, and numerous challenges in using patient complaint data to improve patient safety were highlighted.⁶

Healthcare organisations receive huge volumes of complaints (eg, over 100 000 annually on hospital care in the NHS), and complaints can focus on diverse problems (from car parking to prescribing errors), describe different types of harm (eg, physical, emotional), have legal or malpractice implications, and have different underlying aims (eg, resolving dissatisfaction, creating change, preventing future issues).⁷⁻⁹ The level of standardisation of techniques used to analyse patient complaints is unclear, and there may be benefit in developing a standardised and



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reliable taxonomy for analysing and interpreting (in terms of patient safety) complaint data. To achieve this, we provide the first systematic review of empirical research on patient complaints. The aim of the review is to outline the practices used to code and analyse patient complaints, and to describe the types and prevalence of issues underlying patient complaints. Furthermore, through data synthesis, we develop a taxonomy for guiding and standardising the future analysis of patient complaints, with the purpose being to support research and practice on analysing and using information reported in letters of patient complaints.

Patient letters of complaint

Patient complaints usually refer to an 'expression of grievance' and 'dispute within a health care setting'.¹⁰ They are often formal letters written to a healthcare organisation (or regulator) after a threshold of dissatisfaction with care has been crossed.¹¹ Typically, complaints are made by patients or families.¹² To resolve complaints, healthcare institutions usually create dialogue on the complaint, investigate it and reach a resolution *for the individual patient* (eg, apologise, reject, compensate).¹⁰ In considering how patient complaint data might be used to identify or reduce problems in patient safety, a number of distinguishing features of patient complaints require discussion.

First, patient complaints do not reflect a systematic investigation of failure; instead, they represent individual patient experiences. Complaints are unstandardised, although can report incidences of physical or mental harm.¹⁰ Second, patient complaints are often emotive. They can describe anger and distress, with the skills and attitudes of individual healthcare professionals being criticised. Third, patient complaints may not be put forward to improve healthcare provision, and thus may not explicitly highlight key learning points that could be used to improve healthcare services. Fourth, patient complaints often prioritise problems in interactions with healthcare staff,^{7 13} leading to a focus on subjective and less proceduralised aspects of treatment (eg, compassion and dignity), and how they interact with quality and safety.¹⁴ Fifth, patient complaints can be made without an awareness of the wider system pressures influencing care (eg, staff workloads), meaning they may not identify all of the contributory factors leading to a problem in care.

Nonetheless, patient complaint data can provide unique patient-centred insights into aspects of care that may not be easily captured through traditional quality and safety metrics (eg, dignity). Crucially, when patient complaints are considered at an aggregate level (eg, a hospital), they potentially indicate problematic trends in healthcare provision. Rigorous and systematic analytical procedures are essential if learning from patient complaints is to be facilitated. For example, in understanding the causes of adverse

events, highly systematic and standardised investigatory techniques have been developed for analysing medical errors (eg, using human factors frameworks to identify causal factors¹⁵). These have facilitated the (i) generation of normative data on the frequency, nature and causes of adverse events;¹⁶ (ii) identification of challenges for different healthcare organisations/specialities;¹⁷ and (iii) interventions based on causal analyses.¹⁵ Similar rigour may be beneficial in extracting safety-related data from patient complaints. To contribute to future patient complaint research (and the patient safety literature more generally) our review has two aims.

The first aim is to systematically review quantitative articles reporting primary data on patient complaints in order to assess the nature and quality of the patient complaint research literature. We do this through:

1. Describing the characteristics of patient complaint studies.
2. Describing the methodologies used to collect and analyse patient complaint data.

The second aim is to synthesise quantitative data on the type and prevalence of issues that underlie patient complaints, and to propose a patient complaint coding taxonomy for guiding future research and practice. We do this through:

3. Reporting on and consolidating the issues identified as underlying patient complaints across the literature.
4. Sorting and thematically grouping the issues identified as underlying patient complaints in order to develop a data-driven patient complaint coding taxonomy.

METHOD

Study selection

This is the first systematic literature review on patient complaints in healthcare institutions. Accordingly, no protocol exists to guide the review, and so standard protocols for systematic review were applied.¹⁸ The starting eligibility criteria were articles reporting primary data on patient complaints in English. A search strategy to select relevant papers was then applied. [Figure 1](#) describes the study selection procedure.

For stage 1, the search terminology was designed to limit the number of studies with the term 'complaint' in order that a relevant and manageable number of papers could be identified ('complaint' is a very common medical term). Studies were only identified if the word 'complaint' featured (or a common synonym, such as grievance or letter, or antonym such as satisfaction) alongside the words 'care', 'quality' or 'safety' in the title or abstract. This meant papers referring to the term 'complaint' only were not included.

For stage 2, the abstracts of articles with titles of relevance were inspected. For stage 3, the inclusion criteria identified articles with complaints submitted by patients on poor healthcare experiences (or representing third-parties), and excluded those where complaints were not initiated by patients or significant

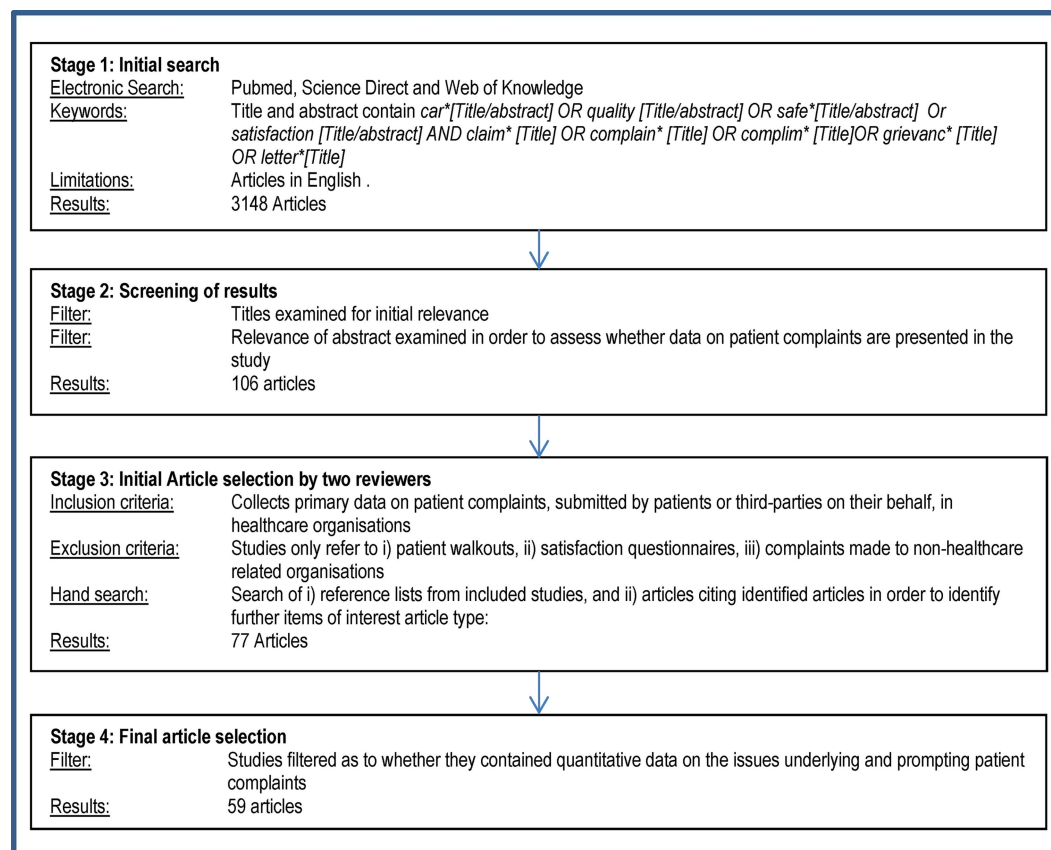


Figure 1 Study selection procedure.

others (eg, elicited by researchers) were not submitted to healthcare organisations (or regulators), or reported poor healthcare experiences but not a specific complaint (eg, satisfaction surveys, patient walkouts). For all papers, the reference lists were hand-searched to identify other articles for potential inclusion. For stage 4, papers providing quantitative data were selected. For stages 3 and 4, all papers were reviewed for inclusion independently by two psychologists (JR, TR). Inter-rater reliability for agreement was acceptable ($\kappa=0.71$, $p<0.001$), and where disagreement occurred a third psychologist adjudicated (AG).

Data extraction and analysis

The data were initially extracted by a single reviewer (JR), and then checked by a second reviewer (TR/AG). The process consisted of the following four phases.

Phase I: descriptive data

Data extraction. (1) Year published, (2) country, (3) healthcare environment, (4) number of patient complaints, (5) number of issues reported within a complaint, (6) characteristics of complainer, (7) gender of patient, (8) focus of complaints (medical or nursing staff) and (9) suggestion or implementation of interventions.

Data analysis. Trends on the year and country of research, the total number of complaints reported,

issues identified, and characteristics of the patient, complainant and complainer.

Phase II: methodological data

Data extraction. (1) Medium of complaint capture, (2) whether multiple issues were identified in each complaint, (3) number of codes used to analyse complaints, (4) source of complaint coding frame and (5) who did the coding.

Data analysis. Trends on the use of complaint capture methodologies, methods of complaint analysis, use and development of theoretical models, and development or suggestion of interventions.

Phase III: issues raised in patient complaints

Data extraction. The number and types of issues reported as underlying patient complaints in all studies (ie, the causes of the complaint).

Data analysis. Aggregating the types and prevalence of issues found to underlie patient complaints. Across the studies selected for inclusion, there were 729 different complaint issue codes used. To facilitate the analysis and aggregation of data, it was necessary to synthesise the many issues used to account for complaints into semantically and conceptually parsimonious codes (eg, 'attitudes' were coded in 20 studies, using 15 different wording of 'attitude' codes). [Figure 2](#) explains in detail the process for recoding. Recoding was conducted by a single reviewer (TR),

1. For each article, the complaint issue codes were extracted, alongside the number of issues associated with each code (and the total number of issues in each study). Issue codes were then sorted alphabetically so highly similar codes could be identified.

2. Complaint issue codes were then recoded to develop parsimonious codes for aggregated analysis.

3. Complaint issue codes were then grouped together according to conceptual similarity.

4. Sub-category titles were generated, and the aggregate data on no. of complaint issues was calculated.

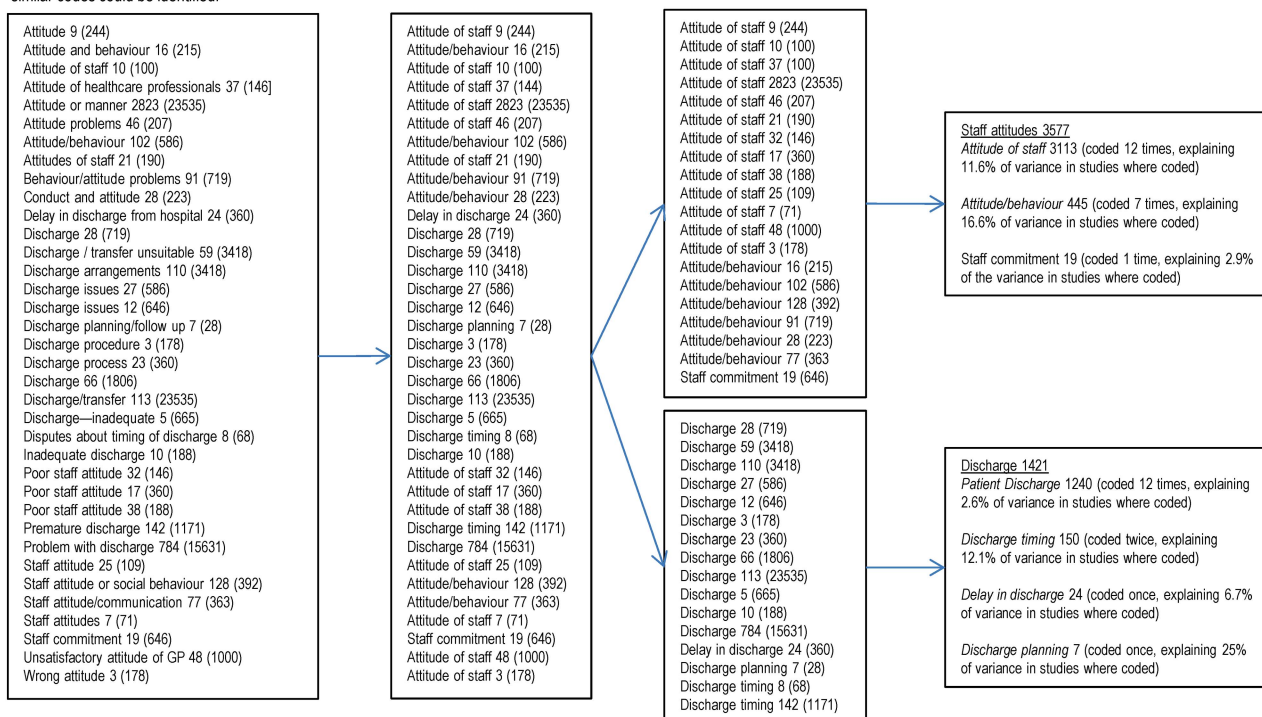


Figure 2 Illustration of the complaint issue recoding process.

and then checked for accuracy (JR/AG). The recoded issue codes were then grouped together conceptually and labelled (eg, into the ‘subcategory’ of ‘attitude’), with the total number of issues associated with each issue code and subcategory being calculated.

Phase IV: developing a complaint coding taxonomy

The final stage of analysis involved the development of a complaint coding taxonomy. An inductive sorting exercise of the codes and subcategories identified in phase III was performed. Through a discursive process, the research team (TR, AG, and JR) created definitions for each subcategory (which captured the issues within each), and then thematically analysed the complaint subcategories into groupings that appeared conceptually similar (to create categories). The categories were then labelled to reflect the subcategories within them. The categories were then grouped together according to similarity in order to form ‘domains’ of patient complaint. These were labelled to reflect the categories within them and also to create links with relevant theories (ie, that might be used to understand or explain the content of complaints).

RESULTS

Search results

Fifty-nine publications were included. Articles were excluded for a range of factors, for example, not having extractable quantitative data,^{19 20} providing

inexact data on complaint issues²¹ or focusing primarily on patient goals of complaining.^{9 22}

Phase I: descriptive data

The articles identified in the review and their key characteristics are listed in [table 1](#). The earliest article was published in 1987, and research has steadily increased. Early research was conducted in the USA, UK and Australia, and more recently Taiwan, Netherlands, New Zealand, Canada, Iran, Sweden, Germany, Hong Kong, France and Singapore. The articles reported complaints from hospitals (51%), emergency units (13%), and a range of mixed and specific units (36%). The number of complaints being reported on varied considerably (mean 1493, SD 3888, range 28–19 156, median 226).

The data for the complainant and complainer were only extractable in 61% of the studies. In the 36 studies (comprising 44 211 complaints) reporting on the complainant, 64% were patients and 26% were family. In the 33 studies (comprising 36 612 complaints) reporting the target of the complaint, 86% were medical staff, 6% were nursing staff and 8% were other. In all, 55% of studies suggested an intervention and 17% implemented an intervention.

Phase II: methodological data

In the 43 articles reporting the medium for capturing patient complaints, 84% were written (with 61% of

Table 1 Descriptive and methodological characteristics of identified article

Authors	Year	Country	Healthcare environment	No. of complaints reported	System-level intervention	Single or multiple coding	No. of codes used	Source of coding frame	Complaint coded by
Schwartz and Overton ²³	1987	USA	Emergency	244	Suggested	Single	12	NR	Secretarial staff
Chande <i>et al</i> ²⁴	1991	USA	Hospital	176	Suggested	Single	11	NR	Healthcare staff
Owen ²⁵	1991	UK	Primary care	1000	NR*	Single	13	NR	Author(s)
Burstein and Fleisher ²⁶	1991	USA	Hospital	67	Suggested	Multiple	4	NR	Unit manager
Hunt and Glucksman ²⁷	1991	UK	Emergency	122	Suggested	Multiple	11	NR	Author(s)
Donaldson and Cavanagh ²⁸	1992	UK	Hospital	71	Suggested	Multiple	6	NR	Healthcare staff
Kadzombe and Coals ²⁹	1992	UK	Emergency	66	NR	Multiple	8	NR	Unit manager
Hanson <i>et al</i> ³⁰	1994	Australia	Child A&E	71	Suggested	Single	5	NR	Parents
Allsop ³¹	1994	UK	Surgery	110	NR	Multiple	6	Literature	Author(s)
Bark <i>et al</i> ⁷	1994	UK	Hospital	491	Suggested	Multiple	9	Literature	Author(s)
Lloyd-Bostock and Mulcahy ^{10†}	1994	UK	Hospital	399	Implemented	Multiple	36	Developed	Author(s)
Nettleton and Harding ³²	1994	UK	Multiple	107	NR	Multiple	43	NR	Author(s)
Curka <i>et al</i> ³³	1995	USA	Emergency	371	Suggested	Single	8	NR	Unit manager
Webb ³⁴	1995	UK	Hospital	188	Suggested	Single	18	NR	Healthcare staff
Ingram and Roy ³⁵	1995	UK	Psychiatric	47	NR	Multiple	10	NR	Author(s)
Mulholland and Dawson ³⁶	1998	NZ	Multiple	146	Suggested	Single	5	NR	Author(s)
Mace ³⁷	1998	USA	Hospital	28	Implemented	Single	5	NR	Healthcare staff
Lim <i>et al</i> ³⁸	1998	Singapore	Clinics	226	NR	Multiple	38	NR	Complaint staff
Daniel <i>et al</i> ³⁹	1999	Australia	Multiple	290	NR	Single	12	NR	Complaint staff
Pichert <i>et al</i> ^{40†}	1999	USA	Hospital	6419	Implemented	Multiple	15	Developed	Complaint staff
Allen <i>et al</i> ^{41†}	2000	USA	Hospital	3984	Implemented	Single	5	Developed	Patients
Halperin ⁴²	2000	USA	Multiple	29	NR	Single	5	NR	Complaint staff
Anderson <i>et al</i> ⁴³	2000	Australia	Hospital	127	NR	Multiple	17	NR	Patient advisor
Pitarka-Carcani <i>et al</i> ⁴⁴	2000	UK	Psychiatric	100	Implemented	Multiple	23	NR	NR
Anderson <i>et al</i> ⁴⁵	2001	Australia	Hospital	1308	NR	Multiple	8	NR	Patient advisor
Powers and Bendall-Lyon ⁴⁶	2002	USA	Hospital	211	NR	Single	5	Literature	Complaint staff
Taylor <i>et al</i> ⁴⁷	2002	Australia	Emergency	2419	Suggested	Multiple	43	NR	Complaint staff
Colwell <i>et al</i> ⁴⁸	2003	USA	Emergency	286	Suggested	Single	10	NR	Unit manager
Choy <i>et al</i> ⁴⁹	2004	Hong Kong	Hospital	241	Suggested	Multiple	4	NR	NR
Taylor <i>et al</i> ⁵⁰	2004	Australia	Hospital	19 156	Suggested	Multiple	7	NR	Complaint staff
Wofford <i>et al</i> ⁵¹	2004	USA	Hospital	222	Suggested	Multiple	7	Developed	Author(s)
Stelfox <i>et al</i> ⁵²	2005	USA	Hospital	483	NR	Single	2	NR	NR
Friele and Sluijs ⁵³	2006	Netherlands	Hospital	424	NR	Multiple	4	Literature	Patients
Chavan <i>et al</i> ⁵⁴	2007	UK	Eye infirmary	94	Implemented	Single	6	NR	Complaint staff
Cowan and Wilson ^{55†}	2007	UK	Surgery	526	Suggested	Single	6	NR	Healthcare staff
Kline <i>et al</i> ⁵⁶	2007	Canada	Hospital	586	Suggested	Single	11	NR	Complaint staff
Saravanan <i>et al</i> ⁵⁷	2007	UK	Hospital	100	Suggested	Single	6	NR	NR
Siyambalapitiya <i>et al</i> ^{58†}	2007	UK	Hospital	183	Suggested	Single	6	NR	Complaint staff
Natangelo ⁵⁹	2007	Italy	Hospital	151	Suggested	Multiple	6	Literature	Healthcare staff
Wong <i>et al</i> ⁶⁰	2007	Singapore	Emergency	175	Suggested	Multiple	16	NR	Author(s)
Haw <i>et al</i> ⁶¹	2008	UK	Psychiatric	392	Implemented	Single	15	NR	Complaint staff
Friele <i>et al</i> ⁶²	2008	Netherlands	Hospital	279	Suggested	Multiple	5	Literature	Patients
Montini <i>et al</i> ⁶³	2008	USA	Hospital	1216	Implemented	Multiple	22	Developed	Author(s)
Giugliani <i>et al</i> ⁶⁴	2009	France	Hospital	164	NR	Single	6	NR	Healthcare staff
Parry and Hewage ⁶⁵	2009	Australia	Hospital	101	Suggested	Single	4	NR	Complaint staff
Jangland <i>et al</i> ¹³	2009	Sweden	Hospital	105	Implemented	Multiple	14	Literature	Author(s)
Levtzion-Korach <i>et al</i> ³	2010	USA	Hospital	4722	Suggested	Multiple	8	Literature	Author(s)

Continued

Table 1 Continued

Authors	Year	Country	Healthcare environment	No. of complaints reported	System-level intervention	Single or multiple coding	No. of codes used	Source of coding frame	Complaint coded by
Moghadam <i>et al</i> ⁶⁶	2010	Iran	Cardiac	1642	Implemented	Single	10	Developed	Complaint staff
Stimson <i>et al</i> ⁶⁷	2010	USA	Hospital	1516	Suggested	Single	5	Literature	Complaint staff
Hsieh ⁶⁸	2010	Taiwan	Hospital	59	Suggested	Multiple	8	Literature	Social worker
McGregor <i>et al</i> ⁶⁹ §	2011	Canada	Nursing home	629	NR	Single	28	NR	Complaint staff
Gogos <i>et al</i> ⁷⁰ §	2011	Australia	Multiple	481	NR	Multiple	5	Literature	Healthcare staff
Hsieh ⁸	2012	Taiwan	Hospital	665	Suggested	Single	38	NR	Social worker
Källberg <i>et al</i> ⁷¹	2012	Sweden	Emergency	1778	Suggested	Single	10	Developed	Author(s)
Sachdeo <i>et al</i> ⁷²	2012	USA	Dental clinic	214	Suggested	Single	5	NR	Author(s)
Schnitzer <i>et al</i> ⁷³ †	2012	Germany	Multiple	13 505	NR	Single	4	NR	Author(s)
Mann <i>et al</i> ⁷⁴	2012	UK	Surgery	113	Suggested	Multiple	15	Literature	Healthcare staff
van Mook <i>et al</i> ⁷⁵	2012	Netherlands	Multiple	137	Suggested	Multiple	29	Literature	Author(s)
Bismark <i>et al</i> ⁷⁶	2013	Australia	Multiple	18 907	Suggested	Multiple	20	Literature	Author(s)

*NR, not retrievable.

†Discrepancy between the total number of complaints reported and the tally of the individual complaints we managed to extract.

‡Imperfect data extraction due to the study reporting rounded percentages.

§Study analyses a subset of 'substantiated' complaints.

A&E, Accident and Emergency.

these supplemented with verbal data) and 12% were questionnaire-based. In all, 49% of articles coded each complaint as pertaining to a single issue, while 51% coded a complaint as raising multiple issues. Of those with extractable data, there were 1.49 issues per complaint (SD 0.544, range 1.05–3.19, median 1.56).

Thirteen articles (24%) applied a theoretical framework from the literature on complaints, while seven (12%) developed their own framework. For example, a framework developed by Lloyd-Bostock and Mulcahy¹⁰ viewed complaints as social episodes, and focused on detailed 'nonclinical' and 'clinical' issues. In some cases,^{53 62 77} complaint coding was influenced by the consumer complaint literature.⁷⁸ Montini *et al*⁶³ developed arguably the most rigorous coding frame through an analysis of 1216 complaints using seven complaint codes identified in eight articles on malpractice and complaints. Some studies relied on pre-existing institutional frameworks to analyse complaints,⁷⁴ or developed their own frameworks based on initial coding and qualitative work.^{13 40 68 71} Overall, 38 articles (64%) did not provide a clear rationale for the codes used.

Finally, of the 55 articles reporting who did the coding of complaints, 33% were done by the authors, 27% were done by a complaints department, 16% were done by healthcare staff, and 10% were done by patients or their advocates. No study graded complaints by severity or reported inter-rater reliability in coding complaints.

Phase III: issues raised in patient complaints

Across the 59 papers, 729 issue codes were used to code the 88 069 complaints, and the number of issues totalled 113 551 (ranging from 29⁴² to 26 785⁴⁷). The number of issue codes used to analyse complaints

varied from 4⁶⁵ to 43,⁴⁷ with a mean of 12.2 (SD 10.3) codes. After collapsing issue codes on the basis of similarity (see figure 2), 205 unique issue codes remained. Of these, 103 involved the amalgamation of data from at least two studies. Overall, 84 issue codes were classified as miscellaneous (accounting for 2388 issues) as they referred to codes that were unclassifiable (eg, 'other').

The 205 issue codes were collapsed into 29 subcategories. Figure 3 reports on the issue codes (and their overarching subcategories), the number of times they were used, the number of issues explained by them and the proportion of complaint issues they explain in studies where they were reported. At the subcategory level, issues most frequently related to codes on 'treatment' (17 716) and 'communication' (15 621) and the fewest to 'staffing' (47). In terms of the number of 'codings' for each subcategory (ie, how many times a code was used across the literature), the most were for 'delays' (55) and 'environment' (40), and the least for 'staffing' (5). In terms of the proportion of patient complaint issues explained by subcategories of issue codes (in studies where codes were used), the most were for 'treatment' (22.1%) and 'communication' (16.8%) and the least for 'discrimination' (0.5%).

Phase IV: developing a complaint coding taxonomy

To integrate and structure the complaint issue codes and subcategories in figure 3, a final sorting exercise was performed. Subcategories were defined to reflect the issues within each and to be made distinct from one another (ie, to reduce overlap between constructs). They were then sorted into seven categories, and these were inductively sorted into three domains (figure 4).

Systematic review

Complaint issue sub-categories, and underlying issue codes	No. of codings / No. of issues / % total issues explained (where coded)	Prescribing	7	102	5.6%	Visiting times	1	1	0.5%
		Medication omission	1	1	0.7%				
		<i>Respect, dignity, and caring</i>	36	4378	13.9%	<i>Miscellaneous</i>	84	2388	6.3%
<i>Treatment</i>	34	Lack of concern	2	1621	9.5%	<i>Incorrect information</i>	18	1968	6.2%
Poor treatment	13	Rude behaviour	10	1095	18.8%	Inadequate information	7	1455	5.6%
Inadequate/inappropriate treat.	13	Respect and Caring	1	741	18.6%	Incomplete/inaccurate info	7	466	8.3%
Medical treatment	1	Humaneness	2	275	1.7%	Conflicting information	3	38	2.6%
Complication not explained	1	Uncaring	2	186	4.9%	Misinformation	1	9	3.4%
Incorrect treatment	1	Insensitive	7	188	6.1%				
Clinical treatment	1	Disrespect,	4	163	12.4%	<i>Discharge</i>	16	1421	2.9%
Non-performance of treatment	1	Insufficient empathy	1	30	12.6%	Patient discharge	12	1240	2.6%
Poor explanation of treatment	1	Insufficient acknowledgement	1	26	10.9%	Discharge timing	2	150	12.1%
Poor treatment plan	1	Lack of privacy	2	17	3.0%	Delay in discharge	1	24	6.7%
Unsuccessful treatment	1	Undignified service	2	17	0.5%	Discharge planning	1	7	25.0%
		Neglect	1	14	2.2%				
<i>Communication</i>	33	Insufficient emotional support	1	5	2.1%	<i>Safety incidents</i>	20	1052	6.1%
Poor communication	33					Medical error	4	425	4.7%
		<i>Staff attitudes</i>	20	3577	13.6%	Surgical/medical complication	4	203	12.6%
<i>Access</i>	38	Attitude of staff	12	3113	11.6%	Adverse event	4	169	5.8%
Access to services	13	Attitude/behaviour	7	445	16.6%	Organisational incidents	1	156	26.9%
Admission/appointment issues	2	Staff commitment	1	19	2.9%	Equipment failure	5	79	2.7%
Appointments	8					Safety problems	1	17	0.9%
Access/availability	4	<i>Skills and conduct</i>	35	3544	15%	Patient death	1	3	1.2%
Not admitted	3	Staff Behaviour	2	1529	19.6%				
No consultation	1	Clinical judgement	1	814	12.3%	<i>Abuse</i>	18	815	2.5%
Refusal to treat	1	Unprofessional conduct	9	304	5.0%	Sexual behaviour	3	651	2.7%
Busy	1	Medical staff conduct	1	288	49.7%	Patient aggression	1	35	8.9%
Registration	2	Incompetence/negligence	1	103	35.5%	Physical abuse	2	32	0.8%
Refused visit	1	Misapplication of clinical skills	1	98	45.6%	Staff to resident abuse	2	20	2.0%
Doctor availability	1	Technical skills	2	77	8.3%	Emotional/verbal abuse	1	15	2.4%
Admissions	1	Ignorance of care standards	1	68	4.1%	Physical/sexual abuse	1	15	5.2%
		Poor staff team working	4	64	5.0%	Excessive force	1	11	3.8%
<i>Bureaucracy</i>	23	Nursing conduct	1	61	9.8%	Overzealous evaluation	1	10	5.7%
Administration	11	Unsuitable/insufficient staff	1	43	6.8%	Intimidation	1	9	1.4%
Policies	3	Poor professional skills	2	37	1.0%	Financial abuse	1	5	0.8%
Organisation of care	3	Driving skills	1	14	4.9%	Provider assaulted patient	1	5	0.3%
Grievance handling	1	Inappropriate staff conduct	1	13	2.1%	Abuse	1	4	0.7%
Documentation issues	3	Unqualified staff	1	10	1.6%	Resident to resident abuse	1	2	0.3%
Political	1	Poor clinical leadership	1	7	1.1%	Alleged abuse	1	1	0.2%
Procedures	1	Abuse of position	1	5	2.1%				
		Irresponsible staff	1	4	1.1%	<i>Consent</i>	6	655	2.5%
<i>Finance and billing</i>	31	Inappropriate attendance	1	2	1.6%	Problems in consent	5	635	2.5%
Billing	16	Inexperienced staff	1	2	0.5%	Coercion	1	20	1.1%
Costs	3	Professional discipline	1	1	0.2%				
Financial	9					<i>Confidentiality</i>	9	499	1.6%
Parking fee	2	<i>Delays</i>	55	3152	8.7%	Patient confidentiality	9	499	1.6%
Business practice	1	Waiting Time	30	1640	6.2%				
		Clinical delay	2	414	11.5%	<i>Examinations</i>	18	333	6.8%
<i>Quality care</i>	41	Delay in treatment	6	308	10.5%	Patient examination	10	172	6.2%
Care/treatment	6	Timeliness	3	304	6.6%	Failure to investigate	3	120	5.0%
Care quality	9	Delay in diagnosis	4	217	11.5%	Poor investigation	2	22	4.4%
Rough treatment	3	Delay in admission	3	112	3.0%	Tests	1	15	2.1%
Nursing care	6	Failure/delay in visit	4	106	4.8%	Unnecessary examination	1	2	0.5%
Clinical Services	1	Delay of ED admission	1	43	4.3%	Not taking radiographs	1	2	0.8%
Medical care	5	Delays in A&E	1	5	2.7%				
Lack of care	4	Delays in outpatient dept	1	3	1.6%	<i>Communication breakdown</i>	10	284	5.5%
Pain management	2					Communication breakdowns	2	200	9.2%
Absence of due care	1	<i>Patient-staff dialogue</i>	20	2810	8.0%	Lack of communication	2	48	5.1%
Hospital acquired infection	2	Doctor-patient relationship	2	1310	9.6%	Poor conversation skills	1	12	5.0%
Health service care	1	Not listening	2	624	3.8%	Language problems	2	9	2.0%
Clinical complaints	1	Interpersonal communication	3	365	21.1%	Miscommunication	1	9	3.4%
		Blamed patient	1	302	1.9%	Inadequate communication	1	5	3.4%
<i>Error in diagnosis</i>	29	Explanations to patients	5	59	2.5%	Communication delay	1	1	0.7%
Diagnosis	8	Disagree care expectations	1	51	19.2%				
Misdiagnosis	11	Distrust	1	40	15.0%	<i>Patient Journey</i>	10	137	3.2%
Missed diagnosis	3	Unnecessary comment	1	18	4.9%	Lack of follow up	3	85	3.2%
Diagnostic procedures	1	Conflict management	1	15	3.8%	Patient flow issues	4	38	2.6%
Lack of or mis-diagnosis	1	Insufficient participation	1	13	5.5%	Poor future planning	3	14	0.9%
Triage	2	Decision sharing	2	13	1.5%				
Disputes over diagnosis	1					<i>Discrimination</i>	8	141	0.5%
Slow diagnosis	1	<i>Patient rights</i>	7	2242	6.6%	Discrimination against patient	6	136	0.5%
Contradictory diagnoses	1	Rights	4	2212	7.1%	Prejudice	2	5	1.1%
		Breach of rights	3	30	0.9%				
<i>Environment</i>	40	<i>Service issues</i>	35	2425	5.3%	<i>Referrals</i>	7	125	2.1%
Poor environment	21	Medical records	9	1429	4.7%	Delay in referral	2	53	3.5%
Accommodation	3	Services	2	335	4.2%	Referral	3	50	5.6%
Hygiene	4	No service	1	234	6.8%	Refusal to refer	2	22	0.6%
Food	6	Transport	6	145	7.7%				
Sanitation	1	Unreturned calls	1	69	3.8%	<i>Staffing</i>	5	47	2.4%
Amenities	2	Telephone Consultation	1	64	28.3%	Staffing	2	25	2.3%
Other patients	1	Wrong hospital	1	30	8.1%	Insufficient nursing	1	15	6.3%
Availability of linens/blankets	1	Reception	4	19	1.5%	Insufficient practical support	1	6	2.5%
Disability accommodation	1	System malfunctions	1	17	2.6%	Over licensed capacity	1	1	0.2%
		Cancellations	1	14	1.9%				
<i>Medication errors</i>	23	Patient education	2	7	0.5%	Total	729	113551	
Restriction of drugs	1	Parking	4	58	3.0%				
Medication	4	Ward allocation	1	3	0.4%				
Medication errors	10								

Figure 3 List of complaint issue codes and subcategories.

Figure 4 was developed in a bottom-up manner and develops a tri-level system of complaint coding. At the top-level, it distinguishes among the domains

of 'clinical', 'management' and 'relationship' for analysing patient complaints. The 'clinical' domain (33.7% of complaint issues) pertains to patient

Domains	Categories	Sub-categories	
Clinical	Quality	Examinations:	Inadequate patient examination by clinical staff
		Patient Journey:	Problems in the coordination of treatment in different services by clinical staff
		Quality of care:	Substandard clinical/nursing care
	Safety	Treatment:	Poor, or unsuccessful, clinical treatment
		Errors in diagnosis:	Erroneous, missed, or slow clinical diagnosis
		Medication errors:	Errors in prescribing or administering medications
Management	Institutional issues	Safety incidents:	Events or complications that threatened the safety of patients
		Skills and conduct:	Deficiencies in the technical and non-technical skills of staff that compromise safety
		Bureaucracy:	Problems with administrative policies and procedures
		Environment:	Poor accommodation, hygiene, or food
		Finance and billing:	Healthcare-associated costs, or the billing process
	Timing and access	Service issues:	Problems with hospital services for supporting patients
		Staffing and resources:	Inadequate hospital staffing and resource levels
		Access and admission:	Lack of access to services or staff
		Delays:	Delays in admissions or access to treatment
		Discharge:	Early, late, or unplanned discharge from the hospital
Relationships	Communication	Referrals:	Problems in being referred to a healthcare service
		Communication breakdown:	Inadequate, delayed, or absent communication with patients
		Incorrect Information:	Communication of wrong, inadequate, or conflicting information to patients
	Humaneness/caring	Patient-staff dialogue:	Not listening to patients, lack of shared decision-making, and conflict
		Respect, dignity, and caring:	Rude, disrespectful, or insensitive behaviours to patients
		Staff attitudes:	Poor attitudes towards patients or their families
	Patient rights	Abuse:	Physical, sexual, or emotional abuse of patients
Confidentiality:		Breaches of patient confidentiality	
Consent:		Coercing or failing to obtain patient consent	
Discrimination:		Discrimination against patients	

Figure 4 Patient complaint taxonomy.

reports on poor quality care (23 414 issues) and safety incidents (14 929 issues), and conceptually these categories relate to the human factors and safety literature.^{79 80} The ‘management’ domain (35.1%) pertains to problems in waiting times/access to care (16 043 issues) and institutional management (23 787 issues), and may be understood in terms of literatures on service and organisational management.^{81–83} Finally, the ‘relationship’ domain (29.1%) considers patient complaints on interactions and experiences of healthcare professionals. These refer to communicatory acts between patients and staff (20 683 issues), the humaneness and caring nature of staff (7955 issues), and failures to fulfil basic patient rights (4352 issues). These categories reflect psychology literatures on communication and dialogue,⁸⁴ compassion and emotional care,^{85 86} and workplace rule violations.^{87–89} It is notable that for the subcategories of ‘communication’ and ‘patient rights’ reported in figure 3, these were incorporated into the ‘category’ level as they did not provide insight at the subcategory level (ie, they were umbrella terms and highly general), and the subcategory of ‘miscellaneous’ was not included (meaning the taxonomy has 26 subcategories).

Finally, using the taxonomy to reflect on the patient complaint studies, it was found that there were different distributions of complaints between studies that coded complaints as having a single (29 studies) or multiple (30) issues. Single coded complaints reported more ‘institutional issues’ (35.6% vs 16.3%) and fewer problems in ‘communication’ (14.3% vs 19.4%) and ‘quality’ (12.5% vs 23.1%).

DISCUSSION

Investigations of patient complaints are increasing, both in total number and countries represented. Analyses of patient complaints serve two key functions

within healthcare organisations. First, they allow for the concerns of specific patients to be met, for redress to occur and for solutions to be designed for solving case-specific safety problems. Second, they can provide insight into system-wide problems in patient care and allow for comparisons between healthcare organisations. The latter requires aggregate analyses of patient complaints in order that patient complaint data can be used to identify safety and quality issues within healthcare systems or conditions (eg, management problems) that increase the likelihood of poor care. Of the 59 papers reviewed in this study, patients were found to complain almost equally on the domains of ‘clinical’, ‘management’ and ‘relationships’. Some institutional factors appear more specific to certain healthcare systems (eg, finance and billing in the USA), while others are more generic (eg, delays). Overall, 39% of complaint issues focus on two of the seven categories, ‘communication’ and ‘treatment’, and a further 13% of complaint issues relate to ‘safety’.

Methodological issues in coding patient complaints

The review highlights a lack of standardised codification or analytical techniques for analysing complaints. System-wide analyses of patient complaint data will remain difficult unless the following inconsistencies are addressed.

First, there is little standardisation of the procedures for analysing complaints (eg, training) or the purpose of data collection (ie, for redressing individual complaints or system-wide issues). In addition, the process of who handles and codes complaints differs considerably between studies, with little data on coding reliability. Second, the process of complaint coding varies widely, with different codes and frameworks (or none at all) being used. Research studies code and mix data at both the category and subcategory level, and often

do not apply a theoretical framework. Third, the codes used sometimes pertain to the stage of healthcare (ie, referral, examination, treatment) and sometimes to problems at a more general level (ie, safety incident, delays, staff attitudes). Fourth, in some cases, patient complaints are treated as representing one issue, and in others multiple issues (51% of studies). Multiple coding is more rigorous, and reveals patient complaints to focus on several interconnected aspects of healthcare. Fifth, where multiple issues are coded, complaint studies do not link issues within complaints together (eg, staff attitudes as precursors to adverse events), meaning complaints about one issue (eg, communication) cannot be linked to another (eg, clinical harm). Sixth, complaint studies do not typically collect data on the reliability of complaint analyses or on the severity of patient complaint (standard within adverse event studies).⁹⁰ Seventh, because patient complaint letters are usually focused on the initial communicate to healthcare providers, additional information found through follow-up studies (eg, interviews) are rarely incorporated into analyses. Finally, safety issues were only coded in 60% of the studies, yet where coded they often accounted for a considerable proportion of complaints, indicating the potential utility of analysing patient complaints to identify safety-specific data.

Patient complaint coding taxonomy

To overcome some of the issues highlighted above, we have developed a three-level complaint coding taxonomy (figure 4). It is designed to provide a standardised and comprehensive system for aiding researchers and practitioners to identify, code and interpret the issues raised within a letter of complaint. Trends on broader constructs can be then developed (eg, problems in bureaucracy and safety incidents), and detailed at a more specific level (ie, subcategory). Furthermore, patient complaint data can be interpreted and analysed through concepts and literatures that appear associated with the category and domain levels. For example, theory on communication and dialogue,⁸⁴ compassion and caring,^{85 86} and rule violations^{87–89} may facilitate analysis of ‘relationship’ problems. Alternatively, human factors theory appears essential for understanding issues relating to safety problems.^{79 80} It is notable that the separation of the relational and clinical/management issues corresponds to the sociological literature which describes healthcare in terms of a clash between ‘system’ (clinical and management) factors and ‘lifeworld’ (relationship) concerns.^{90 91} Examining the tensions between ‘relationships’ and ‘system’ issues within healthcare organisations may be useful for understanding and learning from patient complaints (eg, on how ‘systems’ shape patient perspectives of care).^{91 92}

The taxonomy draws on previous research, for example that which attempted to develop

parsimonious codes for analysing patient complaints,⁶³ and the conceptual distinctions made between the types of issues raised within a patient complaint.^{10 78} It combines these different approaches, and uses the coded content of 88 069 complaints (and the 113 551 issues within them) to ensure comprehensiveness. Inconsistencies found across the set of studies, for example, the coding of communication at category and subcategory levels and the use of ‘umbrella’ concepts, are reduced.

The taxonomy may be beneficial for developing international standards to analyse patient complaints, and would emulate work conducted on adverse event analysis standardisation.^{93–95} For example, systematic frameworks have been developed to standardise the identification and analysis of contributory factors leading to adverse events.⁹⁶ Contributory factors underlying adverse events show them having a high commonality internationally,⁹⁷ and developing a similarly universal taxonomy and procedure for analysing patient complaints would allow for international learning and benchmarking (eg, at present consensus is often lacking between studies on the concepts used to analyse complaints). As indicated by the patient safety literature,³ this is likely to focus on different issues than those captured by adverse event analysis taxonomies; for example, subjective concepts such as compassion and sensitivity, which patients view as important, but cannot be easily managed by the organisation⁹⁸ and are not typically investigated through adverse event taxonomies.⁹⁹

Future investigations of patient complaints

In developing and implementing the coding taxonomy described in figure 4, three stages may be undertaken.

First, the reliability and usability of the complaint coding taxonomy should be assessed; for example, through having different raters use the taxonomy to code a sample of patient complaints. This would allow an assessment of the extent to which information on each domain, category and subcategory can be reliably coded with a letter of complaint.

Second, the taxonomy should be used to structure the analysis and interpretation of patient complaint data. For example, in understanding where within the care process problems occurred (ie, identified by the use of the taxonomy to analyse patient complaints), their severity (eg, threat to patient safety) and their impact upon patient outcomes (eg, harm). An underlying flaw in patient complaint research is the mixing of data on stages of care (eg, examinations, treatment) and more generic problems (eg, communication, staff skills), and further conceptual development is required to better understand how these interact within the taxonomy.

Third, using the taxonomy, patient complaint data might be subject to more sophisticated analyses at the aggregate level; for example, analysing a national

sample of complaints (to collect norm data, make associations between complaints and care quality at healthcare institutions, compare against existing frameworks). This would allow for healthcare organisations to be compared and for deviations (in comparison with the norm) in particular types of complaint to be identified. The build-up of lower level complaint issues (eg, staff attitudes) within a unit or hospital might be better captured, and used as a potential (or 'early-warning') indicator of poor quality care, as shown with near miss data in the medical error literature.¹⁰⁰

Study limitations

The review has a number of limitations. Primarily, our analysis of the issues underlying complaints involved secondary interpretation of the data reviewed in this paper. This was necessary for performing an analysis of trends within the literature, yet involved recoding concepts that in some cases had minimal qualification or definition.

Our analysis of the issues underlying patient complaints is also skewed towards larger studies, and those with multiple patient complaint issue codes are more fully represented. This reflects the differences in size of studies and the depth of their analyses. The complaint coding taxonomy only represents the domains and categories of complaints coded within the literature, and there may be unidentified ones. Additionally, as described above, some categories and subcategories overlap (eg, poor attitudes may be linked to poor communication), and subcategories cannot be completely exclusive.

The literature review largely focuses on studies which presented quantitative data, and future work may wish to incorporate the qualitative studies.^{19 20} In particular, development of the concepts underlying the relationships categories is required, and the use of the safety and quality literature to expand the 'clinical' domain may be beneficial. Furthermore, in some cases, data in patient complaint studies were not fully reported or described clearly, leading to data being not retrievable (table 1). Finally, for the study selection, only the later stages (3 and 4) were performed by two raters, with the potential for error or bias being heightened in stages 1 and 2.

Conclusions

A range of clinical, management and relationship issues underlie patient complaints. The systematic collation of data on patient complaints potentially provides a mechanism through which the standard of healthcare can be monitored and system-level interventions developed. Although patient complaints provide a unique and unvarnished insight into the problems that occur during healthcare episodes, challenges remain in using the data held within them. In comparison with other forms of quality and safety data (eg, accident and

incident data), the methodologies used to analyse patient complaints are inconsistent or do not provide an optimal level of depth into complaints. Furthermore, there is considerable variation in the frameworks used to guide the coding of issues underlying patient complaints. This means that data are unstandardised, difficult to make comparisons of and problematic to demonstrate relationships with. Improvements in the methodology used to codify complaints will help to overcome these issues.

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