ORIGINAL PAPER

Firm handling; the information exchange interaction by parents in paediatric care – An observational study

2011

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Abstract

Background. Information exchange is fundamental in the paediatric care encounter. Health care professionals need further background knowledge to encounter the parents/guardians from their perspective in their minors' paediatric care. The parents'/guardians' ability to manage the situation is dependent on their receiving optimal information, which is why it is important to study how information is exchanged.

Aim. The aim of this study was to identify, describe and conceptualize how parents/guardians resolved their main concern in information exchange with health care professionals in paediatric care situations involving their minors.

Methodology. Glaser's grounded theory method was used and all data were analysed using constant comparative analysis. The observational study took place at three paediatric outpatient units at a university hospital and 24 parents/guardians participated. Data sources were field notes from 37 observations of paediatric care situations and five adherent excerpts from the minors' medical records. Grounded theory is a method of conceptualising behaviour, which is why an observational study of parents'/guardians' information exchange and social interaction in the context of nursing care is relevant as research design.

Results. Firm handling was revealed as the way the parents/guardians resolved their main concerns when they were exchanging information about their minors' paediatric care. Firm handling is built on five inter-related categories: representative advocating, collaborating, aim sharing, supportive resourcing and minor bypassing.

Conclusions. This knowledge suggests possible ways for health care professionals to design paediatric care that supports, facilitates, strengthens and improves the parents'/guardians' firm handling. The key issue is to find ways to support parents/guardians and minors so they can participate in health care encounters according to their preferences. Firm handling gives an opportunity to both reinforce parenthood in paediatric care and invite minors to participate.

Keywords: grounded theory, health care professional, information exchange, interaction, minor, observation, paediatric care, parent/guardian

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Issue 1

Introduction

interests, as stated in article 3 in the Convention Turner 1998). on the Rights of the Child (UNCRC) (United There is a common Nations 1989). Basically, it is essential to find out information exchange is the central point of a how parents handle the information exchange medical encounter (Cegala, Coleman & Turner interaction when they visit a paediatric outpatient 1998). Information exchange is about seeking, unit with their child.

Information exchange in paediatric care

care for both children and their parents in recent turn, the interaction between the parties (Tates et decades. In the early days, the parents were al. 2002). It seems reasonable to consider the separated from their child, while nowadays the health care professionals' skill in communication parents participate and sometimes even feel totally as being as important as other clinical skills in responsible for the care of their child (Coyne & caring (Alexander 2001). In a study of parents and Cowley 2007). Simultaneously, the development their children, (aged 9-21) perspectives on of the right of the child to participate in decision- physician communication in paediatric palliative making about their own care may imply that the care and information exchange were some of the grown-up might have less power than previously most important findings (Hsiao, Evan & Zeltzer (Alderson & Montgomery 2001). At the same 2007). Parents find information exchange, time, the child's existential need of being close to involving mutual his/her parents is shown as loyalty towards the professionals to be essential when their child (1.4– parents, and the child thereby adapts the dialogue 9 years) needs care (Nuutila & Salanterä 2006). to what is accepted by the parents (Hindberg Brykcyńska (1987) discusses information in the 2003). Paediatric care should integrate the child's ethical practice of nursing, and stresses the particular needs and the needs of the child's importance of giving and receiving information in family. Children and their families should be order to make facts available. treated with respect and should be informed, so that they are able to understand and cope with the Aim illness and its related treatment (Department of Health 2003).

development, and development as parent is their main concern in information exchange with contemporaneous to the development of children health care professionals in paediatric care (Westman 1999). Parents may uphold any rights situations involving their minors. because of the value of family integrity within The parent/guardian is responsible for bringing up society (Paul 2007). The UNCRC supports the the minor, whether they are the biological parent parents in their parenting role in articles 5 and 18 or not. Paediatric nurses, enrolled nurses and (United Nations 1989).

The influence of a child's illness on the family Information exchange in paediatric care involves can be seen both on the family as a unit and in providing understandable information to child and individual family members (Hopia, Paavilainen & parent, asking them for information, and advising Åstedt-Kurki 2005, Hopia et al. 2005, Sarajärvi, them how and where to obtain information. This Haapamäki & Paavilanen 2006). However, process is assessed as being important and related partnership in paediatric care involves creating a to child and parental satisfaction with their care relationship that is concerned with both the family (King, King & Rosenbaum 1996). Sometimes and the health care professionals (Coyne & parents feel defenceless in a hospital environment, Cowley 2007). Both children and their families and their ability to manage the situation is have a need for care, and that makes it dependent on receiving optimal information fundamental for the family to become involved (Hallström, Runeson & Elander 2002). Parents are and to participate in a child's care (Silveira & vulnerable, as they have the responsibility to Angelo 2006). When the child receives paediatric support and care for their child as well, as the care, it is necessary for the parents to be informed right to be informed and decide in the child's best to manage their situation (Cegala, Coleman &

understanding giving and verifying information, which means to ask questions, to answer questions and to confirm that what is said is understood by all concerned. There have been changes in paediatric hospital The discourse is what is said, how it is said, and in trust, with health

The aim of this study was to identify, describe and Becoming a parent is an important adult conceptualize how parents/guardians resolved

paediatricians are called 'health care 2011

instead of child, because a minor is a person who has not reached the age at which full constitutional rights are accorded (Rynning 1994).

Methodology

This study used the grounded theory method according to Glaser, where the theory emerges from the empirical data (Glaser 1978, Glaser & Strauss 1967). While grounded theory can be used a systematic method to conceptualize behaviour, observational studies of information exchange in the context of paediatric care are relevant to the method. The goal of grounded theory is to achieve at least the third level of concept: firstly, collecting the empirical data, secondly, generating categories, and thirdly discovering the core category. The latter organises the categories that revolve around the participants' main concern (Glaser 2002). The minors' medical records were studied after the observations were completed and the text related to the observation was selected for reading. With grounded theory, any type of data or combination of data can be used (Glaser 1998). The constant comparative analysis method verifies the participants' main concern and is where categories and theory are generated (Glaser 1978, Glaser & Strauss 1967).

Settings

The observations were performed at three outpatient units at a university hospital; the paediatric day care unit, the paediatric neuro urology and bowel disorders unit (PNUT), and the paediatric diabetic clinic. The observations were performed in surgeries, treatment rooms, wards, consulting rooms, corridors and waiting rooms.

Sample

Inclusion criteria were to be a parent/guardian of a minor, ten to 17 years old, and to give informed consent to participate (Swedish Codes of Statutes 2003). Ethical approval was received from the

professionals' (HCP). 'Care situations' are all Regional Ethical Review Board. When using the situations that occur in an outpatient paediatric grounded theory method, it is not possible to say unit, such as examinations or taking blood in advance how many participants are needed to samples. A 'child' is any person up to 18 years achieve saturation in the categories (Glaser & old (United Nations 1989). 'Minor' is used here Strauss 1967). Saturation was achieved at observation 32. The selected participants were 20 female and four male parents/guardians of 20 minors. The minors were aged between 10-16years and had various diseases and/or were undergoing different examinations (Table 1). No parents/guardians of minors aged 17 were included in the study since these minors visited the unit by themselves. Sixteen HCPs took part in the observations.

> In order to guarantee trustworthiness in grounded theory, the categories have to fit, work, have relevance, and be modifiable (Glaser 1978, Glaser & Strauss 1967). Fit is when the result is grounded in data and the categories express what is happening in the empirical situation. Work is when the categories predict what is going to happen and how these participants are going to act. Having relevance is when the result can be used in practise in care situations.

> Modifiability is when the results can be used in future research and can be modified by new results. Trustworthiness is guaranteed as the data is systematically collected (Glaser 1978). In order to convey credibility, the researcher can quote directly from conversations (Glaser & Strauss 1967).

Data collection and data analysis

Thirty seven observations were conducted. Each observation started as soon as the HCP was physically with the minor and/or parent/guardian, and ended when they separated from each other. During the observation, the observer was placed in the periphery of the paediatric care situation, writing observational field notes. Immediately after the observation, the observer recorded a description of the observation using a tape recorder. Field notes bring observation and analysis together and are the most usual way of making observations (Spradley 1980).

Issue 1

Table 1 Characteristics of 20 minors to 24 parents/guardians in 37 observations

Gender ^a	Visit ^b	Minor's diagnosis or examinations	Time ^c	Number
Female	10	Type 1 diabetes	63	2
Female	19	Type 1 diabetes	45	1
Female/Male	14	Type 1 diabetes	38	1
Male	55	Relapsed acute lymphoblastic leukaemia	38	1
/Iale	1	Pubertas tarda	20	2
Female/Male	28	Type 1 diabetes	31	2
Female	-	24-hour ph monitoring	15	2
Female	7	Cystometry	114	4
emale	9	Renography	25	1
emale	-	Mb Hodgkin's	34	5
emale	5	Myelomeningocele	30	1
emale	7	Enuresis	13	2
emale/Male	-	Magnetic Resonance Imaging	16	1
emale	-	Leukocyte scintigram	6	1
emale	5	Pyelonephritis	15	1
emale	21	Type 1 diabetes	28	3
emale/Male	1	Benign teratoma	5	1
emale	2	Type 1 diabetes	52	3
emale	-	Magnetic Resonance Imaging	17	2
Female	11	Computerized Tomography Brain	12	1

^a The gender of observed parent/guardian.

^b The number of previous visits by the minor to the unit before observation.

^c The total time of observation of the parent/guardian in minutes.

^d The total number of observations of the parent/guardian during the visit

Data analysis and data collection took place simultaneously due to the constant comparative analysis method (Glaser 1978). At first, open coding was carried out, and data were read and analysed lineby-line. Open coding is used to compare incident to incident, to compare concept to incident, and to compare concept to concept (Glaser 1978). The codes were sorted into groups of codes with similar substance and substantive codes. In order to generate categories, the substantive codes were compared to one another. A category is substantive codes with the same meaning and content. The core category, which is to be seen Representative advocating methodologically as the resolving process, was identified as firm handling.

Results

Firm handling is the core category and is seen in and includes every category. The five categories are; representative advocating, collaborating, aim sharing, supportive resourcing and minor bypassing.

Firm handling

The parents/guardians firmly handle the information exchange with the HCP because they are dedicated to their minor. While they exchange information, they are representatively advocating in their minor's best interests. The parents/guardians, minors and HCP are collaborating together within the situation and in a responsive approach when aim sharing. When the parents/guardians are supportively resourcing, they are helping the minor to the greatest possible extent. Representative advocating and supportive resourcing differ in that supportive resourcing is something that is required by the minor, as opposed to representative advocating where the parents/guardians take the place of the minor without asking for permission. Minor bypassing is where the communication is only between adults. and the relation is parents/guardians and the HCP, which is an interaction Collaborating is where parents/guardians and the minor handling in the information exchange:

Mother - The test results, when do we get the results?

HCP - We do not give the results, it is the treating endocrinologist who does

that. You will meet him and the oncology radiologist next week. (The HCP then

> explains how the teams are organised between the oncology radiologist, the endocrinologist and the day care unit.)

Mother – He needs some more medication.

HCP - You have an appointment with ... you can discuss it then.

Mother – I must also talk to the doctors then.

HCP - The parents or guardians of all children undergoing radiation treatment may talk to the oncology radiologist at the meeting next week.

Mother – It is most important for me to talk to the doctors.

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Representative advocating is where parents/guardians take over the conversation and usurp the minors' possibility to explain their own situation to the HCP, which they might be capable of doing. Representative advocating is when parents/guardians replace the minor in discussion when discussing diseases and medication with the HCP. In general, representative advocating described as the be situation parents/guardians talk over the heads of the minors without involving them. There follows a discussion about high levels of blood-glucose and eating sweets between a HCP and a mother of a minor who has been diagnosed with type 1 diabetes:

> HCP to the minor – There are different kinds of people, some people are 'sweet people'. I think you have to make up your mind.

> Mother - It is not true that we eat sweets all the time at home. The children eat sweets but also other foods. We have different strategies concerning food, different alternatives without sugar, but it does not always work.

between Collaborating

aside from the minor. When parents/guardians are communicate together and cooperate during the visit, mainly engaged in representative advocation for their as when the HCP asks questions and they are answered minor, then the parents'/guardians' natural reaction of in union by the parents/guardians and the minor. It is supportive resourcing must be demanded by the HCP. also when the parties cooperate in a common dialogue The HCP might encourage the minors to participate by concerning the symptoms of the minor's disease. Such asking for their opinion and inviting them into the a collaborative conversation is held in a situation of conversation to start the collaboration between all the mutual respect in which the participants give and take. parties. This mother of a minor, who is prepared to Here, a father of a minor diagnosed with Relapsed undergo computed brain tomography, is using firm Acute Lymphoblastic Leukaemia is collaborating. The minor suffers from occasional palpitations and is trying to explain how this affects him:

> HCP - What do you feel when you have palpitations?

> > Minor - If I have palpitations when I am watching the TV, everything moves at double speed for me, compared to

Father – Ah, you mean that everything rushes?

HCP – I am not quite sure it is the heart.

Father – Is it the brain?

Minor – No, sometimes it is the heart.

Aim sharing

Aim sharing is where parents/guardians and minors agree on common objectives on the minor's behalf. It is when parents/guardians are being confirmative and supportive to the minor while at the same time receiving support themselves. During an examination, advice might be given to the minor by the parents/guardians in order to make the minor's situation manageable in spite of inconvenience. Parents/guardians respond to the minors when being given the objectives and details of the treatment the minor may undergo. What is required is a feeling of concern and perhaps curiosity in order to find the best way of dealing with the feelings and possible fears of the minor who is about to undergo a procedure. Aim sharing is illustrated below in an example taken from a Discussion It concerns the handling of the minor's low bloodhypoglycaemia during the night:

> It emerged that the parent often serves extra food in the evening if the minor's blood-glucose level is below 6 - 7 mmol/l.

Supportive resourcing

Supportive resourcing is where parents/guardians support the minors during paediatric care situations. It is when parents/guardians encourage their minor and commend through stressing what the minor is proficient in. It also includes reading through the information presented by the HCP and explaining it to the minor. While discussing the disease with the HCP, parents/guardians create a sense of delimitation mutual feelings of affinity and tenderness within the concerning their minors, just in order to establish the families become apparent. The parents/guardians may most protective and best atmosphere for the paediatric sometimes feel irritated when their minor does not care. Companionship in care implies equality among comply with the directions given them, but as a family partners, information sharing, negotiation of care and member they also understand the frustration and shared responsibility as in aim sharing (Coyne & behaviour of the minor. Being supportive resourcing Cowley 2007). This might be one of the causes of also means praising the minor for good behaviour, representative advocating, in which parents/guardians cooperation, and willingness. In the following, the speak on behalf of their minor, Parents/guardians have minor, who was being prepared for magnetic resonance a need to be supported and facilitated by HCPs when imaging, is being supportively resourced by the firm handling their minors in paediatric care situations, mother:

> Magnetic Resonance Imaging, while the form.

Minor bypassing

Minor bypassing is the situation where the minor is It might be assessed as challenging by an HCP to overlooked. It is a communication between encounter the family as both a unit and as consisting of parents/guardians and HCP and without the minor's individuals. This is where minor bypassing occurs; a

participation. Mostly, this situation arises when the HCPs verbally encourage the parents/guardians to participate in the ongoing activities. The HCP communicate the minors' status directly to the parents/guardians, without the minors' involvement. The following shows minor bypassing between an HCP and the mother of a minor diagnosed with Mb Hodgkin's. The minor is receiving his chemotherapy at the paediatric day care unit for the first time:

HCP – How brave you are. Most parents just sit

Mother, smiling – I am a little bit curious, you know.

HCP - You are a brave mother.

Mother - Well, this is not funny but ... it is interesting.

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medical record involving a minor with type 1 diabetes. Parents/guardians can find themselves in an exposed situation when their minors are undergoing medical glucose level in the evening in order to avoid treatment and they are in need of understandable information and have the possibility of a continuous informative dialogue with the HCP. An issue is if parents/guardians are required to make a great effort to obtain information and thereby have to stay close to the minors. Maybe HCPs should be more informative generally and more attentive specifically to the individual family member as well as the whole family and their special needs. This need to exchange information is made concrete in firm handling, where the parents/guardians respond to the expectations as loving caregivers.

Parents/guardians act in their minors' best interests, and thus they engage in aim sharing with their minor and representatively advocate for them. Perhaps which Silveira and Angelo (2006) presented as interaction in a previous study. Parents/guardians have The mother fills in the form about the a need to inform, to be informed and they also want to talk and agree with their minor in order to be the minor is watching and also reading collaborating. To be collaborating is most important to the minor as a developing person; to become a responsible grown-up the minor needs firm handling by adults.

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By bypassing minor parents/guardians create a state of authorization within There is a need to continue research in this specific the situation and thereby express their need of area. What is needed is further knowledge about how

Representative advocating is wav a parents/guardians to engage in collaborating, when communicating in proxy, and an expression of supportive resourcing when sponsoring the minor in aim sharing. Representative advocating fitted the Conclusion category of family influence in an observational study of minors' information exchange in paediatric care, and the impact of family appears to be universal (Mårtenson, Fägerskiöld & Berterö 2007).

Parents/guardians respect their minor's integrity when supportive resourcing in firm handling in different paediatric care situations. There is a strong commitment to include family, and thus to be collaborating, in all aspects of health care that impact children and their families (Landis 2007). To be supportively resourcing, parents/guardians have to get knowledge, and that is why it is essential to explore the information exchange by parents/guardians (Tates et al. 2002).

This study has limitations, as there are no follow-up. This work was supported by the Medical Research appointment or they had limited time. The results are analysed by the observer and the co-authors and there is no confirmation of the participants' views. There were no minors aged 17 with accompanying parents/guardians and, perhaps the results would have differed if there had been.

The results create possibilities for reinforcing parenthood by supporting parents/guardians and minors so they can participate in health care encounters according to their preferences. The results may provide some guiding principles for HCPs regarding awareness Brykcyńska G. (1987) Ethical issues in paediatric of the vulnerability of parents/guardians. It is of great importance to be aware of the weakness and the need of support of the parents/guardians and encourage them Cegala D., Coleman M. & Turner J. (1998) The to engage in firm handling their minor. If it is obvious that the parents/guardians and minors do not cooperate with one another, it might be possible for the HCP to focus on aim sharing to create an opportunity for the Coyne I. & Cowley S. (2007) Challenging the collaborating. individuals to start If parents/guardians mainly representatively are advocating, the HCP might encourage the minors to participate by asking for their opinion and inviting Department of Health (2003) Getting the right start: them into the conversation. This may to start the and encourage collaboration thereby parents'/guardians' natural feeling of responsibility to be supportively resourcing. In order to support the parents/guardians and their minor, written and computer based information ought to be easy to access when visiting a paediatric care unit. This is also valuable to the HCPs, since it facilitates and emphasizes their information exchange. The

way for the adults to communicate in order to have a information must be suitable and understandable to nice, pleasant conversation to create a warm and tender both the parent/guardian and the minor, and should be the provided in their first language.

> minors and parents/guardians interact when they are in for paediatric care. Furthermore, it would also be of interest to find out how health care professionals interact among themselves.

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Reconstituting firm handling explains information exchange when parents/guardians are with their minor in paediatric care. The results indicate a pattern of how parents/guardians come closer to the minor in diverse ways. This knowledge makes it necessary and possible to design paediatric care situations in such a way as to support, facilitate, strengthen and improve the firm parents'/guardian's handling. Information exchange is a subject to parents/guardians to be practised by firm handling and this ought to be identifiable, well-known and manageable by health care professionals.

Acknowledgements

interviews because the parents/guardians and their Council of Southeast Sweden [FORSS-9001] and by minors were often in a hurry to attend another Futurum - the Academy for Healthcare, County Council, Jönköping, Sweden, [FUTURUM-12116].

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