ORIGINAL PAPER

New mothers' perceptions regarding maternity care services provided in a prefecture of Northern Greece

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Abstract

Background: The use of health care services during pregnancy assists in decreasing neonatal deaths and improves the quality of life of pregnant women and their newborn children.

Aim: To investigate the perceptions of new mothers in a prefecture of Northern Greece regarding the maternity services provided during pregnancy and childbirth.

Methodology: The sample consists of 133 mothers of newborn babies who were hospitalised, after in-hospital delivery, between April and June 2008 in a prefecture of Northern Greece. The instrument used for the data collection was the Kuopio Instrument for Mothers (KIM).

Results: 97% of participants were married, 42.2% had higher education and 23.3% were full-time employees. 42.9% of the mothers were primiparous and 57.1% were multiparous. 56.8% had vaginal delivery, while 42.9% had caesarean section. 84.2% of the participants stated that they would prefer to have their next delivery in a private maternity clinic, and 3% stated that they would prefer to give birth at home. 15.3% had participated in childbirth preparatory courses. Finally, the participants considered that maternity services, such as pregnancy monitoring, preventative examinations for foetal abnormalities, PAP-test and preventative examinations for breast cancer, should be provided by the state free of charge.

Conclusions: It is necessary to further develop and modernize maternity services in such a way that they will correspond to pregnant women's needs.

Key words: Maternity, pregnancy, labour, delivery, mothers' experiences, Greece.

Introduction

as an important landmark in a woman's life questionnaires is probably an obstacle in most (Andrews 2004), as an event of vital importance non-English speaking countries. Another obstacle (Matthews & Callister 2004) and as an important is the fact that nurses and midwifes were not life experience (Lundgren 2005). The quality of writing articles until the late '80s (Sapountzi & this experience influences the relationship Vehviläinen-Julkunen 2006; Sapountzi-Krepia et between the mother and her child, as well as the al. 2009). relationship between the mother and her partner The only nursing/midwifery studies published in (Lundgren 2004).

motherhood depend on age, personal beliefs, Likeridou et al. (2001) which investigates the socioeconomic status and educational level family dynamics of Greek families during (Bondas 2002). Nowadays, pregnancy is usually pregnancy, and Sapountzi-Krepia et al. (2008) planned and, for a large group of mothers, regarding the Greek mothers' perceptions of their childbirth constitutes a conscious desire (Nolan cooperation with the obstetrician and the midwife 1997). However, women face a variety of health in the delivery room, as well as the translation and problems during their pregnancies; differentiates their health care needs from their 2009a) and K.I.F. questionnaires (Sapountzidesires (Bondas 2002; Deave, Johnson & Ingram Krepia et al. 2009b). 2008; Malin & Hemminki 1992; Nolan 1997).

Background

The use of health care services during pregnancy perceptions of new mothers, living in a prefecture reduces neonatal deaths and improves the quality of Northern Greece, regarding the sufficiency of of life of pregnant women and of their newborn health care services that were offered to them babies (Lundgren 2004). This is why well- during pregnancy and labour. organized prenatal care and support during pregnancy and labour are necessary (Omar & Methodology Schiffman 1996; Lundgren 2004).

The natural process of pregnancy, labour and the Sample and setting post partum period has become part of organized The study was non-experimental and descriptive care. Mothers' perceptions on health care services in design. The study sample was a convenience are of extreme importance (Galanakis, Dragona & sample of 133 new mothers who gave birth in a Lapatsanis 1994).

period women use mostly modern medical health maternity clinics in this specific prefecture. The services (Liamputtong 2004; Craven 2005; questionnaire was distributed to the mothers Nusbaum 2006; Sapountzi-Krepia & Vehviläinen- before they were discharged from the maternity Julkunen 2006, Sapountzi-Krepia et al 2010). hospital. The inclusion criterion was good Many studies are about women's trust towards knowledge of Greek language. health care professionals. In Scandinavian countries, the women's relation with the health Data collection care professionals is very important (Bondas The researcher contacted the maternity clinics of 2002; Luyben & Fleming 2004), and the the prefecture and obtained their permission to communication between them is of great conduct the study. The researcher approached importance. Omar & Schiffman (1996) state that mothers in the maternity hospitals, explained the most women consider particularly important the purpose of the study, the content of the way the health care professional treats them.

to deliver in a private maternity hospital participate in the study provided their informed (Galanakis, Dragona & Lapatsanis Kathimerini 2004; Sapountzi et al. 2008). In

Greece, there is a lack of studies on nursing and midwifery care offered to women during The experience of childbirth has been described pregnancy and labour. The lack of standardised

Greece that we are aware of are Dragona (1992). Pregnant women's expectations for safe which studies the fathers' reactions during labour, this validation of the K.I.M. (Sapountzi-Krepia et al.

Aim

The aim of this study is to investigate the

prefecture of Northern Greece. The data was Several studies show that during the prenatal collected during April-July 2008 from three

questionnaire, and informed that all participants In Greece, the vast majority of the women prefer would remain anonymous. Mothers who agreed to 1994; consent, and were given questionnaires.

Eight of the mothers who were approached by the **Results** researcher chose not to participate in the study.

Overall, 182 questionnaires were distributed; ten Table 1 presents the participants' demographic questionnaires were not returned, seventeen were characteristics. 30.8 % (n=41) of the mothers partially completed and therefore they were were 28-30 years old, while the sample's age excluded from the study, and twenty two ranged from 17-42 years. 97% were married and questionnaires were not completed. Therefore the 42.2% were tertiary education graduates. response rate was 73%.

In order to ensure the participants' anonymity, the researcher left at each maternity hospital, in a designated place, a sealed box in which the completed questionnaires were returned.

Instrument

The questionnaire used for the data collection was the Kuopio Instrument for Mothers (K.I.M.). The instrument was first used in Finland. In 2008, it was translated in Greek, standardised and found to be suitable for Greek mothers (Sapountzi et al., 2009). KIM is a self-reported instrument containing 27 questions for eliciting information about the subjects' demographic, educational and employment characteristics, as well as questions geared to yielding information related to maternity care and giving birth.

The second part of the questionnaire includes two scales measuring the mother's cooperation with the obstetrician and the midwife in the delivery room. This study only evaluates data from the first 27 questions.

The internal consistency of the scale from which the results presented in this paper have derived was checked using Cronbach's alpha and proved to be good (Cronbach's alpha=0.77).

Ethical Approval

Ethical approval for the study was received from the Primary Health Care MSc Department of the Medical School of the University of Thessaly. Permission to access the hospitals was given by their authorities. All potential participants were approached by the researcher and were given a brief description of the study and its purpose. The issue of confidentiality was extensively discussed with all possible subjects and those who agreed to participate provided their informed consent.

Statistical Analysis

The data was analysed using the Statistical Package for Social Scientists (SPSS 14.0 for Windows). Descriptive statistics were used for the analysis and presentation of the data.

Table 1. Demographic characteristics

	Ν	%
Family Status		
Cohabiting	2	1.5%
Married	129	97.0%
Divorced	2	1.5%
Basic Education		
Elementary school	1	0.8%
Junior high-school	7	5.4%
High-school	121	93.8%
Professional		
Education		
None	14	10.9%
Vocational school or		
other vocational	24	18.8%
diplomas		
Post-secondary	36	28.1%
vocational diploma	50	20.170
College-level diploma	11	8.6%
University/Polytechnic	54	42.2%
Current Profession		
Full time employee	31	23.3%
Part time employee	15	11.3%
Agricultural worker	7	5.3%
Freelancer	19	14.3%
Unemployed	14	10.5%
On pregnancy leave	21	15.8%
Housewife	24	18.0%
Other	2	1.5%

Table 2 presents the type of delivery (vaginal or caesarean section) delivery and its characteristics. It is quite surprising that 43.2% gave birth by caesarean section, although 78.8% vaginal delivery. prefer When seeking information on pregnancy and labour, only 22.6% (n=31) mentioned that they have used the internet. Apart from the scheduled appointments with the obstetrician, only 15.3% of the participants attended courses preparing them for the labour and the family life. 53.8% (n=72) did not attend any preparative courses. 71% (n=94) of the mothers believe that those preparative courses are "very useful" or "useful" for people who are

	N	%
Which delivery is this one?		
First	57	42.9%
Second or more	76	57.1%
Deliveries after a 9-month pregnancy		
0	2	1.5%
1	56	42.1%
2	59	44.4%
3	14	10.5%
4	1	0.8%
5	1	0.8%
Abortions / Miscarriages		
0	110	82.7%
1	18	13.5%
2	4	3%
5	1	0.8%
Mode of most recent delivery		
Vaginal	75	56.8%
C-section	57	43.2%
Desired mode of delivery		
Vaginal	104	78.8%
C-section	28	21.2%
Desired place of delivery		
Maternity hospital	112	84.2%
Maternity hospital as an outpatient	16	12%
Home	4	3%
No preference	1	0.8%

 Table 2. Delivery's characteristics

going to have their first baby. It is interesting that the participants do not consider those preparatory courses equally useful for mothers and fathers; 71% (n=94) believe that they are useful for mothers, while 41.4% (n= 55) believe that they are a lot less useful for fathers.

Category of topics	Importance (%)	Satisfactory Discussion (%)
Pregnancy		
and post		
partum		
period	84.36	56.82
Health		
status		
and habits	69.68	51.23
Family		
situation	69.53	28.63
Preparation		
For the		
labour	82.48	28.57

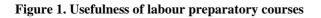
Table 3. Importance and satisfactionfrom discussion of topics aboutpregnancy monitoring

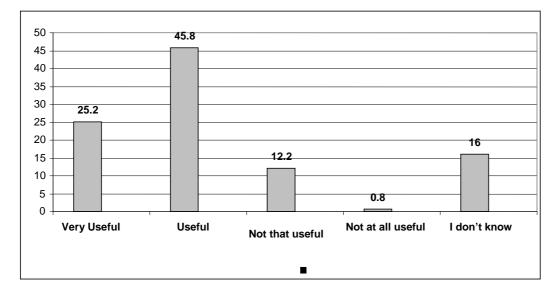
The topics that usually concern women are pregnancy, post-partum period, health habits and family situation. Table 3 presents the mothers' perceptions in relation to the importance of topics about pregnancy, as well as their opinions on whether these topics were discussed satisfactorily with the health care professionals.

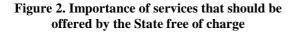
Figure 1 presents the mothers' opinions in relation to the usefulness of labour preparatory courses.

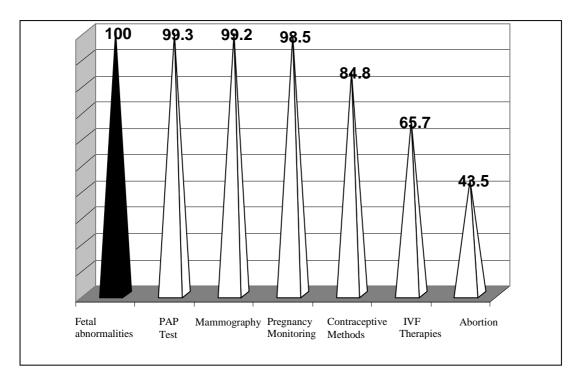
Figure 2 presents the services that the mothers consider most important and believe that they should be offered by the State free of charge.

All the participants believe that preventative exams to diagnose potential foetal abnormalities should be offered by the State free of charge. The majority of the participants consider very important the preventative examination for breast cancer (99.2%) and the preventative examinations for uterine and cervical cancer (99.3%). In addition, 98.5% of the mothers believe that the State should create a special health care service which would be responsible for pregnancy monitoring. Contraception and contraceptive methods are also considered quite important (84.5%), but services such as sterility treatment (65.7%) and abortion (43.5%) are not considered as important by the participants.









Discussion

mothers living in a specific geographic area about have used the internet in order to find information the maternity services offered to them. The vast about pregnancy and labour is very interesting. majority of the participants were married. This Potentially this low number is expected since was expected due to the fact that Greek society if Greeks use the internet less often than people conservative and women usually have children from other European countries (NEA, 2006). after they get married.

they had the possibility to choose, would choose very important the topics about pregnancy and the to deliver by vaginal delivery, and not by post-partum period. They consider important caesarean section. This finding contradicts results topics about preparation for the labour and less of other studies (Atiba et al. 1993; Simkin 1996; important the topics about family situation (such Jackson & Irvine 1998; Wax et al. 2000; Lee et al. as the relations between the couple, the way the 2001) which found that women prefer to deliver parent will respond to the new obligations). These by caesarean section in order to avoid the pain of findings contradict results of other studies which vaginal delivery. This difference might be found that the topics that most interest mothers attributed to cultural differences.

A high percentage of participants (43.2%) the baby, breast feeding, and practical maters delivered by caesarean section. This finding is about baby care (Deave, Johnson & Ingram consistent with findings from other studies in 2008). These differences might be attributed to Greece (Mossialos et al. 2005, Sapountzi-Krepia the different study design and to cultural et al 2010) and abroad (Gonzalez-Perez et al. differences. Further studies on this topic would be 2001), and it shows once again that percentage of needed. caesarean sections that takes place in Greece is Finally, it is important to mention which health high.

It is worth mentioning that a very small and should be offered by the State free of charge. percentage deliver at home. This shows that home-delivery important are those that diagnose potential foetal does not have a lot of supporters in Greece. In abnormalities. Preventative examinations other countries, such as the Netherlands, breast cancer and PAP-test are also considered Germany, and the United Kingdom, women often important. The high percentages illustrate the prefer to deliver at home (Christiaens & Bracke women's degree of sensitization towards these 2009; Weigers et al. 1998; Borquez & Wiegers topics, as well as their need and desire to have 2006) because the familiar environment creates a such services offered free of charge. feeling of safety (Viisainen 2001; Lock & Gibb 2003).

The study results show that only 15.3% of the References participants attended some preparatory course for labour, in addition to their appointments with an Abrahams N., Jewkes R., & Mvo Z. (2001) Health care obstetrician. The fact that these courses are considered very useful is consistent with findings of other studies (Escot et al. 2005). The women's degree of satisfaction of prenatal services might be an important factor in urging women to attend such courses. Oakley (1992) supports that the social group, in which a woman belongs, differentiates her needs and that women who are experiencing pregnancy for the first time probably Borquez HA & Wiegers TA (2006) A comparison of labour have a higher need for guidance and counselling. A study by Spinelli et al. (2003) found that women who attend prenatal care courses improve their knowledge and their abilities, are prepared for labour, for breast feeding, and for the baby's

later care, while at the same time they reduce their apprehension.

This study examines the perceptions of new The finding that only 22.6% (n=31) of mothers

In relation to the topics which could be discussed It is interesting that the majority of the mothers, if during pregnancy monitoring, mothers consider are related to parent support, information about

> care services the participants consider important of the participants would prefer to The services that are considered as the most for

- seeking practices of pregnant women and the role of midwife in Cape Town, South Africa. Journal of Midwifery and Women's Health 46: 240-247.
- Andrews A. (2004) Home birth experience. British Journal of Midwifery 12:518.
- Bondas T. (2002) Finnish women's experiences of antenatal care. Midwifery 18: 61-71.
- Atiba EO, Adegue AJ-H, Murphy PJ, Felmingham JE, & Scott CI (1993) Patient expectation and cesarean section rate. Lancet 341:246.
- and birth experiences of women delivering in a birthing centre and at home in the Netherlands. Midwifery 22:339-347.
- Christiaens W. & Bracke P. (2009) Place of birth and satisfaction with childbirth in Belgium and the Netherlands. Midwifery 25 (2):11-9.

- Craven C. (2005) Claiming respectable American NEA Newspaper (2006), Thursday 14 December. motherhood: homebirth mothers, medical officials, and the state. Medical Anthropology Quarterly 19:194-215.
- Deave T., Johnson D., & Ingram J. (2008) Transition to parenthood: the needs of parents in pregnancy and early parenthood. BMC Pregnancy Childbirth 8:30.
- Dragonas TG. (1992) Greek father's participation in labour and care of the infant. Scandinavian Journal of Caring Sciences 49:69-70.
- Escott D., Slade P., Spiby H., & Fraser RB (2005) Preliminary evaluation of a coping strategy enhancement method of preparation for labour. Midwifery 21:278-291.
- Galanakis E., Dragona Th. & Lapatsanis PD (1994) The new mother's opinion about health care services (in Greek). Greek Medical Archives 11:344-349.
- Gonzalez-Perez GJ, Vega-Lopez MG, Cabrera-Pivaral C, Munoz A & Valle A (2001) Caesarean sections in Mexico: are there too many? Health Policy and Planning 16:62-67.
- Handler A., Rosenberg D., Raube K., & Lyons S. (2003) Satisfaction and use of prenatal care: their relationship among African-American women in a large managed care organization. Birth 30:23-30.
- Jackson N. & Irvine LM. (1998) The influence of maternal request on the elective cesarean section rate. Journal of Obstetrics and Gynecology 18:115-120.

Kathimerini Newspaper, Friday 30 January 2004.

- Lee L., Yin K., Holroyd E., & Ng Chun Yuen (2001) Exploring factors influencing Chinese women's decision to have elective caesarean surgery. Midwifery 17:314-322.
- Liamputtong P. (2004) Giving birth in the hospital: child experiences of Thai women in northern Thailand. Health Care Women International 25:454-480.
- Likeridou K., Hyrkask K., Paunonen M., & Lehti K. (2001) Family dynamics of child-bearing families in Athens, Greece: A pilot study. International Journal of Nursing Practice 7:30-37.
- Lock LR.& Gibb H.J. (2003) The power of place. Midwifery 19:132-139.
- Luyben GA. & Fleming V. (2005) Women's needs from antenatal care in three European countries. Midwifery 21:212-223.
- Lundgren I. (2004) Releasing and relieving encounters: experiences of pregnancy and childbirth. Scandinavian Journal of Caring Sciences 18:368-375.
- Lundgren I. (2005) Swedish women's experience of childbirth 2 years after birth. Midwifery 21:346-354.
- Malin M. & Hemminki E. (1992). Midwifes as providers of prenatal care in Finland. Past and present. Women & Health. 18:17-34.
- Matthews R. & Callister LC. (2004) Childbearing women's perceptions of nursing care that promotes dignity. Journal of Obstetric Gynecological and Neonatal Nursing 33:498-507.
- Mossialos E, Allin S, Karras K & Davaki K (2005) An investigation of Caesarean sections in three Greek hospitals: The impact of financial incentives and convenience. European Journal of Public Health 15:288-295.

- Nolan MI. (1997) Antenatal education-where next? Journal of Advanced Nursing 25:1198-1204.
- Nusbaum J. (2006) Childbirth in modern Athens: the transition from homebirth. Penn Bioethics Journal 2:33-7.
- Oakley A. (1992) Using medical care: the views and experience of high- risk mothers. Health Services Research 26:651.
- Omar AM. & Schiffman FR. (1996) Pregnant women's Perceptions of Prenatal Care. Maternal-Child Nursing Journal 23:85-93.
- Sapountzi- Krepia D. & Vehviläinen-Julkunen K. (2006) Maternity care in Greece. Nosileftiki 45:160-168.
- Sapountzi-Krepia D, Lavdaniti M, Raftopoulos V, Psychogiou M, Hong-Gu He, Tortumluoglu G and Vehvilainen-Julkunen K. (2008) Greek mothers perceptions of their cooperation with the obstetrician and the midwife in the delivery room, International Journal of Caring Sciences, 1,3, 124-131
- Sapountzi-Krepia D., Raftopoulos V., Tzavelas G., Psychogiou M., Callister L.C., & Vehvilainen-Julkunen K. (2009) Mother's experiences of maternity services: Internal consistency and test-retest reliability of the Greek translation of the Kuopio Instrument for Mothers. Midwifery 25:691-700.
- Sapountzi-Krepia D., Raftopoulos V., Tzavelas G., Psychogiou M., Tzavelas G., & Vehvilainen-Julkunen K. (2009) Test-retest reliability of the Kuopio instruments for fathers (KIF): a questionnaire to assess fathers' feelings, experiences and preparation for their wife/partner's delivery. Midewifery 25:366-372.
- Sapountzi-Krepia D., Raftopoulos V., Lavdaniti V., Psychogiou M., Tsiligiri M., & Vehvilainen-Julkunen K. (2010) The discrepancy between perceived importance and adequacy in discussing topics related to pregnancy and birthing in maternity services: the views of mothers giving birth in Northern Greece. International Journal of Caring Sciences, 3, 1, 40-48
- Simkin P. (1996) The experience of maternity in a woman's life. Journal of Obstetric, Gynecologic and Neonatal Nursing 25:247-252.
- Spinelli A., Baglio G., Donati S., Grandolo M. E., & Osborn J. (2003) Do antenatal classes benefit the mother and her baby? The Journal of Maternal Fetal and Neonatal Medicine 50:689-701.
- Villar J., Baqeel H., & Piaggio G. (2001) WHO antenatal care randomized trial for the evaluation of a new model of routine antenatal care. Lancet 357:1551-1564.
- Viisainen K. (2001) Negotiating control and meaning: Home birth as a seif -constructed choice in Finland. Social Science and Medicine. 52:1109-1121.
- Wax J., Cartin A., Pinette M., & Black Stone J. (2004) Patiens choice cesarean: an evidence-based review. Obstetrical and Gynecological Survey 59:601-616.
- Wiegers TA., Van Der Zee J., Kerssens JJ., & Keirse MJNC. (1998) Home birth or short stay hospital birth in a low risk population in the Netherlands. Social Science of Medicine 46:1505-1511.