

Focus Groups about Women's Perceptions of Down Syndrome

OMB 0920-0798

National Center on Birth Defects and Developmental Disabilities
Centers for Disease Control and Prevention
Atlanta, GA

October 23, 2009

Project Officer:

Betsy Mitchell, MA, Ph.D.
Health Communication Specialist
Prevention Research Branch
Division of Birth Defects & Developmental Disabilities
Centers for Disease Control and Prevention
Phone: 404-498-0251
Fax: 404-498-3550
Email: EMitchell1@cdc.gov

Focus Groups about Women's Perceptions of Down Syndrome

A. Justification

A. 1. Circumstances Making the Collection of Information Necessary

On January 9, 2009, CDC received OMB approval for the generic concept of health marketing (Health Marketing, 0920-0798) to provide feedback on the development, implementation and satisfaction regarding public health services, products, communication campaigns and information.

Under Health Marketing, OMB has agreed to expedite review of proposals for data collections for survey/informative materials development and customer satisfaction surveys only. OMB will generally review such requests within ten business days.

Background

The accuracy of public perceptions of Down syndrome has implications for families and for society. Couples who are pregnant or planning a pregnancy need accurate information about Down syndrome to make informed decisions about prenatal testing and decisions regarding affected pregnancies (Chilaka et al., 2001). Accurate public perceptions of Down syndrome are needed to ensure the appropriate integration of people with Down syndrome into society as long-term survival increases (Bittles et al., 2007). Little is known about current attitudes and knowledge that the general public has about Down syndrome. Does the general public have a basic understanding of what Down syndrome is? How does society perceive individuals with Down syndrome? The project proposes to look at women's knowledge and perceptions of Down syndrome to inform the development of future educational and media efforts to address this issue.

Down syndrome is caused by the presence of three copies of all or part of chromosome 21. Mental retardation, cardiac defects, and gastrointestinal defects are common aspects of the Down syndrome phenotype (Sherman et al., 2007). Down syndrome is a relatively common cause of mental retardation and birth defects, occurring in approximately 1 in 732 births (Sherman et al., 2007). Older maternal age is the most common risk factor for Down syndrome (Sherman et al., 2007). The prevalence appears to vary by racial and ethnic group. Compared to non-Hispanic white women, non-Hispanic black women are slightly less likely, and Hispanic women are slightly more likely, to have an infant with Down syndrome (Sherman et al., 2007).

The knowledge, beliefs, and attitudes a woman has about Down syndrome can affect her decision and experiences during pregnancy. Chilaka et al. (2001) found that British women who had a good understanding of Down syndrome were more than twice as likely to accept a prenatal screening test for Down syndrome as those with less understanding. However, only 30% of the women in the study had a good understanding of Down syndrome (Chilaka et al., 2001). Less is known about the knowledge, attitudes, and beliefs of U.S. women regarding Down syndrome. Armeli et al. (2005) reported that only 60% of Americans they surveyed could correctly answer questions about health

conditions associated with Down syndrome or treatment of Down syndrome. Moyer et al. (1999) found that pregnant women in California were unaware of the physical health conditions associated with Down syndrome.

CDC held a workshop to set an agenda for future Down syndrome projects in November 2007. One priority identified in the workshop was the need to identify effective means of conveying information on Down syndrome to prospective and current parents (Rasmussen et al., 2008). Understanding what is generally known or believed about Down syndrome can assist in identifying the information that needs to be conveyed to current and prospective parents and guide the development of tools to convey the information to parents.

Authorization to conduct this study is contained in the Public Health Service Act (42 USC 241) Section 301. A copy of the legislation is included in as Attachment 1.

Overview of the Data Collection System

Data collection for *Focus Groups about Women's Perceptions of Down Syndrome* will consist of 90-minute discussions, with 4 to 6 individuals in each of 24 focus groups (see Attachment 2 – Focus Group Guides).

We will focus on two main groups of women:

1. Women with a young child (or children) who does not have Down syndrome: Women of childbearing age (21-45 years) with young children (< 3 years) who do not have immediate experience with Down syndrome (e.g., women should not have a child or immediate family member with Down syndrome).
2. Women without children but who plan to have children in the future: Women of childbearing age (21-45 years) who plan to have children in the future and who do not have immediate experience with Down syndrome (e.g., women should not have a child or immediate family member with Down syndrome).

At the end of the discussion, focus group participants will complete a 17-question, paper-and-pencil questionnaire (see Attachment 3 – Focus Group Participant Questionnaire). Questions are either multiple choice or write-in responses.

RTI International will conduct the focus groups, and will store resulting data for only one year after the focus group completion.

Items of Information to be Collected

The types of information to be collected include information about the participants' demographics, including age and race/ethnicity. Questions about participants' knowledge, attitudes, and beliefs regarding Down syndrome and questions about credible sources for health information predominate.

Notes, discussion transcripts, and questionnaires from the focus groups will not be in an identifiable form. However, the recruitment firms will collect limited information in identifiable form (IIF) through the screener (see Attachment 4 – Screening Instrument) in order to place women in the appropriate focus groups. The recruitment firms will also collect contact information (name, address, e-mail address, telephone number) from focus group participants that will be used to send confirmations or reminders to participants (see Attachment 5 – Confirmation Letter). This information will be kept in secure computer files at the recruitment firms.

A. 2. Purpose and Use of Information Collection

The National Center on Birth Defects and Developmental Disabilities (NCBDDD) of the Centers for Disease Control and Prevention (CDC) is requesting approval to conduct focus groups to assess women’s knowledge, attitudes, and beliefs regarding Down syndrome. Women’s knowledge, attitudes, and beliefs about sources of health information, social influence, and media influence will also be examined. The project proposes to look at women’s knowledge and perceptions of Down syndrome to inform the development of future educational and media efforts to address this serious issue. If we do not conduct this formative project, CDC will not have the information it needs to create up-to-date and effective educational and media efforts.

We will use the focus group methodology to address the following general questions:

- What do women of childbearing age know about Down syndrome?
- How do women of childbearing perceive people with Down syndrome?
- What sources of information (i.e., media, physicians, family, friends, etc.) have provided women with their health knowledge in general and knowledge about Down syndrome specifically? Which of the sources most influence these women’s knowledge, attitudes, and beliefs? What kinds of information about Down syndrome would women like to receive?

Privacy Impact Assessment Information

The focus groups and short questionnaire will include questions on sensitive information such as women’s attitudes about Down syndrome. However, we will take measures to ensure the participant’s privacy (see section A-10).

IIF through the screener will be collected by the focus group recruiting firm, but only for recruiting purposes.

A. 3. Use of Improved Information Technology and Burden Reduction

Due to the nature of this project, incorporating improved information technology for the purpose of data collection is not feasible. We will employ focus groups to gather

information. By approximating a natural discussion format, focus groups provide the opportunity to observe the interaction and potential influence of group participants, which encourage further insights into attitudes, perceptions, and opinions that would otherwise be unlikely to emerge in the absence of group dynamics.

Upon consent from the participants, we will audio record the focus group discussions to capture all information and assist with the preparation of reports. The use of electronic reporting is typically not feasible for this form of qualitative work.

A. 4. Efforts to Identify Duplication and Use of Similar Information

There have been no formal efforts to identify duplication because program staff, through extensive contacts with organizations and individuals in both the private and public sectors, knows that there are no similar data available. RTI International, the CDC contractor for this project, conducted a comprehensive scientific literature review of multidisciplinary fields, including medicine, public health, communication, and behavioral science. This project builds on the information found through the literature review, but the information currently available has significant gaps, is outdated, and does not adequately address the topics of interest. There is no other project that duplicates the proposed efforts.

A. 5. If the collection of information impacts small businesses or other small entities (Item 5 of OMB Form 83-I), describe any methods used to minimize burden.

There is no burden on small businesses or small entities. No small businesses will be involved in this activity. We will schedule all focus groups at the convenience of the participant and will not impact the participant's employer.

A. 6. Consequences of Collecting the Information Less Frequently

This is a one-time request; therefore, it is not possible to ask participants to participate in the focus groups less frequently. There are no legal obstacles to reduce the burden.

A. 7. Special Circumstances Relating to the Guidelines of 5 CFR 1320.5

This request fully complies with the regulations regarding the guidelines of 5 CFR 1320.5. There are no special circumstances contained within this application.

A. 8. Comments in Response to the Federal Register Notice and Efforts to Consult Outside the Agency

A. The 60-day Federal Register Notice (FRN) for 0920-0798 was published in the Federal Register on May 14, 2008, Vol. 73, No. 94, pp. 27833-27834. The 30-day FRN was published on July 24, 2008, Vol. 73, No. 143, pp. 43241-43242. No public comments were received.

- B.** The CDC team collaborated with RTI International staff (contractor) on the design, screening instruments, focus group guides, and questionnaire. RTI staff is trained and experienced in formative focus groups.

A. 9. Explanation of Any Payment or Gift to Respondents

The proposed incentive amount for the 90-minute focus groups about Down syndrome is \$75 (\$50/hour). As explained in the attached letters from our recruitment firms (see Attachment 6 – Recruitment Firm Letters), this amount is necessary in order to recruit women of childbearing age. Sensitive questions concerning attitudes about Down syndrome, attitudes about people with Down syndrome, and family planning education will be asked during these focus groups. Furthermore, this payment is intended to recognize the time burden placed on the participants, encourage their cooperation, and to convey appreciation for contributing to this important activity. Numerous empirical studies have shown that incentives can significantly increase response rates (e.g., Abreu & Winters, 1999; Shettle & Mooney, 1999; Greenbaum, 2000). This level of reimbursement for the target audiences helps to support additional costs participants may incur such as transportation and/or childcare in order to participate. Lower incentives could actually result in higher recruiting costs due to the need to over recruit by higher percentages (Krueger & Casey, 2000).

These focus groups are 90 minutes in length in order to allow for a substantive discussion regarding women’s perceptions of Down syndrome.

A. 10. Assurance of Confidentiality Provided to Respondents

CDC and RTI will take many precautions to secure participants’ identifiable information (see Attachment 7 – privacy section of Consent Form). The information participants provide during the focus groups will not be linked to the respondents’ identities. Participants will use only first names or pseudonyms during the focus group discussions. Transcripts and notes will not include participants’ names. The focus group participant questionnaires will be anonymous (i.e., they will not contain any identifying information and will not be linked to individual participants). Audio files of the focus groups will be stored by RTI on a secure share drive and password-protected computers. Additionally, the professional recruitment firm will be required to sign a privacy agreement. Reports will not include any identifiable information.

Identifying information (name, address, telephone number) will be used to send confirmation letters/e-mails and to make reminder calls to respondents (see Attachment 5 – Confirmation Letter). This information will be kept by the recruiting firm separately from any information collected in the focus groups. Screeners will be kept in a locked file cabinet at the recruitment firm or in password-protected computer files. The recruiter will only provide RTI and CDC a summary of participant information on the recruitment grids, which will be stripped of identifiable information, such as the last names, addresses, and telephone numbers of the participants. The focus group recruiting firm will be instructed to destroy their project-related records at the conclusion of the project.

The precautions taken by CDC and RTI have been evaluated by the Institutional Review Board of RTI and found to be acceptable (see Attachment 8 – RTI IRB approval).

A. 11. Justification for Sensitive Questions

Respondents will be asked to answer questions regarding their knowledge, attitudes, and beliefs regarding Down syndrome and the quality of life of individuals with Down syndrome. Sensitive questions concerning attitudes about Down syndrome, attitudes about people with Down syndrome, and family planning education will be asked during these focus groups. These questions are necessary when collecting data about women's knowledge, attitudes, and beliefs about Down syndrome.

During the screening process (see Attachment 4 – Screening Instrument), potential participants will also be told that they will be asked some questions about their knowledge and thoughts about Down syndrome. Verbal consent from the potential participants will be obtained before the potential participants are screened for eligibility over the phone.

The focus groups will be conducted in professional focus group facilities so that RTI note takers and other project members can observe the groups from behind a one-way mirror. To ensure participant protection and privacy, we will use consent forms for the focus groups that are approved by RTI's IRB (see Attachment 8 – RTI IRB approval). Once participants arrive at the site of the focus groups, each participant will be escorted to a private room where a member of the project team will conduct the informed consent process. This process will enable the staff member to review the informed consent form with the participant, answer any questions that the participant may have about the project, and collect one initialed copy of the consent form. All participants who agree to participate in the focus groups will be given a copy of the consent form to keep. The consent form will outline the precautions CDC and RTI will take in protecting their information as well as the risks and benefits of participation.

In the event a participant finds any question to be objectionable, the participant can easily skip that question.

Please see Attachment 2 for the Focus Group Guides, which features a list of questions asked at the focus groups, Attachment 3 for the Focus Group Participant Questionnaire, and Attachment 4 for the Screening Instrument.

A. 12. Estimates of Annualized Burden Hours and Costs

A. Annualized burden hours are based on the estimated time it will take for potential participants to complete the screener (Attachment 4: 8 minutes) and for eligible participants to complete the consent form (Attachment 7: 5 minutes), participate in the focus group discussion (Attachment 2: 80 minutes), and complete the focus group participant questionnaire (Attachment 3: 10 minutes). The number of respondents for the

screener is estimated at 288, since not all of those who respond to the screener will be eligible to participate. The maximum number of respondents for the completion of the consent form, participation in the focus group discussion, and completion of the questionnaire is 144. Thus, the estimated total annual burden is 266 hours.

Table 1: Estimated Annualized Burden Hours

TYPE OF RESPONDENT	FORM NAME	NUMBER OF RESPONDENTS	NUMBER OF RESPONSES PER RESPONDENT	AVERAGE BURDEN PER RESPONSE (in hours)	TOTAL ANNUAL BURDEN (in hours)
Potential Participant	Screening Instrument (Attachment 4)	288	1	8/60	38
Focus Group Participant	Consent Form (Attachment 7)	144	1	5/60	12
Focus Group Participant	Focus Group Guides (Attachment 2)	144	1	80/60	192
Focus Group Participant	Participant Questionnaire (Attachment 3)	144	1	10/60	24
Total					266

B. Annualized cost estimates to potential respondents, presented in Table 2, are based on mean (average) hourly wage estimates obtained from the Bureau of Labor Statistics' National Compensation Survey located at <http://www.bls.gov/ocs/>. Since these activities will take place in Raleigh, NC and Boston, MA, average hourly rates in the metro and/or regional areas of Raleigh, NC (\$20.26) and Boston, MA (\$26.89) were averaged to obtain the estimate provided in Table 2 (\$23.58). The total number of burden hours for respondents to complete their responses is 266.4 hours. Thus, the total annual respondent cost is \$6,281.71.

Table 2: Estimated Annualized Burden Costs

TYPE OF RESPONDENT	NUMBER OF RESPONDENTS	NUMBER OF RESPONSES PER RESPONDENT	AVERAGE BURDEN PER RESPONSE (in hours)	TOTAL ANNUAL BURDEN (in hours)	AVERAGE HOURLY WAGE RATE	TOTAL ANNUAL RESPONDENT COST
Potential Participant	288	1	8/60	38	\$23.58	\$896.04
Focus Group Participant	144	1	95/60	228	\$23.58	\$5376.24
Total				266		\$6272.28

A. 13. Estimates of Other Total Annual Cost Burden to Respondents of Record Keepers

Respondents participate on a purely voluntary basis and, therefore, are subject to no direct costs other than their time to participate; there are no start-up or maintenance costs. We do not require any additional record keeping.

A. 14. Annualized Cost to the Government

The total cost to the Government for this project is \$68,061.

Table 2: Governmental Costs

Expense Type	Expense Explanation	Annual Cost
Government Salaries:	CDC Technical Monitor: GS-15, 2% time	\$2,637
	CDC Project Officer: GS-14, 3% time	\$ 3,500
	CDC Project Consultant: GS-11, 6% time	\$ 3,524
Travel	To observe conduct of focus groups (Raleigh, NC and Boston, MA): 2 staff (for 4 days)	\$ 4,000
Contractor Costs	For information collection (including travel to Raleigh and Boston), design, development, printing forms, mailing, editing, transcription, coding, tabulation, analysis and publication of results.	\$54,400
	Total Annualized Cost:	\$68,061

A. 15. Explanation for Program Changes or Adjustments

This is a new data collection.

A. 16. Plans for Tabulation and Publication and Project Time Schedule

OMB Submission	By 10/23/09
Implementation of Focus Groups	Within 2 months following OMB approval
Completion of Focus Groups	Within 5 months following OMB approval
Focus Group Report Manuscript Initial Draft	Within 8 months following OMB approval
Focus Group Report Manuscript Final Draft	Within 10 months following OMB approval
PowerPoint Presentation	Within 10 months following OMB approval

Verbatim transcripts, debriefing notes, and digital recordings will be completed for each focus group. The analysis team will review these materials and then analyze them using the following steps (adapted from Krueger & Casey, 2000).

1. Assign each respondent in the group an identification number.

2. Code the responses according to a set of predeveloped codes that represent key theoretical constructs (e.g., knowledge, attitude, social norms).
3. Develop and assign emergent codes for responses that do not fit the pre-existing coding scheme.
4. Using these pre-established and emergent codes, identify the key themes and determine the degree of consensus or discordance with a particular view; the goal of a focus group is to focus on what the group thinks, not on what the individual thinks.
5. In a cross-group matrix, organize the key themes in accordance to the project question most closely addressed by group, noting particularly relevant quotes.
6. Using the cross-group matrix, identify cross-cutting themes and areas lacking consensus.

All questionnaire items will be compiled and analyzed using descriptive statistics.

Within 3 months of completion of the focus groups, RTI will prepare and submit to CDC a draft narrative report in the form of an Executive Summary, approximately 20 pages long. The Executive Summary will be organized according to the key questions, and will conclude with recommendations or implications for message development related to Down syndrome. Within 3 weeks of receipt of CDC comments, we will submit a final version of the Executive Summary. RTI will also prepare a draft PowerPoint presentation that will highlight key findings, and offer recommendations for message development; we will submit this to CDC for review within 1 month of the submission of the Executive Summary.

Within 10 months of the end of the focus group data collection, RTI will prepare and submit to CDC for review a manuscript presenting the findings from the focus groups, approximately 15–20 pages in length. This manuscript will be formatted for submission to a peer-reviewed publication. Within 2 weeks of CDC comments, we will submit a final version of the manuscript.

A. 17. Reason(s) Display of OMB Expiration Date is Inappropriate

No exemption is requested.

A. 18. Exceptions to Certification for Paperwork Reduction Act Submissions

There are no exceptions to the certification.

References

- Abreu, D.A., & Winters, F. (1999). Using monetary incentives to reduce attrition in the survey of income and program participation. *Proceedings of the Survey Research Methods Section of the American Statistical Association*.
- Armeli, C., Robbins, S. J., & Eunpu, D. (2005). Comparing knowledge of beta-thalassemia in samples of Italians, Italian-Americans, and non-Italian-Americans. *J Genet Couns*, 14(5), 365-376.
- Bittles, A. H., Bower, C., Hussain, R., & Glasson, E. J. (2007 Apr). The four ages of Down syndrome. *Eur J Public Health*, 17(2), 221-225.
- Chilaka, V. N., Konje, J. C., Stewart, C. R., Narayan, H., & Taylor, D. J. (2001). Knowledge of Down syndrome in pregnant women from different ethnic groups. *Prenatal Diagnosis*, 21(3), 159-164.
- Greenbaum, T. L. (2000). *Moderating focus groups: A practical guide for group facilitation*. Thousand Oaks, CA: Sage Publications, Inc.
- Krueger, R. A. & Casey, M. A. (2000). *Focus Groups. A practical guide for applied research* (3rd Ed.). Thousand Oaks, CA: Sage Publications.
- Moyer, A., Brown, B., Gates, E., Daniels, M., Brown, H. D., & Kuppermann, M. (1999). Decisions about prenatal testing for chromosomal disorders: perceptions of a diverse group of pregnant women. *J Womens Health Gend Based Med*, 8(4), 521-531.
- Rasmussen, S. A., Whitehead, N., Collier, S. A., & Frias, J. L. (2008). Setting a public health research agenda for Down syndrome: summary of a meeting sponsored by the Centers for Disease Control and Prevention and the National Down Syndrome Society. *Am J Med Genet A*, 146A(23), 2998-3010.
- Sherman, S. L., Allen, E. G., Bean, L. H., & Freeman, S. B. (2007). Epidemiology of Down syndrome. *Mental Retardation and Developmental Disabilities Research Reviews*, 13(3), 221-227.
- Shettle, C., & Mooney, G. (1999). Monetary incentives in U.S. government surveys. *Journal of Official Statistics*, 15, 231-250.