

I. Authority and Catalog of Federal Domestic Assistance Number

This program is authorized under section 301(a) and 317(k)(2) of the Public Health Service Act, (42 U.S.C. section 241(a) and 247b(k)(2)), as amended. The Catalog of Federal Domestic Assistance number is 93.945.

J. Where To Obtain Additional Information

This and other CDC announcements can be found on the CDC home page Internet address—<http://www.cdc.gov>. Click on "Funding," then "Grants and Cooperative Agreements."

If you have questions after reviewing the contents of all the documents, business management technical assistance may be obtained from: Michelle Copeland, Grants Management Specialist, Grants Management Branch, Procurement and Grants Office, Centers for Disease Control and Prevention, 2920 Brandywine Road, Room 3000, Atlanta, GA 30341-4146. Telephone number: 770-488-2686. E-mail address: stc8@cdc.gov.

For program technical assistance, contact: Nancy B. Watkins, M.P.H., Team Leader for Program Services, Intervention and Evaluation Cardiovascular Health Branch, Centers for Disease Control and Prevention, Division of Adult and Community Health, 4770 Buford Highway, NE, MS K-47, Atlanta, GA 30341. Telephone number: 770-488-8004. Fax: 770-488-8151. E-mail address: NWatkins@cdc.gov.

Dated: February 22, 2002.

Robert L. Williams,

Chief, Acquisition and Assistance Branch B, Procurement and Grants Office, Center for Disease Control and Prevention (CDC).

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DEPARTMENT OF HEALTH AND HUMAN SERVICES

Centers for Disease Control and Prevention

[Program Announcement 02041]

Traumatic Injury Biomechanics Research; Notice of Availability of Funds

A. Purpose

The Centers for Disease Control and Prevention (CDC) announces the availability of fiscal year (FY) 2002 funds for a grant program for Extramural Grants for Traumatic Injury Biomechanics Research. This program addresses the "Healthy People 2010"

focus areas of Injury and Violence Prevention.

The purposes of the program are to:

1. Solicit research applications that address the priorities reflected under the heading, "Programmatic Interests."

2. Build the scientific base for the prevention of injuries, disabilities, and deaths.

3. Encourage professionals from a wide spectrum of disciplines such as engineering, bioengineering, medicine, health care, public health, health care research, behavioral and social sciences, and others, to undertake research to prevent and control injuries.

4. Encourage investigators to propose research that involves intervention development and testing as well as research on methods, to encourage individuals, organizations, or communities to adopt and maintain effective intervention strategies.

B. Eligible Applicants

Applications may be submitted by public and private nonprofit and for-profit organizations and by governments and their agencies; that is, universities, colleges, research institutions, hospitals, other public and private nonprofit and for-profit organizations, State and local governments or their bona fide agents, including the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands, the Commonwealth of the Northern Mariana Islands, American Samoa, Guam, the Federated States of Micronesia, the Republic of the Marshall Islands, and the Republic of Palau, federally recognized Indian tribal governments, Indian tribes, or Indian tribal organizations, and small, minority, and women-owned businesses.

Current grantees are also eligible to apply for supplemental funding to enhance or expand existing projects, or to conduct one year pilot studies.

Note: Title 2 of the United States code section 1611 states that an organization described in section 501 (c)(4) of the Internal Revenue Code that engages in lobbying activities is not eligible to receive Federal funds constituting an award, grant or loan.

Applications that are incomplete or non-responsive to the below requirements will be returned to the applicant without further consideration. The following are applicant requirements:

1. A principal investigator, who has conducted research, published the findings in peer-reviewed journals, and has specific authority and responsibility to carry out the proposed project.

2. Demonstrated experience on the applicant's project team in conducting, evaluating, and publishing injury

control research in peer-reviewed journals.

3. Effective and well-defined working relationships within the performing organization and with outside entities which will ensure implementation of the proposed activities.

4. The ability to carry out injury control research projects as defined under Attachment 2 (1.a-c) in the application kit.

5. The overall match between the applicant's proposed theme and research objectives, and the program interests as described under the heading, "Programmatic Interests."

C. Availability of Funds

Approximately \$1,000,000 is available in FY 2002 to fund approximately four to five awards. The specific program priorities for these funding opportunities are outlined with examples in this announcement under the section, "Programmatic Interests."

It is expected that the awards will begin on or about September 30, 2002, and will be made for a 12-month budget period within a three year project period. The maximum funding level will not exceed \$300,000 (including both direct and indirect costs) per year or \$900,000 for the three-year project period. Those grantees applying for supplemental funding may request up to \$150,000 (including both direct and indirect costs) for one year. Supplemental awards will be made for the budget period to coincide with the actual budget period of the grant, and are based on the availability of end-of-fiscal year funds. Applications that exceed the funding cap of \$300,000 per year will be excluded from the competition and returned to the applicant. The availability of Federal funding may vary and is subject to change.

Continuation awards within the project period will be made based on satisfactory progress demonstrated by investigators at work-in-progress monitoring workshops (travel expenses for this annual one-day meeting should be included in the applicant's proposed budget), and the achievement of work plan milestones reflected in the continuation application.

Note: Grant funds will not be made available to support the provision of direct care. Eligible applicants may enter into contracts, including consortia agreements (as set forth in the PHS Grants Policy Statement, dated April 1, 1994), as necessary to meet the requirements of the program and strengthen the overall application.

Funding Preferences

While extending and adapting results and conclusions of the above efforts to

the entire population is desirable, additional consideration will be given to proposals that emphasize research especially applicable to young children, women (and, in particular, pregnant women), and/or the elderly.

D. Program Requirements

The National Center of Injury Prevention and Control (NCIPC) is soliciting investigator-initiated research that will help expand and advance our understanding of injury causation. Traumatic injury biomechanics research is especially needed to understand the injury mechanisms that lead to long-term disability from brain and spinal cord injuries.

In conducting activities to achieve the purpose of this program, the recipient will be responsible for the following activities:

1. Research to advance the biomechanical understanding of traumatic brain and spinal cord injuries (TBI/SCI), thoracic and abdominal injuries resulting from blunt impact, and injuries occurring to the extremities and joints.

2. Evaluate, from a biomechanical perspective, intervention concepts and strategies such as multi-use recreational helmets, mouth- and face-protection devices for athletes, energy-absorbing playground surfaces, hip pads, and motor vehicle side-impact and rollover countermeasures.

3. Define human tolerance limits for injury; develop biofidelic models to elucidate injury physiology as well as pharmacologic, surgical, rehabilitation, and other interventions; improve injury assessment technology; increase understanding of impact injury mechanisms; and quantify injury-related biomechanical responses for critical areas of the human body (e.g., brain and vertebral injury with spinal cord involvement).

4. Applicants are required to provide Measures of Effectiveness that will demonstrate the accomplishment of the various identified objectives of the grant. Measures must be objective/quantitative and must measure the intended outcome. These Measures of Effectiveness shall be submitted with the application and shall be an element of the evaluation (See Attachment 4 in the application kit).

E. Content

Letter of Intent (LOI)

A LOI is optional for this program. The narrative should be no more than two double-spaced pages, printed on one side, with one inch margins, and un-reduced font. The letter should

identify the announcement number, the name of the principal investigator, and briefly describe the scope and intent of the proposed research work. The letter of intent does not influence review or funding decisions, but the number of letters received will enable CDC to plan the review more effectively and efficiently.

Application

Use the information in the Program Requirements, Other Requirements, and Evaluation Criteria sections to develop the application content. Your application will be evaluated on the criteria listed, so it is important to follow them in laying out your program plan.

Applications should follow the PHS-398 (Rev. 5/2001) application and Errata sheet (See attachment 3 in the application kit), and should include the following information:

1. The project's focus that justifies the research needs and describes the scientific basis for the research, the expected outcome, and the relevance of the findings to reduce injury morbidity, mortality, disability, and economic losses. This focus should be based on recommendations in "Healthy People 2010" and should seek creative approaches that will contribute to a national program for injury control.

2. Specific, measurable, and time-framed objectives.

3. A detailed plan describing the methods by which the objectives will be achieved, including their sequence. A comprehensive evaluation plan is an essential component of the application.

4. A description of the principal investigator's role and responsibilities.

5. A description of all the project staff regardless of their funding source. It should include their title, qualifications, experience, percentage of time each will devote to the project, as well as that portion of their salary to be paid by the grant.

6. A description of those activities related to, but not supported by the grant.

7. A description of the involvement of other entities that will relate to the proposed project, if applicable. It should include commitments of support and a clear statement of their roles.

8. A detailed first year's budget for the grant with future annual projections, if relevant.

9. An explanation of how the research findings will contribute to the national effort to reduce the morbidity, mortality and disability caused by injuries within three to five years from project start-up.

An applicant organization has the option of having specific salary and

fringe benefit amounts for individuals omitted from the copies of the application which are made available to outside reviewing groups. To exercise this option: on the original and five copies of the application, the applicant must use asterisks to indicate those individuals for whom salaries and fringe benefits are not shown; however, the subtotals must still be shown. In addition, the applicant must submit an additional copy of page 4 of Form PHS-398, completed in full, with the asterisks replaced by the salaries and fringe benefits. This budget page will be reserved for internal staff use only.

F. Submission and Deadline

Letter of Intent (LOI)

On or before March 18, 2002, submit the LOI to the Grants Management Specialist identified in the "Where to Obtain Additional Information" section of this announcement.

Application

Submit the original and five copies of PHS-398 (OMB Number 0925-0001) (adhere to the instructions on the Errata Instruction Sheet for PHS 398). Forms are available in the application kit and at the following Internet address: www.cdc.gov/od/pgo/forminfo.htm

On or before April 16, 2002, submit the application to the Grants Management Specialist identified in the "Where to Obtain Additional Information" section of this announcement.

Deadline: Applications shall be considered as meeting the deadline if they are either:

1. Received on or before the deadline date; or

2. Sent on or before the deadline date and received in time for submission to the independent review group. (Applicants must request a legibly dated U.S. Postal Service postmark or obtain a legibly dated receipt from a commercial carrier or U.S. Postal Service. Private metered postmarks shall not be acceptable as proof of timely mailing.)

Late: Applications which do not meet the criteria in 1. or 2. above will be returned to the applicant.

G. Evaluation Criteria

Upon receipt, applications will be reviewed by CDC staff for completeness and responsiveness as outlined under the Eligible Applicants Section (Items 1-5).

Incomplete applications and applications that are not responsive will be returned to the applicant without further consideration. It is especially

important that the applicant's abstract reflects the project's focus, because the abstract will be used to help determine the responsiveness of the application.

Applications which are complete and responsive may be subjected to a preliminary evaluation (triage) by a peer review committee, the Injury Research Grant Review Committee (IRGRC), to determine if the application is of sufficient technical and scientific merit to warrant further review by the IRGRC; CDC will withdraw from further consideration applications judged to be noncompetitive and promptly notify the principal investigator/program director and the official signing for the applicant organization. Those applications judged to be competitive will be further evaluated by a dual review process.

Competing supplemental grant awards may be made when funds are available, to support research work or activities not previously approved by the IRGRC. Applications should be clearly labeled to denote their status as requesting supplemental funding support. These applications will be reviewed by the IRGRC and the secondary review group.

Awards will be determined by the Director of the NCIPC based on priority scores assigned to applications by the primary review committee IRGRC, recommendations by the secondary review committee Advisory Committee for Injury Prevention and Control (ACIPC), consultation with NCIPC senior staff, and the availability of funds.

1. The primary review will be a peer review conducted by the IRGRC. All applications will be reviewed for scientific merit by a committee of no less than three reviewers with appropriate expertise using current National Institutes of Health (NIH) criteria to evaluate the methods and scientific quality of the application. Factors to be considered will include:

a. *Significance.* Does this study address an important problem? If the aims of the application are achieved, how will scientific knowledge be advanced? What will be the effect of these studies on the concepts or methods that drive this field?

b. *Approach.* Are the conceptual framework, design, methods, and analyses adequately developed, well-integrated, and appropriate to the aims of the project? Does the applicant acknowledge potential problem areas and consider alternative tactics? Does the project include plans to measure progress toward achieving the stated objectives? Is there an appropriate work plan included?

c. *Innovation.* Does the project employ novel concepts, approaches or methods? Are the aims original and innovative? Does the project challenge or advance existing paradigms, or develop new methodologies or technologies?

d. *Investigator.* Is the principal investigator appropriately trained and well-suited to carry out this work? Is the proposed work appropriate to the experience level of the principal investigator and other significant investigator participants? Is there a prior history of conducting injury-related research?

e. *Environment.* Does the scientific environment in which the work will be done contribute to the probability of success? Does the proposed research take advantage of unique features of the scientific environment or employ useful collaborative arrangements? Is there evidence of institutional support? Is there an appropriate degree of commitment and cooperation of other interested parties as evidenced by letters detailing the nature and extent of the involvement?

f. *Ethical Issues.* What provisions have been made for the protection of human subjects and the safety of the research environments? How does the applicant plan to handle issues of confidentiality and compliance with mandated reporting requirements, e.g., suspected child abuse? Does the application adequately address the requirements of 45 CFR 46 for the protection of human subjects? (An application can be disapproved if the research risks are sufficiently serious and protection against risks is so inadequate as to make the entire application unacceptable.) The degree to which the applicant has met the CDC Policy requirements regarding the inclusion of women, ethnic, and racial groups in the proposed research. This includes:

(1) The proposed plan for the inclusion of both sexes and racial and ethnic minority populations for appropriate representation.

(2) The proposed justification when representation is limited or absent.

(3) A statement as to whether the design of the study is adequate to measure differences when warranted.

(4) A statement as to whether the plans for recruitment and outreach for study participants include the process of establishing partnerships with community(ies) and recognition of mutual benefits.

g. *Study Samples.* Are the samples sufficiently rigorously defined to permit complete independent replication at another site? Have the referral sources

been described, including the definitions and criteria? What plans have been made to include women and minorities and their subgroups as appropriate for the scientific goals of the research? How will the applicant deal with recruitment and retention of subjects?

h. *Dissemination.* What plans have been articulated for disseminating findings?

i. *Measures of Effectiveness.* The Peer Review Panel shall assure that measures set forth in the application are in accordance with CDC's performance plans (See attachment 4 in the application kit). How adequately has the applicant addressed these measures?

The IRGRC will also examine the appropriateness of the proposed project budget and duration in relation to the proposed research and the availability of data required for the project.

2. The secondary review will be conducted by the Science and Program Review Committee (SPRC) from the ACIPC. The ACIPC Federal ex officio members will be invited to attend the secondary review and will receive modified briefing books (i.e., abstracts, strengths and weaknesses from summary statements, and project officer's briefing materials). Federal ex officio members will be encouraged to participate in deliberations when applications address overlapping areas of research interest so that unwarranted duplication in federally-funded research can be avoided and special subject area expertise can be shared. The NCIPC Division Associate Directors for Science (ADS) or their designees will attend the secondary review in a similar capacity as the Federal ex officio members to assure that research priorities of the announcement are understood and to provide background regarding current research activities. Only SPRC members will vote on funding recommendations, and their recommendations will be carried to the entire ACIPC for voting by the ACIPC members in closed session. If any further review is needed by the ACIPC, regarding the recommendations of the SPRC, the factors considered will be the same as the factors that the SPRC considered.

The committee's responsibility is to develop funding recommendations for the NCIPC Director based on the results of the primary review, the relevance and balance of proposed research relative to the NCIPC programs and priorities, and to assure that unwarranted duplication of federally-funded research does not occur. The Secondary Review Committee has the latitude to recommend to the NCIPC Director, to reach over better ranked proposals in

order to assure maximal impact and balance of proposed research. The factors to be considered will include:

- a. The results of the primary review including the application's priority score as the primary factor in the selection process.
 - b. The relevance and balance of proposed research relative to the NCIPC programs and priorities.
 - c. The significance of the proposed activities in relation to the priorities and objectives stated in "Healthy People 2010" and the Institute of Medicine report, "Reducing the Burden of Injury".
 - d. Budgetary considerations.
3. Continued Funding. Continuation awards made after FY 2002, but within the project period, will be made on the basis of the availability of funds and the following criteria:
- a. The accomplishments reflected in the progress report of the continuation application indicate that the applicant is meeting previously stated objectives or milestones contained in the project's annual work plan and satisfactory progress demonstrated through presentations at work-in-progress monitoring workshops.
 - b. The objectives for the new budget period are realistic, specific, and measurable.
 - c. The methods described will clearly lead to achievement of these objectives.
 - d. The evaluation plan will allow management to monitor whether the methods are effective.
 - e. The budget request is clearly explained, adequately justified, reasonable and consistent with the intended use of grant funds.

H. Other Requirements

Technical Reporting Requirements

Provide CDC with an original plus two copies of:

1. Annual progress report (the results of the Measures of Effectiveness shall be a data requirement to be submitted with or incorporated into the progress report. See Attachment 4 in the application kit);
2. A financial status report, no more than 90 days after the end of the budget period;
3. Final financial report and performance report, no more than 90 days after the end of the project period; and
4. At the completion of the project, the grant recipient will submit a brief (2,500 to 4,000 words written in non-scientific [laymen's] terms) summary highlighting the findings and their implications for injury prevention programs, policies, environmental changes, etc. The grant recipient will also include a description of the

dissemination plan for research findings. This plan will include publications in peer-reviewed journals and ways in which research findings will be made available to stakeholders outside of academia, (e.g., state injury prevention program staff, community groups, public health injury prevention practitioners, and others). CDC will place the summary report and each grant recipient's final report with the National Technical Information Service (NTIS) to further the agency's efforts to make the information more available and accessible to the public.

Send all reports to the Grants Management Specialist identified in the "Where to Obtain Additional Information" section of this announcement.

The following additional requirements are applicable to this program. For a complete description of each see Attachment 1 in the application kit.

- AR-1—Human Subjects Certification
- AR-2—Requirements for inclusion of Women and Racial and Ethnic Minorities in Research
- AR-3—Animal Subjects Requirement
- AR-9—Paperwork Reduction Requirements
- AR-10—Smoke-Free Workplace Requirement
- AR-11—Healthy People 2010
- AR-12—Lobbying Restrictions
- AR-13—Prohibition on Use of CDC funds for Certain Gun Control Activities
- AR-21—Small, Minority, and Women-owned Business
- AR-22—Research Integrity

I. Authority and Catalog of Federal Domestic Assistance Number

This program is authorized under section 301 (a) [42 U.S.C. 241(a)] of the Public Health Service Act, and section 391 (a) [42 U.S.C. 280(b)] of the Public Service Health Act, as amended. The catalog of Federal Domestic Assistance number is 93.136.

J. Where To Obtain Additional Information

This and other CDC announcements can be found on the CDC home page on the Internet. The address for the CDC home page is <http://www.cdc.gov>. Click on "Funding Opportunities" then "Grants and Cooperative Agreements." To receive additional written information and to request an application kit, call 1-888-GRANTS4 (1-888-472-6874). You will be asked to leave your name and address and will be instructed to identify the Announcement number of interest.

If you have questions after reviewing the contents of all the documents,

business management technical assistance may be obtained from: Van A. King, Grants Management Specialist, Grants Management Branch, Procurement and Grants Office, Program Announcement #02041, Centers for Disease Control and Prevention (CDC), 2920 Brandywine Road, Room 3000, Atlanta, Georgia 30341, Telephone: (770) 488-2751, Internet address: vbk5@cdc.gov.

For program technical assistance, contact: Ted Jones, Program Manager, Office of Research Grants, National Center for Injury Prevention and Control, Centers for Disease Control and Prevention (CDC), 4770 Buford Highway, NE, Mailstop K-58, Atlanta, GA 30341-3724, Telephone: (770) 488-4824, Internet address: tmj1@cdc.gov.

Robert L. Williams,

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DEPARTMENT OF HEALTH AND HUMAN SERVICES

Centers for Disease Control and Prevention

[Program Announcement 02040]

Violence-Related Injury Prevention Research; Notice of Availability; of Funds

A. Purpose

The Centers for Disease Control and Prevention (CDC) announces the availability of fiscal year (FY) 2002 funds for a grant program for Extramural Grants for Violence-Related Injury Prevention Research. This announcement addresses the "Healthy People 2010" focus area of Violence Prevention.

The purposes of the program are to:

1. Solicit research applications that address the priorities reflected under the section "Programmatic Interests."
2. Build the scientific base for the prevention of injuries, disabilities, and deaths due to violence.
3. Encourage professionals from a wide spectrum of disciplines such as public health, health care, medicine, criminal justice, and behavioral and social sciences, to work together and undertake research to prevent and control injuries that result from violence.
4. Encourage investigators to propose research that involves intervention development and testing as well as