IOVERA® USE IN SHOULDER DISORDERS
REQUEST FOR PROPOSAL

BACKGROUND

Pacira BioSciences, Inc. is committed to supporting independent research initiatives that foster the advancement of scientific and clinical information and improve patient care. To that end, Pacira extends a new grant opportunity by way of a request for proposal (RFP) focused on research trials that seek to result in optimized patient care. These research trials will provide valued information on the efficacy of the company’s marketed products.

All proposals are reviewed for scientific merit, innovation, clinical impact on patients, and compliance with Pacira policy and requirements. If you are interested in applying for support of a research proposal, please review the submission process and apply online by clicking here. Pacira will review and consider all relevant research proposals but is not obligated to provide support for any research proposals received.

While the Pacira Grant Review Committee (PGRC) reviews all research proposals, the principal investigator (and ultimately the grantee) is responsible for the design, implementation, and conduct of the independent initiative supported by the grant. Pacira will not be involved in the conduct or monitoring of the proposed trial, including drafting the research study protocol.

PURPOSE AND INTENT

Pacira BioSciences, Inc. issues this RFP for a prospective clinical research study evaluating the ioverya™ system to treat pain due to shoulder disorders. This RFP is funded through the investigator initiated trial (IIT) grant program at Pacira. Funding is available for the fiscal year 2020 and may be extended at the company’s discretion.

ELIGIBILITY

To be eligible for consideration, the requestor must be an independent third party. Examples of appropriate requestors include, but are not limited to:

- Academic medical centers
- Healthcare institutions, including private practice settings and ambulatory care facilities

Note: If the research involves multiple departments within an institution and/or between different institutions/organizations/associations, please note each institution's role in the grant application.
TARGET AUDIENCE

Health care professionals involved in the care of patients with shoulder disorders.

TIMELINE

The RFP application will remain open until the grant has been awarded.

Note: The PGRC may award multiple awards at its discretion.

BURDEN

**Epidemiology of shoulder disorders**

Chronic shoulder disorders are a group of conditions that include rotator cuff diseases, shoulder arthritis, adhesive capsulitis, shoulder instability, and general shoulder pain of mixed diagnoses. The shoulder is a highly mobile joint made up of the arm bone (humerus), shoulder blade (scapula), and collar bone (clavicle) as well as surrounding muscles, tendons, and ligaments for stabilization. The flexibility of the shoulder leaves it susceptible to injury including muscle and ligament tears, bursitis, tendonitis, instability and eventual arthritic changes. The associated symptoms of these disorders include, but are not limited to pain, swelling, bruising, and a clicking sound when raising the arm, or difficulty moving the arm.

Shoulder pain of different etiologies in the general population is common across all age groups resulting in different levels of associated disability. The reported prevalence of shoulder pain in adults younger than 70 years ranged from 7 – 27% and 13.2 – 26% for adults older than 70 years. The reported 1-month prevalence was 19 – 31%; 1-year prevalence was 5 – 47%; and lifetime prevalence was 7 – 67% making shoulder pain one of the most common musculoskeletal disorders (1). Moreover, 63.1 million people have reported some form of chronic joint pain with shoulder pain being in the top three areas of complaint. Shoulder pain, for example, has been reported to affect 18.7 million adults accounting for millions of physical office visits (2).

**Economic impact of shoulder disorders**

Overall, the economic impact of musculoskeletal disorders is substantial and prevalent. For instance, in 2004, 30% of the U.S. population had a musculoskeletal disorder that required medical care making the estimated annual direct costs $510 billion (2). These group of disorders are also disabling, when including direct and indirect expenditures in lost wages totals $874 billion (2).

**Shoulder disorder treatment**

Current treatment options for shoulder disorders include exercise, manual therapy (eg, mobilization, manipulation), physical modalities (eg, laser, superficial ice and heat, ultrasound, diathermy, interferential current therapy, radiofrequency ablation), oral medication (eg, NSAIDs), injections, surgery, and cryoanalgesia (3-6). The goal of treatment are pain relief, increased range of motion, and a return to normal activities of daily living (3).
Cryoanalgesia for shoulder disorders is one of the most recent treatment modalities being explored and shows positive results. In a recent case series of patients undergoing rotator cuff repair, patients underwent preoperative cryoanalgesia as part of the patients’ pain management plan (4). The study showed good results where pain scores were reported to be less than 2 on a 0-10 pain scale patients overall also used less opioids and were able to return to normal activities at 2-3 weeks following treatment (4). Additionally, cryoanalgesia has the advantage of generating less tissue damage when compared to other related interventions (7).

SCOPE OF WORK

The successful applicant will prepare a research proposal for a feasibility study that adequately addresses the management of pain due to shoulder disorders with cryoanalgesia using the iovera° system.

The study proposal should focus on patients with shoulder disorders who have failed conservative therapies. The study will be a case series evaluating patients before and after cryoanalgesia treatment for up to six months with a 3-month enrollment period. Outcomes may include pain (eg, NRS, VAS) and functional outcomes (eg, American Shoulder and Elbow Surgeons (ASES), range of motion, disability (Shoulder Pain and Disability Index)), patient reported outcomes (eg, Rotator Cuff Quality of Life, Oxford Shoulder Instability Questionnaire, Quality of Recovery-15 (QoR-15)), and adverse events.

Grant recipients will receive training on the use of the iovera° system and agree to provide data to Pacira at the time of study completion.

The Pacira Grant Review Committee will consider funding awards inclusive of indirect costs for the conduct of the study based on a budget within fair market value.

PROPOSAL SUBMISSION REQUIREMENTS

All requestors must submit a written proposal that addresses the following topics and includes required supporting documentation including:

- Organization’s contact information
- Primary contact name, title, address, phone, and email
- Describe the organization’s current activities relevant to the proposal including current standard of care and patient volume
- Project description and specific proposal objectives
- Available data/information relevant to proposal submission (eg, pilot data)
- Describe how the proposal will improve patient care in alignment with grant objectives
- Proposed timeline for completion with associated deliverables. If possible, attach a flow chart outlining the operational steps of the proposed program.
- Proposed budget that is within fair market value and reflects the scope of responsibilities to accomplish the goals of this project. No funding match is required; however,
requestors will need to identify any other sources of funding, both in-kind and monetary, that will be used.

To apply for a grant, please click here.

A letter of intent on organizational letterhead should be included. The letter of intent should be single-spaced and not exceed four pages (not including the reference page).

**The RFP process**
Pacira maintains a stepwise process for review of RFPs. In brief, after registering on the online grant portal, the principal investigator submits a brief concept proposal and if accepted after a review by the PGRC, will be invited to submit a full proposal. Details on brief and full proposal contents are below.

**Brief concept proposal:**
A brief concept proposal must contain an adequate amount of information for the PGRC to determine interest in requesting a full study proposal. When submitting a brief concept proposal, the following information will be requested (if applicable):

- Principal investigator contact information
- Brief background for the study
- Method of administration of the marketed product
- Primary study objectives/endpoints
- Estimated study timelines
- Estimated total study budget
- Estimated study drug or device(s)
- Preliminary grant request: funding, drug, device, or a combination thereof
- Experience as sponsor-investigator
- Letter of intent on the requesting institution’s letterhead
- Curriculum vitae from the principal investigator dated within the last calendar year

The PGRC will review all concept proposals for scientific merit, innovation, clinical importance/potential impact on patients, and compliance with company policy and requirements. The PGRC will extend contingent approval to individual applicants to proceed to the second step of the process, which is the submission of a full study proposal. Applicants will be notified of the PGRC’s decision via email, and the status will also be available on the portal. Please note that an invitation to submit a full study proposal does not guarantee the approval of funding.
Full study proposal:
A full study proposal submission must contain enough detail about the research study to enable the PGRC to make an evaluation on support. When submitting a full study proposal, the following information will be requested (if applicable):

- Principal investigator contact information
- Study type: non-clinical or clinical
- Objectives: primary and secondary
- Key inclusion and exclusion criteria
- Study design
- Efficacy variables/measures
- Safety variables/measures
- Adverse event/Serious adverse event reporting
- Decision points/statistical methods/interim analysis
- Study product regimens
- Ethical rationale for the study
- Study deliverables
- Value of the study
- Applicable scientific references
- Publication plan
- Research Setting: single-site or multi-site
- Detailed budget
- Grant request: funding, product, or a combination thereof

Pacira reserves the right to reconsider its support if the research objectives outlined in the final protocol are materially different from the approved full study proposal. Pacira will not compensate for any work performed before the execution of a final contract or for impermissible costs, which include:

- Construction funds to build new facilities
- General education and training activities
- Hiring of staff that are not dedicated to the proposed research study
- Study to involve new investigational products or devices
- Studies that are designed to generate business for Pacira
- Purchase of capital equipment unrelated to the study or that would generate revenue
- Requests for support for ongoing or new research without an associated research study protocol
- Start-up funds to establish new clinical or research programs or to expand existing programs
- Support for ongoing clinical programs that are part of an organization's routine operations

PACIRA BIOSCIENCES, INC. CONTACT INFORMATION

If you have questions regarding this RFP, please email grants@pacira.com and include in the subject line shoulder RFP.
CONFIDENTIALITY

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REFERENCES