Cycle 3 2017 Funding Cycle

PCORI Application Guidelines for Pragmatic Clinical Studies To Evaluate Patient-Centered Outcomes

Published October 3, 2017

These guidelines apply to the Cycle 3 2017 Funding Cycle for Pragmatic Clinical Studies To Evaluate Patient-Centered Outcomes PCORI Funding Announcement (PFA). Funding announcements, templates, and other resources are available at http://www.pcori.org/Cycle-3-2017-pragmatic-studies. The Cycle 3 2017 Funding Cycle closes February 6, 2018, at 5 p.m. (ET).
About PCORI

The Patient-Centered Outcomes Research Institute (PCORI) is committed to transparency and a rigorous stakeholder-driven process that emphasizes patient engagement. PCORI uses a variety of forums and public comment periods to obtain public input to enhance its work. PCORI helps people make informed healthcare decisions and improves healthcare delivery and outcomes by producing and promoting high-integrity, evidence-based information that comes from research guided by patients and other stakeholders.

PCORI was authorized by Congress in 2010 as a nonprofit, nongovernmental organization. PCORI’s purpose, as defined by our authorizing legislation, is to help patients, caregivers, clinicians, policymakers, and other healthcare system stakeholders make better-informed health decisions by “advancing the quality and relevance of evidence about how to prevent, diagnose, treat, monitor, and manage diseases, disorders, and other health conditions.”

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What has Changed for the Cycle 3 2017 Funding Cycle:

- New/revised Pragmatic Clinical Studies priority topics – see the PFA’s Appendix
- The Research Plan Template has been updated to include an option section, Ancillary Methodological Study.
I. About These Guidelines

This document provides key information to help researchers prepare for and respond to the Patient-Centered Outcomes Research Institute’s Pragmatic Clinical Studies To Evaluate Patient-Centered Outcomes PCORI Funding Announcement (PFA) available at http://www.pcori.org/Cycle-3-2017-pragmatic-studies/.

These guidelines should answer many questions applicants may have, but the following resources are also available:

- Visit PCORI’s Help Center¹ for applicant resources, common questions about PCORI and the application process.
- For Programmatic Inquiries: Contact the PCORI Helpdesk via email (sciencequestions@pcori.org), phone (202-627-1884), or online (http://www.pcori.org/PFA/inquiry). PCORI will respond within two business days. However, we cannot guarantee that we can address all questions two business days before a Letter of Intent (LOI) or application deadline.
- For Administrative, Financial, or Technical Inquiries: Contact the PCORI Helpdesk at pfa@pcori.org. PCORI will respond within two business days. Note that during the week of the application deadline, response times may exceed two business days. Applicants may also call the PCORI Helpdesk at 202-627-1885.

It is the applicant’s responsibility to submit the application on or before the deadline. Refer to PCORI’s Policy on Submission of Research Contract Applications.²

Administrative Considerations

To ensure a thorough and competitive review process, PCORI strictly enforces the formatting and administrative compliance guidelines outlined in the PFAs, FAQs, and Application Guidelines. Applicants who fail to submit the required documents may be rejected from the merit review process.

All rejection decisions made by Contracts Management and Administration (CMA) are final. Email pfa@pcori.org with any formatting or administrative compliance questions to ensure that your Letter of Intent (LOI) or application will be compliant once submitted to PCORI. See Appendix 3: Administrative Actions.

Unless otherwise stated in the Application Guidelines, all submissions on behalf of an applicant organization are that organization’s property. PCORI will not share or publicize the contents of an organization’s application.

¹ Available at http://help.pcori.org/hc/en-us/.
² Available at http://www.pcori.org/funding-opportunities/how-apply/policy-submission-research-contract-applications/.
PCORI issues contracts, rather than grants, to fund and administer meritorious research. PCORI funds projects that demonstrate the highest probability of being completed on time and within budget and meeting all milestones and deliverables. *Applicants must submit representative budgets and Research Plans that allow the project to conclude within the approved contract term.*

As part of its active portfolio management, PCORI provides contractual and programmatic monitoring throughout the contract term period. To review PCORI’s contract terms and conditions, see PCORI’s standard Contract for Funded Research Projects. Note that international awardees will be issued a contract in U.S. dollars. Fluctuations in currency exchange rates will have no bearing on the contract value, nor will adjustments be made to accommodate losses or gains associated with such currency fluctuations.

II. Who Can Apply

Applications may be submitted by any private-sector research organization, including any nonprofit or for-profit organization; any public-sector research organization, including any university or college hospital or healthcare system; any laboratory or manufacturer; or any unit of local, state, or federal government. The Internal Revenue Service must recognize all U.S. applicant organizations. Nondomestic components of organizations based in the U.S. and foreign organizations may apply, as long as there is demonstrable benefit to the U.S. healthcare system and U.S. efforts in the area of patient-centered research can be shown clearly. Organizations may submit multiple funding applications. Individuals are not permitted to apply. If you have questions about eligibility, email pfa@pcori.org.

**Note:** A Principal Investigator (PI) can only submit one LOI per PFA. However, an individual listed as a PI on one LOI can be listed as and serve in another role (e.g., dual-PI, co-investigator, or consultant) on other LOIs within the same PFA during the same cycle. A PI may submit multiple LOIs to different program PFAs in a cycle, but the PI must ensure that the research topics and projects are not similar. If a PI submits an LOI to multiple program PFAs, LOIs that exhibit scientific overlap or that appear to be duplicate submissions will be disqualified. PCORI will contact the PI and provide him or her with an opportunity to choose the PFA to which he or she would like to apply to. This applies to single and dual-PI submissions.

III. How To Apply

To submit an LOI and application (if invited), including all required documents, follow the instructions provided in these guidelines and on PCORI Online. All documents must be submitted through PCORI Online. Refer to the specific PFA for more information regarding the review process for LOIs and

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4 Available at https://pcori.force.com/engagement.
To submit an application or to register your organization in PCORI Online, you need a Data Universal Numbering System (DUNS) number and an Employer Identification Number (EIN). You can apply for a DUNS number\(^5\) and an EIN\(^6\), if applicable.

**Step 1: Register**

To apply for PCORI funding, an applicant (Principal Investigator [PI] or PI designee) must register in PCORI Online. You must provide a name, an email address, a password, and a security question and answer to register. Once signed in, you will be directed to the home screen. Select the Research Awards tile to apply for funding. PCORI strongly recommends that only the PI create the LOI/application record, because whoever creates the record will have permanent access to it in PCORI Online.

**Step 2: Submit a Letter of Intent**

An LOI is required for new and resubmitted applications. Download the PFA-specific LOI Template from the PCORI Funding Opportunities. For formatting instructions, please reference Step 4.

To submit an LOI you must go into PCORI Online, complete the required fields, and upload the completed PFA-specific LOI into the system. For detailed instructions on how to navigate the system, reference the PCORI Online: Pre-Award User Guide for Research Awards.\(^7\)

**Step 3: Initiate Application Process**

PCORI will notify applicants by the date specified within the PFA as to whether or not they have been invited to submit an application.

The application consists of multiple sections within PCORI Online, all of which must be completed before submission. Log in to PCORI Online to view the full list of questions.

**Step 4: Format and Complete Required Documents**

Required templates are available in the PCORI Funding Opportunities.\(^8\) Find the PFA to which you are applying and download the correct PFA-specific templates, because they vary from PFA to PFA and cycle to cycle. Keep the following in mind:

- Do not reorganize sections within the templates.
- Do not alter the main header questions in the templates.
- You may delete instructional text.

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\(^5\) Available at https://www.dandb.com/credit-resources/duns-number/how-to-get-and-maintain-a-duns-number/.

\(^6\) Available at http://www.irs.gov/Businesses/Small-Businesses-&-Self-Employed/Apply-for-an-Employer-Identification-Number-(EIN)-Online/.

\(^7\) Available at http://www.pcori.org/sites/default/files/PCORI-Online-Pre-Award-User-Guide.pdf.

\(^8\) Available at http://www.pcori.org/funding-opportunities/.
All required documents must be formatted as follows:

- **Header**: Include the PI’s full name on every page in the top-left corner.
- **Font**: Use Calibri size 11. Figures, tables, and captions may be size 8 font.
- **Spacing**: Use single spacing.
- **Margins**: Use at least half-inch margins. The header may fall within the top margin, but the body of the text may not begin closer than a half-inch from the edge of the page.
- **Page numbers**: Each page must be numbered consecutively for each PDF upload. Each section of an uploaded document must begin with page 1.
- **Page limit**: This varies based on the document.
- **File name format**: Refer to the Application Checklist.
- **References**: PCORI suggests including all references as in-text citations using American Medical Association (AMA) citation style, but other citation styles are acceptable.

### Step 5: Upload Required Documents

Follow the Application Checklist included in these guidelines to enter required information.

Upload required documents to PCORI Online in the correct order. When instructed, use Adobe Acrobat Professional⁹ to combine documents into a single PDF file for upload. Within the Templates & Uploads tab, select “Choose file” to select a file from your computer, and then select “Upload.” For detailed instructions, refer to the Templates & Uploads section of the PCORI Online: Pre-Award User Guide for Research Awards.

### Step 6: Submit for Authorization

Once you have completed and uploaded all required information, select “Review & Submit.” Then select “Submit” to forward the application to your Administrative Official (AO) to authorize and submit. The AO must approve and submit the final application for official submission to PCORI before the deadline. **PCORI Online will email the AO, but the PI should notify the AO when the application is ready for review, AO approval, and submission.** The PI and the AO may not be the same individual. Both the AO and the PI will receive an email confirming that PCORI has received the application.

### IV. When To Apply

Deadlines for each funding cycle are noted in the PCORI Funding Opportunities and in the PFA. System or technical issues with PCORI Online affecting the on-time submission of an application must be reported to PCORI before the specified deadline. Problems with computer systems at the applicant’s

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⁹ See adobe.com for more information on Adobe Acrobat Professional.
organization or failure to follow instructions in PCORI Online, the Application Guidelines, or in the PFAs are not valid issues warranting a deadline extension. See PCORI’s Policy on Submission of Research Contract Applications for complete information.

V. What To Include

**Note:** Only applicants selected to submit an application should begin the application process. You will be notified by November 28, 2017, as to whether or not PCORI has invited you to submit an application.

Applicants are encouraged to review this entire section. Print and complete the provided Application Checklist to ensure that you submit the LOI and application correctly. Download all required templates from the PCORI Funding Opportunities.

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10 Available at http://www.pcori.org/funding-opportunities/how-apply/policy-submission-research-contract-applications/.
11 Available at http://www.pcori.org/funding-opportunities/.
<table>
<thead>
<tr>
<th>Letter of Intent</th>
<th>Submission Method</th>
<th>Length/Limit</th>
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</thead>
<tbody>
<tr>
<td>☐ Letter of Intent (LOI)</td>
<td></td>
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<tr>
<td>• Contact Information</td>
<td>Enter into PCORI Online</td>
<td>As needed</td>
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<tr>
<td>• Pre-Screen Questionnaire</td>
<td>Enter into PCORI Online</td>
<td>As needed</td>
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<tr>
<td>• Resubmission</td>
<td>Enter into PCORI Online</td>
<td>As needed</td>
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<tr>
<td>• Principal Investigator (PI) Information</td>
<td>Enter into PCORI Online</td>
<td>As needed</td>
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<tr>
<td>• Project Information</td>
<td>Enter into PCORI Online</td>
<td>As needed</td>
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<tr>
<td>• Project Personnel</td>
<td>Enter into PCORI Online</td>
<td>As needed</td>
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<tr>
<td>☐ Templates &amp; Uploads: LOI</td>
<td>Save file as “PI LastName_(last four digits of LOI number)_LOI.pdf” and upload</td>
<td>3 pages</td>
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<table>
<thead>
<tr>
<th>Application</th>
<th>Submission Method</th>
<th>Length/Limit</th>
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<tbody>
<tr>
<td>☐ Project Information</td>
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<tr>
<td>• Technical Abstract</td>
<td>Enter into PCORI Online</td>
<td>32,768 characters</td>
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<tr>
<td>• Public Abstract</td>
<td>Enter into PCORI Online</td>
<td>32,768 characters</td>
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<tr>
<td>☐ Budget</td>
<td>Enter into PCORI Online</td>
<td>As needed</td>
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<tr>
<td>• Detailed Budget for Each Project Year (prime)</td>
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<tr>
<td>• Budget Summary for Entire Project (prime and subcontractors)</td>
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<tr>
<td>• Peer Review Period (prime and subcontractors)</td>
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<tr>
<td>☐ Milestones</td>
<td>Enter into PCORI Online</td>
<td>As needed</td>
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<tr>
<td>☐ People and Places Template</td>
<td>Save as “PeoplePlaces_PI LastName.pdf” and upload</td>
<td>As noted below</td>
</tr>
<tr>
<td>• Leadership Plan Template (required if proposing dual-PI application)</td>
<td></td>
<td>5 pages</td>
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<tr>
<td>• Professional Profile/Biosketch</td>
<td></td>
<td>5 pages per individual</td>
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<tr>
<td>Section</td>
<td>Pages/Files</td>
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<td>------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td></td>
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<tr>
<td>Patient/Stakeholder Partner Profile/Biosketch</td>
<td>5 pages per individual</td>
<td></td>
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<tr>
<td>Project/Performance Site(s) and Resources</td>
<td>15 pages</td>
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<tr>
<td><strong>Research Plan</strong></td>
<td>Save file as “ResearchPlan_PI LastName.pdf” and upload as a single file</td>
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<tr>
<td>- Research Strategy</td>
<td>15 pages</td>
<td></td>
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<tr>
<td>- Ancillary Methodological Studies (optional)</td>
<td>2 pages</td>
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<tr>
<td>- Research Team and Environment</td>
<td>2 pages</td>
<td></td>
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<tr>
<td>- Dissemination and Implementation Potential</td>
<td>1 page</td>
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<tr>
<td>- Protection of Human Subjects</td>
<td>5 pages</td>
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<tr>
<td>- Consortium Contractual Arrangements</td>
<td>10 pages</td>
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<tr>
<td>- References Cited</td>
<td>10 pages</td>
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<tr>
<td>- Appendix (optional)</td>
<td>10 pages</td>
<td></td>
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<tr>
<td>- Methodology Standards Checklist</td>
<td>As needed</td>
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<tr>
<td><strong>Budget Justification (Prime and Subcontractors)</strong></td>
<td>Save file as “BudgetJustification_PI LastName.pdf” and upload</td>
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<tr>
<td>- Federally Negotiated or Independently Audited Indirect Cost Rate</td>
<td>As needed</td>
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<tr>
<td>Letter (prime contractor)</td>
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<tr>
<td>- Fringe Benefit Rate Policy Verification Document (prime contractor)</td>
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<tr>
<td><strong>Letters of Support</strong></td>
<td>Save as “Letters_PI LastName.pdf” and upload</td>
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<tr>
<td>- Letters of Support Table</td>
<td>As needed</td>
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<tr>
<td>- Letters of Support</td>
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<tr>
<td><strong>Resubmission Letter (if appropriate)</strong></td>
<td>Save file as “Resubmission_PI LastName.pdf” and upload</td>
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<td>2 pages</td>
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You must submit an LOI before you complete your application. Enter the information in the required fields in PCORI Online.

Upon receipt of LOIs, PCORI program staff will review them for programmatic fit and potential overlap with existing projects in the portfolio. PCORI will not invite an applicant to submit an application if the applicant’s LOI does not meet program areas of interest or substantially overlaps with existing projects in the portfolio. Applicants will receive an email notification accepting or declining their LOI, as specified in the PFA.

**Resubmission Policy**

An applicant may resubmit an application that was not funded and that completed PCORI’s merit review process (i.e., the applicant received a summary statement). PCORI does not limit the number of times an applicant may resubmit.

If a full application was deemed nonresponsive and did not progress through the full merit review process, it is considered a new submission and requires submission of an LOI. Submitting the same application to a different program’s PFA is also considered a new submission. Each program’s PFA has different requirements; therefore, applicants should carefully review the program-specific PFA to which they are applying.

Submitting an LOI is also a requirement of resubmissions unless the applicant has received an Invitation to Resubmit, outlined below).

**Invitation To Resubmit**

Program staff may invite applicants from previous cycles to resubmit their revised applications. If invited, applicants will bypass the LOI review stage. Instead of completing and uploading an LOI Template, invited applicants are required to upload their Invitation to Resubmit letter and complete the PCORI Online LOI questions by the LOI submission deadline. Unless the applicant has explicit and documented approval from the program staff to alter the originally submitted study aims of the application, the invited resubmission application’s aims should remain the same as in the original application.

An Invitation to Resubmit is not a guarantee that PCORI will select the application for funding. Invited applicants must adhere to the updated guidance in the PFA and compete with other invited and new applicants.

**PI and Contact Information**

PCORI refers to three specific roles with particular responsibilities. Keep the following in mind as you complete this section:
A. Description

- If electing to submit an application with two PIs, one PI must be the Contact PI. The Contact PI is responsible for submitting the application serves as PCORI’s primary point of contact for all communication. **No more than two PIs can be named on an application.**
- The PI is responsible for the project’s engagement, scientific, or technical aspects, as well as the project’s peer-review-related activities.
- The Contact PI’s institution must be the primary institution for the award.
- PIs can participate in other applications (from the same or another organization) in the same or a different role, such as dual-PI, co-investigator, or consultant. Refer to the **Who Can Apply** section for specific instructions.

B. Activities

- The PI assumes responsibility and accountability for research execution, compliance, and organization conduct.
- If applicable, the Contact PI is responsible for submitting the application, submitting all progress reports, and serving as PCORI’s programmatic and administrative contact. PCORI will send all of its communication to the Contact PI, and it is his or her responsibility to share PCORI communication with PI #2.
- The PI manages day-to-day project operations.
- The PI acts as the organization’s lead research representative.

**Administrative Official (AO)**

A. Description

- The AO is responsible for matters related to contract award and administration.
- The AO cannot be the PI.
- The AO’s signature certifies that the organization will be accountable for appropriately using the funds awarded and for performing the PCORI-supported project.

B. Activities

- The AO manages contract activation, modifications, and additional required administrative matters.
- The AO certifies contract compliance of all applicable assurances and certifications referenced in
Financial Official (FO)

A. Description

- The FO is responsible for all required financial reporting.

B. Activities

- The FO completes and certifies expenditure reports on behalf of the organization.
- The FO accounts for contract funds and submits invoices and payment details.

Key Personnel

PCORI identifies key personnel as any individual who is critical to the project’s scientific development and execution in a measurable way and whose absence from the project would affect the likelihood of success.

Note the following:

- Applications can include up to two PIs.
- PIs can serve in other roles (e.g., dual-PI, co-investigator, or consultant) on other applications.
- If applicable, applicants must explain the rationale for including two PIs in the Leadership Plan Template.
- Consultants and personnel from collaborating organizations may be included as key personnel if they meet the definition. See the Glossary for “Consultant” and “Subcontractor” definitions.
- Project Directors, or equivalent, are key personnel.
- Applicants must identify any patient and other stakeholder partners, whether individuals or organizations, that will assist in conducting the project. If your project is funded, these partners will be named on the PCORI website along with the PI and the recipient organization. PCORI may also recognize them in other communications, such as press releases, or mention them in response to requests for information. Although PCORI does not require partners’ names at the time you submit your application, if you already have patient or other stakeholder partners—whether individuals or organizations—you must provide these names to PCORI in your application. By providing the names of the partnering individuals and organizations, you acknowledge that you have obtained any required permission or consent from the respective partners to disclose their names to PCORI and to permit us to make their names publicly available. If a patient or other stakeholder partner wishes to remain anonymous, please email us at pfa@pcori.org for additional guidance on how to recognize such partners appropriately.
- Post-merit review, PCORI may request current, pending, and other support documentation from all key personnel. You must submit this material prior to award.
If awarded, the addition or replacement of key personnel listed in the submitted application requires PCORI’s approval during contract negotiation and post-contract execution.

**PFA-Specific LOI Template**

Download and complete the [Pragmatic Clinical Studies LOI Template](#) from the [PCORI Funding Opportunities](#). Do not include supplemental materials (e.g., supporting journal articles and Letters of Support) or additional information not requested in the template (e.g., responses to reviewer comments or Resubmission Letters). Replace the questions on the template with your responses, but retain the question numbers. **Note that any additional template modifications will result in disqualification of your LOI.**

LOIs are competitive, and PCORI staff will screen them. The information included in this template is the primary source of information for the screening process. Focus on including only critical information because space is limited. Provide a description that allows the scientific community to understand the project, including the aims and study design, without reviewing the full application. References will not be included within the three-page limit. PCORI suggests including all references as in-text citations using AMA citation style, but other citation styles are acceptable. (Note: All LOI Templates must follow the formatting guidelines provided in Step 4.)

**Note the following:**

- Aside from removal of the questions under each section header, no other modifications may be made to the template. Any modifications will result in administrative withdrawal of the LOI.
- Do not include figures or general tables. You may only include tables for power calculations.
- Do not upload supplemental materials, such as supporting journal articles and Letters of Support, or additional documents as part of your LOI, because they are not requested at this stage. Their inclusion will result in LOI rejection without review.
- Delete the template cover page before submitting an LOI. To submit an LOI, save the completed PFA-specific LOI as a PDF. Label your LOI file using the following nomenclature: “PI LastName_(last four digits of LOI number)_LOI.pdf.” An LOI number will generate automatically and be visible at the top of the page in [PCORI Online](#) once you save the LOI. Select “Review & Submit” to review your submission, and then select “Submit.” Navigate back to the LOI and Application dashboard in PCORI Online where you can see your LOI number and track your status. You cannot edit after submitting.
- If you are resubmitting your LOI, highlight or boldface the changes made since your original submission. Do not include the Resubmission Letter Template or exceed the three-page limit.
- For the Budget Justification on total direct costs, an answer such as “will not exceed $10 million” will be deemed nonresponsive because it lacks justification.

PCORI qualitatively evaluates LOIs using the following criteria:
• Importance and relevance of the topics to PCORI priorities, as evidenced by critical gaps in decision making identified by clinical guidelines developers and recent, relevant systematic reviews

• A sufficient size and scope to create a significant impact on patient outcomes and healthcare practices

• Clarity and credibility of applicants’ responses to the LOI questions and justification of the need for a large pragmatic study, including the rationale for the estimated sample size, citing published estimates that include effect sizes and standard deviations and explaining whether the sample size is sufficiently large to permit a valid and rigorous comparative analysis of important subgroups

• Prior relevant experience

• Programmatic fit and balance, considering whether the proposed study significantly overlaps with previously funded studies or concurrent applications or, conversely, whether the application fills a gap in the portfolio of proposals with certain characteristics, including disease category, topics, priority population, and methodologies

Note: PCORI does not assign scores to LOIs.

For those rare circumstances in which the estimated total direct costs exceed $10 million, provide in your LOI a detailed justification that ties the extra expense to the project’s success. Note that PCORI will deny any request for a project period longer than five years.

VI. Application Requirements

The following sections are applicable only if you have been invited to submit an application.

You are invited to submit an application based on the information you provide in the LOI. Any changes to the following require PCORI approval:

• PI (Contact PI and PI #2)
• Institution
• Study design
• Research question(s)
• Specific aims
• Comparators

If you need to change any of this information or have any questions, email pfa@pcori.org.

PI and Contact Information

Review information transferred from your LOI, and update as needed.
Enter the following information directly into PCORI Online.

**Technical Abstract**

Provide a technical abstract in PCORI Online that summarizes your Research Strategy. The abstract must include the following sections:

- **Background and Significance**: State the problem or question the research is designed to address.
- **Study Aims**: Briefly describe the specific aims of the study, including specific research questions and long-term objectives.
- **Study Description**: Provide a detailed description of the study design. Include, as applicable:
  - Overall study design
  - Main components of the intervention and comparator(s)
  - Study population (source, inclusion criteria, demographic information, clinical status, and target sample size by arm)
  - Primary and secondary outcomes
  - Analytic methods

**Public Abstract**

Provide a description of your project, written in lay language that the general public will understand. Include the following:

- Description of the problem your project seeks to solve
- Outcomes you hope to achieve
- Brief background on why this project is important to patients
- Explanation of how patients and other stakeholder partners will help to make the project successful

This summary should be comprehensible to a variety of audiences. Scientists, patients, and stakeholders will review it during the merit review process. Public abstracts from applications that are awarded a contract will be posted on PCORI’s website. The names of the individuals and organizations that comprise the research team, including patient and stakeholder partners, will also be posted on PCORI’s website, as described in the Key Personnel section above.
Complete all required sections in the Milestones/Deliverables tab in PCORI Online. Milestones are concrete, specific events or accomplishments that are documented by deliverables. They include only the activities that the PCORI contract supports. Some examples of milestones include reaching specific patient accrual targets, developing a survey, commencing the intervention, and establishing project-specific databases. See Appendix 1: Example Milestones for a more complete list. If applicable, milestones may also include activities dedicated specifically to engagement, such as the recruitment of all patient/stakeholder research partners, results of annual surveys of patient/stakeholder partners, or meeting minutes of patient/stakeholder advisory councils conducted under the contract.

The following milestones should be included, as appropriate:

- Copies of Institutional Review Board (IRB) approval
- Formation of a Study Advisory Committee (SAC)\(^\text{12}\) or other appropriate engagement body
- Minutes of Data and Safety Monitoring Board (DSMB) meetings
- Study registration at ClinicalTrials.gov
- Final study protocol
- Expected monthly enrollment for the entire duration of recruitment, taking into account expected variation in recruitment throughout a calendar year
- Questionnaire/tool
- Interim analyses
- Final analyses
- De-identified data sets, analytic data sets, and codebook
- Interim progress reports
- Final report

You must provide at least one deliverable to PCORI during each three-month period of the project, at least for the first two years. After the first two years, at PCORI’s discretion, you may submit the

\(^{12}\) The intent of the SAC described in the PFA is to ensure that a broad spectrum of patients and other stakeholders advise and assist the research team with refining the study questions, outcomes, and protocols. These patients and other stakeholders must include national or regional organizations that represent—at a minimum—patients, caregivers, clinicians, policy makers, and other healthcare system stakeholders. PCORI may recommend additional representation in collaboration with the applicant, including individual patients with lived experience and other relevant stakeholders, such as scientific and methodological experts. However, PCORI understands that engagement structures and approaches vary widely. Other engagement approaches, such as forming stakeholder groups, panels, task forces, working groups, and other bodies, or involving individual patient and other stakeholder partners in various ways are also permissible to employ—either in addition to or instead of—the formation of the SAC. The SAC provision is not meant to require that a separate governance or advisory entity be established beyond the study governance and advisory structure the awardee has planned, if an applicant already has an approach for including the relevant and required patient and other stakeholder partners. For clarification in your application materials and for merit review purposes, please indicate which body or structure is filling the SAC requirements, including the requirements for in-person meetings at least two times per year and appropriate budgeting.
deliverables during each six-month period. We will use the proposed milestones to determine whether project progress is appropriate to the timeline. If PCORI awards your application a contract, the final agreement will include required deliverables.

If PCORI funds your application, your research contract will include interim and final deliverables. Please note that PCORI reserves the right to request additional deliverables during the life of the project.

Examples of deliverables that PCORI may require following contract execution include but are not limited to the following:

- Copies of IRB approval
- Abstracts accepted or presentations made
- Manuscripts accepted for publication
- Meeting minutes from patient and other stakeholder advisory panels, committees, or work groups
- Copies of drafts of instruments, data dictionaries, educational materials, manuals, or other project deliverables
- Copies of newsletters from patient and other stakeholder partner organizations highlighting the project
- Reports of endorsement of research findings by scientific and consumer groups
- Reports of plans to adopt research findings in practice
- Charts, tables, graphs, or other summaries of preliminary data
- Registration of the trial on ClinicalTrials.gov
- DSMB meeting recommendations
- Other documents or materials, as appropriate

Note: Milestones entered into PCORI Online must include specific deliverables associated with a timeline and must also include project objectives to be accomplished at specific times during the proposed project.

Budget

Complete all required sections in PCORI Online, including the Peer-Review Budget section, and upload the Budget Justification to PCORI Online as a single PDF. Do not upload separate budget files for subcontractors. Include all subcontractor budget files within the prime applicant’s budget information.

Detailed Research Project Budget for Each Year of the Research Project Period

For each program year, complete a Detailed Budget for the prime applicant in your application. For example, if your study lasts two years, the prime applicant must complete a Detailed Budget for Year 1
Applicants must enter all personnel information in the Project Personnel tab corresponding to that year in the Budget tab. The applicant may add additional rows for personnel as needed. Following the example of a two-year study, applicants may delete the unused Years 3–5 Detailed Budget tabs. However, applicants may not add additional years. Each PFA states the maximum project periods. Note the following:

A. Personnel Costs

- **Personnel Costs:** These include the base salary for each scientific and technical staff member, employee patient or other stakeholder partner, or other personnel on your project that are or are not accounted for in Section B: Consultant Costs. Provide a clear distinction between individuals who are key personnel and those considered “other” personnel.

- **PCORI will reimburse personnel costs that are consistent with and do not exceed what the applicant would normally pay under its own policy. PCORI may request salary verification during the contract activation process. Such compensation may include salaries and fringe benefits. See Appendix 2: Allowable and Unallowable Costs for more information.**

- **Salaries include wages earned by an employee, and fringe benefits may include insurance and retirement plans. Provide documentation to support the fringe benefits with the Budget Justification.**

- **Level of Effort:** Personnel contributing to a PCORI-funded research project are expected to monitor their total percent effort across all of their active funding so it does not exceed 100 percent. Before submitting the application to PCORI, the AO must certify that individual personnel will not exceed 100 percent effort, if funded. You must report effort by the percentage of time over the course of the project year. If you are not requesting salary support, use $0 for the base salary.

- **Applicants must list all personnel dedicating effort to the project on the personnel budget with their level of effort, even if they are not requesting salary support. List the base salary for each person in the Budget Justification and Detailed Budget. Describe the individual’s specific functions in the Budget Justification. Provide an explanation of how the role supports the project aims and note any overlap in job functions.**

- **Salary Cap:** The PCORI base salary cap for personnel is $200,000 annualized per individual, per year, exclusive of fringe benefits. An individual who earns less than $200,000 must use his or her actual base salary to calculate personnel costs. An individual with a full-time employee base salary of more than $200,000 must use $200,000 as the base salary rate in determining the amount of salary and time to charge to the project.
Fringe Benefits: These costs are calculated based on the institution’s own policy. In the Budget Justification upload, applicants must provide a verification of the fringe benefit rate policy for the prime organization.

**Note:** Personnel costs must account for the level of effort required to initiate and complete the mandated Peer-Review Process. See the Detailed Peer-Review Budget for Peer-Review-Related Costs section for additional instructions.

**B. Consultant Costs**

- Consultant costs apply to those individuals who are not employees of the applicant organization or under a subcontract agreement as members of the contracted staff.
- You must include payments to nonemployee patient and stakeholder representatives in the budget as consultant costs.
- Provide the total cost of consultant(s), their names, expected number of hours, and hourly rate.
- Include the daily consultant fee, travel expenses, nature of the consulting effort, and why the proposed project requires consultants. Note any overlap in duties with personnel.
- Consultant costs must be reasonable and justified within the Budget Justification.
- Include Letters of Support from each consultant, verifying the work to be performed and how you established the negotiated rate. See the Letters of Support section for more detailed information.

**C. Supply Costs**

- Supplies must be directly allocable and allowable to the proposed project and not part of general or administrative use. Supplies are consumable items used on a regular basis or other tangible items that do not meet the definition of “equipment.” Include the category of supplies needed and the cost for each.
- Tangible items with per-unit costs of $5,000 or more are considered equipment and cannot be accounted for under this category.
- Indicate general categories such as mailings, printing, lab, and equipment with less than $5,000 per-unit cost. Provide detailed explanations for all costs exceeding $1,000 in the Budget Justification.
- For all supply costs, provide computations for the way that applicants arrived at the specific number.

**Note:** PCORI considers computers, tablets, docking stations, mobile data and protection plans, laboratory and office furnishings, and software to be general office supplies that are not allowable as direct-cost charges. If you propose these items as being essential for performing the research project, you must provide the following in the Budget Justification:
Detailed explanation of why purchasing these items is necessary to complete the proposed research project

Statement verifying that the requested items are not currently available for the PI’s use

Statement assuring that the items will be purchased in accordance with applicable cost principles

You may not use items purchased under PCORI-funded projects as incentives to recruit or retain graduate students or any other project personnel.

D. Travel Costs

- Travel may include any domestic or international travel by project personnel or consultants directly related to, and necessary for, the project and within the limits explained below. PCORI uses the Federal Travel Regulations guidelines for per diem and other reimbursements.

- You must itemize travel costs per trip and describe them as for either scientific travel or programmatic travel, as outlined below.
  
  o Scientific travel includes travel to present at conferences, symposiums, and similar events. Scientific travel is capped at $10,000 over the life of the project. This cap is inclusive of the prime and all subcontractor scientific travel costs.
  
  o Programmatic travel includes travel needed to conduct the project (e.g., focus groups, project team meetings, and data collection). PCORI closely reviews all travel costs for reasonableness.
  
  o Airline or rail costs cannot exceed the customary standard commercial fare (coach or equivalent) or the lowest commercial discount fare. PCORI will not compensate upgrades.

- For each travel category (scientific and programmatic), provide the number of trips and a brief description of the trips, including the number of people traveling and dates or duration of the stays.

- In the Budget Justification, applicants must provide additional detail to explain the basis for the costs listed and describe how the travel is related to the proposed research project and necessary for achieving programmatic objectives.

E. Other Expenses

- Indicate and include general categories, such as printing, publication, illustration costs and non-consulting service contracts, when applicable.

- Use this section to include direct costs that cannot be accounted for in other budget categories. For example, these costs may include warranties, computer services, data warehousing, study subjects’ travel costs, or participation incentives.
• In the space provided, include a detailed explanation for all costs exceeding $1,000. Applicants must provide further detail for each of these costs in the Budget Justification.

F. Equipment Costs

• Equipment costs include tangible items that have a per-unit cost of $5,000 or more and a useful life greater than one year.
• You must include up to three quotes for each item of proposed equipment with the Budget Justification.
• Costs must be reasonable and necessary for the project.

Note: Title to equipment vests with the recipient organization. PCORI, at its discretion, may require applicants to share or transfer equipment to other PCORI-funded projects within the recipient organization. PCORI must approve equipment disposition.

G. Subcontractor Costs

• This category includes all consortium and contractual costs. The prime awardee must issue a subcontract agreement to a collaborator if the criteria listed below are met:
  o The subcontractor personnel’s effort on the project is calculated as part of his or her “professional time” for his or her employer organization.
  o The subcontractor will be using significant resources (e.g., office space, supplies, computers, and personnel) at his or her own organization when working on the PCORI-funded project.
• State in the Budget Justification why you selected each subcontractor. Provide details on their specific role and the aim or deliverable they will be supporting on the project.
• Subcontractors must adhere to all PCORI budget guidelines, including allowable and unallowable costs.

H. Engagement Costs

• The budget should account for patient and other stakeholder partner (individual and organizational) compensation. For additional guidance, please review PCORI’s Compensation Framework.13
• Each awardee must form a SAC or other appropriate engagement body, which will meet regularly in person at least two times per year and use virtual communications at other times. These should be budgeted activities and represented in the project milestones.
• Awardees should also consider costs of patient and other stakeholder expenses, project staff,

engagement event and meeting costs, and incorporating partner feedback. For additional guidance, please review PCORI’s Budgeting for Engagement Activities \(^{14}\) document.

I. Indirect Costs

- PCORI limits the total indirect costs to 40 percent of personnel, consultant costs, travel, supplies, and other expenses and on the first $25,000 of each subcontract.
- Applicants who do not have a federally negotiated or independently audited indirect cost rate may assess up to 10 percent indirect costs, to be noted in the Budget Justification.
- Foreign applicants are eligible for no more than 10 percent indirect costs.
- The application must include a copy of the prime applicant’s Federally Negotiated or Independently Audited Indirect Cost Rate letter. Include these copies in a single file with the Budget Justification.
- In the event that an indirect cost rate agreement is more restrictive than that of PCORI’s accepted indirect cost application, we will allow the applicant to use the less-restrictive rule when calculating indirect costs on submitted budget categories.
- Although consortium indirect costs must be noted in the prime applicant’s direct-cost budget, consortium indirect costs are not included in the applicant’s direct-cost budget cap.

Detailed Peer-Review Budget for Peer-Review-Related Costs

The detailed Peer-Review Budget must include costs related to the Peer-Review Process. Note that the Total Budget will include the Peer-Review Budget and the Research Project Budget when determining compliance with the Maximum Project Budget in the PFA.

- The Peer-Review Budget is a firm-fixed amount paid at delivery of the Final Research Report. PCORI will not authorize any modification to the firm-fixed amount once it approves the Peer-Review Budget.
- PCORI limits costs associated with the Peer-Review Process to personnel, consultants, and subcontractors.
- Include a Budget Justification for the Peer-Review Budget.
- The Budget Summary must include the Peer-Review Budget.
- The PI has full discretion in identifying peer-review support personnel.
- The PI must dedicate measurable effort in support of the Peer-Review Process.
- Applicants must identify the peer-review support staff role within the budget at the time of submission.

\(^{14}\) Available at http://www.pcori.org/sites/default/files/PCORI-Budgeting-for-Engagement-Activities.pdf.
Budget Summary for Entire Project

Complete a Budget Summary for the entire project for the prime applicant and each subcontracted organization, and for the entire Research Project Budget and Peer-Review Budget for all research and peer-review-related costs. See Appendix 2: Allowable and Unallowable Costs to review acceptable and unacceptable uses of PCORI funding.

Budget Justification

Complete a Budget Justification for the prime applicant and each subcontracted organization for the entire Research Project Budget and Peer-Review Budget for all research and peer-review-related costs. Provide sufficient detail to explain the basis for costs, the reason that the costs are necessary to the project, and the reason for major cost variances. Include information about budgeting for engagement, including financial compensation of patient and other stakeholder partners; costs of patient and other stakeholder expenses; project staff; engagement event and meeting costs; incorporating partner feedback; and costs related to the SAC or another appropriate engagement body. Please note that some projects employ or assign an individual responsible for coordinating or managing all project-related patient and other stakeholder engagement. This person should be listed as a Full-Time Equivalent under personnel, consultant, or subcontractor costs. Explain the basis for travel costs, and describe how the travel relates to the proposed research and is necessary for achieving programmatic objectives.

Describe the specific role and tasks each research team member will perform and the impact on the Project Plan. PCORI will evaluate each member’s contribution as listed in the Budget Justification to validate meaningful contribution and whether there is overlap in responsibilities. Provide a clear distinction between individuals who should be key personnel and those who should be “other” personnel.

Specify any other sources of funding, currently available or anticipated, to support the proposed research project. Include funding amounts and the period during which the funding will be available. Use continuation pages as needed.

Applicants proposing use of an existing research network infrastructure, research consortia, or related data resources must provide documentation supporting the involvement of network leadership throughout the study (e.g., budgets, Budget Justification that covers the costs of the network’s efforts).

Applicants must include an overall organizational chart (example below) indicating the roles and relationships of project personnel and including their titles/functions and percentages of effort. As determined by the needs of the study, this chart must include the project PI, individual site PIs, the Data Coordinating Center, statistical analysis team, advisory panels, DSMB, and personnel coordinating and managing data collection. Provide separate charts as needed for such components as individual sites, the Data Coordinating Center, and so on, if these involve multiple personnel. If the percentages vary by contract year, provide separate charts for each version. The budgetary information provided with the application must reference the organizational figures to facilitate PCORI’s review.
Research Plan Template

Complete all required sections in the Research Plan Template and upload as a single PDF to PCORI Online. The Research Plan includes the Research Strategy, Methodological Ancillary Study (optional), Dissemination and Implementation Potential, Protection of Human Subjects, Consortium Contractual Arrangements, References Cited, and an Appendix (optional).

Research Strategy

In this component of the Research Plan (up to 15 pages), applicants must describe their Research Strategy and work plan in detail and demonstrate how the proposed study responds to this PFA. This component also shows where merit reviewers may expect to find information to evaluate each of the merit review criteria delineated in the PFA. The Research Strategy addresses the following sections: (A) Specific Aims, (B) Background, (C) Significance, and (D) Study Design or Approach.

Per the PFA, applicants proposing use of an existing research network infrastructure (e.g., the National Patient-Centered Clinical Research Network [PCORnet]), research consortia, or related data resources (e.g., electronic medical records data from healthcare delivery systems or administrative claims data from public or commercial insurers) should address this with sufficient specificity in the Research Plan, as appropriate.

Applicants must complete the PCORI Methodology Standards Checklist and upload it as a single PDF with the Research Plan Template to PCORI Online. Applicants must complete column D of the checklist, using the drop-down menu options to indicate whether each PCORI Methodology Standard applies to their proposed research. Applicants must complete the subsequent columns, as appropriate, following the instructions in the checklist. If the standard applies, in column E provide the page number and section of your Research Plan where the text illustrates how you addressed the standard. Lastly, in column F,
indicate whether your study may deviate from the standard and provide a rationale. Refer to the PCORI Methodology Report for explanations about the standards.

**Adherence to PCORI Methodology Standards**

Applicants must adhere to PCORI Methodology Standards and accepted best practices. PCORI Methodology Standards include 48 individual standards that fall into 12 categories. The first five categories are cross-cutting and relevant to most patient-centered outcomes research (PCOR) studies. Researchers must refer to all of these standards when planning and conducting their research projects. These five categories are:

- Standards for Formulating Research Questions
- Standards Associated with Patient-Centeredness
- Standards on Data Integrity and Rigorous Analyses
- Standards for Preventing and Handling Missing Data
- Standards for Heterogeneity of Treatment Effect (HTE)

In addition to these five sets of standards, the first standard listed under “Standards for Causal Inference Methods”—(CI-1)—is cross-cutting and applicable to all PCOR studies.

The seven other standards categories will be applicable to certain study designs and methods. Applicants should use the standards in each of these categories for guidance when they are relevant to a study. These seven categories are:

- Standards for Data Registries
- Standards for Data Networks as Research-Facilitating Structures
- Standards for Causal Inference Methods
- Standards for Adaptive and Bayesian Trial Designs
- Standards for Studies of Medical Tests
- Standards for Systematic Reviews
- Standards for Research Designs Using Clusters

Applicants should consider these standards as the minimum, and address additional best practices, including guidelines for conducting clinical trials developed by other organizations, in their applications.

All applicants must specifically discuss their capacity to measure such factors as differential adherence to chosen treatments (or participation in intervention programs) that could result in differences in the effectiveness of the alternative interventions being compared in clinical populations.

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As instructed in the Research Plan Template, complete the PCORI Methodology Standards Checklist summarizing adherence to the relevant PCORI Methodology Standards. Do not address standards that are not applicable to your study.

PCORI program staff will review relevant standards and plans for adherence with the research team during the contract negotiation phase for applications that are awarded funding.

Within the Study Design or Approach (section D), applicants must outline how patients and other stakeholders will participate as partners in various phases of the proposed research. Before applicants complete this section of the Research Strategy, PCORI encourages them to review the Engagement Rubric, which can be found in the PCORI Funding Opportunities. Applicants should also review the PCORI Methodology Standards Associated with Patient-Centeredness and PCORI’s Sample Engagement Plans. The rubric and Sample Engagement Plans are not comprehensive or prescriptive; instead, they provide a variety of options to incorporate engagement, where relevant, into the research process.

PCORI expects applicants to consult with patients and other stakeholders on their decisional dilemma and evidence needs, or to reference previously documented decisional dilemmas in preparation for the submission of LOIs and applications. To describe the decisional dilemma, state the specific clinical decision(s) or treatment choice(s) the decision makers confront, and explain how the findings from the proposed research will inform those decisions. State why this decision—such as choosing a specific medication, surgical approach, or care delivery strategy to treat a condition or manage a specific population—is important to patients. Document the uncertainty patients and other stakeholders face when making this decision. Identify the patients and other stakeholders you consulted when determining that the proposed study addresses their evidentiary needs for decision making, and indicate your commitment to continue engaging them actively in the study. Similarly, applicants should document how the project outcomes are especially relevant and meaningful endpoints for patients and other stakeholders.

For this PFA, applicants do not have to demonstrate that patients and other stakeholders are already engaged as research team members at the time an application is submitted. However, the Engagement Plan should outline how patients and other stakeholders will participate as partners in various phases of the proposed research, once awarded. Applicants should describe their plan to form a SAC, or other appropriate engagement body, to ensure that a broad spectrum of patients and other stakeholders advise and assist the research team with refining the study questions, outcomes, and protocols. These patients and other stakeholders must include national or regional organizations that represent—at a minimum—patients, caregivers, clinicians, policy makers, and other healthcare system stakeholders. Additional representation may be recommended in collaboration with PCORI, including individual patients with lived experience and other relevant stakeholders, such as scientific and methodological experts. The SAC or other appropriate engagement body should meet in person at least two times per year, and the budget should account for these engagement costs.

PCORI understands that engagement structures and approaches vary widely. Other engagement approaches, such as forming stakeholder groups, panels, task forces, working groups and other bodies, or involving individual patient and other stakeholder partners in various ways, are also permissible to employ—either in addition to or instead of—the formation of the SAC. For clarification in your application materials and merit review purposes, please indicate which body or structure is filling the SAC requirements, including the requirements for in-person meetings at least two times per year and appropriate budgeting.

**Justification of Assumptions**

PCORI specifically seeks studies that are powered to detect meaningful effects. Applicants must justify the proposed sample sizes by explaining the assumptions used in all study power calculations. For example, the application must state all the necessary assumptions, such as the outcome(s) on which the power calculations are based, the estimated difference in the effect size between study arms, the standard deviation of the effect size measure, the type I and II error rates, and any other assumptions. All such estimates must be justified by referring to prior published research or preliminary data.

**Ancillary Methodological Studies (Optional)**

For this section (up to two page), PCORI encourages, but does not require, the inclusion of appropriate ancillary studies that leverage opportunities in the design, execution, and analysis of the proposed large pragmatic clinical studies to address important methodological issues in the context of PCOR/CER. These ancillary methodological studies could include, but are not limited to:

- Comparison of alternative (and potentially more efficient) approaches for measuring and longitudinal monitoring of important patient-centered outcomes
- Evaluation of novel yet practical approaches for incorporating patient preferences into outcome assessments, often necessary in practice-based pragmatic clinical studies
- Evaluation of approaches for expanding sample sizes in efficient ways, such as through the use of distributed data networks and common data models
- Evaluation of methods for recruitment and retention of study participants (e.g., methods to increase recruitment and enrollment of underrepresented populations, methods to reduce attrition)
- Development of methods to integrate research activity into typical clinical practice environments, including evaluations of the effect of clinical research on workflow and data acquisition
- Evaluation of approaches for conducting text mining or natural language processing as innovative methods to measure both patient care and patient outcomes

Applications that seek to include an ancillary methodological study as an integral part of the proposed PCS study should adhere to the following guidance:
• The primary study aims should address the comparative effectiveness of discrete interventions.

• The methodological question should be structured and proposed as a separate and distinct ancillary study but materially related to the main CER questions and particular study design/execution/analysis of interest. The LOI should indicate the intent to include this ancillary methodological study.

• Applications proposing an ancillary methodological study should provide a detailed discussion of the proposed ancillary methodological study (in the Research Plan Template’s Ancillary Methodological Study section). PCORI reserves the right to recommend the study addressing the main CER question for funding but not the ancillary methodological study.

• The amount allocated to the ancillary methodological study cannot exceed 5% of the total direct amount with a maximum allowable amount of $250,000 within the maximum project budget of $10 million (direct costs). Applicants are also required to detail the budget justifications associated with the proposed methodological study.

Note that PCORI is not interested in secondary methodological aims that propose the following:

• Development of newly conceived clinical tools (including prediction or prognostication tools) or programs

• Development of software to promote adoption of existing/established methods or modestly refined methods

• Statistical and computing support packages developed as a by-product of the methodological research are permissible, but the development of software in and of itself does not constitute an ancillary methodological study

Research Team and Environment

While completing the Research Team and Environment component (two pages), applicants must describe the research team’s capabilities to accomplish the goals of the proposed research project and the appropriateness of the research environment to conduct the study. Applicants must also describe:

• How and why they selected those research sites

• How they tie back to the research project

• The resources, facilities, support, and collaborations available to ensure the project’s success

• If multiple sites are involved, prior experience that demonstrates the likelihood of working together successfully (e.g., past data sharing, IRB reciprocity, or other factors) to facilitate efficient conduct of the study

• Ways in which the project will benefit from the research environment’s unique features or from community involvement

• How sites will work together to ensure that milestones will be achieved
• Institutional and community investment in the success of the research, such as the availability of organized peer groups

• Logistical support, such as administrative management and oversight, and best practices training

• Financial support, such as protected time for research with salary support

• Access to and support of patient groups

Provide all key personnel professional and partner profiles/biosketches and detailed site descriptions within the People and Places Template as a separate PDF upload.

**Dissemination and Implementation Potential**

In this component (up to one page), applicants should describe (A) their plans for making results available to study participants (as applicable) and (B) possible barriers to disseminating and implementing their work in other settings and any other study limitations that could influence the usability of findings (e.g., propriety issues, applicability, scalability, and appropriate settings of care).

Beyond making results available to study participants (as applicable), PCORI does not expect awardees to budget for dissemination and implementation work at this point. However, be sure your proposed budget is consistent with supporting these plans. For projects that produce important findings, PCORI will consider subsequent applications for funding to support dissemination and implementation efforts through separate PFAs and other mechanisms.

**Note:** PCORI encourages researchers to submit documentation of any implementation agreement with the sponsoring organization confirming that the organization will implement successful interventions on a large scale. This agreement will be viewed as a positive factor during merit review. Include this with the Letters of Support PDF document as the last item.

**Protection of Human Subjects**

In this component (up to five pages), describe the protection of human subjects involved in your research. PCORI follows the Federal Policy for the Protection of Human Subjects (45 CFR part 46), including the Common Rule. For more detailed information, see Section 5, titled “Human Subjects Research Policy” from the Supplemental Grant Application Instructions for All Competing Applications and Progress Reports,¹⁸ issued by the U.S. Department of Health and Human Services (Department of HHS). Refer to the Required Education of Key Personnel on the Protection of Human Subject Participants requirement as you complete this section.

All PCORI applications that involve interventions with human subjects should include a Data and Safety Monitoring Plan. Depending on the anticipated level of risk associated with the proposed study intervention(s), different approaches and options, including a full external DSMB, might be required. The plan that the applicants submit should provide justification of the proposed option in accordance with

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the expected risk to human subject research participants.

Consortium Contractual Arrangements

In this component (up to 10 pages), describe the proposed research projects that subcontracted organizations will perform. Explain the strengths that these partners bring to the overall project to ensure successful submission of contract deliverables in accordance with the milestone schedule.

Please keep the following in mind as you complete this section:

- The prime applicant is responsible for the project and must adhere to the contract’s terms and conditions. The prime applicant should negotiate his or her subcontracts accordingly.
- PCORI does not require signed subcontract agreements at the time of application submission.
- Submitting an application to PCORI signifies that programmatic and administrative personnel from your organization and from all proposed subcontract organizations involved in the project are aware of your organization’s subcontract agreement policy and are prepared to establish the necessary interorganizational agreement(s) consistent with that policy.
- If applicable, you must include subcontract personnel under key personnel.
- You must include budget information for subcontracted organizations in the Detailed Budget, Budget Summary for Entire Project, and Budget Justification.

References Cited

This component (up to 10 pages) is included in the Research Plan Template. Throughout the Research Plan, applicants must use in-text citations to reference published materials. In this section, list the full bibliographical citation for each reference. Each reference must include the names of all authors (in the same sequence in which they appear in the publication); the article title; and the journal or book title, volume number, page numbers, and year of publication. Include only bibliographic citations. PCORI suggests following AMA style when providing citations for source materials relied on in preparing any section of the application, but other citation styles are acceptable. Citations that are publicly available in a free, online format may include URLs or PubMed ID numbers along with the full reference. Limit references to relevant and current literature. Be concise and select only those literature references pertinent to the proposed research, so that you do not exceed the 10-page limit. You must reference websites in the standard URL format (i.e., http://www.pcori.org) with the date on which you last accessed the link.

Appendix (Optional)

This component (up to 10 pages) is included in the Research Plan Template. Applicants may provide additional materials to support the proposed study (e.g., survey instruments and interview guides). Note that reviewers are not required to review this section during merit review.
People and Places Template

Professional Profile/Biosketch and Patient/Stakeholder Partner Biosketch

These components are included in the People and Places Template. Complete a profile/biosketch section (up to five pages per individual) for each person listed as key personnel (including the PI, dual-PI, co-investigator, consultant, or other significant contributors), copying the tables provided in this section as needed. Note that you may submit the most recently posted National Institutes of Health (NIH)-formatted biosketch in lieu of a PCORI-formatted biosketch. Patient and stakeholder partners serving as key personnel may choose to complete the Patient and Stakeholder Partner Profile/Biosketch form in lieu of the Professional Profile/Biosketch. At a minimum, each profile must include the person’s name, title, and degree(s). PCORI is especially interested to learn how each individual’s previous experience, past performance, and training in the field of PCOR have prepared him or her to conduct this research. You must also describe the backgrounds, relevant experiences, and roles of patient and stakeholder partners.

Applicants must assemble a research team that is suited to complete the work. Applicants must demonstrate that the study team’s experience, leadership approach, governance, and organizational structure are appropriate for the project and will aid in achieving the project goals.

Project Performance Site(s) and Resources

This component (up to 15 pages) is included in the People and Places Template. Demonstrate in detail that the proposed facilities have the appropriate resources required to conduct the project as planned, within budget, and on time.

Applicants must provide a description of the facilities they will use during the project, including capacity, capability, characteristics, proximity, and extent of availability to the project.

Leadership Plan (required if proposing a dual-PI application)

Depending on the nature of the proposed study, a collaborative and multidisciplinary team may be required. PCORI permits applicants to name a maximum of two PIs in an application. The PIs may be from the same or different institutions. Each PI is accountable and responsible for the conduct of the award and for ensuring that all awarded milestones, deliverables, and reports are completed in accordance with the award terms and conditions.

If proposing a dual-PI application, you must designate one PI as the Contact PI. The Contact PI must be employed by the applicant institution and listed first within the application. Although PCORI will recognize both PIs, the Contact PI is responsible for submitting the application and for communications between the PIs and PCORI, including coordinating meetings with PCORI staff.

Applicants must include a Leadership Plan (up to five pages) as the first section of the People and Places Template. The Leadership Plan must (1) describe the governance and organizational structure of the leadership team and the research project; (2) delineate the administrative, technical, scientific, and engagement responsibilities for each PI and the rationale for submitting a dual-PI application; (3) discuss
communication plans and the process for making decisions on scientific and engagement direction; and (4) describe the procedure for resolving conflicts.

Note: Only the Contact PI may submit the application to PCORI.

Letters of Support

Save all Letters of Support as a single PDF file and upload to PCORI Online, using the Letters of Support Table as the first page of the file. Follow the guidance below and in the table template to enable easy reference for merit reviewers and PCORI staff. Reviewers are asked to consider the Letters of Support as outlined in the template and in this guidance. Failure to assemble the letters properly may result in the reviewers missing key information. If this occurs, PCORI will not send the application for re-review because it will be deemed an error in application assembly, not an error in review.

All Letters of Support must be addressed to the PI and demonstrate the commitment of key personnel and supporting organizations (e.g., dual-PI, co-investigators, consultants, patient and stakeholder partners, and stakeholder organizations) to the proposed project. Letters of Support are not required for personnel who are not contributing in a substantive, measurable way to the project’s scientific development or execution. Letters of Support must reflect clearly the involvement and material contribution the signatory parties will provide and confirm the commitment of collaboration.

Applicants proposing to use an existing research network infrastructure, research consortia, or related data resources must provide documentation supporting the involvement of network leadership throughout the study by submitting Letters of Support, which can be obtained from the Coordinating Center by submitting a request via the PCORnet Front Door. Please note that this takes approximately two weeks after submission.

PCORI may contact any individuals or organizations included in the Letters of Support with questions or to confirm support as described in the letters.

Organize the Letters of Support as follows:

- **Letters of Organizational Support:** Provide a letter (or letters, if applicable) signed by the Department Chair or appropriate organizational official, confirming the institutional support of the proposed project; space to conduct the research; equipment; and other resources available for the project, including staff. PCORI also strongly encourages you to provide a letter from the department or organization leadership affirming support to disseminate research findings that are appropriate and warranted for implementation.

- **Letters of Collaboration:** Provide a signed letter from each collaborating individual or organization that will demonstrate that the PI has the support or resources necessary for the proposed work. Letters of Support from patient and stakeholder partners should describe clearly the origin of the study topic and the role of the partners in defining the question, outcomes, comparators, goals, and so on. Also, PCORI strongly encourages letters from patient or stakeholder partners or partnering organizations affirming support to disseminate and implement research findings that are germane and warranted for implementation. Include a
Letter of Support for each consultant verifying the work to be performed and the negotiated rate.

- **Letters Confirming Access to Patient Populations, Data Sets, or Additional Resources**: If the proposed Research Plan involves access to patient populations, data sets, or additional resources, include a Letter of Support signed by the person with approval authority, confirming such access. If access cannot be confirmed at the time of contract negotiation, PCORI reserves the right to withhold funding until the PI has demonstrated support for and access to the relevant population(s) and resources.

List all letters in the table (adding rows as needed) and include the page number on which PCORI can find each letter within the single PDF file.

**Resubmission Letter**

An applicant may resubmit an application that PCORI did not fund but that did complete PCORI’s merit review process (i.e., the applicant received a summary statement). See the Resubmission Policy for more information.

Submitting an LOI is also a requirement of resubmissions, unless PCORI has sent the applicant an Invitation to Resubmit. Resubmitted applications require completion and submission of a two-page Resubmission Letter. The Resubmission Letter provides an opportunity for applicants to provide a high-level overview of how they have strengthened the scientific merit and responsiveness of the application to the current PFA. Simply responding to previous reviewers’ concerns is not sufficient; the application must be programmatically responsive and demonstrate methodological rigor and patient-centeredness. The Resubmission Letter will inform the merit reviewers’ understanding of the ways in which the applicant has made efforts to strengthen the application, and reviewers will evaluate the application based on its responsiveness to the PFA and the merit review criteria.

Applicants who previously submitted a dual-PI application and are now proposing a single-PI application, or who are proposing a change in the previous PI team, must address the rationale for the change within the Resubmission Letter.

PCORI evaluates all applications using the same merit review criteria found in the PFA.

### VII. Additional Requirements

Awardees must comply with the following requirements:

**Required Education of Key Personnel on the Protection of Human Subject Participants**

PCORI requires all applicants to adhere to the NIH policy on education in the protection of human subject participants in the conduct of research. This applies to all individuals listed as key personnel in...
the application. The policy and FAQs are available on the NIH website.19

PCORI Public Access Policy

PCORI requires all awardees to adhere strictly to PCORI’s publication policies, which will be shared with awardees within the research contract.

Registering Clinical Trials

PIs must use the naming convention “PCORI-PCORI application number” (i.e., PCORI-XXXX-XXXX). Clinical trials must be registered before enrollment of the first patient. All trials that meet the definition on the NIH database20 (see “Data Element Definitions”) are required to register, if funded.

Funded clinical trials or observational outcomes studies must be registered at ClinicalTrials.gov.

Funded evidence-synthesis studies must be registered at PROSPERO.21 Funded patient registries must be registered at https://patientregistry.ahrq.gov/.

Standards for Privacy of Individually Identifiable Health Information

The Department of HHS issued a final modification to the Standards for Privacy of Individually Identifiable Health Information, the “Privacy Rule,” on August 14, 2002. The Privacy Rule is a federal regulation under the Health Insurance Portability and Accountability Act (HIPAA) of 1996 that governs the protection of individually identifiable health information and is administered and enforced by the Department of HHS Office for Civil Rights.

Decisions about the applicability and implementation of the Privacy Rule reside with the researcher and his or her institution. The Office for Civil Rights22 provides information on the Privacy Rule, including a complete Regulation Text and a set of decision tools on “Am I a covered entity?” Information on the impact of the HIPAA Privacy Rule on NIH processes involving the review, funding, and progress monitoring of grants, cooperative agreements, and research contracts is available on the NIH website.23

Award Funding Conditions

At any time during the contract, PCORI reserves the right to discontinue funding for awardees who fail to meet the mutually agreed-upon milestones. Applicants’ proposed milestones will be finalized in contract negotiations and prior to execution. See PCORI’s Standard Contract Template for more information.

Co-Funding

PCORI partners with various other research organizations to leverage additional funds for some of its

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20 Available at https://prsinfo.clinicaltrials.gov/.
21 Available at http://www.crd.york.ac.uk/prospero/.
22 Available at http://www.hhs.gov/ocr/.
programs. If you currently have a funded project and would like to seek PCORI funding to add a new aim to the study that advances PCORI funding objectives, you may submit an application. We recommend that you speak with a Program Officer in advance.

**Note:** PCORI will not fund a project already funded through another funding entity. By submitting the application to PCORI, the AO is certifying that there is no overlap in funding at the time of submission. Prior to receiving a PCORI contract, awardees must disclose all current and pending support.

**Dissemination and Data Sharing**

PCORI is committed to publishing and disseminating all information and materials developed using PCORI funding, in accordance with its authorizing legislation. All recipients of PCORI contracts must agree to these principles and take steps to facilitate data availability.
Appendix 1: Example Milestones

Milestones are significant events, deliverables, tasks, or outcomes that occur over the course of each project signifying study progress. The completion of each milestone is intended to mark progress toward the project goals and ensure that the project is on schedule and likely to be completed successfully within the contract period. Below is a list of milestone examples you may reference as you complete this section of your application:

- IRB approval
- Formation of a SAC or other appropriate engagement body
- Documentation of adherence to the PCORI Methodology Standards
- Recommendations from DSMB meetings every six months
- Start of recruitment (indicate target total)
- Completion of 25 percent of recruitment (indicate the number)
- Completion of 50 percent of recruitment (indicate the number)
- Completion of 75 percent of recruitment (indicate the number)
- Completion of recruitment (indicate the number)
- Start of follow-up data collection (If multiple follow-up time points are included in the study protocol, create a separate milestone for each data-collection time point.)
- Completion of 25 percent of follow-up data collection (If multiple follow-up time points are included in the study protocol, create a separate milestone for each data-collection time point.)
- Completion of 50 percent of follow-up data collection (If multiple follow-up time points are included in the study protocol, create a separate milestone for each data-collection time point.)
- Completion of 75 percent of follow-up data collection (If multiple follow-up time points are included in the study protocol, create a separate milestone for each data-collection time point.)
- Completion of follow-up data collection (If multiple follow-up time points are included in the study protocol, create a separate milestone for each data-collection time point.)
- Focus group results
- Intervention materials complete
- Final study protocol
- Primary completion date (If applicable, the primary completion date is the date that the final subject [or participant] was examined or received an intervention for the purposes of final data collection for the primary outcome. The primary completion date is defined in Section 801 of the Food and Drug Administration [FDA] Amendments Act of 2007.)
• Notification of posting final protocol on https://clinicaltrials.gov/
• Conduct of baseline assessments or measurements
• Start of follow-up assessments or measurements
• Completion of follow-up assessments or measurements
• Interim analyses
• Final analyses
• Interim progress reports, every six months
• Final report
• Manuscript submission or notification of publications
• Data sets, analytic data sets, and codebook
• Copies of published manuscripts
• Engagement milestones, such as recruitment of all patient and stakeholder partners, and describing the impact of engagement activities on the project.

The Program Officer, at his or her discretion, may deem the milestones listed above as irrelevant (e.g., recruitment milestones may not be relevant for observational studies) or may require additional reporting. All research awards must submit monthly enrollment updates to their Program Officer in a format agreed upon during contract negotiation.
Appendix 2: Allowable and Unallowable Costs

Acceptable uses of PCORI research contract funds are those that directly support the proposed research project, including collecting and analyzing data and obtaining relevant data sets. Because PCORI primarily funds CER, the research projects generally involve the comparison of clinical interventions or strategies that are considered to be accepted standards of care and are not experimental or investigational. As a result, when developing proposed Detailed Budgets, it is important for funding applicants to think carefully about which costs derive from—and directly support—the research project, as opposed to those costs that would otherwise be incurred in the course of providing the clinical care and health-related costs around which the research project is organized.

Allowable costs (i.e., those costs that can be included in a proposed Detailed Budget when applying for a PCORI Funding Award and charged to the award) may include the following costs that derive from and directly support the research project:

- Salaries and fringe benefits for study investigators and other research project staff (including engaged patient and stakeholder research study partners) related to their percentages of effort on conducting the research project. (Such costs should not include personnel who deliver patient care as a component of their participation in the research project.)
- Consultant fees
- Travel for mandatory investigator meetings
- Travel that is necessary for conducting the research project
- Supplies
- Equipment
- Subcontracts
- Expenses related to conducting engagement activities with patients and other stakeholders
- Other direct research expenses
- Indirect costs

A funding applicant must specifically request costs related to conducting the research project through itemization on the Detailed Budget. PCORI will consider this request in the course of making an award. The following principles and requirements generally apply to PCORI’s evaluation of the proposed budget and determination of allowable costs, and should guide applicants in preparing their Detailed Budgets:

- Typically, IRB fees are included in an organization's indirect cost pool. However, PCORI will allow this expense as a direct cost if the costs are not included as part of the indirect cost rate. By submitting the application, the PI and AO certify that their institution treats IRB fees as direct costs, and the fee is allocable to the study. IRB fees are subject to audit.
- In general, PCORI will not cover costs for study interventions that constitute the procedures,
treatments, interventions, or other standard clinical care ("patient care") that is being proposed for comparison in the research project ("patient care costs"). The host healthcare delivery system, third-party payer, product manufacturer, intervention developer, or other interested party should cover the patient care costs.

- The willingness of one or more stakeholder groups to cover patient care costs incurred during the research project, even when one of the comparators is not currently directly covered by insurance, will be taken as strong endorsement of the research project by the stakeholder group. Such commitments also provide an indication that the stakeholder groups will use the research study’s findings. (Such support by a stakeholder group should be discussed in the application.)

- Except for specific permission in exceptional circumstances, PCORI will not cover patient care costs.

- PCORI may consider coverage of the co-payment or co-insurance costs of participating study subjects when necessary to preserve blinding in a study or to ensure access to the study for vulnerable populations.

- PCORI will generally cover costs for ancillary tasks directly related to the research project. Examples include costs for obtaining informed consent to participate in the research project; collecting data pursuant to the research protocol; or collecting and monitoring study subject data that would not normally be performed in the course of patients receiving the patient care being evaluated in the research project.

PCORI will review all proposed costs. PCORI must deem costs to be allowable, allocable, and directly necessary for the successful execution of the proposed research project. A notification of pending award is subject to budgetary review and successful contract negotiation. The actual award amount may vary. For more information, please see PCORI Cost Principles.
PCORI considers computers, tablets, docking stations, mobile data and protection plans, laboratory and office furnishings, and software to be general office supplies that are not allowable as direct-cost charges.
Appendix 3: Administrative Actions

Applicants who fail to submit required documents or adhere to administrative requirements may be rejected from the merit review process. The chart below explains the reasons for rejection, modification, and appended requests.

<table>
<thead>
<tr>
<th>Automatic Rejection</th>
<th>Modification by PCORI</th>
<th>Appended upon PCORI’s Request*</th>
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| An application or LOI will be automatically rejected if it:  
  - Exceeds the specified period of performance outlined in the PFA  
  - Exceeds the maximum budget specified in the PFA  
  - Has adjusted margins or font size (LOI)  
  - Does not include or has an incomplete Research Strategy | PCORI will modify an application by removing all pages that exceed stated limits for the following components:  
  - LOI  
  - Resubmission Letter  
  - Research Strategy  
  - Dissemination and Implementation Potential  
  - Protection of Human Subjects | Unless automatically rejected or modified, PCORI may request that the applicant submit missing documents or correct noncompliant ones. |

*PCORI will not accept requested documents submitted more than one business day after initial request.