



Program to Accelerate Clinical Research using Epic (PACE)

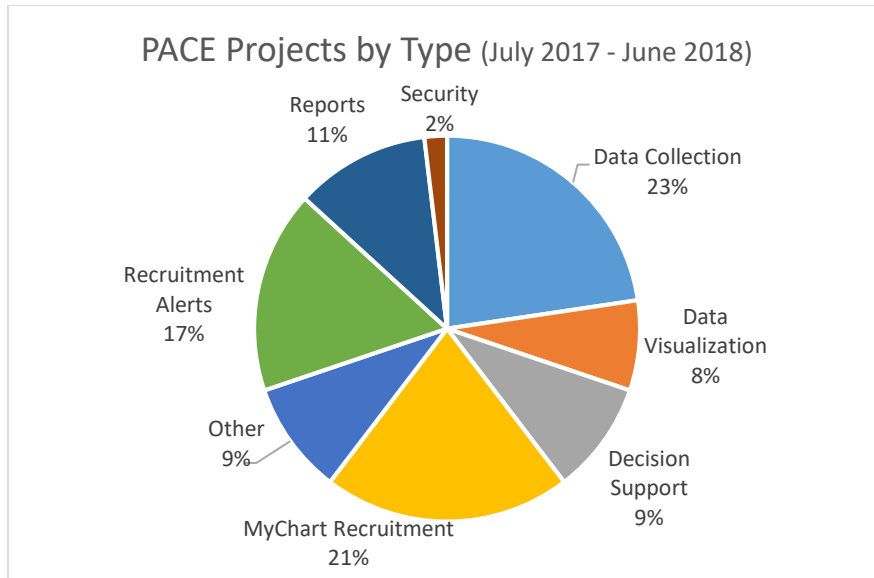
ROLE OF OFFICE

PACE was established to help clinical researchers take full advantage of the Epic Electronic Health Record system for their research projects. We provide guidance regarding existing Epic research functionality as well as designing and building customized Epic content for your project to enhance the efficiency and standardization of the data collection process and improve data quality. Potential applications of customized Epic build are numerous, and some typical scenarios include:

1. Study recruitment using the Epic MyChart patient portal, with review and approval by the ICTR MyChart Epic-Based Recruitment team.
https://ictr.johnshopkins.edu/programs_resources/programs-resources/research-participant-recruitment-and-retention/my-chartepic-based-recruitment/
2. Alerts that identify specific patient subsets in the clinic setting. This may include alerts that a patient may qualify for a research study or that important clinical data are missing for a specific study participant.
3. Tools that help providers collect discrete data on a population of interest. This may include documentation flowsheets and SmartForms as well as SmartSets that help populate Epic data fields in a standardized way. It may also include automatic calculation of patient scores based on multiple sources of data in Epic.
4. Collection of patient-reported outcomes through the Epic MyChart patient portal and tablets in the waiting room.
5. Tools that provide a comprehensive overview of the patient's specific phenotype by pulling in relevant available data in Epic.
6. Reports that aggregate and display data regarding a specific research study.

PERFORMANCE IN THE PAST YEAR

In the past year, PACE completed 53 projects. Of those 53 customer projects, 15% were informational consults-only and 85% resulted in new tools built in Epic. The median hours to complete a project were 20 hours with a range of 2-206 hours.



CHANGES IN THE PAST YEAR

In addition to supporting individual research studies, PACE built new tools for general use by the research community, including:

- a new Research sub-tab in the MyChart patient portal
- the ability for a patient to opt out of being contacted by MyChart for study recruitment purposes by using a MyChart questionnaire
- extending SlicerDicer to researchers without a clinical role through the implementation of a new security point

PACE began working with the Precision Medicine Centers of Excellence as well as the Epic Faculty Scholars Program to identify new research uses for Epic.

NEW DEVELOPMENTS FOR THE UPCOMING YEAR

PACE is working with IT@JH to integrate Epic with the CORUS paging system. When the new feature becomes available, study teams will have more control over the routing of alerts that are sent to their study team.

PACE will be improving our outreach to faculty through improvements to our ICTR website, including publishing text for research teams to use in grant applications, clearly diagramming the workflow for working with PACE, and publishing informational sheets with example projects and their associated time and cost. With the Epic Research operational team, we will host an annual information session about Epic and research at which we will describe available functionality, the governance structure, and ask investigators what functionality they would like to be added to Epic to support clinical research.

INCORPORATION OF SERVICES INTO GRANT APPLICATION

PACE encourages researchers to contact us at least a few weeks ahead of grant submission so that we may provide you with information about how you can use Epic for your research project, including an estimate for the cost to build new tools in Epic. The ICTR provides two complimentary hours of service per faculty to underwrite this activity.

BEST WAY TO WORK WITH PROGRAM

To learn more about PACE and how to request a consultation, please visit our webpage on the ICTR website:

https://ictr.johnshopkins.edu/programs_resources/programs-resources/informatics/program-to-accelerate-clinical-research-using-epic-pace/