LesionTracker
Open Source Oncology Web Viewer
Funded through U24 from NCI ITCR Program

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March 13, 2016
Precision Imaging Metrics

- Established as DF/HCC Tumor Imaging Metrics Core (TIMC) in 2004
- Developed PIM system to address imaging assessment needs for cancer clinical trials (>10,000 time points per year)
- Approved as NCI Shared Resource in 2006
- Utilized by 5 NCI Cancer Centers (and in discussion with several others)

For more information, visit: www.precisionmetrics.org
PIM Licensing Model

- Software as a Service (SaaS)
  - Monthly usage fees
  - Monthly support fees
  - Annual licensing fee
- Metrics Manager built upon open source (BSD license) image workstation
Why Build on Open Source?

**Freedom**
No vendor lock-in

**Extensibility**
Ability to add features

**Time-Savings**
Expedited ‘time to market’

**Continuity**
Rights to source code

**Flexibility**
Unlimited client licenses

**Economical**
Reduced costs
Evolving Needs

Unable to get timely, reliable, protocol-compliant imaging assessments

2005
Launched v1 website to manage clinical trials imaging assessment

2012
Launched integrated image analysis application to eliminate manual entry

Manual measurement entry inefficient and error prone

2015
Launched new PIM v2 website

Difficult to add new, complex functionality to website

2015
Received funding for Web Viewer

Thick-client image analysis application becomes pain point
LesionTracker

- Quantitative imaging package built on OHIF open source web viewer optimized for oncology workflow

- MIT License was selected to make it easy for the community to use and develop on the application
Open Health Imaging Foundation (OHIF)


- OHIF vision is to deliver an elegant, open source web health imaging platform which accelerates innovation
LesionTracker

- Improve quality and efficiency of clinical trial imaging assessment
  - Works seamlessly with Windows, Mac, etc.
  - Provides RECIST 1.1 and irRC conformance checks
  - Supports the export of results to PDF, Excel, etc.

- Integrate with PIM clinical trial workflow and data management system
- Integrate with other ITCR and QIN projects
User Support

- Monthly community meeting
- Jira and Confluence open to community [https://ohiforg.atlassian.net](https://ohiforg.atlassian.net)
Quality & Efficiency

- Issue Tracking: Jira
- Source Control: GitHub
- Team Communication: Slack + GoToMeeting
- Test Management: Zephyr
- Project Management: Confluence
- Document Management: Qualio
Sustained Funding Support

Precision Imaging Metrics

Open Health Imaging Foundation

LesionTracker

Additional Grant Funding

Corporate Sponsorship
Challenges

- Engaging the community while maintaining quality and focus
- Keeping scope within project budget and timeline
LesionTracker Team

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Please visit [http://lesiontracker.ohif.org/](http://lesiontracker.ohif.org/) to view our development progress or download the source code at [https://github.com/OHIF/LesionTracker](https://github.com/OHIF/LesionTracker)
THANKS!

Any questions?

You can find me at turban@partners.org