

Scaling OHDSI open source community projects

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INTRO:

1. The OHDSI community's success lies in strong thought leadership for innovation, adoption, market acceptance and providing structured ways for community member to participate and contribute
2. The inclusive membership model of the OHDSI community enables us to produce open source software, standards, model and a
3. Extending OMOP CDM/Vocabulary/Analytics to support represents a large community effort that requires active leadership, management, technical and research contributions

METHODS:

1. Leverage strong leadership consisting with a clear vision of the group mission and goals
2. The working group is divided into 4 subgroups with a specialized primary focus
3. Project manager tracks project's mission, goals, and objectives, setting concrete goals
4. Documentation follows a structured approach and makes it available to the community
5. Dissemination efforts of the group include tutorials, workshops, conference presentations, publications, proactive outreach to standard and research organization
6. Self-governance and sustainability

RESULTS - Utilizing the methods described above, the WORKGROUP was able to implement:

1. CDM Model and Vocabulary (Cancer & Genomics)
2. ETL/Post-ETL guidelines and conventions
3. Adoption, education, and dissemination
4. Run network studies

Scaling OHDSI open source community projects, lessons learned by Oncology WORKGROUP

CDM and Vocabulary:

1. Integration of ICDO-3, NAACCR, CAP, HemOnc, NCI
2. Creation of the Cancer Modifier vocabulary
3. Integration and harmonization of 6 genomic variant databases
4. Extension of CDM with the Episode model
5. Conventions for defining cancer disease and treatment episodes

ETL and Post-ETL - Vocabulary driven ETL and Post ETL regimen extraction

Education & Dissemination - OHDSI Symposium Tutorial, EU Oncology Workshop, Submissions to major oncology informatics journals

Network Studies

1. Treatment pattern and outcomes of patients with metastatic bladder cancer
2. Long-term Outcomes of Prostate Cancer Patients Undergoing Non-Interventional Management (i.e., Watchful Waiting) and the Impact of Comorbidities and Life Expectancy
3. Characterizing patients with metastatic Non-Small Cell Lung Cancer (NSCLC) with and without liver metastasis at the time of diagnosis with metastatic NSCLC

CONCLUSION

Product and project management positively affected productivity and efficiency of the Oncology Workgroup efforts demonstrating that even relatively simple changes in the operational model can have a significant impact on outcomes

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