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# Transform Your Imaging Operations

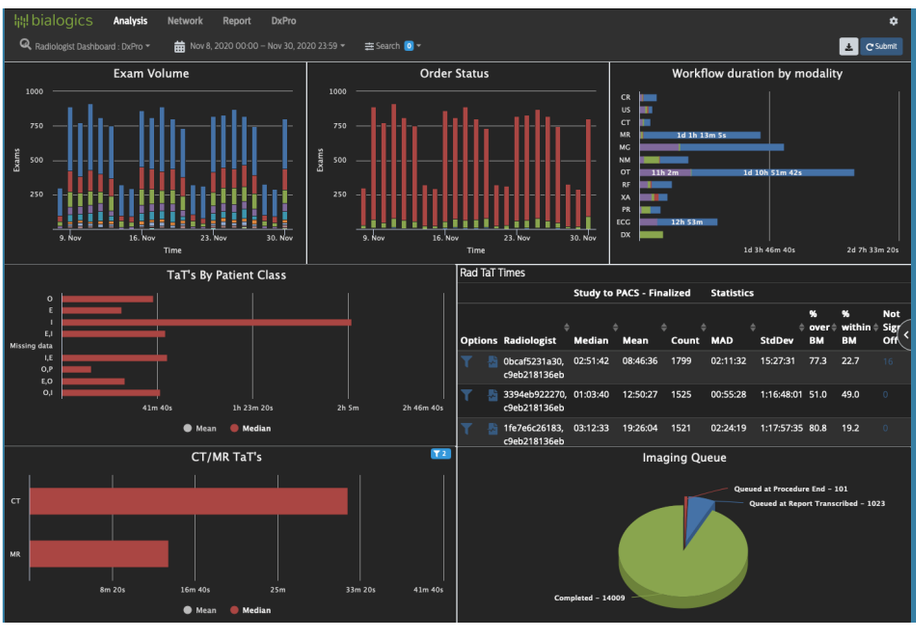
Bialogics delivers deep insights into end-to-end imaging operations, enabling targeted optimization of workflow efficiency, quality, IT management, and associated costs enterprise-wide. Leveraging real-time intelligence derived through advanced NLP with Deep Learning applications, Bialogics can transform your radiology practice by enabling evidence-based continuous improvement and providing a foundation for future AI and ML applications.

## Optimize Workflow & Reduce Cost

- Unify data points across Radiology, Cardiology, HIS/RIS, EHR, and other clinical information systems
- Execute evidence-driven continuous improvement that increases capacity and throughput, improves resource utilization, and reduces cost of care delivery
- Easily create custom dashboards and reports to measure and monitor workflow efficiency, resource utilization, turnaround times, operational costs, etc.

## Elevate Reporting & Care Quality

- Proactively monitor follow-up recommendations to ensure timely adherence
- Proactively monitor report quality and flag those that are incomplete, include ambiguous content, and/or contain peer review discrepancies
- Expand and automate quality-based reporting to access value-based reimbursements and incentives (P4P, MACRA, MIPS)




The DImax platform for Radiology delivers comprehensive insights into end-to-end workflow – from initial order to final results delivery using a combination of configurable dashboards and reports together with comprehensive data mining tools.

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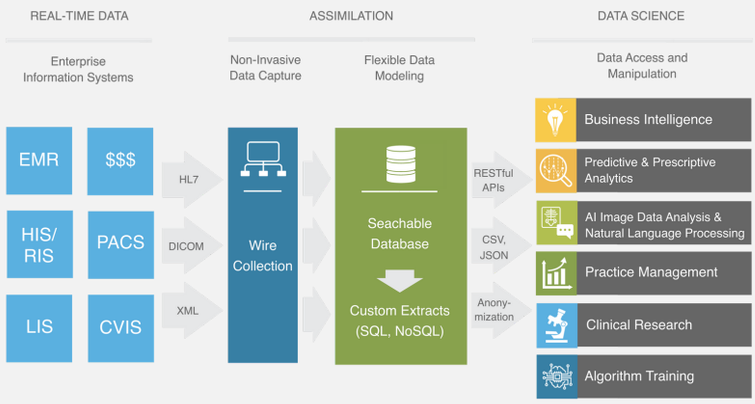
# Realize the Full Potential of your Medical Imaging Data

Bialogics is the first fully interoperable, truly vendor agnostic platform for Medical Imaging analytics. Designed to be highly scalable, performant, and modular, Bialogics provides advanced data management to support Artificial Intelligence (AI) and Machine Learning (ML) development, and federated learning across health systems and populations.




# A Revolutionary Research Engine

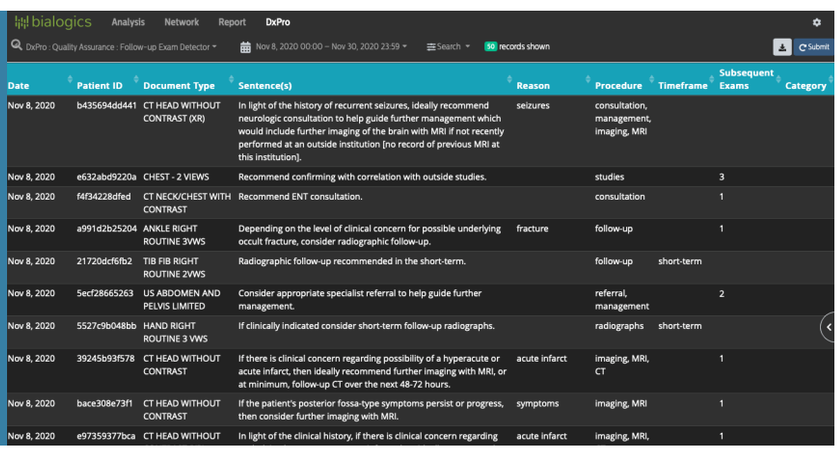
DxPro's advanced Natural Language Processing (NLP) engine creates structured data from the unstructured text of medical reports to simplify cohort identification and accelerate data collection and correlation for research across clinical systems, specialties, and populations.

- Automatically process all types of medical text with high precision and recall, aided by deep learning models that parse the often-confusing text of medical imaging reports
- Extract and codify medical terms using custom and standard ontologies (e.g. RadLex, SNOMED, MEDCIN, etc.)

> The ability to intelligently search millions of unstructured reports in real-time enables our researchers to quickly identify clinical cohorts and decreases the time and cost of research initiatives.

- Summarize and sort diagnoses from clinical reports by dictionary, diagnosis, diagnostic category, report date, and report type or segment
- Uncover timely and actionable insights across patient populations at enterprise, community, state, or national levels.
- Search diagnostic reports for content to simplify cohort identification for patients with one or multiple co-morbidities.
- Monitor physician ordering patterns and develop evidence-based appropriateness guidelines (e.g. Choosing Wisely)

The DxPro follow-up detector automatically identifies actionable recommendations from within diagnostic reports including pathologies, tests, and timeframes to improve adherence and reduce morbidity and medicolegal risk.


bialogics Analysis Network Report DxPro

DxPro : Quality Assurance : Follow-up Exam Detector | Nov 8, 2020 00:00 – Nov 30, 2020 23:59 | Search | 50 records shown | Submit

| Date | Patient ID | Document Type | Sentence(s) | Reason | Procedure | Timeframe | Subsequent Exams | Category |
|---|---|---|---|---|---|---|---|---|
| Nov 8, 2020 | b435694dd441 | CT HEAD WITHOUT CONTRAST (XR) | In light of the history of recurrent seizures, ideally recommend neurologic consultation to help guide further management which would include further imaging of the brain with MRI if not recently performed at an outside institution [no record of previous MRI at this institution]. | seizures | consultation, management, imaging, MRI | | | |
| Nov 8, 2020 | e632abd9220a | CHEST - 2 VIEWS | Recommend confirming with correlation with outside studies. | | studies | | 3 | |
| Nov 8, 2020 | f4f34228dfed | CT NECK/CHEST WITH CONTRAST | Recommend ENT consultation. | | consultation | | 1 | |
| Nov 8, 2020 | a991d2b25204 | ANKLE RIGHT ROUTINE 3VWS | Depending on the level of clinical concern for possible underlying occult fracture, consider radiographic follow-up. | fracture | follow-up | | 1 | |
| Nov 8, 2020 | 21720dcf6fb2 | TIB FIB RIGHT ROUTINE 2VWS | Radiographic follow-up recommended in the short-term. | | follow-up | short-term | | |
| Nov 8, 2020 | 5ecf28665263 | US ABDOMEN AND PELVIS LIMITED | Consider appropriate specialist referral to help guide further management. | | referral, management | | 2 | |
| Nov 8, 2020 | 5527c9b048bb | HAND RIGHT ROUTINE 3 VWS | If clinically indicated consider short-term follow-up radiographs. | | radiographs | short-term | | |
| Nov 8, 2020 | 39245b93f578 | CT HEAD WITHOUT CONTRAST | If there is clinical concern regarding possibility of a hyperacute or acute infarct, then ideally recommend further imaging with MRI, or at minimum, follow-up CT over the next 48-72 hours. | acute infarct | imaging, MRI, CT | | 1 | |
| Nov 8, 2020 | bace308e73f1 | CT HEAD WITHOUT CONTRAST | If the patient's posterior fossa-type symptoms persist or progress, then consider further imaging with MRI. | symptoms | imaging, MRI | | 1 | |
| Nov 8, 2020 | e97359377bca | CT HEAD WITHOUT | In light of the clinical history, if there is clinical concern regarding | acute infarct | imaging, MRI, | | 1 | |

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