

Modernization of the National Program of Cancer Registries Cancer Surveillance System (NPCR-CSS) Monitoring Database (MDB)

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Introduction

- Enhanced on-line NPCR-CSS MDB system tracks and analyzes historical and real-time data.
- Provides data visualization.
- Includes data quality and customized trend reports.

Purpose

- Securely track receipt, processing, and data evaluation.
- Monitor National Interstate Data Exchange Application System (N-IDEAS) utilization.
- Provide in-depth view of NPCR-CSS data and the Program Evaluation Instrument (PEI).

Methodology

- Adheres with the Department of Health and Human Services’ Enterprise Performance Life Cycle (EPLC) framework.
- Includes process for planning, requirements gathering, programming, testing, deployment, and documentation.
- Follows National Institute of Standards and Technology (NIST) standards for security.
- Uses .NET technologies.
- Includes advanced surveillance and analytical tools.

Results and Implications

- Role-based menu items and features for CDC and registry awardees
- Interactive dashboards, data visualization, important links (Fig. 1 & 2)
- Registry-centered management (Fig. 3).
- Flexible query system for trends and historical data comparisons (Fig. 4 & 5).

Figure 1. Awardees Dashboard and Important Links

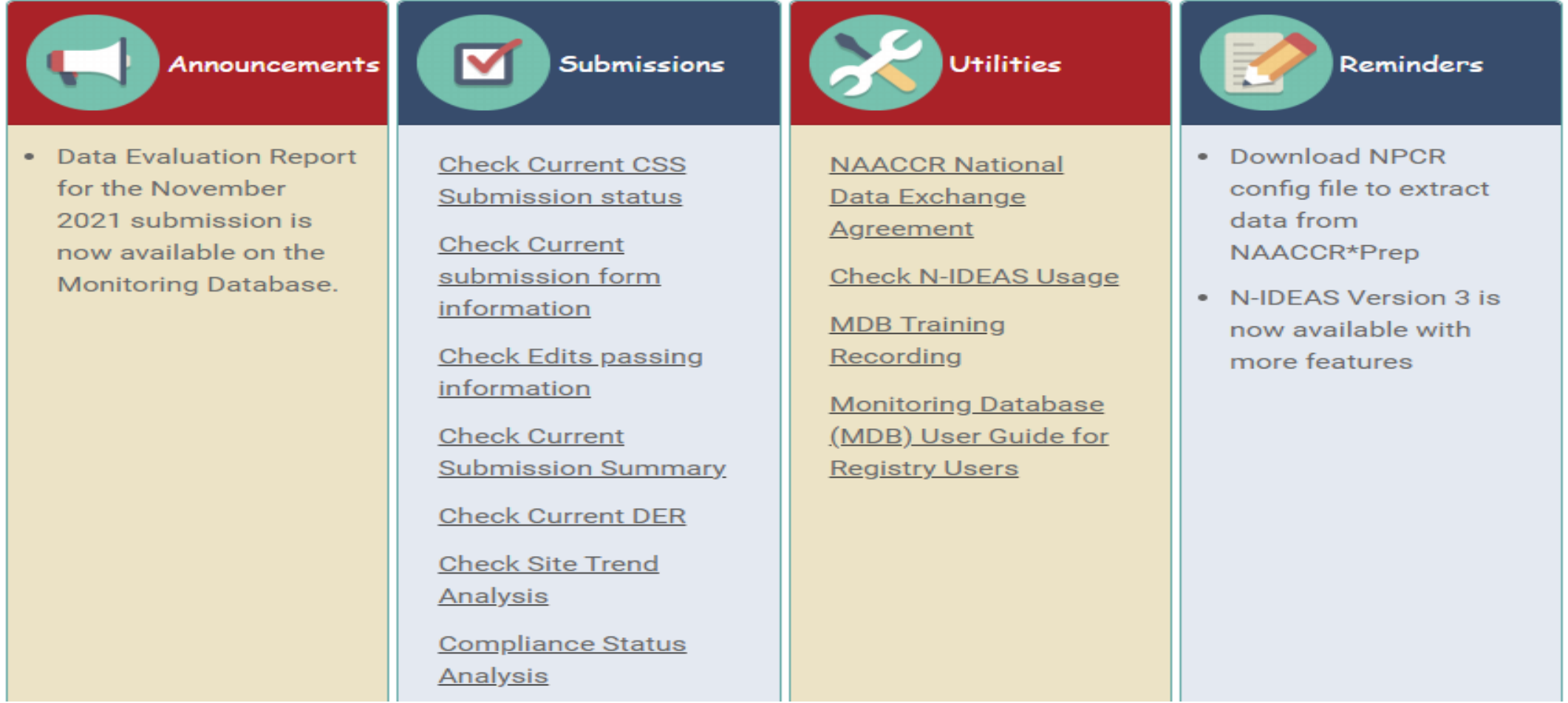


Figure 2. Awardee Submission Monitoring

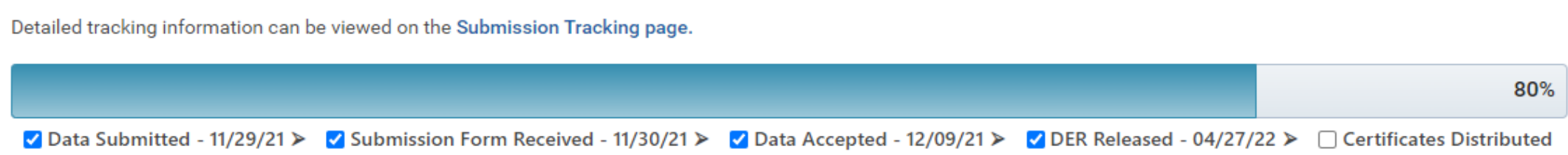


Figure 3. Editable Awardee Profiles

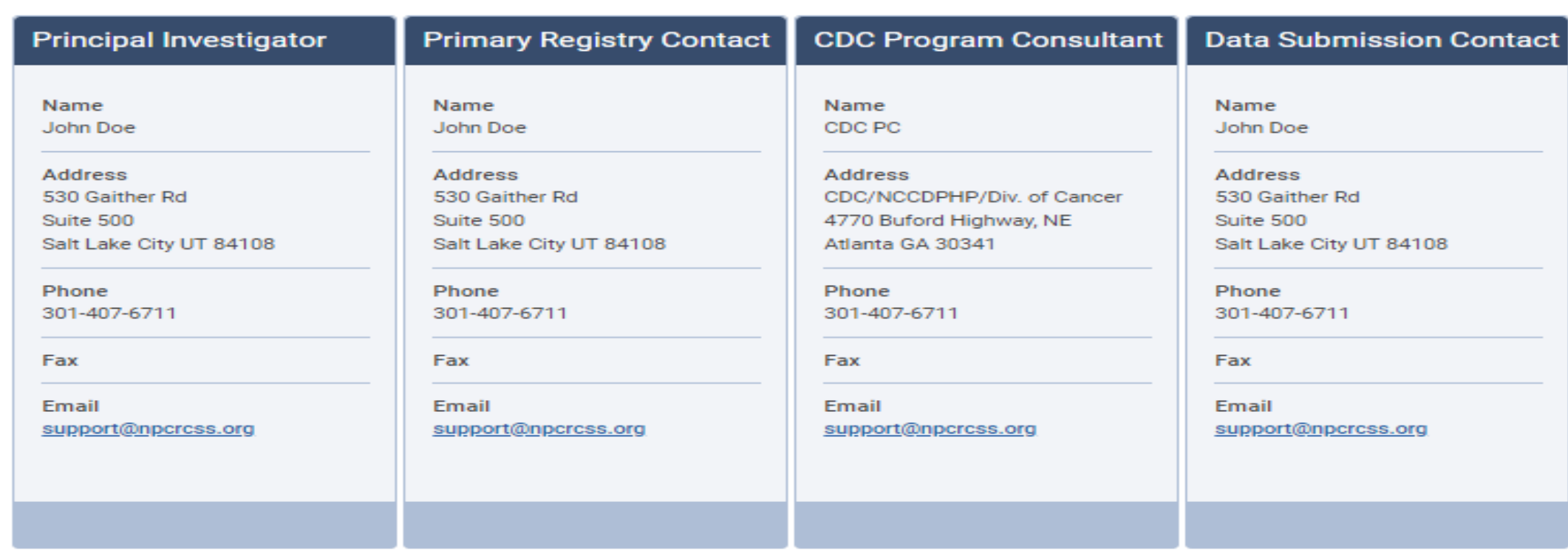


Figure 4. Trend Analysis: Cases by Site and Diagnosis Year

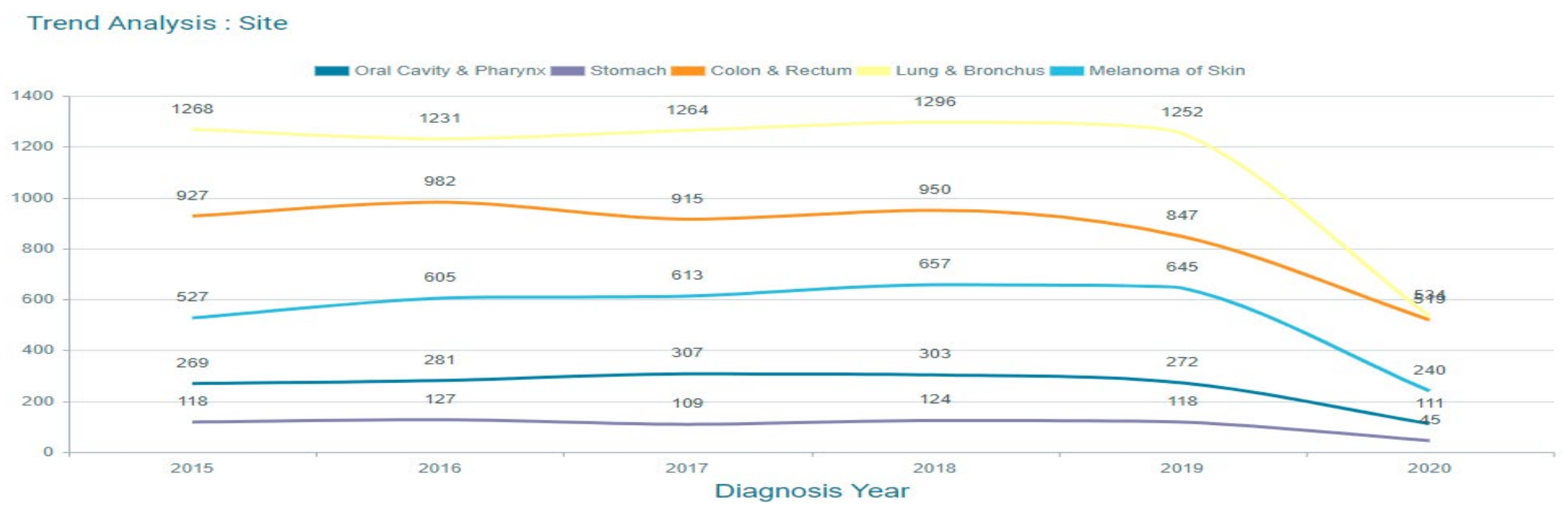
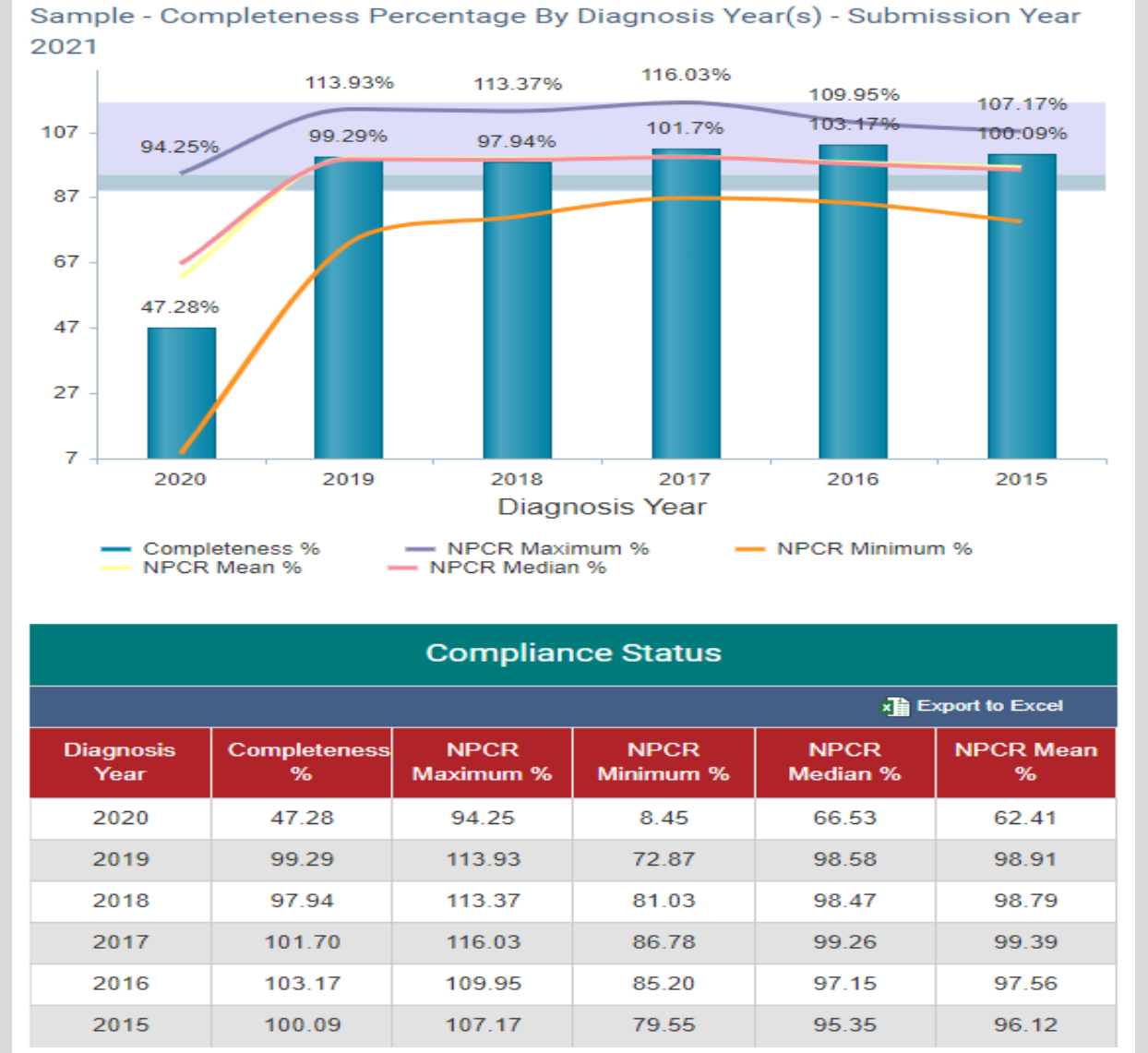


Figure 5. Completeness Chart



Conclusion

- CDC and Awardees can track activities:
 - Submission Tracking, Interstate Data Exchange, Program Evaluation Instrument, Data Trends, Compliance Status, Data Evaluation Report, Registry Profile (Fig 3)
 - Dashboard with interactive charts.
- CDC can track data submission and Program Standards Compliance with interactive maps.
- Enhancements improve program operation efficiency and data quality.

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