

Integrated Electronic Heath Record

Background and Overview for SMC Board of Supervisors December 13, 2022



SAN MATEO COUNTY HEALTH

Louise F. Rogers Chester J Kunnappilly, MD Stephen Dean Dave McGrew Gina Wilson

Roadblocks to helping our patients live longer, healthier lives

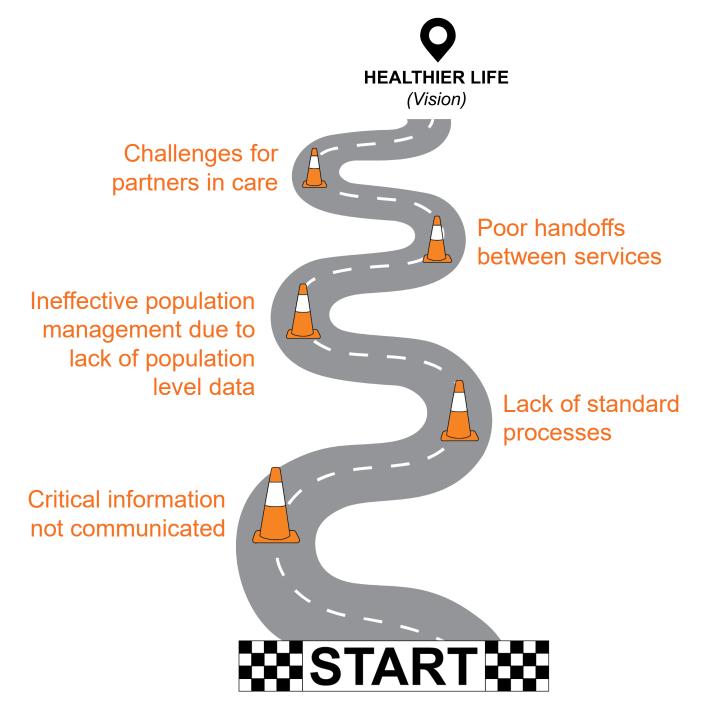




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PATIENT STORY

My patient, an 82-year-old Spanish speaking woman who has multiple medical issues, including chronically low sodium levels, recently went to the Emergency Department.

While she was grateful for the compassionate care she received, she was frustrated that the ED staff did not seem to know critical elements of her medical history, which is documented in a section of the Electronic Health Record not available to the ED staff. She also was frustrated she had to wait for the opinion of a specialist whom she had seen in the past, and that they attempted to admit her to the hospital unnecessarily.

It is likely that her refusal to be admitted allowed her to avoid duplicative, unnecessary, and potentially invasive testing.

Integrated EHR: Strategic Goals

Improve Health Outcomes

Promote person-centered care by improving safety, quality, and engagement through:

- Coordination of care in multiple settings
- Unifying client records and making them accessible to all care providers while also protecting health information appropriately
- Improve social determinants data quality (eg race/ethnicity, SOGI, literacy)
- Encourage and measure healthy behaviors
- Provide 24/7 self-service capabilities, including electronic access to their records and care teams



Integrated EHR: Strategic Goals

Achieve Operational Excellence

- Standardize financial processes
- Improve staff satisfaction and productivity
- Enable flexible, secure access from a range of settings and devices and interoperability with external providers
- Increase adaptability in a changing health funding environment by capturing data at the point of care
- Reduce technology risks by eliminating dependencies on obsolete systems



Integrated EHR: Objectives

Moving to an enterprise EHR will provide a better quality of care and improve fiscal accountability by:

- Replacing multiple EHR systems (eClinicalWorks, Soarian Clinicals, Invision, Novius Lab, Pulse Check, Picis OR Manager, myAvatar) that do not "talk" to each other
- Integrating financial and clinical operations to ensure accurate classification, charge capture, documentation, coding, and billing
- Improving interfaces and data integration between all patient serving divisions within SMC Health
- Implementing before December 2024 to replace applications that are scheduled to sunset on December 31, 2024



Integrated EHR: Project Status

2017 - 2020

Consulting Group reviewed current Electronic Health Records to identify opportunities

RFP process completed and top vendor identified Dec 2021

SMMC notified EHR will sunset Dec 31, 2024

Project team initiated negotiations with preferred vendor Dec 13 2022

SMC Health will submit contract to County BOS for consideration December Dec 31 2024 2024

Phase 1 of implementation complete before existing systems reach end of life Dec 31, 2024

(18-month process)

Identify additional funds for project



Integrated EHR: Why EPIC?

SMC Health Clinical Staff Evaluation

- Scored the highest on functionality and user experience
- Scored 21% higher than other vendors
- Able to meet SMC Health's differentiating functionality requirements
- Industry-leading EHR vendor
 - 20 of 20 U.S. News Best Hospitals use Epic
 - 11 consecutive years as #1 vendor on KLAS Research rankings & rated highest by clinicians



Bay Area Hospitals That Use EPIC



Integrated EHR: Why EPIC?

Single database structure

- Information entered once and available to all applications
- Shared functionality across inpatient, ambulatory, emergency, behavioral health, and correctional health settings minimizes implementation effort
- Designed as an enterprise solution
- Robust foundation system minimizing customization
- Pre-built content and standard workflows
- Streamlined implementation



Integrated EHR: Why EPIC?

- Revenue Cycle Optimization Drives Higher Revenue and Reduces Compliance Risk
 - ✓ Seamless integration with clinical documentation;
 - ✓ Improved automation of front-end functions, such as patient scheduling, preregistration, eligibility verification, medical necessity documentation, prior authorizations, propensity to pay, and registration quality;
 - Improved timeliness and accuracy of charge capture and coding through linkage to clinical documentation;
 - ✓ Enhanced work queue functionality for claims editing, processing and follow-up;
 - Combines workflows for Hospital Billing and Professional Billing into a single business office function;
 - ✓ Tight third-party software integrations allow users to work efficiently and optimize workflows within Epic, without needing to jump between systems



Workforce Development: Why EPIC?

- Advanced training for state-of-the-art enterprise systems
- Opportunities for staff without tech related backgrounds
- Opportunities for improved workforce diversity
- Growth opportunities for existing IT staff



Integrated EHR: Staffing Needs

Implementation & Support Team

- Redirect 28 existing Health positions
- Add 23 new regular full-time FTEs
- Add 23 new temporary/term positions
 - Term to end at time of system implementation; approx. August 2024

Three Year Implementation

| | EV2022 22 | FY2023-24 | EV2024 25 | Three Year |
|---|--------------|--------------|--------------|---------------|
| Costs | FY2022-23 | F 12023-24 | FY2024-25 | Total |
| Implementation | \$6,682,750 | \$13,456,350 | \$5,947,450 | \$26,086,550 |
| EPIC Agreement | 2,924,950 | 5,291,141 | | |
| | | | | |
| Labor Costs – Net increase 23 FTE + 23 temp project team | 5,211,878 | 22,898,663 | | |
| Third Party Applications | 1,765,270 | 7,143,947 | | 10,118,193 |
| Less Legacy System Expense Redirect | 0 | (1,313,690) | | |
| Sub-Total | | \$47,476,411 | | |
| Project Contingency | | \$9,758,020 | | |
| TOTAL COSTS | \$22,273,248 | \$57,234,431 | \$32,958,948 | \$112,466,627 |
| | | | | |
| Revenue Sources | | | | |
| One-time Funds | | | | |
| SMMC One-Time Funds | \$7,890,538 | \$12,909,294 | \$10,516,403 | \$31,316,235 |
| BHRS One-Time Funds | | 16,500,000 | 8,900,000 | 25,400,000 |
| Other County Health One-Time Funds | 200,000 | 14,760,873 | 1,650,905 | 16,611,778 |
| County General Fund | 10,000,000 | | | 10,000,000 |
| Health Plan of San Mateo – CalAIM – Incentive Payment Program | | 3,000,000 | 1,000,000 | 4,000,000 |
| Federal earmark | | 1,000,000 | | 1,000,000 |
| Healthcare for the Homeless | | 300,000 | | 300,000 |
| Ongoing Sources | | | | |
| SMMC Operating Revenues/Reserves | 4,182,710 | 8,764,264 | 5,479,490 | 18,426,464 |
| Other Divisions Share of Costs | , , | , , | 5,412,150 | |
| TOTAL SOURCES | \$22,273,248 | \$57,234,431 | | |

Next steps

- Epic Licenses & Epic Hosting Agreements & ATR to BOS– December 13, 2022
- Salary Ordinance Resolution to BOS January 31, 2023
- Project Kick-off February 2023
- Recruitment & Backfill Training February 2023 to May 2023
- Staffing Training June 2, 2023, to August 31, 2023
- Workflow & Configuration September 2023 to December 2023
- Users & System Requirements January 2024 to June 2024
- Training July 2024 to August 2024
- Estimated Go-Live Date August 30, 2024





Thank You!

Projected Ten Year Costs

| Description | Amount |
|--|---------------|
| Implementation | \$28,992,950 |
| EPIC Agreement | 51,488,431 |
| Labor Costs | 134,393,872 |
| Third Party Applications | 19,429,000 |
| Less Legacy System Expense Redirect | (53,247,762) |
| Sub-Total | \$181,056,492 |
| Project Contingency Amount | \$37,396,142 |
| Grand Total | \$218,452,634 |
| Revenue Sources | |
| One-time | |
| County Health One-Time Funds | \$100,766,452 |
| County General Fund | 10,000,000 |
| Health Plan of San Mateo – California Advancing and Innovating Medi-Cal (CalAIM) – Incentive Payment Program | 4,000,000 |
| Providing Access and Transforming Health (PATH) State Program Funding | 4,000,000 |
| Federal earmark | 1,000,000 |
| Healthcare for the Homeless | 300,000 |
| Ongoing | |
| SMMC Operating Revenues/Reserves | 58,524,668 |
| Other Divisions Share of Costs | 39,861,515 |
| Total Sources | \$218,452,634 |