

# Electronic Health Record Association

## *Public Health Data Systems: Current status, future needs*

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**EHRA**

HIMSS ELECTRONIC HEALTH RECORD ASSOCIATION



# *The Role of Health IT*

“ Conclusion: The EHR is an essential tool in supporting the clinical needs of a health system managing the COVID-19 pandemic.

## Identifying Patients

CDC travel screens, standardized symptom screening, defining a COVID-19 positive patient, accommodating drive-through testing

## Dashboards/Reporting

Lab results, capacity, ventilator usage, patient volumes, etc.

## Triage

Online patient-facing tools to self-diagnose, standardized phone triage, predictive models to assess risk

## Telehealth

Asynchronous questionnaire-based visits, synchronous video visits, tele-urgent care, COVID-19 home care plans

## Communication

Patient portals, patient messaging en masse, lab results shared with patients automatically

## Effective Resource Use

Remote monitoring at home, PPE conservation (use video in the hospital, virtual patient registration, track inventory), benchmarked capacity metrics

## Staff Expansion

Simple workflows, limited security, streamlined training

## Surge Planning

Add new areas/beds, extend EHR to non-traditional settings

## Reestablishing Care

Rescheduling canceled cases, proactive outreach to high-risk patients

## Addressing Social Risk

Social determinant tracking and reporting, PTSD resources for staff

## Financial Stability

Reports, forecasting, cost-savings measures

## Contact Tracing

Identify highest risk individuals, inside the walls, out in the community

## Testing

“Advertise” tests to patients, support self-scheduling, provide results online

## Vaccinations

Determine areas of community spread for vaccine trials, understand vaccine effectiveness and reinfection potential, spot mutated strains, eligibility, scheduling, administration, reporting, adverse events, certificates

# *The Role of Health IT*

# Data Needs and Challenges

Data requests to providers from public health agencies, research and industry initiatives have included:

- (Real World Data) Research
- Syndromic Surveillance
- Laboratory Reports
- Immunizations
- Case Reports
- Operational Statistics
  - Admissions, Hospital capacity, Bed availability, Tests performed, Ventilator utilization, Demographics, Co-morbidities
- Incremental Data Access
- Scheduling Availability
- Immunization Certificates

Data reporting challenges encountered include:

- Short-turnaround requests for large volumes of historical data
  - Ensuring consistent & complete reporting
  - Minimum necessary
- Aligning measures and reporting across requesters
  - Variant measure definitions
  - Duplicate reporting
  - Competing requests
- Right-sizing reporting and transaction content
- State variations
- Data quality

# Our Recommendations:



## Upgrade the National Reporting Infrastructure

*Core dataset*

*Report once, share widely*

*Standards*

*Incentives and funding*

*Education and training*



## Establish a Surge Process and Infrastructure

*Emergency capacity*

*Additional data definitions*

*Ongoing preparedness evaluation*



## Clarify Privacy and Consent Requirements

*For patients*

*For healthcare delivery organizations*

*Data retention and protection policies*

*Research*



## Encourage Participation in National Networks

*Carequality,  
CommonWell,  
eHealth Exchange, etc.*

*Patient info at the point of care*

*Additional data beyond core dataset*



## Support Accurate, Unique Patient Identification

*If not a national unique identifier, then something else*