Heathcare Innovation: The EMR and Beyond

M Turner Billingsley MD FACEP

What does healthcare look like going forward?

 | © InterSystems Corporation. All rights reserved. |

Inreasingly Distributed

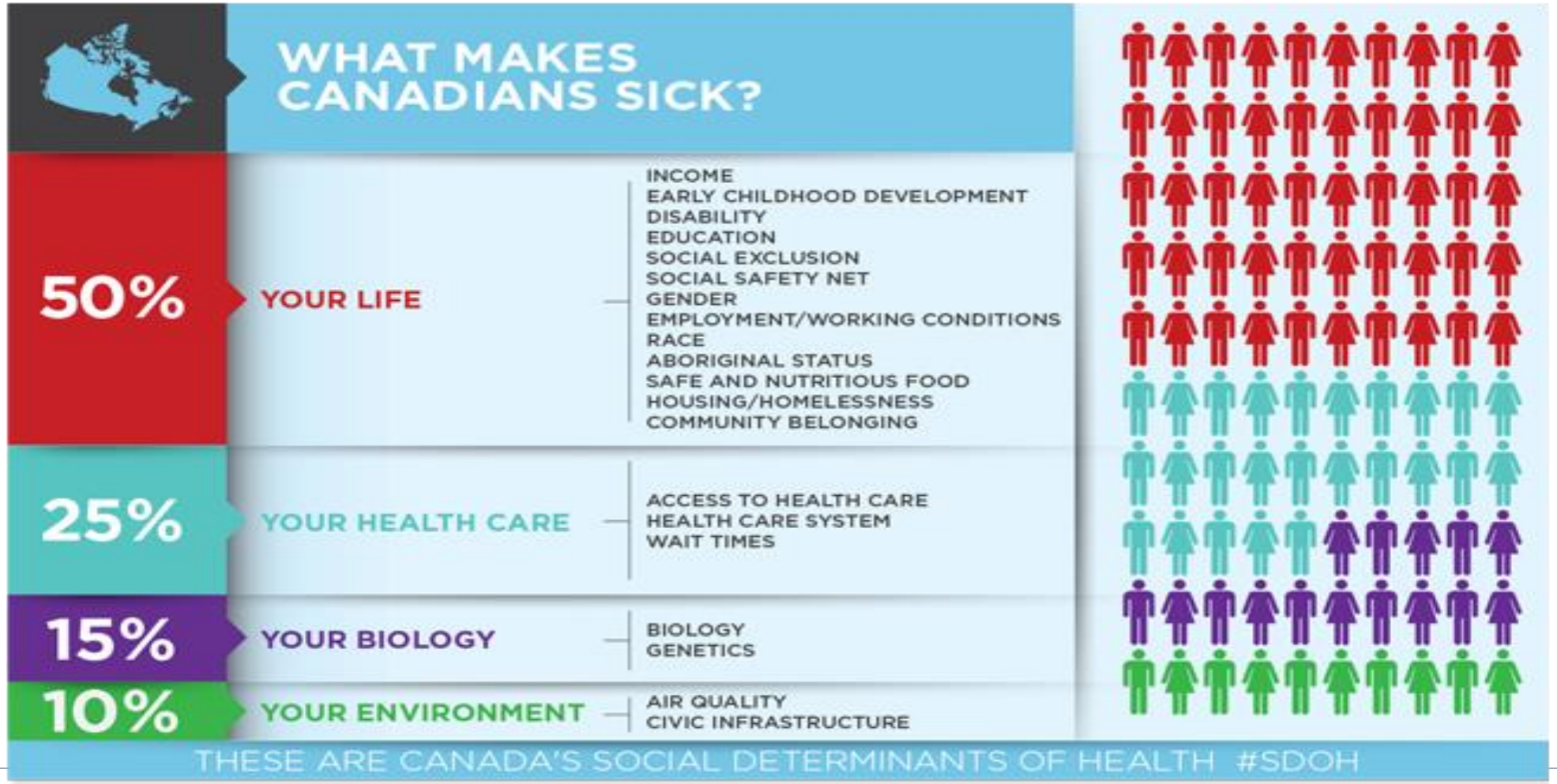
Patients with chronic diseases typically see multiple providers in multiple locations – and care is becoming decentralized

 © InterSystems Corporation. All rights reserved. |

 | © InterSystems Corporation. All rights reserved. |

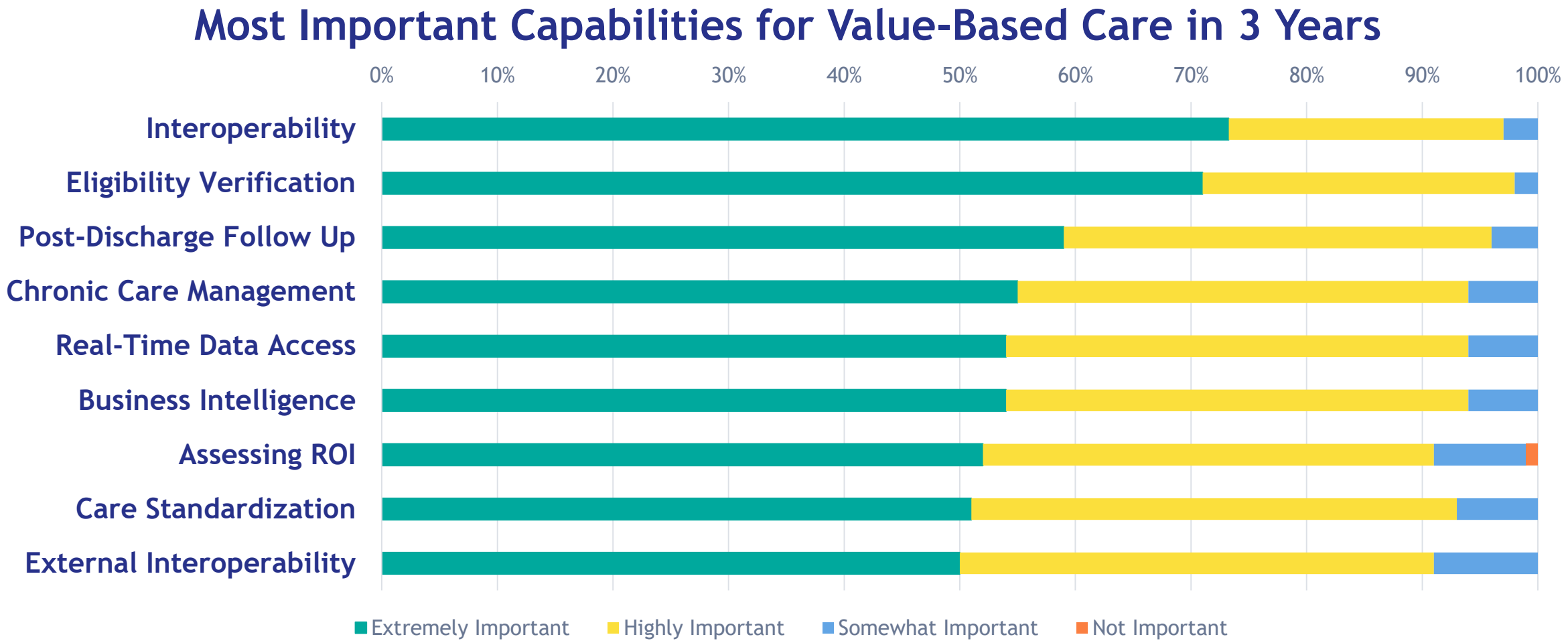
 | © InterSystems Corporation. All rights reserved. |

More Aware of Social Determinants



 | © InterSystems Corporation. All rights reserved. |

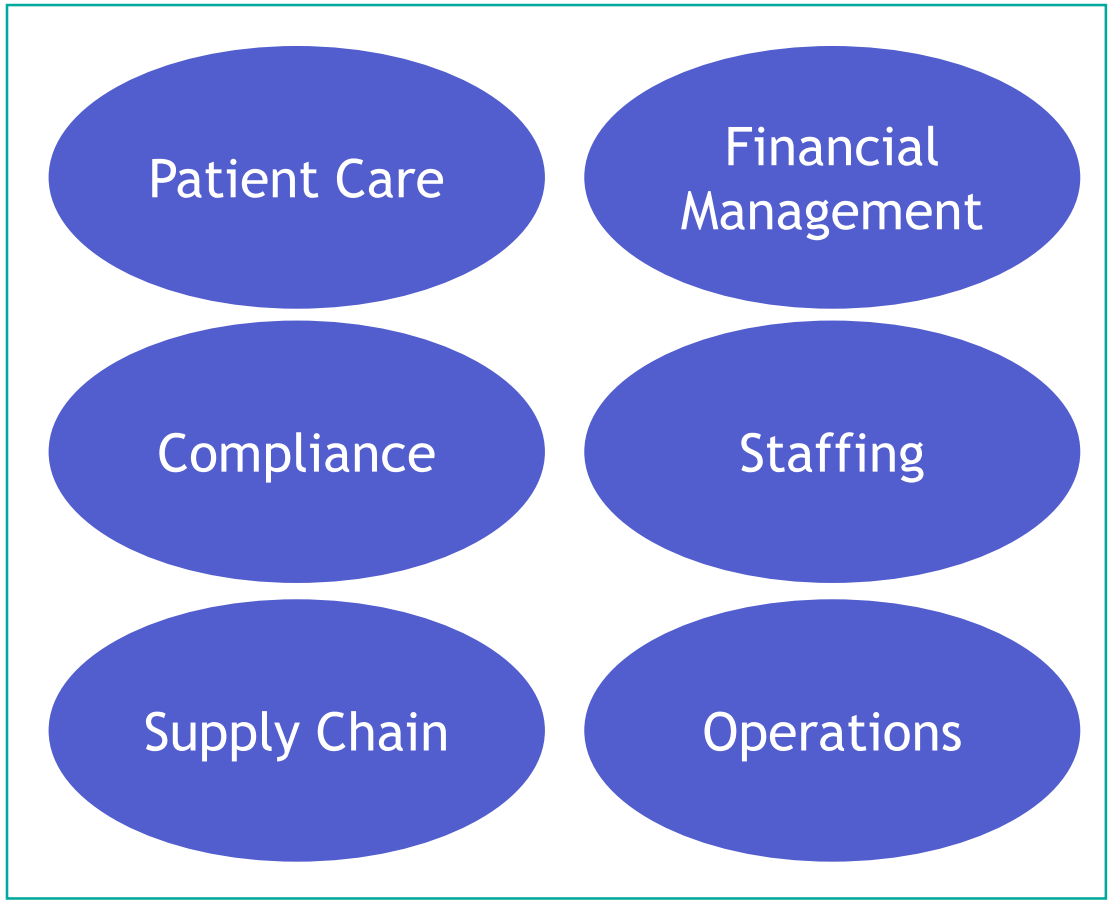
In Transition



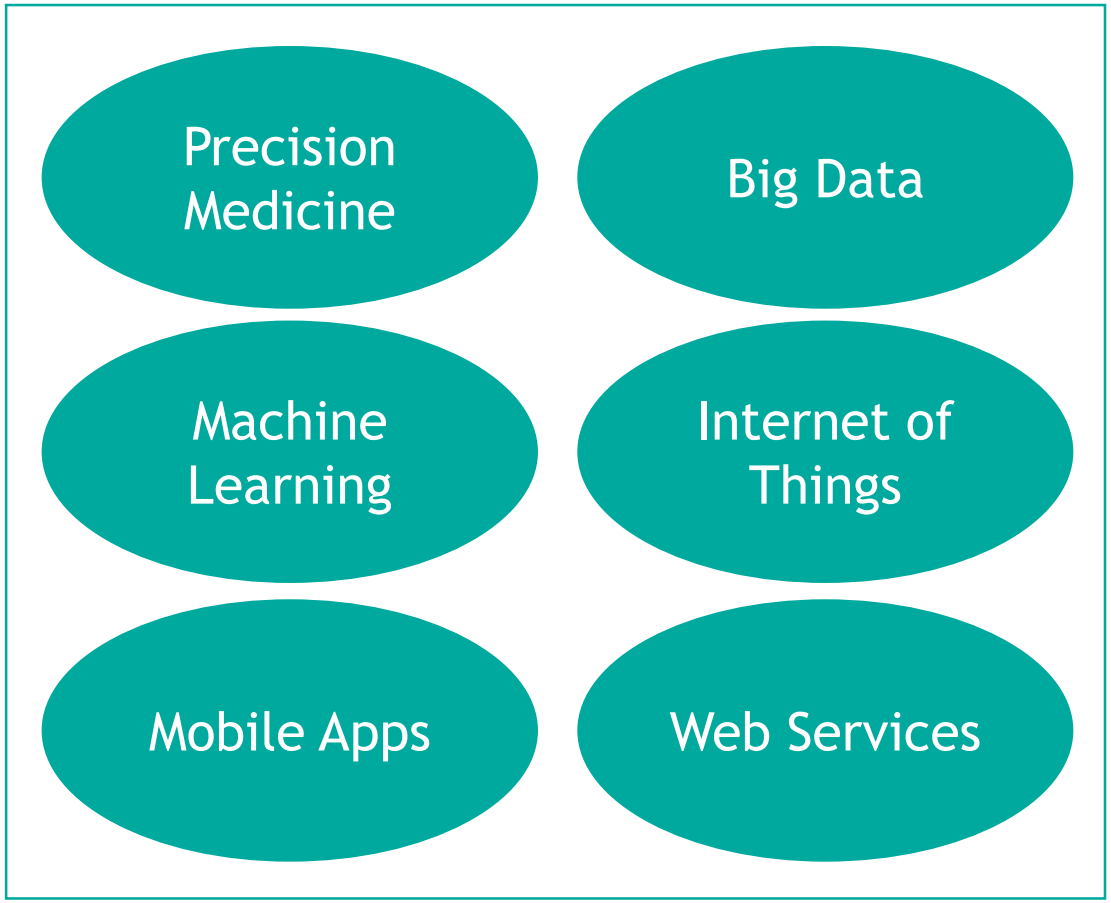
 | © InterSystems Corporation. All rights reserved. |

Source: HFMA Executive Survey http://www.hfma.org/ValueBasedPaymentReadiness/

Balancing Today and the Future (Innovation)



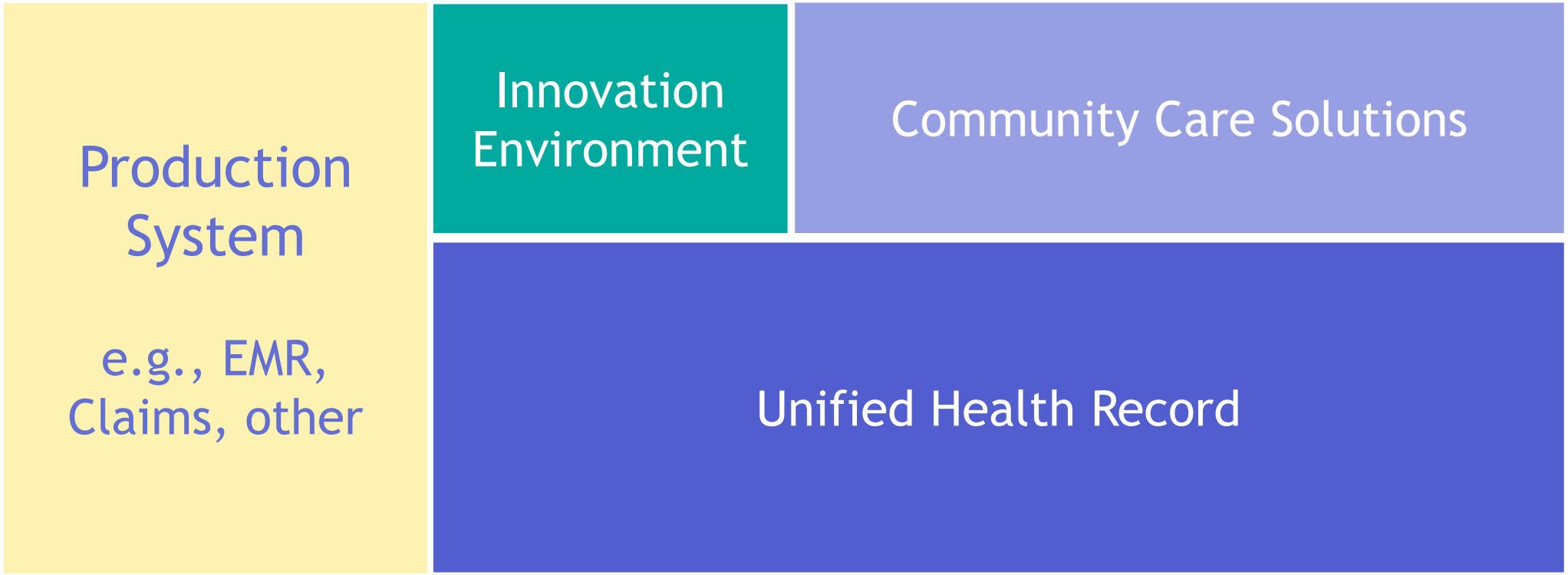
A need for stability, reliability, & gradual change



A need for continuous, rapid innovation

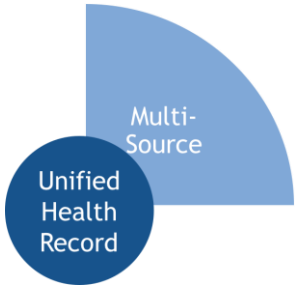
 © InterSystems Corporation. All rights reserved. |

Bimodal Health IT



 © InterSystems Corporation. All rights reserved. |

Doing What Matters



Creating Connected Care Communities Matters

St. Joseph Health℠ Covenant Health℠

9 Million Patients

300+ Unique Data Sources

2500+ Contributing Providers

350+ Participating Entities

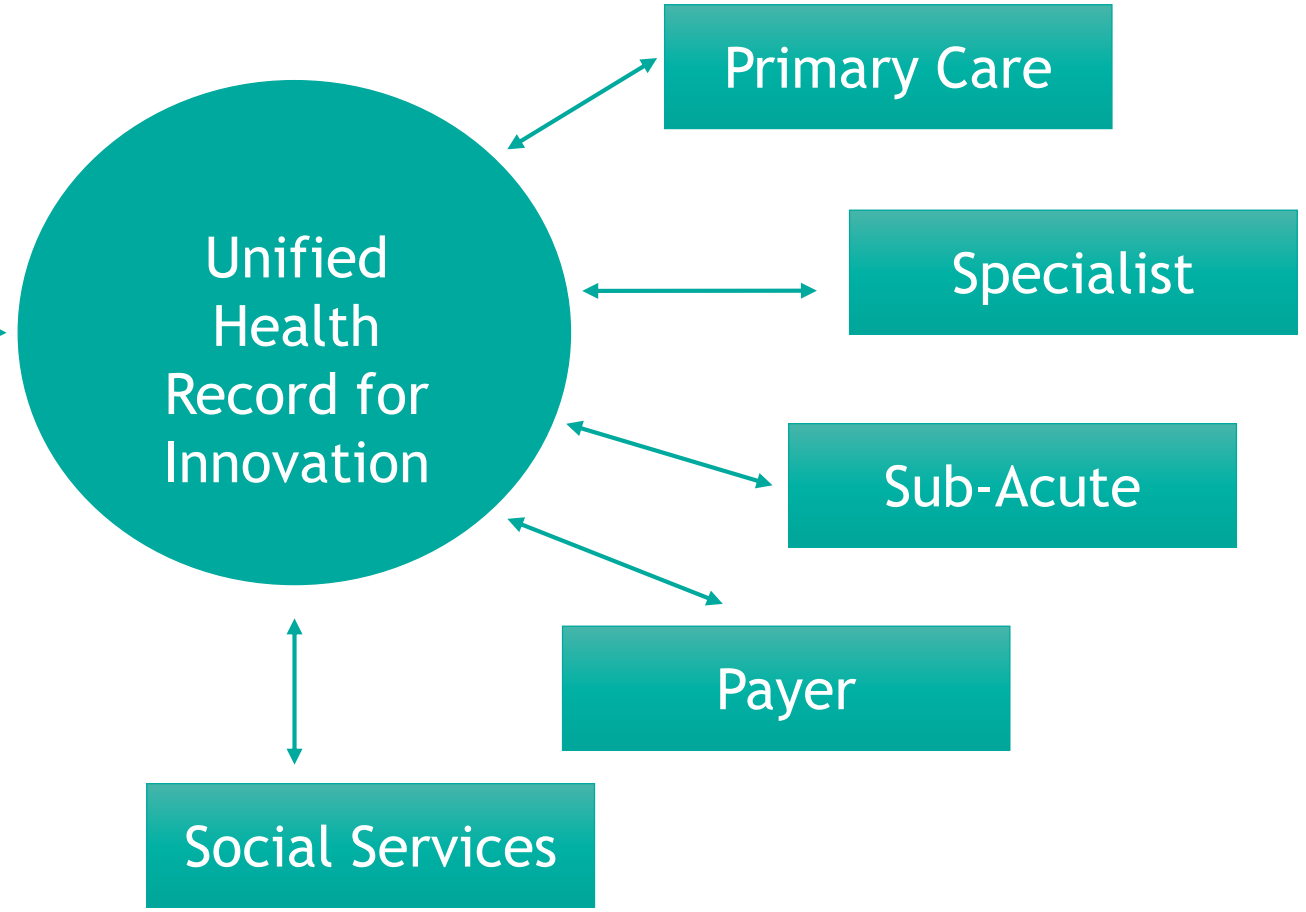
40+ Unique EHRs

 © InterSystems Corporation. All rights reserved. |

The EHR and a unified health record work together

Electronic Health Record (IDN):

- Clinical Documentation
- Revenue Cycle Management
- Clinician Workflow Management
- Back-office Workflow Management



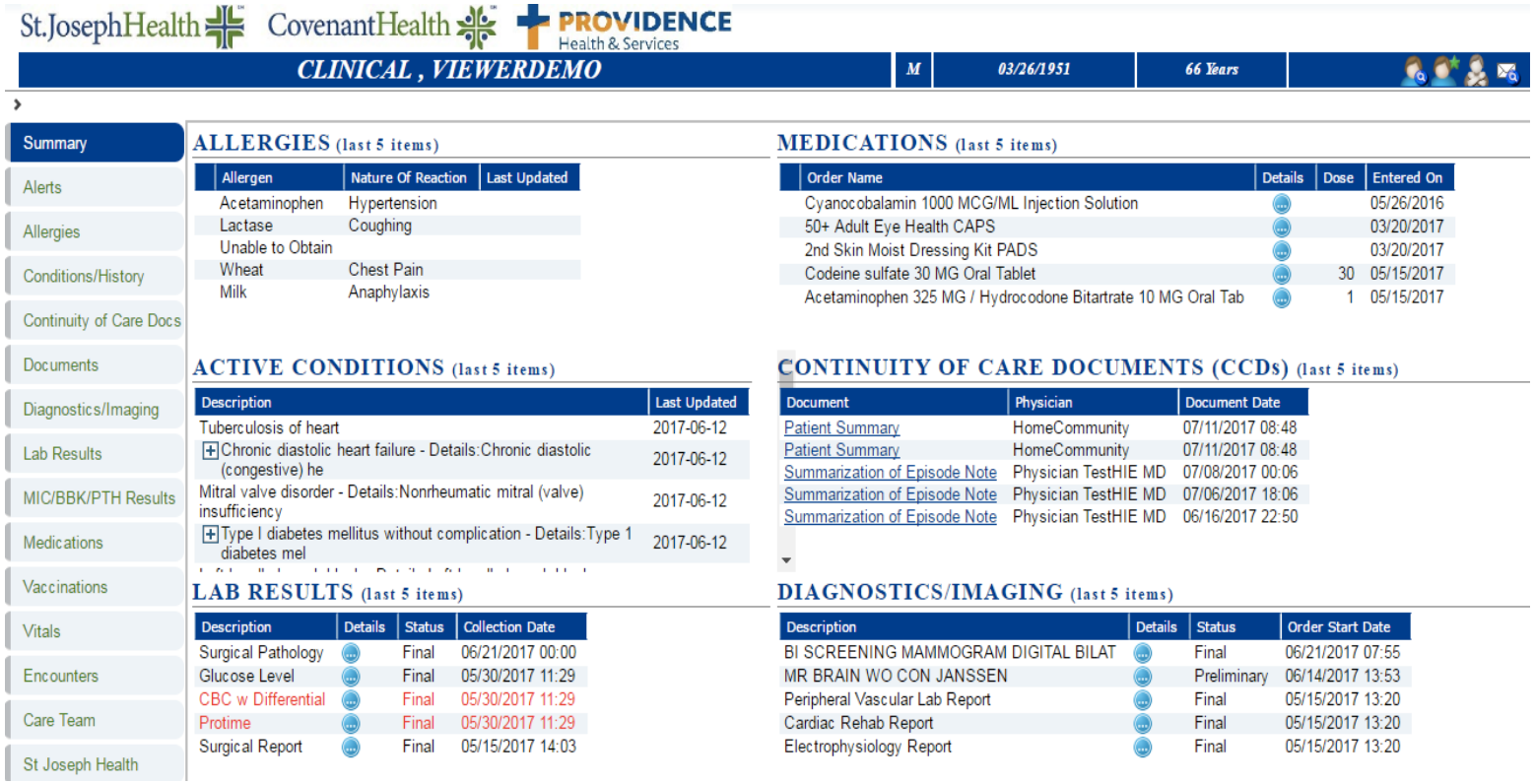
 | © InterSystems Corporation. All rights reserved. |

Clinically Integrated Network Provider Participation

90%	With a Signed Participation Agreement	**100%** with Access to ShareVue
70%	Contributing Encounter Data to the HIE	
70%	Contributing LabCorp and/or Quest Data to the HIE	
60%	Receiving Electronic Results and/or Sending Electronic Orders to/from the HIE	

 © InterSystems Corporation. All rights reserved. |

ShareVue: Enhancing Clinical Value

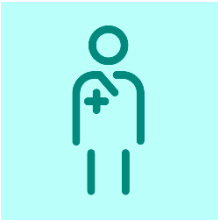


Access to the unified health record from anywhere

New features released quarterly, prioritized for clinical value and ease-of-use

 © InterSystems Corporation. All rights reserved.

From Proof-of-Concept to General Availability



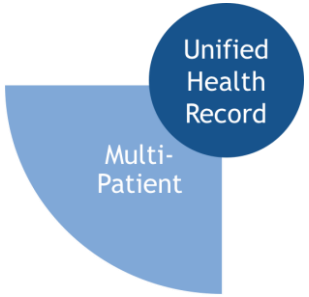
Care managers in Texas receive **notifications** when insurance-attributed patients are admitted or registered at any Covenant facility

Diabetes and CHF **clinical pathways** are available to providers in ShareVue

6 diabetes **quality measures**, calculated using HIE clinical data and validated for HEDIS definitions, are being validated for use as leading indicators for performance improvement

Pre-op users streamline workflow and reduce duplicate testing through real-time access to HIE data in **ePreOp**

 © InterSystems Corporation. All rights reserved. |



Improving Population Health Matters

Healthix

- Nation's largest public HIE
- Share patient encounter records for 600+ organizations across thousands of NYC/Long Island locations
- Over 500K real-time clinical event notifications each month
- Risk prediction/stratification drives focused patient care before adverse events occur for chronic and high-risk patients

 | © InterSystems Corporation. All rights reserved. |

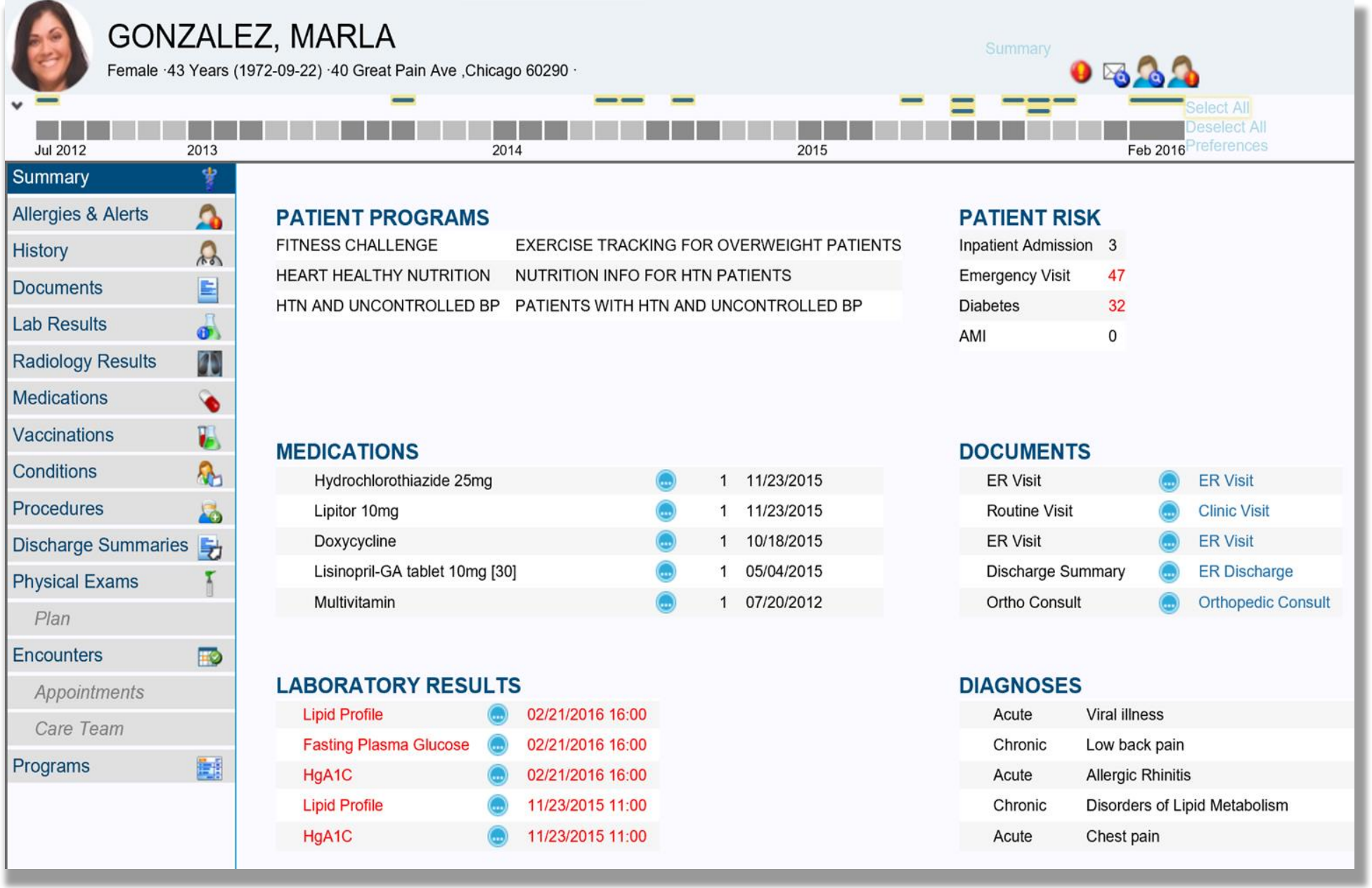
Knowing Where to Focus for Individual Care and Population Health

HBI predictive risk models

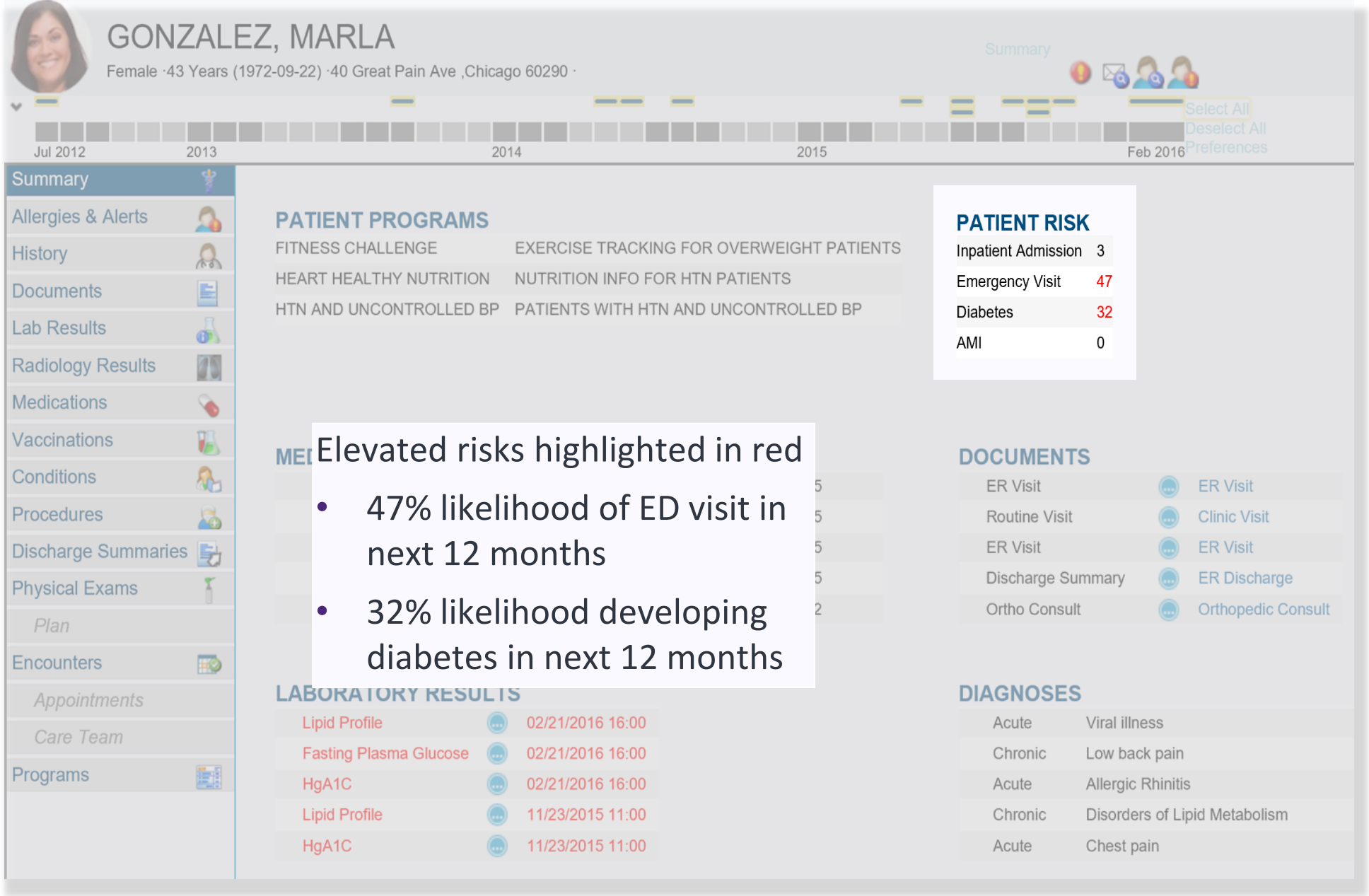
Unified Health Record

Intervention

 | © InterSystems Corporation. All rights reserved. |

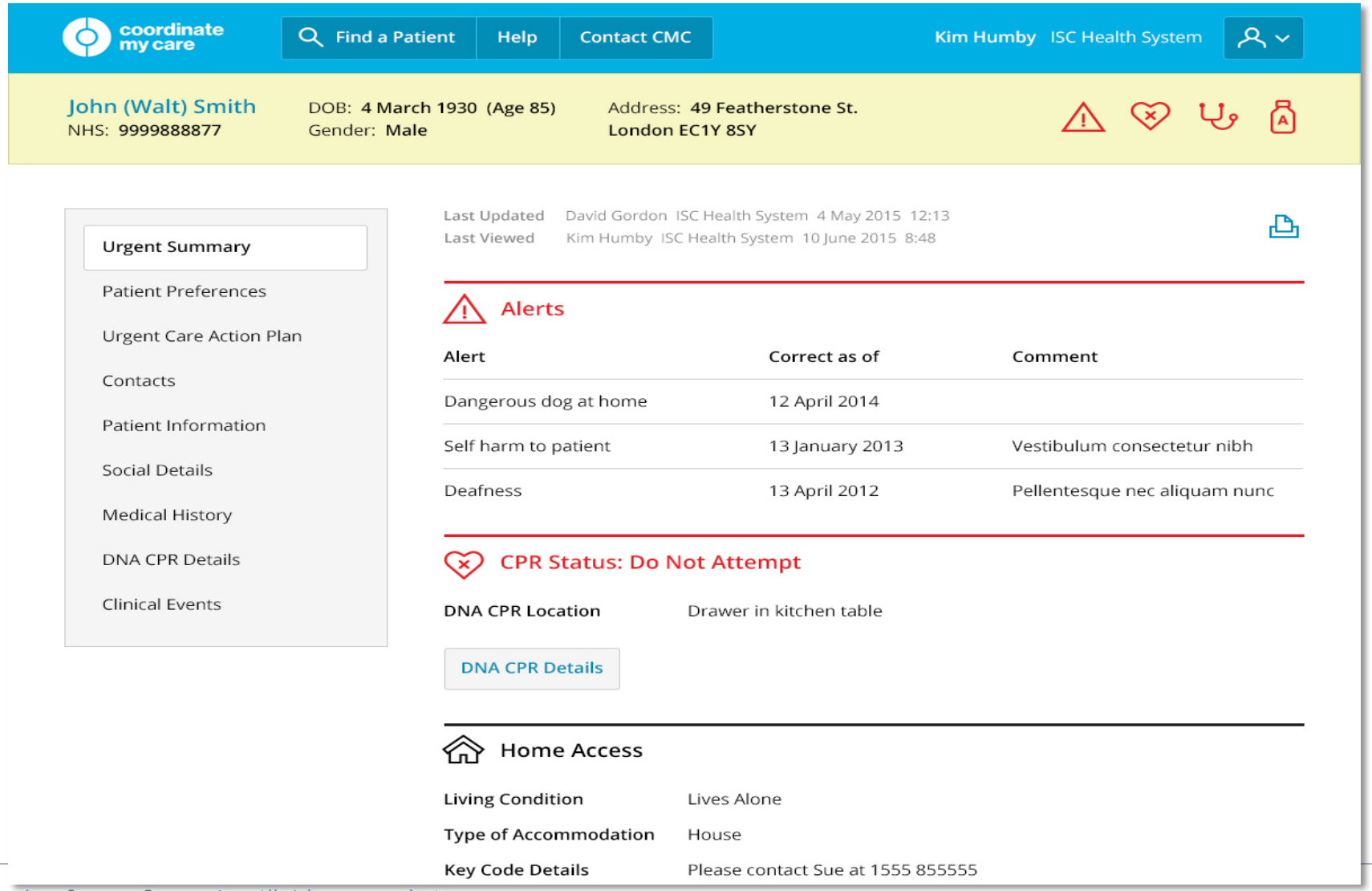


 © InterSystems Corporation. All rights reserved. |



 © InterSystems Corporation. All rights reserved. |

End of Life Care Coordination



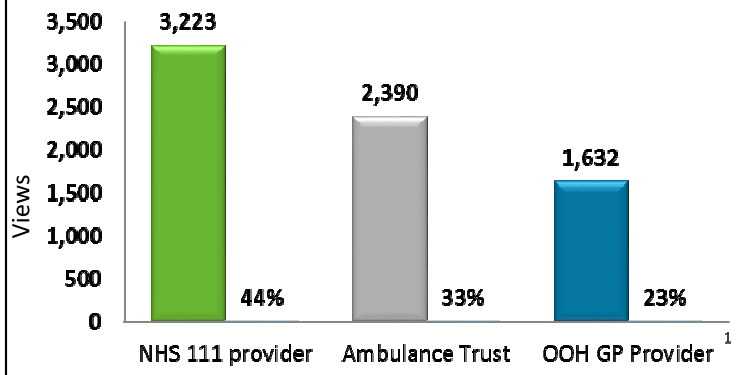
Personalized care plan

 © InterSystems Corporation. All rights reserved. |

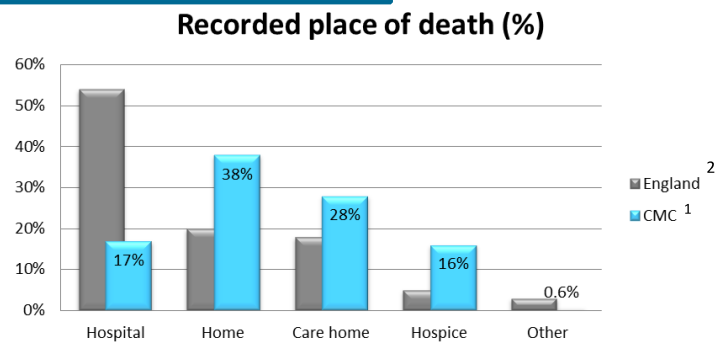
2
3

CMC Activity and Outcomes

1. Access to CMC by urgent care providers

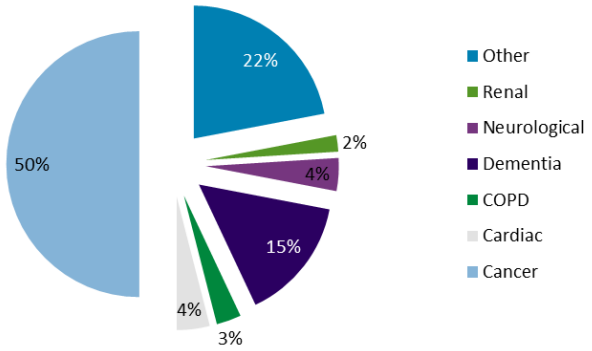


2. Actual place of death



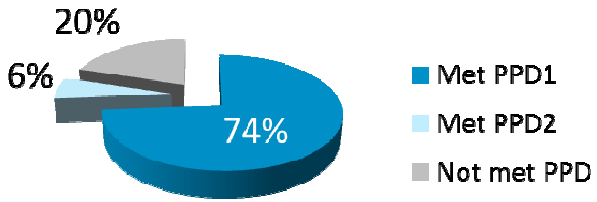
Where patients had a CMC record, **83% died OUTSIDE of hospital**, 17% died in hospital [1]

3. Recorded diagnosis



An increased trend of dementia as primary diagnosis [3]

4. Preferred place of death



80% of CMC patients have died in their preferred place [3]

3 Coordinate My Care | Data: 01.11.2014

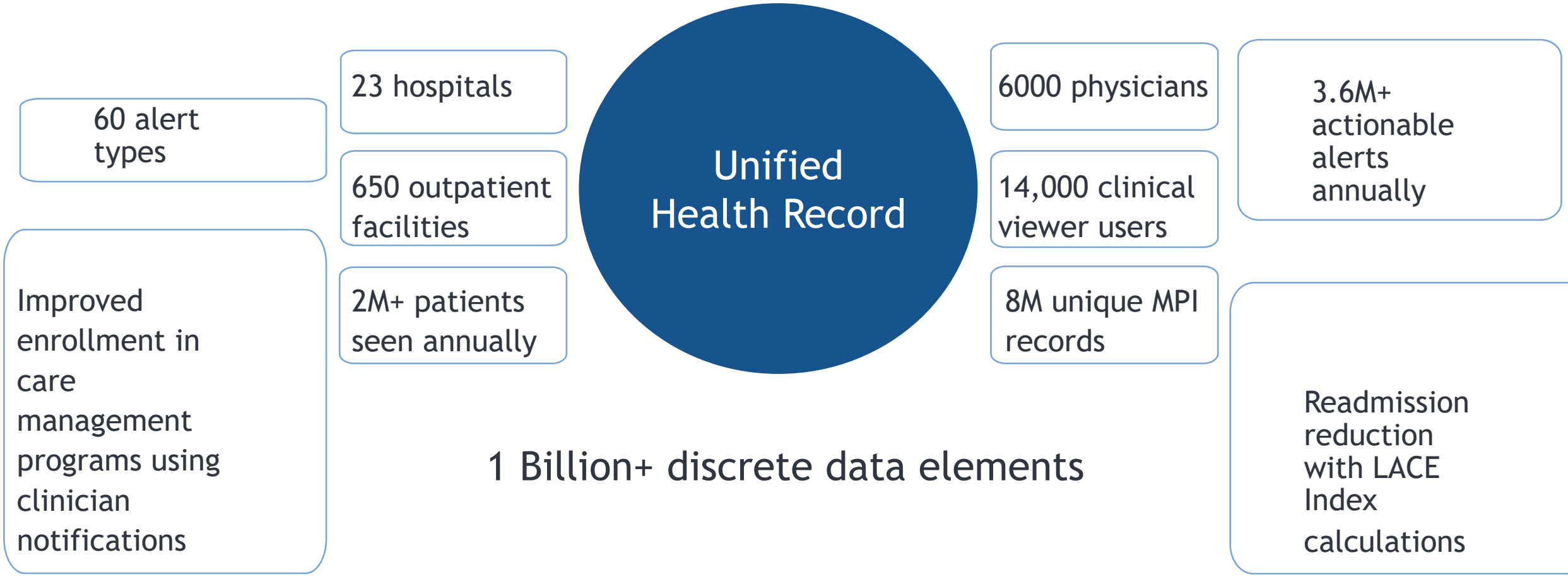
[1] Apr 2013-Sept 2014
[2] NEOLCIN, 2008-10
[3] May 2010 to Oct 2014

Northwell Health

Innovating to support an ever changing complex health care environment matters

 © InterSystems Corporation. All rights reserved. |

Northwell Health



 © InterSystems Corporation. All rights reserved. |

The power behind what matters.

InterSystems®
Health | Business | Government

Thank you.

Bring together the information that matters.

 © InterSystems Corporation. All rights reserved. |