



# **Making Exchange Work: Challenges and Opportunities Facing Healthcare CIOs**

presentation to  
**2013 Health Data Exchange & Interoperability  
Summit**

*Sharon Canner, Sr. Director of Public Policy*

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# CHIME



- CHIME is the College of Healthcare Information Management Executives
- More than 1400 chief information officers (CIOs) and other top information technology executives serving:
  - large integrated systems, community hospitals and small/rural facilities, critical access hospitals, physician practices
- CIOs represent the leading edge of health IT policy implementation, leading their organization on EHR Incentive Program implementation
- Government looks to CHIME to better understand the opportunities and challenges across federal programs

# Patient Matching and Patient Consent



- Today's topic is to lay out top opportunities and challenges for CIOs
- Focus is on patient data matching and patient consent for access and disclosure
- Both issues are essential to making health information exchange work
- As stakeholders, you the audience, have a very important role to play by working together to address these challenges
- eHI is historically a place for stakeholders to come together to address such problems

# Patient Data-Matching



Matched  
with

The Right  
Data

The Right  
Patient



# How Does it Work?



## Patient Matching Methodologies

### Deterministic

- Rapid Implementation
- Simple calculations
- Relies on accurate and consistent data

### Probabilistic

- Complex implementation
- Sophisticated algorithms
- Adjusts for minor data errors

# Why Should We Care?



## Patient matching methods are error prone

Types of errors include:

*False positives* - linking to the wrong records

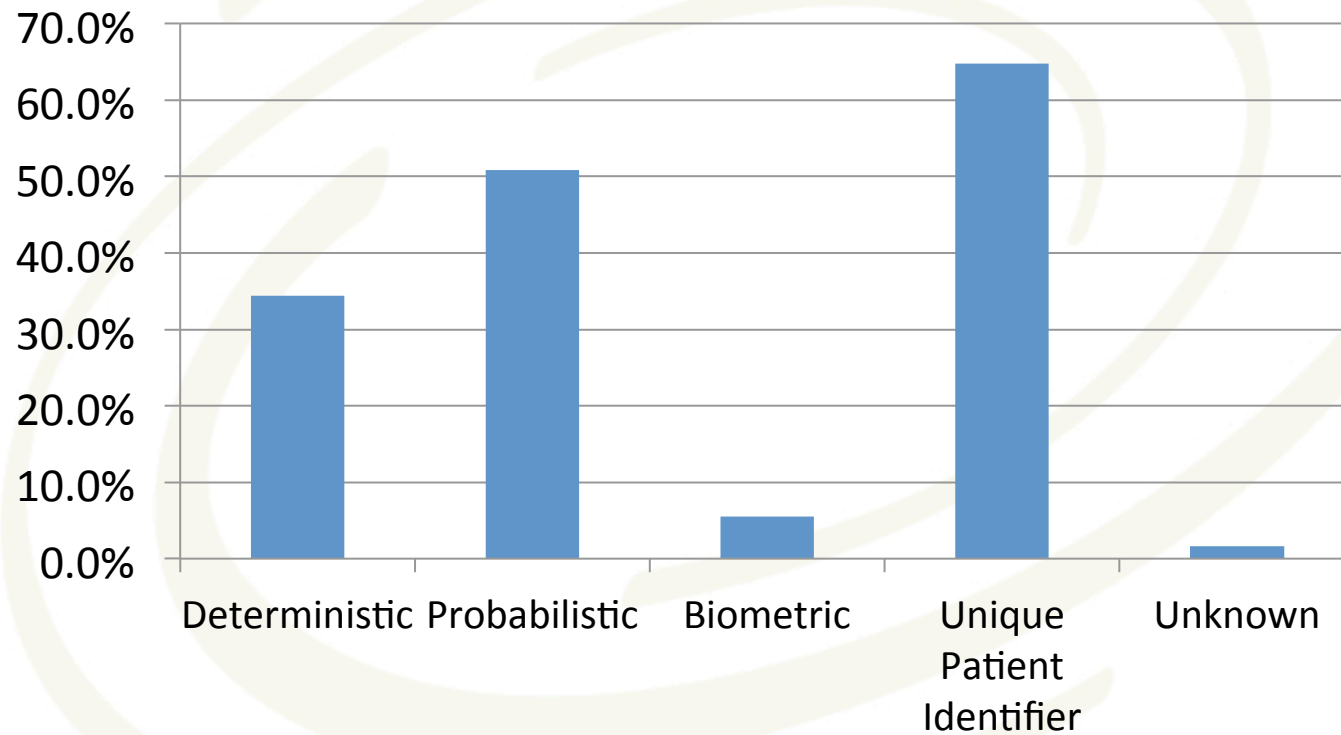
*False negatives* - missing the link between a patient  
and some part of the record

Published analyses have found false-negative error rates of about 8 % in medical databases, trending higher in databases with millions of records.

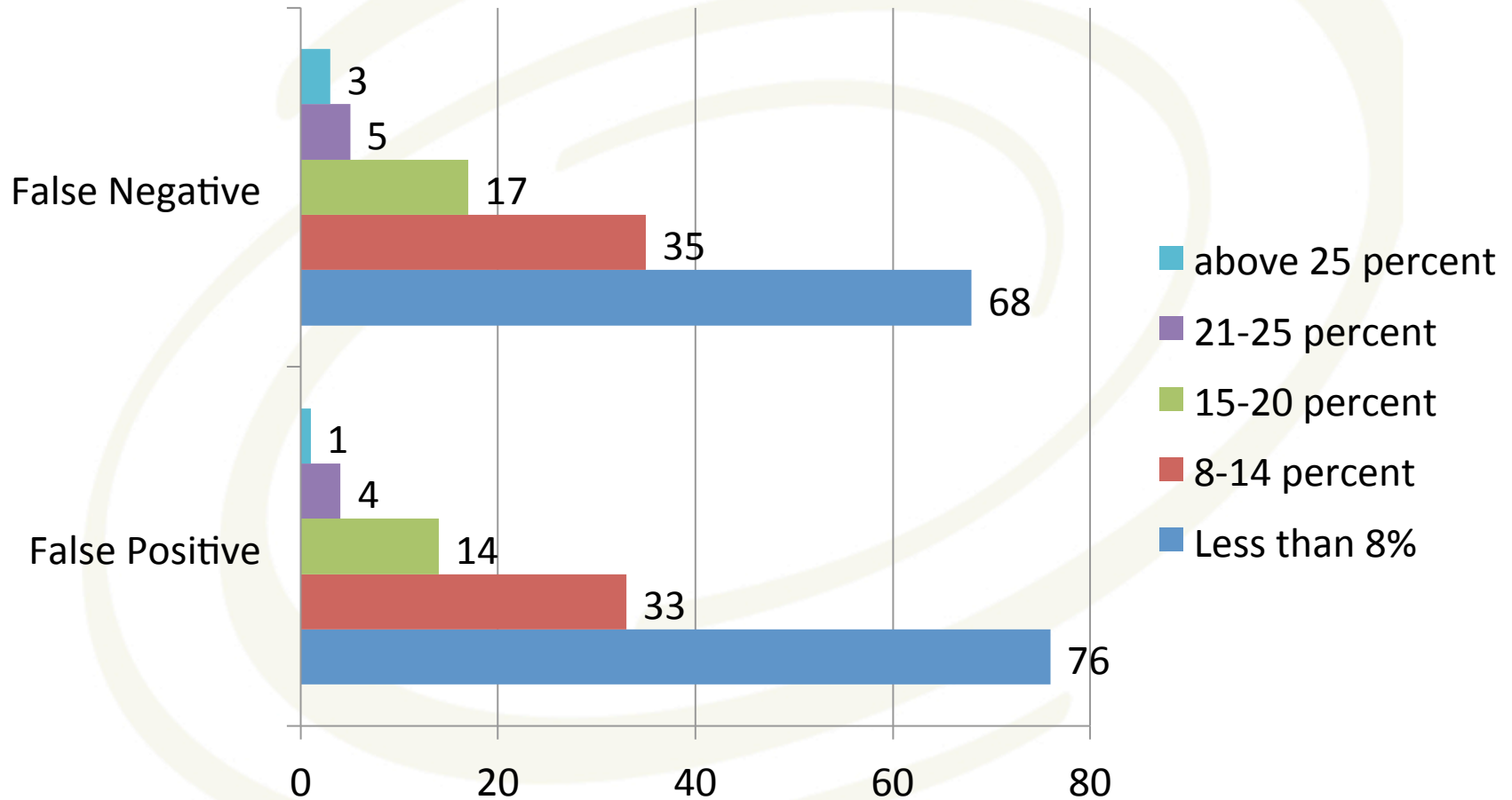
# CHIME Survey



**What technologies or strategies does your organization use to match patient data?**



In your experience, approximately what percent of health records have patient data-matching errors?

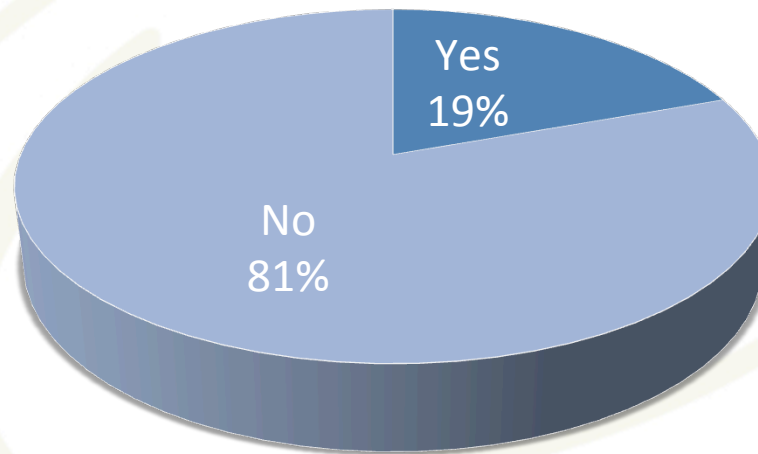




# CHIME Survey



**Has your hospital incurred an adverse event due to a patient mismatch in the last year?**



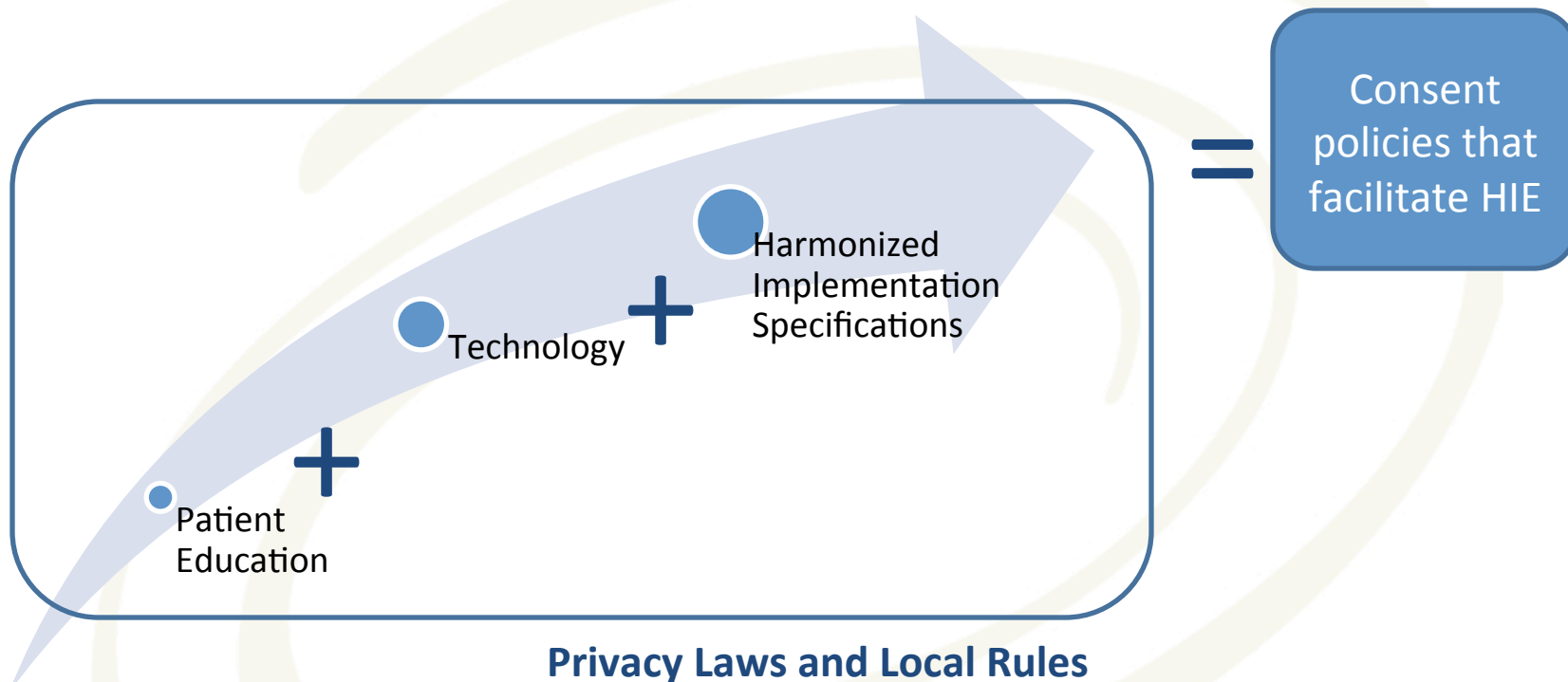
**\*\*For this survey's purposes, "adverse" is defined as: a negative consequence of care that results in unintended injury or illness.**

# Patient Consent



- Consent for access and disclosure
  - Varies by location, jurisdiction & personal health information type
  - Use and re-use policies are immature in most areas
  - Continued confusion over mental health, behavior health, H.I.V. / AIDS and other sensitive information versus Payment, Treatment and Operations data

# StateNet Consent Policy WG



## IF:

In accordance with privacy laws and local rules, (1) Patients are educated about their consent options; (2) Technology is utilized to enable the capture of those consent preferences ; and (3) Implementation specifications are harmonized across settings of care

## THEN:

Patient consent preferences will travel with patient data across settings of care and geographical boundaries to enable robust health information exchange.

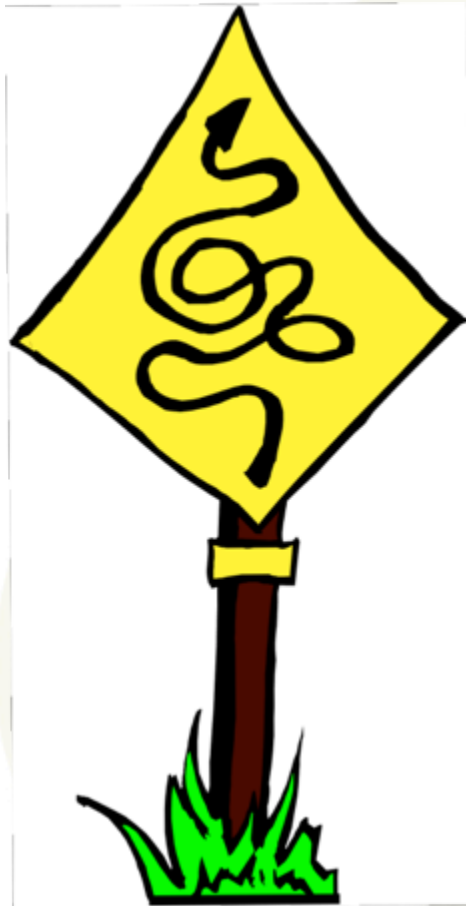
# S&I Framework Demos

- Data Segmentation for Privacy (DS4P) initiative
  - 3 demonstrations over the summer
    - Netsmart & Security Risk Solutions
      - A demonstration of automatically generated reuse disclosures based on presence of sensitive information
    - SATVA Ultra-Sensitive Privacy Disclosure (USPD)
      - Valley Hope Association
      - Cerner Behavioral Health
    - Regenstrief demonstration that segments data, using metadata, during a physician record query using the HIE

## Next Steps



- StateNet workgroup is reviewing S&I work, include ONC's Meaningful Choice policy guidance
  - Other efforts under DS4P, as well as other stakeholders, including EHR / HIE Interoperability Workgroup and Western States Consortium / National Association for Trusted Exchange, will be examined
  - Workgroup recommendations will be forthcoming in early 2014



Where do we go from here?



# Questions?



## CHIME Public Policy

**Gretchen Tegethoff, Chair**  
**Athens Regional Health System**

**Randy McCleese, Vice Chair**  
**St. Claire Regional Medical Center**

**Charles Christian, Vice Chair**  
**St. Francis Hospital**

**Sharon Canner, Senior Director of Public Policy, CHIME**  
[scanner@cio-chime.org](mailto:scanner@cio-chime.org)

**Jeff Smith, Director of Public Policy, CHIME**  
[jsmith@cio-chime.org](mailto:jsmith@cio-chime.org)

**Angela Morris, Public Policy Coordinator, CHIME**  
[amorris@cio-chime.org](mailto:amorris@cio-chime.org)

**Russ Branzell**  
**CHIME President and CEO**