

Patient Provided and Community Generated SDOH Data

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Making a Difference: The Last Mile- Moving from Research to Real Life

- Patient Provided Data
- Community Generated Data
- Data Within the Electronic Health Record
 - Acquiring
 - Documenting
 - Using
 - Making a difference with the data
- Envisioning the future
 - Opportunities
- Research Agenda
- Sharing your experience and your vision

Acquiring SDOH Data

- What data sources exist
 - Individual patient data
 - Obtained through questionnaires/ individual screening/ self assessment
 - Food, housing, transportation, violence screens
 - Accountable health community model
 - Cmmi supported ten question screening tool
- How do we get that data

IOM domain recommendations

- Race/ethnicity
- Education
- Physical activity
- Social connection/isolation Neighborhood and community address
- Financial strain
- Stress
- Depression
- Alcohol
- Exposure to violence

Examples of tools and data sets

- PRAPARE (protocol for responding to and addressing patients assets, risks and experiences)
- ACE- adverse childhood experiences
- Health Leads Social Needs Toolkit
- GIS data
- CDC Wonder data
- Zip code/census track data

Documenting SDOH data

- Mostly free text
- Specific codes
 - LOINC, SNOMED, ICD 10, CPT
- Pushing or pulling external data sets
- Integration/interoperable data sets
- Integration into workflow

Proposed Community Field model within LOINC

- Neighborhood crime
- Median income
- Unemployment rates
- Air quality
- Race/ethnic distribution
- Education level distribution

Using SDOH Data: Case Examples

- Indian health service
- OCHIN
- CKD care plan
 - Patient education
 - Health goals
 - RRT choices
 - Health literacy
 - Healthcare access
 - Computer/phone access
 - Food, housing security

Using SDOH Data: Case Examples

- Yelp for social services
- Transportation via internet based transportation services
- Use of SNAP via mobile applications
- Connecting all the PIECES
- FHIR and APIs to import/export social data
- Community Vital Signs and HIT systems

Making a Difference: Bridging the Gap

- Link and sync
 - Social services
 - Public health
 - Agencies
 - Support services
 - Care teams
 - Individual patients, families, communities

Interoperability in action: advancing interoperable SDOH

- Building a playbook
 - Identify and create vocabulary to represent SDOH
 - How to integrate new data elements within HIT
 - How to get the data in
 - How to use the data
 - How to get the data out and interoperable (FHIR??)

Envisioning the Future

- Improving health outcomes
- Achieving Health Equity
- Reaching Health Justice

Opportunities

- Patient, provider, health worker, community engagement
- Who does what and when
 - what is your vendor willing to do
- Who is responsible
- What doesn't your health care team do if they do this work
- Compassion fatigue
- Evaluate CDS algorithms to see where SDOH can be incorporated
- Data integration/ data interoperability
 - FHIR

Opportunities (ala barriers)

- Funding
- Patient/community engagement
- Health worker engagement
- Integration and interoperability
- Changes to reimbursement models

Research agenda for SDOH and informatics

- How to best use informatics to integrate SDOH into workflow
- Who captures and reports the data—patients, etc
- What level of granularity is needed
- What is the right vocabulary
- Individual vs community level data- what matters
- How do you integrate into workflow
- User interface/Human Centered Design
- How do you integrate into CDS
- What measures alone or in combination are clinically actionable
- How do you close the loop on referrals
- Who has best practices that can be used
- What really happens in the last mile in the last minute

The Future (is getting brighter)

- Federal Role
 - Change in CMS proposal for e/m codes
 - FCC and Connected Care
- Private-Public Partnerships
 - Establishment of a clearing house for SDOH
- Academic
 - Evaluation of the impact on the last mile and patient/health of SDOH
- Ethical
 - Guiding principles for work
 - Impact on Health Justice

Lessons Learned

- What are your experiences?
- What have you learned?

Navajo Blessing Way

In beauty I walk

With beauty before me I walk

With beauty behind me I walk

With beauty above me I walk

With beauty around me I walk

It has become beauty again