

Translating Health Knowledge and Using Emerging Technologies for Ethnic Minority Populations



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Presenter Disclosures



Allan Noonan and Eduardo Velasco

The following personal financial relationships with commercial interests relevant to this presentation existed during the past 12 months:

- ▶ No relationships to disclose.



What are Emerging Technologies?



- ▶ The practical application of knowledge
- ▶ A manner of accomplishing a task especially using technical processes, methods or knowledge
Merriam-Webster's Collegiate Dictionary, Tenth Edition
- ▶ Interventions that are developed to improve health and quality of life
- ▶ Examples:
 - Immunizations, medications, information technology, screenings, surgical procedures, devices/equipment, therapies, genomics, robotics, neuroimaging

Health and Social Justice




- ▶ WHO definition of health: Health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity.
- ▶ In the context of Social Justice: Quality without equity is an example of social *in*justice, and will result in poor health for the population overall.

Session Overview



- ▶ Review of examples of the impact of evolving health knowledge and emerging technologies on specific health problems of ethnic minority populations.
 - Mental health
 - Sickle cell disease
 - Diabetes




Access to Effective Behavioral Health Treatment Programs for Insured Minority Populations: What Works?

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Mental Health: Challenges

- ▶ Destruction of the mental health infrastructure
- ▶ Justice system responsible for more mental health care
- ▶ Differential marketing
- ▶ Prevention plays a secondary role to treatment
- ▶ Lack of trust
- ▶ Stigma




Screening


- ▶ Inadequate diagnosis
- ▶ Cultural idiosyncrasies misinterpreted as mental illness
- ▶ Reluctance to reveal signs and symptoms
- ▶ Stigma
- ▶ DSM V does not include enough information relevant for ethnic minority populations

Treatment: Systems Change 


- ▶ Employ family- and community-based treatment/therapy modalities
- ▶ Implement new and develop additional therapeutic treatment modalities for ethnic minorities
- ▶ Importance of health information technology in enhancing provider-provider and provider-client communication
- ▶ Change the mental health workforce:
 - Increase diversity of types of providers
 - Increase ethnic diversity of providers
 - Increase involvement of primary care providers

Impact of Health Care Reform on Mental Health 

- ▶ Health Insurance Exchanges (2014)
- ▶ Expanded Medicaid to childless adults (2014)
- ▶ Health care workforce improvements
- ▶ Cures Acceleration Network (CAN)
- ▶ Melanie Blocker Stokes Postpartum Depression Program
- ▶ Centers of Excellence on Depression

Sickle Cell Disease: Screening and Treatment 

- ▶ Newborn Screening recommended - 1987
- ▶ Newborn screening for sickle cell implemented in all states - 2006
- ▶ Prophylactic penicillin for the first five years
- ▶ Hydroxy Urea and other treatments


**Sickle Cell Disease:
The Future** 

- ▶ Impact of lab decentralization, virtual labs
- ▶ Point-of-care testing
- ▶ Further clinical research on new treatment options (umbilical chord blood as stem cell sources)
- ▶ Availability of NBS results at adolescence


**A Review of Literature on
Diabetes Mellitus Type II Prevention
and Management Interventions for
Minority Populations**

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Purpose 

- ▶ Review literature and evidences on best practices and interventions that work in minority community settings
- ▶ Identify intervention strategies that have a positive impact on maintaining optimal blood glucose levels, promoting healthy behavior, and improving quality of life of diabetic adults

**Impact of Health Care Reform
On Emerging Technology** 

- ▶ Development of new technologies
- ▶ Expanded coverage
- ▶ Comparative Effectiveness Research
- ▶ New quality standards



THANK YOU

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