

Primary Care and the RiskMAP System: The Diamond-Coal Interface?

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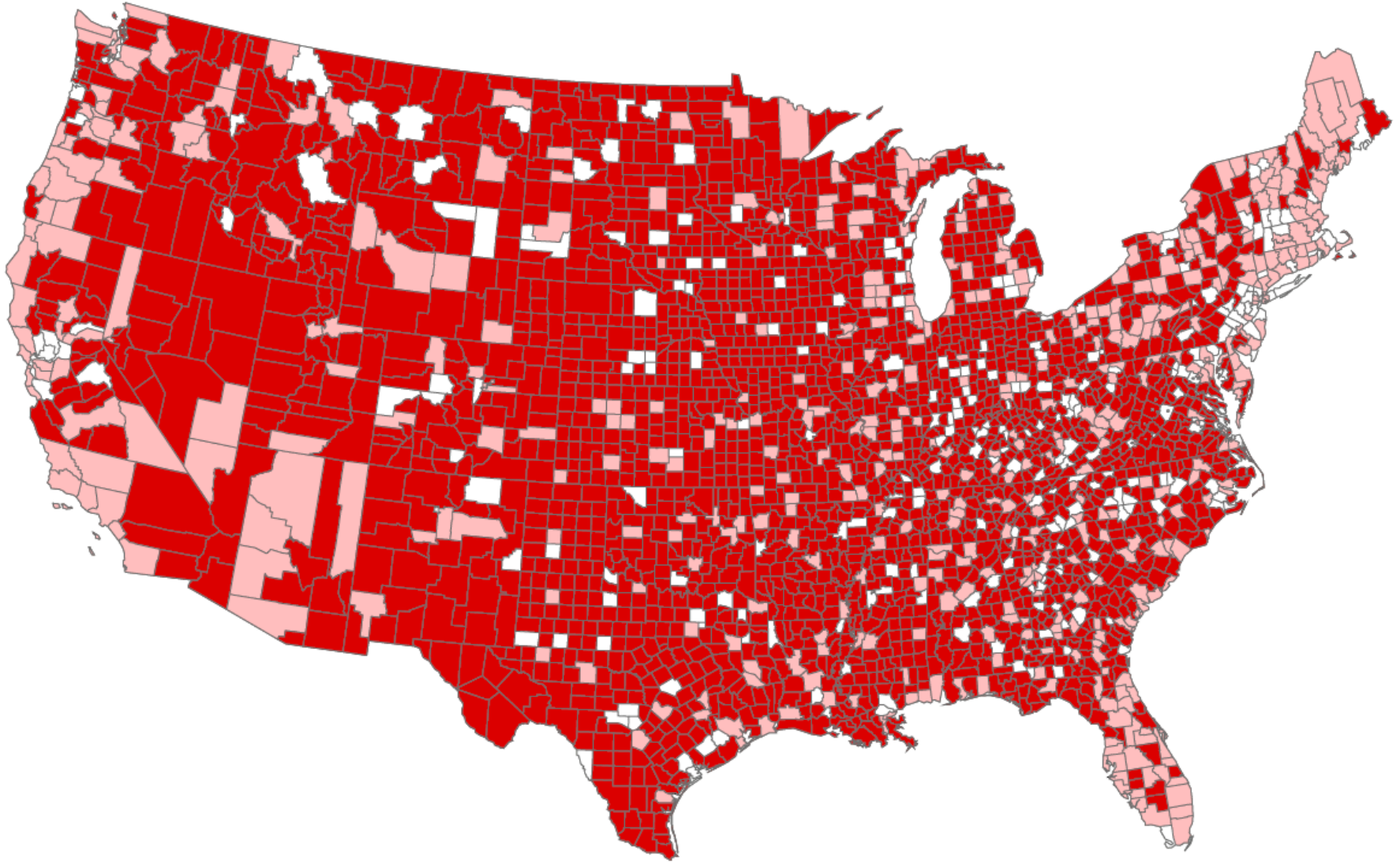
Implementation of RiskMAPs

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Key Points

- Primary care as critical access providers
- Hard stops and clinical decision support
- Avoid steering by the wake
- Is this the tip of the iceberg?

PRIMARY CARE HEALTH PROFESSIONAL SHORTAGE AREAS
IF FAMILY PHYSICIANS WERE WITHDRAWN



Primary Care and Outcomes

- Country's with strong PC systems have better health outcomes at less cost
- States with higher PC ratios have better health outcomes at less cost
- Counties with higher PC ratios have better health outcomes at less cost
- Individuals who access PC have better health outcomes at less cost
- Inequities in medical outcomes due to SES and Race are ameliorated by higher PC ratios

Starfield, B et. al. Millbank Quarterly 2005;83:457-502

Primary Care on the Edge

- Primary care incomes are falling
 - Many doctors earning less than \$100K/yr
 - Limited billing options highly tied to time
 - Procedural specialty income still rising
- New graduates choosing other fields
- Work load and expectations unrealistic
 - 17+ hrs/day to provide chronic disease and prevention care alone

Clinical Decision Support (CDS)

- CDS - synthesis function
 - Requires two levels of synthesis
 - Clinical knowledge must be sufficient to reach logical and defensible recommendations
 - Decision points must be actionable
 - Correct data must be available to apply actionable rules
- Asthma guidelines
- Medication CDS

Clinical Decision Support

- Detail is critical
 - Pap smears – 6 moX3, 12, 24, 36 mo
 - Computer decision support for MI
- Archimedes model
 - Moves towards shared decision making
- Hard, soft and passive approaches
 - Hard stops are rare, passive is rarely used

<http://www.diabetes.org/diabetesphd/default.jsp>

RiskMAP as Hard Stop

- Where do we find hard stops?
 - Hospitals – OR, antibiotics, selected studies
 - Oncology – chemotherapy
 - Insurance companies
- How are they accepted?
 - Where they clearly work and support quality they are accepted and welcomed
- Can they have consequences?

Pediatric ICU Experience

- Hard stops initiated as new CPOE system installed
- Goal - Improve safety by creating hard stops
- Actual outcome – death rate rose
- Work flow with critically ill patients not accounted for

Do Carrots Work?

- Soft stops and increased re-imburement - the Aetna experience
- Improve depression care
- PHQ-9 monitoring can help
- Pay extra for performing and documenting use of PHQ-9
- Required extra training, extra billing step
- Poor cost – benefit perception

CDS that Works

- Build into the workflow
 - Help me do what I am trying to do anyway
- Easier to take correct action than wrong
 - Medication – lab ordering links
- Data synthesis and transfer critical
 - Robust data scavenging, robust algorithms
- Sweat the small stuff

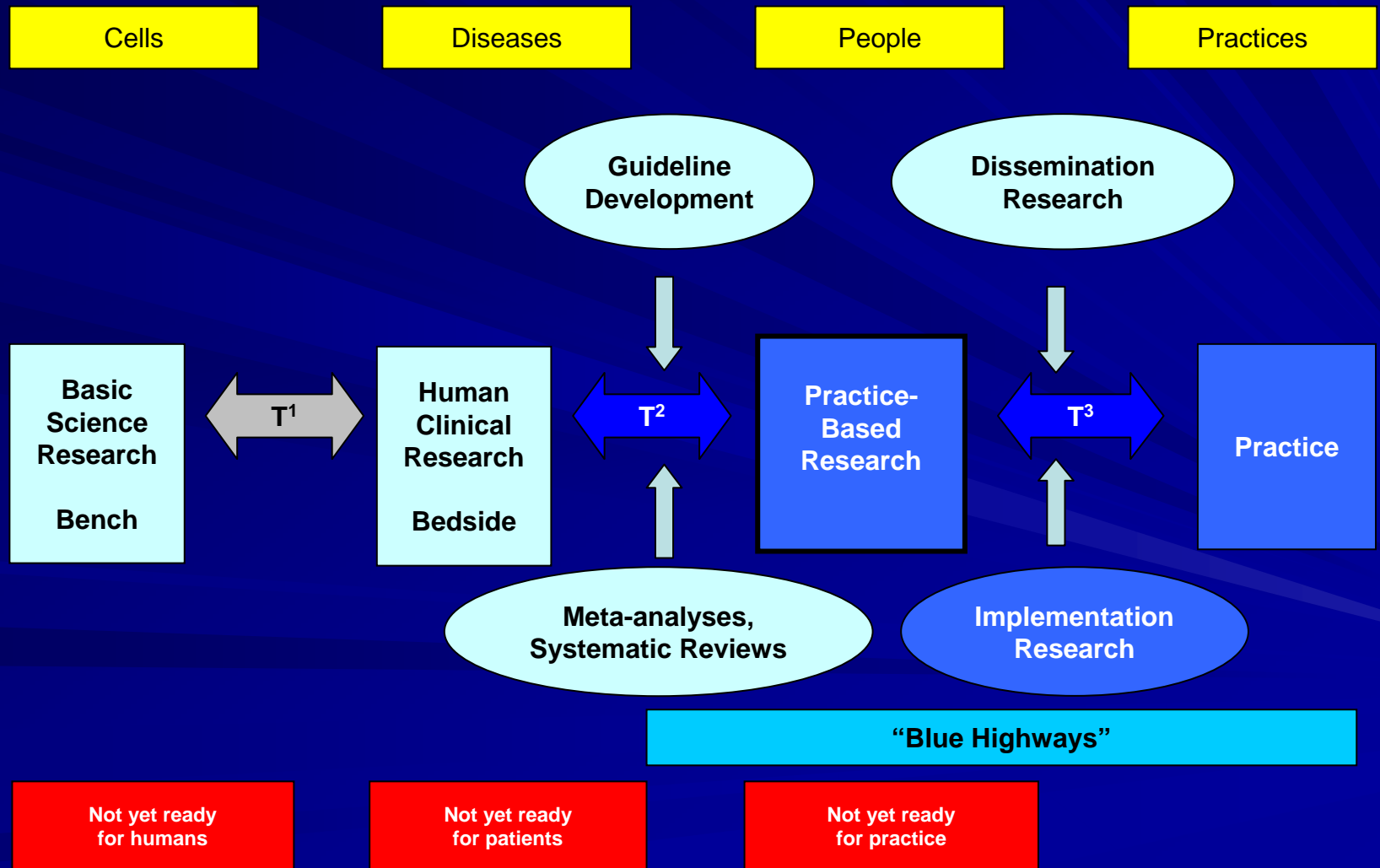
Is There Small Stuff?

- Isotretinoin (Accutane) as example
- Women child bearing potential
 - Two effective forms of birth control AND
 - Monthly pregnancy tests
- Are exceptions allowed?
 - Hysterectomy
 - Turner's
 - Androgen insensitivity syndromes
- What clinician handles both issues?

Avoid Steering by the Wake

- Great way to keep a boat perfectly straight
- Hard to see the iceberg ahead
- FP's and EMRs
- CCR
- PHRs
- RxHUB
- Pharmacy receptor sites

Implementation and Practices



Diamond or Coal

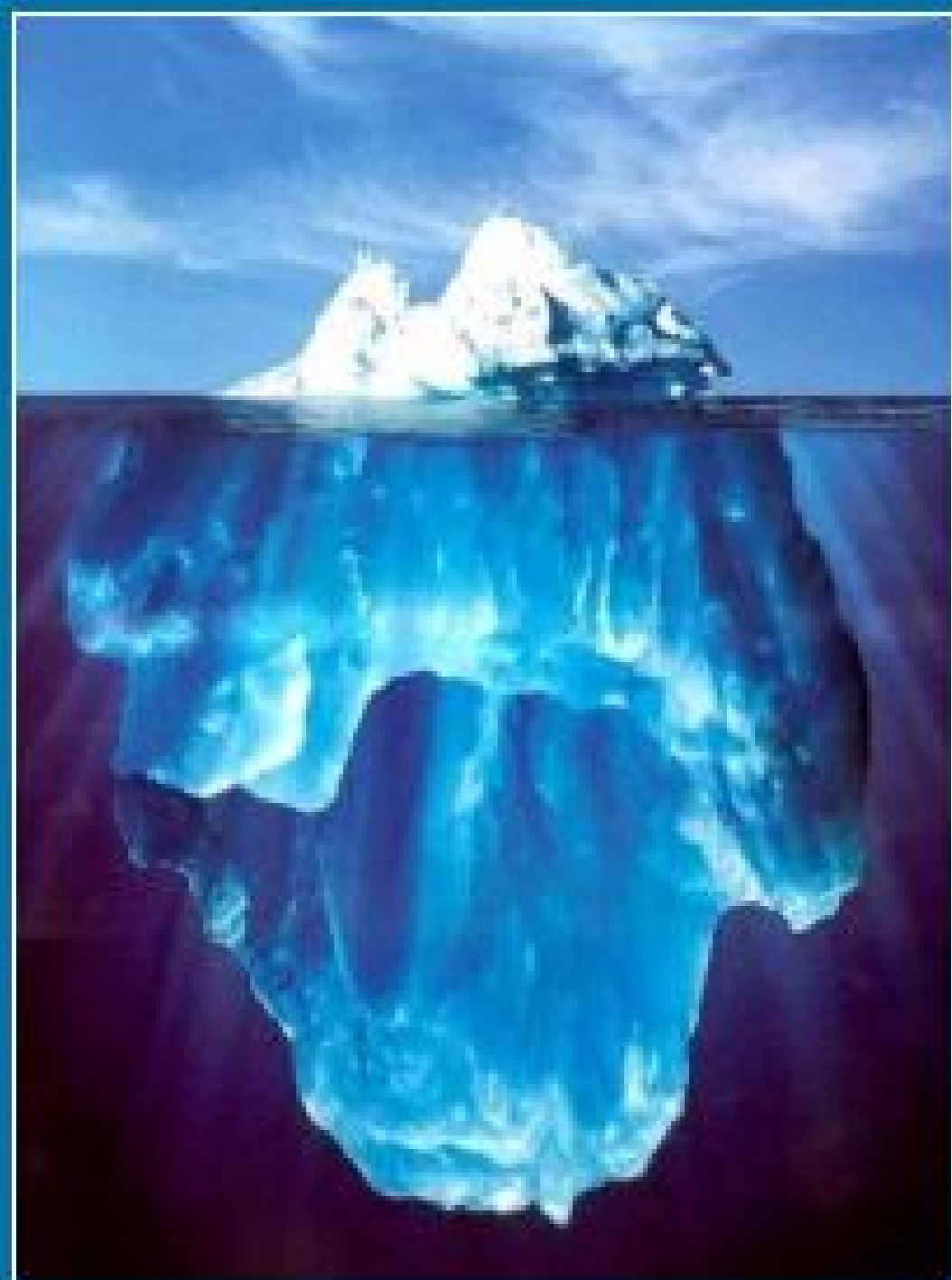
- Small set of medications on RiskMAP
- Few are used by primary care or most ambulatory providers
- Little pressure to rethink the system
- What is the role of pharmacogenetics and RiskMAP?

Hypothetical

- A drug raises HDL and should lower cardiovascular risk but in population studies the reverse is found – is this a population or genetic cohort issue
- A drug dramatically improves the functioning of individuals with schizophrenia but increases the risk of fulminate hepatitis

Data Storage and Transfer

- HIPAA and the Universal Medical ID #
- Central data bank from cord blood?
- Regional or national data exchange
- Patient level storage
- Current fragmented approach is not going to support the coming reality



Tip of
the
Iceberg?