

**Everything That Rises Must Converge** 

The Co-Development of Genome-Based Therapeutics and Companion Diagnostic Tests.

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# Fryback and Thornbury -- 1991

- Level 1: Technical efficacy analytical validity
- Level 2: Diagnostic accuracy efficacy clinical validity
- Level 3: Diagnostic thinking efficacy
- Level 4: Therapeutic efficacy
- Level 5: Patient outcome efficacy clinical utility
- Level 6: Societal efficacy



## Current System

- CLIA Analytical validity and quality assurance
- FDA Analytical and clinical validity
- Third party payers and others Clinical utility



# **Modest Proposal**

• Let these entities do their jobs



#### CLIA

- Let CLIA regulate labs to assure a quality operation and to allow for a sampling of the evidence that analytically valid systems are in place
- Don't try to turn a well functioning sedan into a double Decker bus



#### **FDA**

- Let FDA regulate diagnostic medical devices
- Regulation should be risk based and not determined by the business model used to bring the test to market
- Re-read the regulations



## Third Party Payers

- Let/encourage/demand third party payers make evidence based decisions
- Cost-consciousness, cost-effectiveness, cost containment should not be dirty words
- Make this the last word and make it loud



## Change the Conversation

- Less discussion of administrative, legal, regulatory niceties
- More discussion of how to tame the science so the niceties don't matter
- Back to basics get science right



### **Bad Science**

- If the goal is to move toward evidence based medicine, we need good evidence
- A need for stakeholders to recognize an inexorable fourth R (Right drug, Right patient, Right time, Right data/information)
- It shouldn't be this hard
- Need for leadership in the design and orchestration of studies



### The Choice - W.B. Yeats

 The intellect of man is forced to choose perfection of the life, or of the work, And if it take the second must refuse A heavenly mansion, raging in the dark. When all that story's finished, what's the news? In luck or out the toil has left its mark: That old perplexity an empty purse, Or the day's vanity, the night's remorse.

