Defining the Profession

SCDM Present and Future
Sunday September 23, 2012
## Discipline Maturity Model

<table>
<thead>
<tr>
<th>Skilled trade</th>
<th>Profession</th>
<th>Discipline</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Learn by</strong> trial &amp; error OR skill training</td>
<td>Learn by apprenticeship, OJT, Best Practice</td>
<td>Learn by formal degree programs, OJT 2°</td>
</tr>
<tr>
<td>Work activity is an “art”</td>
<td>Activities coalesce, form practice supported by body of knowledge</td>
<td>Profession supported by a scientific discipline</td>
</tr>
<tr>
<td>No standardization</td>
<td>Pseudo-standardization through best practice</td>
<td>Standardization</td>
</tr>
<tr>
<td>Quality depends mainly on individual skill</td>
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<td>Quality depends on capable processes</td>
</tr>
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Quality depends mainly on individual skill
Tasks to be Done

Profession

- Professional certificate and masters degree programs
- Training & professional development
- Certification
- Standards of Practice e.g., GCDMP
- Code of Ethics
- Professional society

Discipline

- Master of Science & PhD programs
- Knowledge generation & dissemination

Community of people doing similar work
SCDM Profession Milestones

- **SCDM founded**: 1994
- **SCDM fall conference, Philadelphia**: 1997
- **SCDM Code of Ethics**: 2003
- **GCDMP vs 1.0**: 2000
- **First SCDM Certification exam**: 2003
- **First SCDM Training, Colorado**: 2004
- **First SCDM Online course**: 2009
- **Certification exam vs 1 Beta test**: 2004
Clinical Research Enters the Information Age

“The Most Valuable Commodity that I know of is Information”.
-Gordon Gekko, in the movie Wall Street

The Information: A History, a Theory, a Flood by James Gleick
We Are What We Know

Not what we do.

And, what we know grows and evolves year after year as basic and applied informatics research generates new knowledge.
Clinical Research Data Management, an application area within Clinical Research Informatics, is the expert application of Informatics theories and methods to the definition, collection and processing of data for clinical studies. Clinical Data Management assures availability of data at appropriate quality and cost to support the conduct, management and analysis of studies across the spectrum of clinical research, and ultimately public safety and confidence in therapeutics and therapeutic interventions.
Informatics:

The science of information – it’s essence, how it is represented and used to represent the world, and how it is used by computers and humans.
Biomedical Informatics

Biomedical informatics (BMI) is the interdisciplinary field that studies and pursues the effective uses of biomedical data, information, and knowledge for scientific inquiry, problem solving and decision making, motivated by efforts to improve human health.
Clinical Research

**Patient-oriented research:** research involving a particular person or group of people or using materials from humans.
- Studies of mechanisms of human disease
- Studies of therapies or interventions for disease
- Clinical trials
- Studies to develop new technology related to disease

**Epidemiological and behavioral studies:** examine the distribution of disease, the factors that affect health, and how people make health-related decisions.

**Outcomes and health services research:** seeks to identify the most effective and most efficient interventions, treatments, and services.
Opportunity for Input

1. Write comments on the green/white paper
   – leave on the end of your table or at the registration desk at any time during the conference.
   – We will collect comments, respond as a Board, make any updates, and provide back to the society

2. For those not at this meeting, the draft definition and an electronic comment form will go out in the next news letter and issue of DataBasics
What Happens Next

• Publication of the draft and further opportunity to comment in the next SCDM Newsletter

• Publication of updated definition and responses to comments in DataBasics

• Final definition next year at SCDM Fall conference!