

National Institutes of Health (NIH)

Risk Management Program



A Presentation to IOM

July 2010



Presentation Objective

1

Provide an overview of risk management and specific information on the NIH Risk Management Program.

NIH Management Philosophy

2

- ❑ At NIH, outstanding management practices support scientific research.
 - Without sound management, the ability to promote sustainable scientific innovation is jeopardized.
 - To ensure sustainable scientific innovation, NIH management engages in activities to manage risk and internal control.

- ❑ NIH Risk Management activities focus on areas that support science (such as finance, grants, information technology, radiation safety, animal welfare) **and not the assessment of science itself.**

Risk Management Concepts

3

□ What is risk?

- Risk is the uncertainty around a future outcome.
- Risk is the possibility that an event or condition may occur that would negatively impact an organization and its mission.

□ What is risk management?

- Risk management is a continuous process to proactively identify and mitigate risks.
- Risk management promotes the achievement of the organization's objectives, strategy, and mission.

The Risk of NOT Managing Risks.

- Disruption to research in laboratories
- Loss of trust in the organization
- Resources allocated to low priority activities
- Assumption that "everything is fine"

Examples of Hypothetical Risks

4

Hypothetical Risks	
Intramural Research	If human subject volunteers suffer unnecessary health consequences due to participation in a clinical trial, then subjects suffer or die, public trust declines, and clinical trials recruitment declines.
Extramural Research	If an organization does not communicate policies, procedures and announcements to its grantee community then the community will not understand policy requirements and would not fulfill their responsibilities, which could affect stewardship of Federal funds, compromise public trust, and jeopardize biomedical/behavioral research.
Ethics	If an employee participates in a matter in which they have a real or perceived conflict of interest, then an organization's public trust may be jeopardized.
Facilities	If an organization is unable to maintain proper temperature and humidity controls in research and storage facilities, then an organization may lose significant animal assets, scientific sample collections, and other important research materials.
Human Resources	If an organization fails to recruit and retain highly qualified candidates and fill vacant positions in a timely manner, then the workforce may be unable to support the goals and objectives of the organization mission.

What is NIH Doing About Risks?

5

- Many activities are in place to mitigate or manage risks at NIH.
- Examples of day-to-day Risk Management activities include:
 - Participating in IRBs to promote good science and protect patients
 - Following animal care and use guidelines to protect the safety of research animals
 - Providing clinical research patients with clear consent forms to minimize misunderstandings
 - Using passwords to protect personal privacy information and maximize data integrity
 - Performing an ethics review to approve or deny an employee's outside activities
- **But, how do we know these risk management strategies are working?**
 - To find out, NIH developed an agency-wide risk management program.

6

The NIH Risk Management Program

NIH Risk Management Program: Objectives

7

- ❑ Support the NIH research mission and vision.
- ❑ Provide a consistent and cross-cutting look at risks across NIH.
- ❑ Identify risks and proactively manage those that present the highest risk to NIH.
- ❑ Develop data and information about NIH risks.
- ❑ Improve strategic planning with data and information about risks.

NIH Risk Management Program: Methodology

8

The NIH Risk Management methodology is a customized six-step approach that provides a standard means of addressing risks and assessing internal controls.



Risk Management Methodology:

Organize Phase

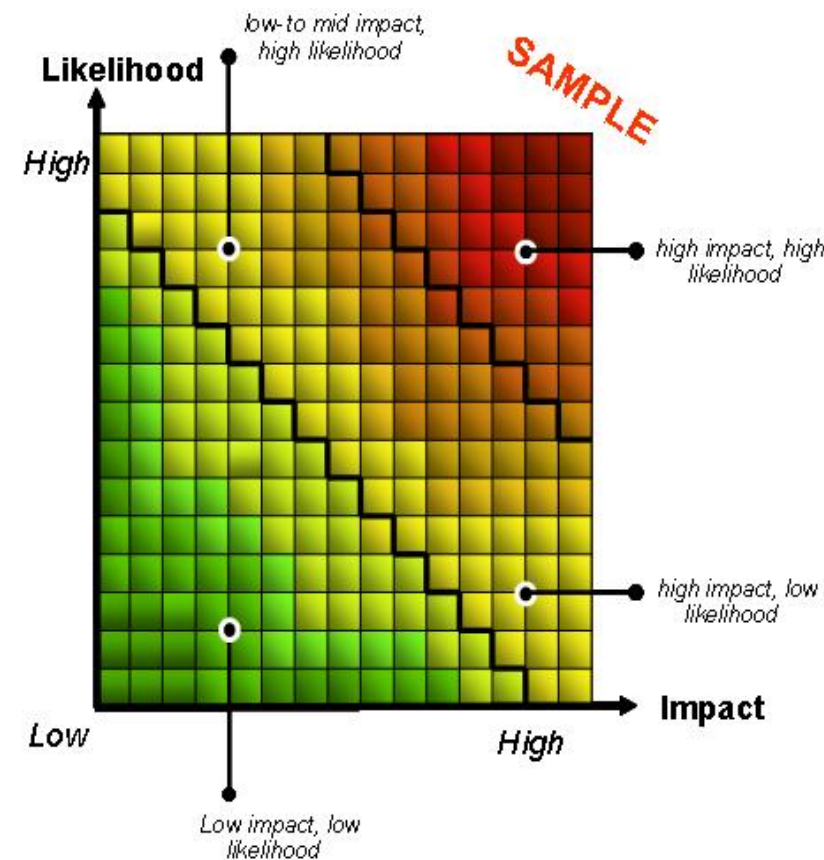
9

- ❑ How is this done?
 - Create a culture of awareness by identifying and training personnel with key roles.
 - Segment the organization into discrete units to which you can apply a risk identification methodology.
 - Consult with key subject matter experts to establish clear ownership of risks.

Risk Management Methodology: Identify & Score Phase

10

- Purpose is to identify those events (risks) that could jeopardize achievement of the mission of an organization, and then score them.
- Risk owners and key subject matter experts identify and score risks using standardized tools.
- Risks are scored based on two dimensions:
 - The **Impact** that a risk could have on the organization.
 - The **Likelihood** of the risk occurring.
- Identified and scored risks are plotted on a Risk Heat Map according to their scores.
- *Hypothetical Red Risk: If an inexperienced Researcher removes tissue samples from an organization without patient authorization, then the Researcher's interests in personal gain could undermine the rights of human subjects, creating a conflict of interest.*



Risk Management Methodology:

Assess Phase

11

- ❑ Purpose is to evaluate the processes associated with each risk and identify any problems or gaps.
- ❑ The evaluation of the processes and controls uses a 3-tiered approach (high, medium, and low risk) so that NIH focuses its resources on the risks with the highest scores.
- ❑ Results of risk assessments – any identified control gaps and deficiencies from the Assess phase – determine the activities in the Manage step.
- ❑ *Hypothetical Example*
 - **Risk Statement:** If an inexperienced Researcher removes tissue samples from an organization without patient authorization, **then** the Researcher's interests in personal gain could undermine the rights of human subjects, creating a conflict of interest.
 - **Assessment:** Determine whether all researchers have completed the required Human Subjects Research Training course.
 - **Results:** 15 percent of the population of researchers in our sample did not take the required training. Recommend that the business owner formally track the completion of the training course.
 - **Next steps:** The business owner would need a plan to correct the problem.

Risk Management Methodology:

Manage Phase

12

- ❑ Purpose is to develop and execute Corrective Actions Plans (CAPs) to address problems and gaps identified during the Assess phase.
- ❑ NIH periodically reviews remediation activities to ensure corrective actions are being taken.
- ❑ *Hypothetical Example*
 - Corrective Action Plan steps include:
 - Developing a more stringent tracking mechanism to determine completion of the training course for new and existing research staff.
 - Communicating to the research community that the training is required.
 - Developing a policy to restrict researchers from participating in protocols until training has been completed.
 - **Next steps:** monitor the status of corrective actions to ensure they are implemented.

Risk Management Methodology:

Monitor Phase

13

- ❑ Purpose is to:
 - Periodically re-score identified risks because of changes that might affect their Impact and Likelihood
 - Identify and score new risks
 - Monitor the status of corrective action plans
- ❑ Periodic re-evaluation of changes in risks, controls and CAPs are key elements of this phase.
- ❑ *Hypothetical Example*
 - Three months later, select an additional sample to determine whether researchers are completing the required Human Subjects Research training.
 - If all researchers are now taking the training, determine whether to rescore the risk to reflect a lower risk rating.

Risk Management Methodology:

Report Phase

14

- ❑ Purpose is to provide risk management data and information to program stakeholders.
- ❑ Semiannual reporting is currently planned.
 - What risk assessments have been completed?
 - What are the results of those risk assessments?
 - Based on results of risk assessments, what is the nature and extent of risks at NIH?
 - Can some risks be closed because they are no longer risks?
- ❑ *Hypothetical Example*
 - The risk has been assessed and corrective actions completed.
 - The program stakeholder has assurance that researchers are properly trained.

Questions and Discussion

15

Contact:

Suzanne Servis, Director

Office of Management Assessment, NIH

(301) 496-1873

Website: <http://oma.od.nih.gov>