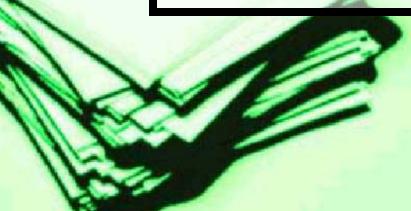
Safety Review and Approval Process for Research Proposals

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Objectives

- Provide an brief overview of the UTHealth safety committee structure in place to oversee the use of hazardous materials
- Outline what hazardous materials require safety committee review and approval
- Describe how the process for protocol review and approval works
- Identify common pitfalls and how to avoid them
- Review some of your safety related responsibilities



Main Possible Hazard Classes in Research Activities

- Biological agents
 - Recombinant DNA
 - Potentially infectious agents
 - Human tissues or cell lines
- Chemicals
 - Explosives, pyrophorics, toxins, highly toxic agents
 - Controlled substances
- Radiation
 - Radioactive materials
 - Radiation producing devices



UTHealth Safety Committees

- Committee structure mimics hazard classes
 - Radiation Safety (meets 12/yr)
 - Biological Safety (meets 12/yr)
 - Chemical Safety (meets 6/yr)
 - Safety Council (meets 6/yr)
 - broad overarching committee, includes facility related safety as well as research
- Membership consists primarily of faculty, with support provided by EHS & other key support departments



Main Safety Committee Concerns

- Have hazards been recongized?
- How will it be handled?
- Are the people aware of the hazard (trained) and afforded protection (protective equipment, vaccines, etc)?
- Emergency response?
- What about waste products?
- Documented?



Application Process

- The key questions on the review and approval form: Does the research involve the use of
 - Radiation?
 - Potentially infectious biological agents or recombinant DNA?
 - Hazardous chemicals as defined by the UTHealth Chemical Safety Committee?



If Yes....

- Access appropriate forms on EHS or Research Administration website
- If assistance is needed at any point in the process, contact EHS
- Submit completed forms to EHS for review and inclusion on safety committee agenda
- EHS conducts preliminary review and is able to provide provisional approvals for some applications
- No firm deadline for submission, but typically agendas set 1 week prior to meeting



Institutional Biological Safety Committee (IBC)

- Biological Agents
 - Recombinant and Synthetic DNA (NIH rDNA guidelines)
 - Infectious agents (bacteria, viruses, prions)
 - Potentially infectious materials (human cell lines and tissues)
 - Select Agents



Chemical Safety Committee

- Hazardous Chemicals (physical hazards and toxic chemicals)
- Listed
 - Explosives, Pyrophorics, Carcinogens, Antineoplastics
- Characteristic
 - Toxicity (LD₅₀ <50mg/kg oral rat)
 - Nano sized particles (1-100 nm)
- Conditionally exempt common chemicals



Radiation Safety Committee

- Radiation producing device (e.g. xray machine or laser)
 - Unit must be registered with state, operators trained, protected
- Radioactive materials (e.g. radioisotope tracers, irradiator)
 - Must be licensed (actually sublicensed), workers trained, protected



EHS Approach

- Service attitude
- Help you meet requirements and maintain a safe work environment
- Provide initial review to identify common committee concerns and address them prior to the protocol going to committee



Common Pitfalls

- Need for approvals last minute
- Documented worker safety training attendance as required (lab safety, annual bloodborne pathogens, radiation safety, etc.)
- Inventories
- Review of previous surveillance results – ex. materials stacked too high in lab
- Despite these difficulties EHS will work with you to provide a safe work environment and obtain approval for your research.



Expectations of a PI and their Lab

- Be a role model and maintain a safe work environment
- Follow all safety requirements (safety manuals, HOOP policies, etc.)
- Address any identified safety issues (EH&S performs routine surveillance)
- Attend required safety training classes
 - Basic Lab and Clinic Safety
 - Basic Radiation Safety
 - Annual Bloodborne Pathogens and Lab Safety.
- Report incidents or near misses
 - First report of injury form
 - Safety concern email link on EHS webpage
 - Facilities fix it line (500-fixt)
- Submit chemical inventory annually



Your Responsibilities

- Maintain laboratory specific standard operating procedures
- Provide hazard specific training to your personnel
- EH&S maintains overarching general safety procedures and training
 - Safety manuals
 - Safety training lab safety, bloodborne pathogens, etc.



EH&S - Contact Us Anytime!

- Main Office OCB 1.330, 500-8100
- Biological Safety OCB 1.330, 500-4193
- Chemical Safety CYF, 500-5832
- Radiation Safety CYF, 500-5840
- Environmental Protection OCB/CYF, 500-5837 waste line
- Occupational Safety & Fire Prevention OCB1.330, 500-8100
- Risk Management & Insurance OCB 1.330, 500-8100
- www.uthouston.edu/safety