


MANAGING THE HUMAN RISK FACTOR IN BIOLOGICAL LABS



Safer Behaviors
Connecting goals and outcomes

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Let's do safety together.

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WHAT IS LABORATORY RISK?

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 Safer Behaviors

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HOW DO WE MITIGATE LABORATORY RISK?

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BIOLOGICAL RISK MITIGATION




- Hazard Identification
- Risk Assessment
- Risk Management
- Risk Communication

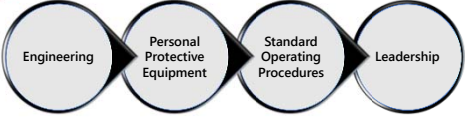
We must identify all risks, assess risks through sciences and perceptions, manage the risks with strategic plans, and ensure all staff know about the risks and can mitigate them effectively.

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FOUR PRIMARY CONTROLS OF SAFETY



- Engineering
- Personal Protective Equipment
- Standard Operating Procedures
- Leadership

Defining biosafety is one thing – integrating biosafety into an organization is another.

Each primary control of biosafety is important. Though one may be more expensive than another – all are equally important in keeping the workforce safe.

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THE HUMAN RISK FACTOR



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SCIENCE QUANTIFIES RISK –
BUT PEOPLE DETERMINE IT.



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A PLAN ALONE DOES NOT
PRODUCE A CONSISTENT
BEHAVIORAL OUTCOME.




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HUMAN BEINGS NEED THINGS
(GAS) TO BEHAVE.




Understand Risk
Understand Benefit
Have Resources
Have Skills
Belief You Can Do It!




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HUMAN BEINGS ARE REALLY
HUMANS BECOMING.




Self-Actualization
You are doing to
your highest potential

Esteem
You are looking for
that last bit of respect and recognition

Love & Belonging
Achieving deeper, more meaningful relationships

SAFETY
Home, sweet home

Physiological Needs
Food, water, sleep



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WE MUST TELL PEOPLE WHAT
WE EXPECT OF THEM.




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WORKFORCE EXPECTATIONS

1. Follow all SOPs to the best of my ability.
2. Ensure others follow SOPs to the best of their ability.
3. Report all near-misses, accidents, incidents, and injuries.
4. Report any symptom which matches the clinical presentation of pathogens I am working with in the laboratory.
5. Report any new medical conditions (including but not limited to diabetes, heart disease, pregnancy, medications which may cause seizures/compromised immune functions, and chronic asthmatic conditions).

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WHAT IS THE DIFFERENCE
BETWEEN A SAFETY
CLIMATE AND CULTURE?

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CLIMATE VS. CULTURE

Safety Climate:
WHAT WE SAY WE DO.



The gap between what we say we do and what we really do is the true measure of safety.

Safety CULTURE:
WHAT WE REALLY DO.

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RISKS, RULES, AND RITUALS



A "ONE SAFE" culture shares common risks, rules, and rituals.



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BEING TOGETHER VS. DOING TOGETHER

Being together and doing together are very different concepts.



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