



PHOH652 Occupational and Environmental Epidemiology

Individual Term Project

Suggested Topics

	Exposure	Outcome
1	PM2.5 / Air Pollutants	<ul style="list-style-type: none">• BP / Heart Rate Variability• Cardiopulmonary Diseases• Lung Function Disorder• Occupational Asthma• Immune System
2	Heavy Metals / Metal Fume	<ul style="list-style-type: none">• Alzheimer's disease• Sleep Disturbance• Hearing Loss• Kidney Dysfunction• Haematological Effect• Testicular Functions / Infertility
3	Arsenic	<ul style="list-style-type: none">• Cardiovascular Diseases• Hypertension
4	Chromium	<ul style="list-style-type: none">• Lung Cancer
5	Lead	<ul style="list-style-type: none">• Kidney Cancer
6	Polycyclic Aromatic Hydrocarbons	<ul style="list-style-type: none">• Liver Cancer
7	Phthalates	<ul style="list-style-type: none">• Male Reproductive Health
8	1,3-Butadiene	<ul style="list-style-type: none">• Leukemia
9	Benzene	<ul style="list-style-type: none">• Aplastic Anemia / Leukemia• Non-Hodgkin's Lymphoma
10	Organic Solvents	<ul style="list-style-type: none">• Neurotoxic Syndrome
11	Chlorinated Solvents	<ul style="list-style-type: none">• Kidney Cancer• Non-Hodgkin's Lymphoma
12	Vinyl Chloride	<ul style="list-style-type: none">• Liver Disease

	Exposure	Outcome
13	Pesticides	<ul style="list-style-type: none"> • Neurodegeneration / Neurodevelopmental Disorders • Parkinson's Disease • Bladder Cancer • Testicular Cancer • Chronic Bronchitis • Congenital Malformations
14	Organophosphates	<ul style="list-style-type: none"> • Non-Hodgkin's Lymphoma
15	Electromagnetic Fields	<ul style="list-style-type: none"> • Brain Cancer / Brain Tumors
18	Heat Stress	<ul style="list-style-type: none"> • Reproductive Functions
16	Noise	<ul style="list-style-type: none"> • Hypertension • Cardiovascular Risk • Occupational Stress
17	Vibration	<ul style="list-style-type: none"> • Upper Limb Disorder / MSDs
19	Static Work	<ul style="list-style-type: none"> • Overlooked MSDs
20	Night Shift	<ul style="list-style-type: none"> • Breast Cancer

Review of Studies

- Search for research studies on the selected topic
- Select at least 3 papers
 - All 3 must be **epidemiologic studies** (e.g. cross-sectional, cohort, case-control designs)
 - Not a meta-analysis paper
- Review with emphasis on study design, exposure, outcome, findings, conclusion, strengths & weaknesses

Presentation

- Refer to the PowerPoint Template provided
- Each student will take 10 minutes for presentation and 2-5 minutes for Q&As

Report

- Cover Page
- Introduction / Background / Significance of Problem (2 pages)
- Literature Reviewed #1 (1 page)
- Literature Reviewed #2 (1 page)
- Literature Reviewed #3 (1 page)
- Overall Findings & Conclusions (1 page)
- Discussion & Proposed Improvement (1-2 pages)
- References

(Due at the end of this course)