Supplementary Data

Taboureau and Audouze:

**Human Environmental Disease Network: A Computational Model to Assess Toxicology of Contaminants**

Fig. S1: Representation of the top significant disease-disease associations based on the probabilistic score using the good level of evidence (GE)

Each node corresponds to a unique disease, colored according to the biological systems to which it belongs. The name of the 19 systems is shown on the right. Node's sizes are according to the number of chemicals linked to the disease with a good evidence level. An edge is placed between two diseases if they share at least one chemical within the GE level. The width of a link is proportional to the number of chemicals that are linked to both diseases. Only the top significant associations are shown (based on the calculated score) for clarity of the figure.

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https://doi.org/10.14573/altex.1607201s
Fig. S2: Representation of the top significant disease-disease associations based on the probabilistic score using the low level of evidence (LE)

Each node corresponds to a unique disease, colored according to the biological systems to which it belongs. The name of the 19 systems is shown on the right. Node’s sizes are according to the number of chemicals linked to the disease with a low evidence level. An edge is placed between two diseases if they share at least one chemical within the LE level. The width of a link is proportional to the number of chemicals that are linked to both diseases. Only the top significant associations are shown (based on the calculated score) for clarity of the figure.
### Tab. S1: Disease classification

Diseases are classified into 19 classes according to the classification scheme described in the human disease network (Goh et al., 2007).

<table>
<thead>
<tr>
<th>Disease name</th>
<th>Disease class</th>
<th>Disease name</th>
<th>Disease class</th>
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</thead>
<tbody>
<tr>
<td>Adrenal cancer</td>
<td>Cancer</td>
<td>Myocardial infarction (Heart attack)</td>
<td>Cardiovascular</td>
</tr>
<tr>
<td>Adult-onset Leukemias</td>
<td>Cancer</td>
<td>Raynaud’s phenomenon</td>
<td>Cardiovascular</td>
</tr>
<tr>
<td>Bladder cancer</td>
<td>Cancer</td>
<td>Vasculitis</td>
<td>Cardiovascular</td>
</tr>
<tr>
<td>Bone cancer/Ewings sarcoma</td>
<td>Cancer</td>
<td>Undifferentiated Connective Tissue Disease</td>
<td>Connective tissue</td>
</tr>
<tr>
<td>Brain cancer - childhood</td>
<td>Cancer</td>
<td>Acroosteolysis (vinyl chloride disease)</td>
<td>Dermatological</td>
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<tr>
<td>Brain cancer (adult)</td>
<td>Cancer</td>
<td>Alopecia (hair loss)</td>
<td>Dermatological</td>
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<tr>
<td>Breast cancer</td>
<td>Cancer</td>
<td>Chloracne</td>
<td>Dermatological</td>
</tr>
<tr>
<td>Cervical cancer</td>
<td>Cancer</td>
<td>Contact dermatitis - Allergic</td>
<td>Dermatological</td>
</tr>
<tr>
<td>Childhood Leukemias</td>
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<td>Contact dermatitis - Irritant</td>
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<td>Dermatomyositis</td>
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<td>Esophageal cancer</td>
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<td>Erythema multiforme</td>
<td>Dermatological</td>
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<tr>
<td>Gallbladder cancer</td>
<td>Cancer</td>
<td>Hyperkeratosis/ Hyperpigmentation</td>
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<td>Hepatocellular cancer (Liver cancer)</td>
<td>Cancer</td>
<td>Leukoderma (hypopigmentation)</td>
<td>Dermatological</td>
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<td>Laryngeal cancer</td>
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<td>Mycosis fungoides (cutaneous T-cell lymphoma)</td>
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<tr>
<td>Lung cancer</td>
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<td>Melanoma (skin cancer)</td>
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<td>Scleroderma</td>
<td>Dermatological</td>
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<tr>
<td>Nasopharyngeal/Sino-Nasal cancer</td>
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<td>Skin ulceration</td>
<td>Dermatological</td>
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<tr>
<td>Oral cancer</td>
<td>Cancer</td>
<td>Altered prostate gland development</td>
<td>Developmental</td>
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<tr>
<td>Ovarian cancer</td>
<td>Cancer</td>
<td>Cardiac congenital malformations</td>
<td>Developmental</td>
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<td>Pancreatic cancer</td>
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<td>Choanal atresia</td>
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<td>Prostate cancer</td>
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<td>Congenital malformations - general</td>
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<td>Renal (kidney) cancer</td>
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<td>Cranio- Facial malformations</td>
<td>Developmental</td>
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<td>Salivary gland cancer</td>
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<td>Delayed growth</td>
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<td>Scrotal cancer</td>
<td>Cancer</td>
<td>Developmental toxicity, not otherwise specified</td>
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<tr>
<td>Skin cancer (non-melanoma)</td>
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<td>Fetal Alcohol Syndrome/Fetal solvent syndrome</td>
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<td>Soft tissue sarcoma</td>
<td>Cancer</td>
<td>Fetotoxicity (Miscarriage/spontaneous abortion, stillbirth)</td>
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<tr>
<td>Stomach cancer</td>
<td>Cancer</td>
<td>Genito-urinary malformations (includes male and female)</td>
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<td>Testicular cancer</td>
<td>Cancer</td>
<td>Low birth weight/Small for Gestational Age/Intra-Uterine Growth Retardation</td>
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<td>Thyroid cancer</td>
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<td>Minamata disease</td>
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<td>Uterine cancer</td>
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<td>Neurodevelopmental toxicity</td>
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<td>Vaginal cancer</td>
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<td>Oral clefts (cleft lip and palate)</td>
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<td>Wilm’s Tumor</td>
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<td>Hearing loss</td>
<td>Ear, Nose, and Throat</td>
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<tr>
<td>Arrhythmias</td>
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<tr>
<td>Cardiomyopathy</td>
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<tr>
<td>Cerebrovascular disease (stroke)</td>
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<tr>
<td>Coronary artery disease, peripheral vascular disease, atherosclerosis</td>
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<tr>
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<td>Nasal septal perforation</td>
<td>Ear, Nose, and Throat</td>
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<tr>
<td>Olfactory alterations (hyposmia, anosmia, dysomias)</td>
<td>Ear, Nose, and Throat</td>
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<tr>
<td>Diabetes - Type I</td>
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<tr>
<td>Diabetes - Type II</td>
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<td>Early onset menopause</td>
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<td>Hashimoto's (Autoimmune) thyroiditis</td>
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<td>Hormonal changes (levels of circulating sex hormones - FSH/LH, Inhibin, and/or estrogens, progesterones, androgens, prolactin)</td>
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<td>Menstrual disorders (abnormal bleeding, short cycles, long cycles, irregular cycles, painful periods)</td>
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<td>Thyroid disorders - Hypothyroidism</td>
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<td>Steatosis (fatty liver)</td>
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<td>Lymphoma (non-Hodgkin's)</td>
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<td>Thrombocytopenic purpura</td>
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<td>Anemia (including hemolytic)</td>
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<td>Autoimmune antibodies (positive ANA, anti-DNA, RF, etc.)</td>
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<td>Toxic oil syndrome</td>
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<td>Hepatitis</td>
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<td>Liver toxicity</td>
<td>Liver</td>
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<td>Dyslipidemia, hypercholesterolemia</td>
<td>Metabolism</td>
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<td>Gout</td>
<td>Musculo-skeletal</td>
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<td>Multiple Sclerosis</td>
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<td>Osteosclerosis</td>
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<td>Peripheral neuropathy</td>
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<td>Rheumatoid arthritis</td>
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<td>Skeletal malformations</td>
<td>Musculo-skeletal</td>
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<tr>
<td>Spasticity/Myoclonus</td>
<td>Musculo-skeletal</td>
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<tr>
<td>ADD/ADHD, hyperactivity</td>
<td>Neurological</td>
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<tr>
<td>ALS (Lou Gehrig's disease)</td>
<td>Neurological</td>
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<tr>
<td>Altered neurodevelopment with changes in behavior</td>
<td>Neurological</td>
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<tr>
<td>Alzheimer's</td>
<td>Neurological</td>
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<tr>
<td>Behavioral problems</td>
<td>Neurological</td>
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<tr>
<td>Bladder (neurogenic)</td>
<td>Neurological</td>
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<tr>
<td>Central nervous system depression</td>
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<tr>
<td>Cerebral palsy</td>
<td>Neurological</td>
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<tr>
<td>Cognitive impairment (includes impaired learning, impaired memory, and decreased attention span)/Mental Retardation/Developmental Delay</td>
<td>Neurological</td>
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<tr>
<td>Decreased Coordination/ Dysequilibrium</td>
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<tr>
<td>Dementia</td>
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<td>Neural tube defects/CNS malformations</td>
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<tr>
<td>Neurobehavioral abnormalities</td>
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<td>Parkinson's disease/Movement disorders</td>
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<td>Retinoblastoma</td>
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<tr>
<td>Seizures</td>
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<tr>
<td>Trigeminal neuropathy</td>
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<td>Cataracts</td>
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<tr>
<td>Color vision disturbance</td>
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<tr>
<td>Decreased vision (includes blindness, retinopathy, optic neuropathy)</td>
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<td>Macular degeneration</td>
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<td>Chronic Fatigue Syndrome</td>
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<td>Disease name</td>
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<td>Gulf War Syndrome</td>
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<td>Multiple Chemical Sensitivity</td>
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<td>Neurostenia (Organic affective syndrome)</td>
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<tr>
<td>Psychiatric disturbances</td>
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<tr>
<td>(disorientation, hallucinations, psychosis,</td>
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<td>delirium, paranoias, anxiety/depression,</td>
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<td>emotional lability, mood changes, euphoria)</td>
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<td>Acute tubular necrosis</td>
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<td>Glomerulonephritis</td>
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<td>Kidney toxicity</td>
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<td>Renal stones</td>
<td>Renal</td>
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<td>Abnormal sperm (morphology, motility,</td>
<td>Reproductive</td>
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<td>and sperm count)</td>
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<tr>
<td>Altered sex ratio</td>
<td>Reproductive</td>
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<tr>
<td>Altered time to sexual maturation</td>
<td>Reproductive</td>
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<td>(accelerated or delayed puberty)</td>
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<tr>
<td>Benign prostatic hypertrophy</td>
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<td>Endometriosis</td>
<td>Reproductive</td>
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<td>Erectile dysfunction</td>
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<tr>
<td>Genito-urinary malformations</td>
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<td>(includes male and female)</td>
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<td>Ovarian atrophy</td>
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<td>Ovarian toxicity</td>
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<td>Pre-eclampsia</td>
<td>Reproductive</td>
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<td>(pregnancy-induced hypertension)</td>
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<tr>
<td>Pre-term delivery</td>
<td>Reproductive</td>
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<tr>
<td>Reduced fertility - female</td>
<td>Reproductive</td>
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<td>(infertility and subfertility)</td>
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<tr>
<td>Reduced Fertility - Male</td>
<td>Reproductive</td>
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<td>(infertility and subfertility)</td>
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<td>Reproductive</td>
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<tr>
<td>Reproductive tract toxicity, female</td>
<td>Reproductive</td>
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<td>Reproductive tract toxicity, male</td>
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<tr>
<td>Testicular toxicity</td>
<td>Reproductive</td>
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<tr>
<td>Uterine fibroids</td>
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<tr>
<td>Asbestosis</td>
<td>Respiratory</td>
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<tr>
<td>Asthma - allergen, sensitizer</td>
<td>Respiratory</td>
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<table>
<thead>
<tr>
<th>Disease name</th>
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<tbody>
<tr>
<td>Asthma - irritant</td>
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<tr>
<td>Berylliosis</td>
<td>Respiratory</td>
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<tr>
<td>Black Lung Disease</td>
<td>Respiratory</td>
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<tr>
<td>Bronchiolitis obliterans</td>
<td>Respiratory</td>
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<tr>
<td>Bronchitis - acute</td>
<td>Respiratory</td>
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<tr>
<td>Bronchitis - chronic</td>
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<tr>
<td>Brown lung disease (byssinosis)</td>
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<tr>
<td>COPD (chronic obstructive pulmonary disease)</td>
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<tr>
<td>Flock workers disease</td>
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<tr>
<td>Hard metal disease</td>
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<tr>
<td>Mesothelioma</td>
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<tr>
<td>Metal fume fever</td>
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<tr>
<td>Pleural disease (effusions, plaques,</td>
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<tr>
<td>thickening)</td>
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<tr>
<td>Pneumoconiosis</td>
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<tr>
<td>Pneumonia</td>
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<tr>
<td>Pneumonitis (hypersensitivity)</td>
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<tr>
<td>Pulmonary disease-anemia syndrome</td>
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<tr>
<td>Pulmonary edema</td>
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<tr>
<td>Pulmonary fibrosis</td>
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<tr>
<td>Rhinitis - allergic</td>
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<td>Rhinitis - irritant</td>
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<tr>
<td>Silicosis</td>
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<tr>
<td>Sudden Infant Death Syndrome (SIDS)</td>
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