

## Appendix I. Sample Vocabulary RDF

**NOTE:** The following is an example of an RDF file that can be generated from the list of terms already defined by MMHMAP. These terms were registered (private) on the NSF/Cross Domain Observational Metadata for Environmental Sensing (X-DOMES) Ontology Registry and Repository ([https://xdomes.org/ont/mmhmap/lab\\_procedures](https://xdomes.org/ont/mmhmap/lab_procedures)) to demonstrate the utility.

## Example of a RDF/XML File of MMHMAP Terminologies Registered on an Ontology Registry (xdomes.org/ont)

```
<?xml version="1.0"?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:j.0="http://mmisw.org/ont/mmi/20081020/ontologyMetadata/"
  xmlns:omv="http://omv.ontoware.org/2005/05/ontology#"
  xmlns="https://xdomes.org/ont/mmhmap/lab_procedures/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
  xml:base="https://xdomes.org/ont/mmhmap/lab_procedures" >
  <rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/microalbumin">
    <Reference rdf:resource="https://www.ncbi.nlm.nih.gov/pubmed/15538104"/>
    <Definition>increased excretion rate of albumin in the urine in the range of 30-299 mg/g
creatinine</Definition>
    <Category>Urinalysis</Category>
    <Vocabulary>Microalbumin</Vocabulary>
    <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
  </rdf:Description>
  <rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/urobilinogen">
    <Reference rdf:resource="http://www.merriam-webster.com/medical/urobilinogen"/>
    <Definition>any of several chromogens that are reduction products of bilirubin and yield urobilins on
oxidation</Definition>
    <Category>Urinalysis</Category>
    <Vocabulary>Urobilinogen</Vocabulary>
    <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
  </rdf:Description>
  <rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/ketones">
    <Reference rdf:resource="http://www.merriam-webster.com/dictionary/ketones"/>
    <Definition>any of a class of organic compounds (as acetone) characterized by a carbonyl group
attached to two carbon atoms</Definition>
    <Category>Urinalysis</Category>
    <Vocabulary>Ketones</Vocabulary>
    <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
  </rdf:Description>
  <rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/trematode">
    <Reference rdf:resource="http://www.dictionary.com/browse/trematode"/>
    <Definition>any parasitic platyhelminth or flatworm of the class Trematoda, having one or more
external suckers; fluke.</Definition>
    <Category>Parasitology</Category>
    <Vocabulary>Trematode</Vocabulary>
    <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
  </rdf:Description>
  <rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/parafilaroides_sp">
```

<Reference rdf:resource="http://medical-dictionary.thefreedictionary.com/Parafilaroides"/>  
 <Definition>a genus of nematodes in the metastrongyloid family Filaroididae; cause lesions in the lungs of aquatic mammals. Includes P. decorus (sealions), P. gymnurus (harbor seals), P. nanus and P. prolificus (Stellar's sealion).</Definition>  
 <Category>Parasitology</Category>  
 <Vocabulary>Parafilaroides sp</Vocabulary>  
 <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab\_procedures/varTerm"/>  
 </rdf:Description>  
 <rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab\_procedures/nitrite">  
 <Reference rdf:resource="http://www.merriam-webster.com/dictionary/nitrite"/>  
 <Definition>a salt or ester of nitrous acid</Definition>  
 <Category>Urinalysis</Category>  
 <Vocabulary>Nitrite</Vocabulary>  
 <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab\_procedures/varTerm"/>  
 </rdf:Description>  
 <rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab\_procedures/calcium">  
 <Reference rdf:resource="http://www.dictionary.com/browse/calcium"/>  
 <Definition>a silver-white divalent metal, occurring combined in limestone, chalk, gypsum, etc., occurring also in vertebrates and other animals, as a component of bone, skeletal mass, shell, etc., and as a necessary element in nerve conduction, heartbeat, muscle contraction, and many other physiological functions. Symbol: Ca; atomic weight: 40.08; atomic number: 20; specific gravity: 1.55 at 20°C.</Definition>  
 <Category>Urinalysis</Category>  
 <Vocabulary>Calcium</Vocabulary>  
 <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab\_procedures/varTerm"/>  
 </rdf:Description>  
 <rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab\_procedures/bun">  
 <Reference rdf:resource="http://medical-dictionary.thefreedictionary.com/BUN"/>  
 <Definition>blood urea nitrogen</Definition>  
 <Category>Urinalysis</Category>  
 <Vocabulary>BUN</Vocabulary>  
 <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab\_procedures/varTerm"/>  
 </rdf:Description>  
 <rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab\_procedures/bacteria">  
 <Reference rdf:resource="http://www.dictionary.com/browse/bacteria"/>  
 <Definition>ubiquitous one-celled organisms, spherical, spiral, or rod-shaped and appearing singly or in chains, comprising the Schizomycota, a phylum of the kingdom Monera (in some classification systems the plant class Schizomycetes), various species of which are involved in fermentation, putrefaction, infectious diseases, or nitrogen fixation.</Definition>  
 <Category>Urinalysis</Category>  
 <Vocabulary>Bacteria</Vocabulary>  
 <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab\_procedures/varTerm"/>  
 </rdf:Description>  
 <rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab\_procedures/halocercus\_sp">  
 <Reference rdf:resource="https://www.ncbi.nlm.nih.gov/pubmed/8355360"/>  
 <Definition>Three cetaceans from Monterey Bay, California (USA), were infected with lung nematodes. A beaked whale calf, Mesoplodon sp. was infected with adult Halocercus sp. This represents a new host record for this nematode. The lungs of a northern right whale dolphin calf, Lissodelphis

borealis, contained an unidentified nematode similar in size to Halocercus sp. The presence of Phyllobothrium delphini-type cestode larvae in its blubber is evidence that the calf was feeding on invertebrates. A pregnant harbor porpoise, Phocoena phocoena was infected with the lung nematode H. invaginatus, but the fetus was uninfected. We found no direct evidence of a transplacental mode of transmission for Halocercus sp.

**<Category>Parasitology</Category>**  
**<Vocabulary>Halocercus sp</Vocabulary>**  
**<rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab\_procedures/varTerm"/>**  
**</rdf:Description>**  
**<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab\_procedures/tco2">**  
**<Reference rdf:resource="http://medical-dictionary.thefreedictionary.com/T+CO2"/>**  
**<Definition>**total carbon dioxide content of a plasma sample; equivalent to bicarbonate plus carbonic acid.**</Definition>**

**<Category>Urinalysis</Category>**  
**<Vocabulary>TCO2</Vocabulary>**  
**<rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab\_procedures/varTerm"/>**  
**</rdf:Description>**  
**<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab\_procedures/protozoa">**  
**<Reference rdf:resource="http://www.dictionary.com/browse/protozoan"/>**  
**<Definition>**any of a diverse group of eukaryotes, of the kingdom Protista, that are primarily unicellular, existing singly or aggregating into colonies, are usually nonphotosynthetic, and are often classified further into phyla according to their capacity for and means of motility, as by pseudopods, flagella, or cilia.**</Definition>**

**<Category>Parasitology</Category>**  
**<Vocabulary>Protozoa</Vocabulary>**  
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**</rdf:Description>**  
**<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab\_procedures/dirofilaria\_sp">**  
**<Reference rdf:resource="http://medical-dictionary.thefreedictionary.com/dirofilariasis"/>**  
**<Definition>**infection with nematodes of the genus Dirofilaria; it is common in dogs and occasionally seen in humans, causing symptoms such as coughing, chest pain, and sometimes hemoptysis.**</Definition>**

**<Category>Parasitology</Category>**  
**<Vocabulary>Dirofilaria sp</Vocabulary>**  
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**</rdf:Description>**  
**<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab\_procedures/stenurus\_sp">**  
**<Category>Parasitology</Category>**  
**<Vocabulary>Stenurus sp</Vocabulary>**  
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**</rdf:Description>**

**<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab\_procedures/Category">**  
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**</rdf:Description>**  
**<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab\_procedures/acanthcheilonema">**  
**<Reference rdf:resource="http://medical-dictionary.thefreedictionary.com/Dipetalonema+spirocauda"/>**

**<Definition>**a genus of nematode parasites of the superfamily Filarioidea, including D. perstans and

D. streptococci, species primarily parasitic in man, other primates serving as reservoir hosts.

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</Definition>
<Category>Parasitology</Category>
<Vocabulary>Acanthocheiloneum (Dipetalonema) spirocauda</Vocabulary>
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<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/apicomplexa">
  <Reference rdf:resource="http://www.thefreedictionary.com/Apicomplexa"/>
  <Definition>Any of a phylum (Apicomplexa) of protozoans that have a group of organelles and other structures located in the apical end of the cell. Apicomplexans are parasitic in animals and include the organisms that cause malaria and toxoplasmosis.</Definition>
  <Category>Parasitology</Category>
  <Vocabulary>Apicomplexa</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
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<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/Definition">
  <rdf:type rdf:resource="http://www.w3.org/1999/02/22-rdf-syntax-ns#Property"/>
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<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/microfilaria">
  <Reference rdf:resource="http://www.dictionary.com/browse/microfilaria"/>
  <Definition>the embryonic larva of the nematode parasite Filaria or of related genera, especially of those species that cause heartworm in dogs and elephantiasis in humans.</Definition>
  <Category>Parasitology</Category>
  <Vocabulary>Microfilaria</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
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<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/bilirubin">
  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/bilirubin"/>
  <Definition>a reddish-yellow water insoluble pigment occurring especially in bile and blood and causing jaundice if accumulated in excess</Definition>
  <Category>Urinalysis</Category>
  <Vocabulary>Bilirubin</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/creatinine">
  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/creatinine"/>
  <Definition>a white crystalline strongly basic compound C4H7N3O formed from creatine and found especially in muscle, blood, and urine</Definition>
  <Category>Urinalysis</Category>
  <Vocabulary>Creatinine</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/chloride">
  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/chloride"/>
  <Definition>a compound of chlorine with another element or group; especially : a salt or ester of hydrochloric acid</Definition>
  <Category>Urinalysis</Category>
  <Vocabulary>Chloride</Vocabulary>
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<rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
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<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/cestode">
  <Reference rdf:resource="http://www.dictionary.com/browse/cestode"/>
  <Definition>a parasitic platyhelminth or flatworm of the class Cestoda, which comprises the
tapeworms.</Definition>
  <Category>Parasitology</Category>
  <Vocabulary>Cestode</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/epithelial_cells">
  <Reference rdf:resource="http://medical-dictionary.thefreedictionary.com/epithelial+cell"/>
  <Definition>any one of several cells arranged in one or more layers that form part of a covering or
lining of a body surface</Definition>
  <Category>Urinalysis</Category>
  <Vocabulary>Epithelial Cells</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description
rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/diphyllobothrium_latum">
  <Reference rdf:resource="http://medical-dictionary.thefreedictionary.com/Diphyllobothrium"/>
  <Definition>a genus of large tapeworms. D. latum is the broad or fish tapeworm, an intestinal
parasite of humans, dogs, cats, and other fish-eating mammals.</Definition>
  <Category>Parasitology</Category>
  <Vocabulary>Diphyllobothrium latum</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/arthropod">
  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/arthropod"/>
  <Definition>any of a phylum (Arthropoda) of invertebrate animals (as insects, arachnids, and
crustaceans) that have a segmented body and jointed appendages, a usually chitinous exoskeleton
molted at intervals, and a dorsal anterior brain connected to a ventral chain of ganglia</Definition>
  <Category>Parasitology</Category>
  <Vocabulary>Arthropod</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/anion_gap">
  <Reference rdf:resource="https://en.wikipedia.org/wiki/Anion_gap"/>
  <Definition>is the difference in the measured cations (positively charged ions) and the measured
anions (negatively charged ions) in serum, plasma, or urine</Definition>
  <Category>Urinalysis</Category>
  <Vocabulary>Anion Gap</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/heme">
  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/heme"/>
  <Definition>the deep red iron-containing prosthetic group C34H32N4O4Fe of hemoglobin and
myoglobin</Definition>

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<Category>Urinalysis</Category>
<Vocabulary>Heme</Vocabulary>
<rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/dirofilaria_immitis">
  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/heartworm"/>
  <Definition>a filarial worm (Dirofilaria immitis) that is a parasite especially in the right heart of dogs
and is transmitted by mosquitoes; also : infestation or disease caused by the heartworm</Definition>
  <Category>Parasitology</Category>
  <Vocabulary>Dirofilaria immitis</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/trichinella">
  <Reference rdf:resource="http://www.dictionary.com/browse/trichinella"/>
  <Definition>A genus of parasitic nematodes, including the species Trichinella spiralis, which causes
trichinosis.</Definition>
  <Category>Parasitology</Category>
  <Vocabulary>Trichinella</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/ph">
  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/pH"/>
  <Definition>a measure of acidity and alkalinity of a solution that is a number on a scale on which a
value of 7 represents neutrality and lower numbers indicate increasing acidity and higher numbers
increasing alkalinity and on which each unit of change represents a tenfold change in acidity or alkalinity
and that is the negative logarithm of the effective hydrogen-ion concentration or hydrogen-ion activity
in gram equivalents per liter of the solution</Definition>
  <Category>Urinalysis</Category>
  <Vocabulary>pH</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/glucose">
  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/glucose"/>
  <Definition>a crystalline sugar C6H12O6; specifically : the sweet colorless soluble dextrorotatory
form that occurs widely in nature and is the usual form in which carbohydrate is assimilated by
animals</Definition>
  <Category>Urinalysis</Category>
  <Vocabulary>Glucose</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
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<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/ascaris">
  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/ascaris"/>
  <Definition>any of a family (Ascaridae) of nematode worms that includes the common roundworm
(Ascaris lumbricoides) parasitic in the human intestine</Definition>
  <Category>Parasitology</Category>
  <Vocabulary>Ascarid</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>

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<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/color">
  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/color"/>
  <Definition>a phenomenon of light (as red, brown, pink, or gray) or visual perception that enables one
to differentiate otherwise identical objects</Definition>
  <Category>Urinalysis</Category>
  <Vocabulary>Color</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/protein">
  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/protein"/>
  <Definition>any of various naturally occurring extremely complex substances that consist of amino-
acid residues joined by peptide bonds, contain the elements carbon, hydrogen, nitrogen, oxygen, usually
sulfur, and occasionally other elements (as phosphorus or iron), and include many essential biological
compounds (as enzymes, hormones, or antibodies)</Definition>
  <Category>Urinalysis</Category>
  <Vocabulary>Protein</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/sarcocystic_neurona">
  <Category>Parasitology</Category>
  <Vocabulary>Sarcocystic neurona </Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/sperm">
  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/sperm"/>
  <Definition>a male gamete</Definition>
  <Category>Urinalysis</Category>
  <Vocabulary>Sperm</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/toxoplasma_sp.">
  <Category>Parasitology</Category>
  <Vocabulary>Toxoplasma sp.</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/blood">
  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/blood"/>
  <Definition>the fluid that circulates in the heart, arteries, capillaries, and veins of a vertebrate animal
carrying nourishment and oxygen to and bringing away waste products from all parts of the
body</Definition>
  <Category>Urinalysis</Category>
  <Vocabulary>Blood</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/sodium">
  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/sodium"/>
  <Definition>a silver-white soft waxy ductile element of the alkali metal group that occurs abundantly
in nature in combined form and is very active chemically</Definition>

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<Category>Urine Electrolytes</Category>
<Vocabulary>Sodium</Vocabulary>
<rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/anasakis_sp">
  <Reference rdf:resource="http://medical-dictionary.thefreedictionary.com/Anisakis"/>
  <Definition>a genus of nematodes that parasitize the stomachs of marine mammals and
birds.</Definition>
  <Category>Parasitology</Category>
  <Vocabulary>Anasakis sp </Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description
rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/nanophyetes_salmincola">
  <Reference rdf:resource="http://medical-
dictionary.thefreedictionary.com/Nanophyetus+salmincola"/>
  <Definition>A digenetic fish-borne fluke (family Nanophyetidae) of dogs and other fish-eating
mammals; the vector of Neorickettsia helmintheca, the agent of salmon poisoning.</Definition>
  <Category>Parasitology</Category>
  <Vocabulary>Nanophyetes salmincola </Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
</rdf:Description>
<rdf:Description rdf:about="https://xdomes.org/ont/mmhmap/lab_procedures/casts">
  <Reference rdf:resource="https://en.wikipedia.org/wiki/Urinary_cast"/>
  <Definition>Urinary casts are cylindrical structures produced by the kidney and present in the urine in
certain disease states. They form in the distal convoluted tubule and collecting ducts of nephrons, then
dislodge and pass into the urine, where they can be detected by microscopy.</Definition>
  <Category>Urinalysis</Category>
  <Vocabulary>Casts</Vocabulary>
  <rdf:type rdf:resource="https://xdomes.org/ont/mmhmap/lab_procedures/varTerm"/>
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  <omv:hasCreator>Felimon Gayanilo</omv:hasCreator>
  <j.0:origVocManager>MMHMAP WG2</j.0:origVocManager>
  <omv:description>MMHMAP Vocabulary for laboratory descriptions</omv:description>
  <j.0:origMaintainerCode>mmhmap</j.0:origMaintainerCode>
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  <Definition>a remark, observation, or criticism</Definition>
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  <Reference>Refractometer or Chemstrip?
http://www.merriam-webster.com/dictionary/specific%20gravity</Reference>
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  <Definition>a genus of sporozoan protozoans of the order Sarcosporidia that form cysts in vertebrate
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  <Vocabulary>Sarcocystis sp</Vocabulary>
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  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/cryptosporidium"/>
  <Definition>any of a genus (Cryptosporidium of the order Coccidia) of protozoans parasitic in the gut
of vertebrates including humans and sometimes causing diarrhea</Definition>
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  <Vocabulary>Cryptosporidium</Vocabulary>
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  <Definition>A potassium level that is too high or too low can be serious. Abnormal levels may cause
symptoms such as muscle cramps or weakness, nausea, diarrhea, or frequent urination. Other symptoms
may include dehydration, low blood pressure, confusion, irritability, paralysis, and changes in heart
rhythm.</Definition>
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  <Reference rdf:resource="http://www.dictionary.com/browse/acanthocephalan"/>
  <Definition>any parasitic worm of the phylum or class Acanthocephala, having a proboscis covered
with recurved hooks.</Definition>
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  <Vocabulary>Acanthocephalan</Vocabulary>

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  <Reference rdf:resource="http://www.dictionary.com/browse/debris"/>
  <Definition>the remains of anything broken down or destroyed; ruins; rubble</Definition>
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  <Vocabulary>Debris</Vocabulary>
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  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/hematocrit"/>
  <Definition>the ratio of the volume of red blood cells to the total volume of blood as determined by separation of red blood cells from the plasma usually by centrifugation</Definition>
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  <Vocabulary>Hematocrit</Vocabulary>
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  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/hemoglobin"/>
  <Definition>an iron-containing respiratory pigment of vertebrate red blood cells that consists of a globin composed of four subunits each of which is linked to a heme molecule, that functions in oxygen transport to the tissues after conversion to oxygenated form in the gills or lungs, and that assists in carbon dioxide transport back to the gills or lungs after surrender of its oxygen</Definition>
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  <Vocabulary>Hemoglobin</Vocabulary>
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  <Reference rdf:resource="http://www.dictionary.com/browse/toxoplasma-gondii"/>
  <Definition>A sporozoan species that is an intracellular parasite in a variety of vertebrates and is the causative agent of toxoplasmosis.</Definition>
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  <Vocabulary>Toxoplasma gondii</Vocabulary>
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  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/Leukocytes"/>
  <Definition>white blood cell</Definition>
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  <Vocabulary>Leukocytes</Vocabulary>
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  <Reference rdf:resource="http://www.dictionary.com/browse/giardia"/>
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  <Reference rdf:resource="http://www.dictionary.com/browse/nematode"/>
  <Definition>any unsegmented worm of the phylum Nematoda, having an elongated, cylindrical body; a
roundworm.</Definition>
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  <Vocabulary>Nematode</Vocabulary>
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  <Reference>Marine Mammal Health Monitoring and Analysis Platform (WG2)</Reference>
  <Definition>a body that is formed by the solidification of a chemical element, or a
mixture.</Definition>
  <Category>Urinalysis</Category>
  <Vocabulary>Crystals</Vocabulary>
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  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/Turbidity"/>
  <Definition>thick or opaque with or as if with roiled sediment </Definition>
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  <Reference rdf:resource="http://medical-dictionary.thefreedictionary.com/Otostrongylus"/>
  <Definition>a genus of lungworms in the family Crenosomatidae.</Definition>
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  <Reference rdf:resource="http://www.merriam-webster.com/dictionary/osmolality"/>
  <Definition>the concentration of an osmotic solution especially when measured in osmols or
milliosmols per 1000 grams of solvent</Definition>
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  <Vocabulary>Osmolality</Vocabulary>

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