Notes

1. VIVO uses `DateTimeValue` and `DateTimeInterval` to model dates and datetimes. These are objects, not literal values. The object models are simple (see below). VIVO `DateTimeValue` supports the concept of a precision, which indicates whether a particular `DateTimeValue` is accurate to the day, or perhaps only to the month, or perhaps only to the year. Precision is an important idea – publication dates, for example, are often known only to year precision, and sometimes to year and month.

2. The model indicates that creating a `DateTimeValue` requires three triples – one to specify the type, one to specify the literal value of the datetime, and one to indicate the precision.

```
<http://vivo.myschool.edu/individual/n123> rdf:type vivo:DateTimeValue .
<http://vivo.myschool.edu/individual/n123> vivo:dateTime "2010-11-12T12:00:00"^^xsd:datetime .
<http://vivo.myschool.edu/individual/n123> vivo:dateTimePrecision vivo:yearPrecision .
```

3. VIVO provides the precisions shown below:
   - <http://vivoweb.org/ontology/core#yearMonthDayTimePrecision>
   - <http://vivoweb.org/ontology/core#yearMonthPrecision>
   - <http://vivoweb.org/ontology/core#yearPrecision>
   - <http://vivoweb.org/ontology/core#yearMonthDayPrecision>

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**Ontology Diagram Legend**

- **Dark blue** – the entity being modeled
- **Light blue** – entities dependent on the entity being modeled. These will typically be created along with the entity being modeled, and should be removed if the entity being modeled is removed.
- **Green** – independent entities. These typically pre-exist in your VIVO when adding the entity being modeled. These should not be removed if the entity being modeled is removed.
dateTimeInterval

The DateTimeInterval is an entity that references one or two DateTimeValues. Either reference could be missing. An interval might have a start date and no end date, for example. To create a DateTimeValue with a start and end takes the statements below, where the start and end objects exist and have the URI as shown.

```
<http://vivo.mydomain.edu/individual/n456> rdf:type vivo:DateTimeInterval .
```

Ontology Diagram Legend

Dark blue – the entity being modeled
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Green – independent entities. These typically pre-exist in your VIVO when adding the entity being modeled. These should not be removed if the entity being modeled is removed.