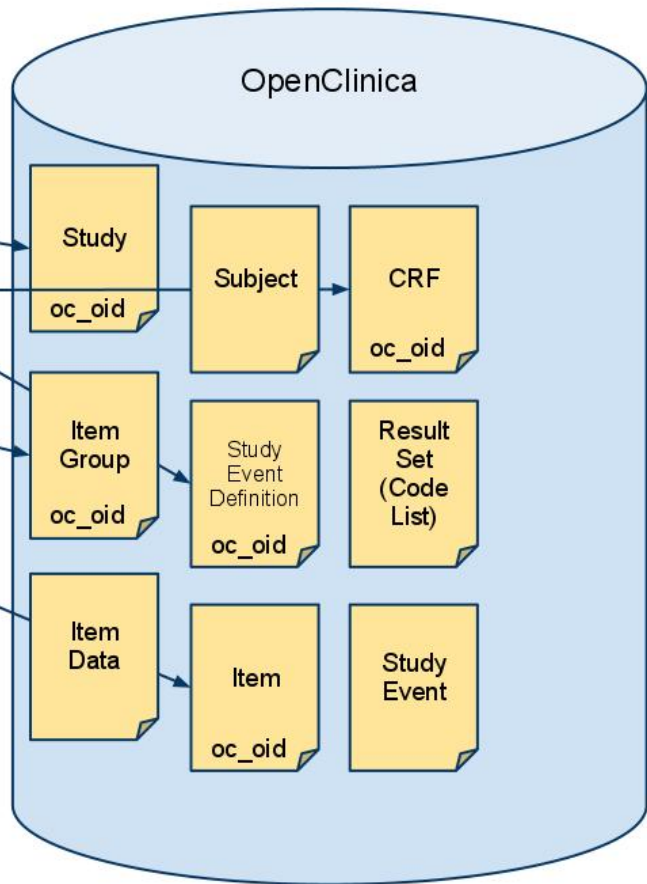


CDISC ODM XML File

```
<Study OID=...>  
  <StudyEventDef OID=...>  
    <FormRef OID=.../>  
  </StudyEventDef>  
  <FormDef OID=...>  
    <ItemGroupRef OID=.../>  
  </FormDef>  
  <ItemGroupDef OID=...>  
    <ItemRef ItemOID=.../>  
  </ItemGroupDef>  
  <ItemDef OID=...>  
    <CodeListRef CodeListOID=.../>  
  </ItemDef>  
</Study>  
  
<ClinicalData StudyOID=...>  
  <SubjectData ...>  
    <StudyEventData ...>  
      <FormData ...>  
        <ItemGroupData ...>  
          <ItemData ItemOID=... Value=.../>  
        </ItemGroupData>  
      </FormData>  
    </StudyEventData>  
  </SubjectData>  
</ClinicalData>
```

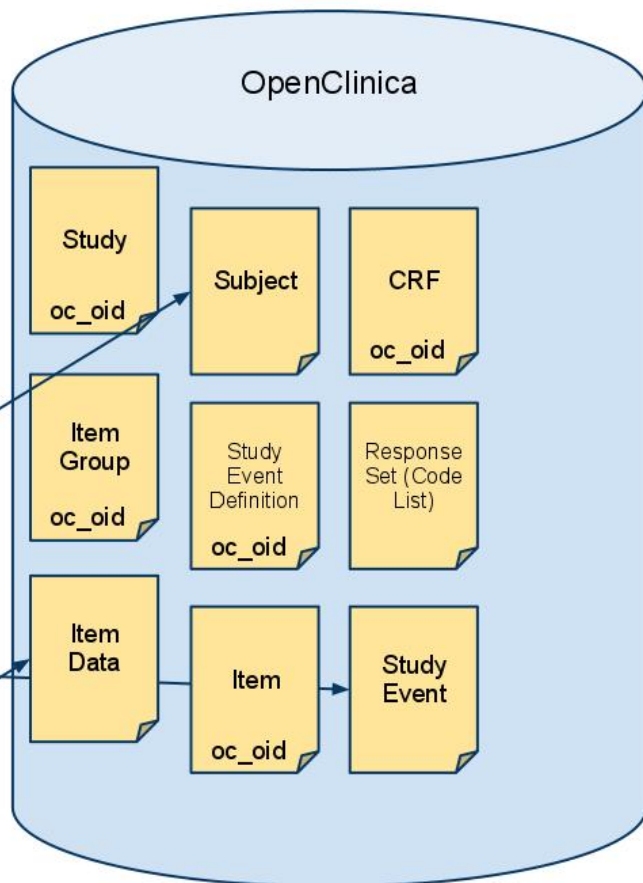


and next, for clinical data that is part of a study:

CDISC ODM XML File

```
<Study OID=...>
  <StudyEventDef OID=...>
    <FormRef OID=.../>
  </StudyEventDef>
  <FormDef OID=...>
    <ItemGroupRef OID=.../>
  </FormDef>
  <ItemGroupDef OID=...>
    <ItemRef ItemOID=.../>
  </ItemGroupDef>
  <ItemDef OID=...>
    <CodeListRef CodeListOID=.../>
  </ItemDef>
</Study>

<ClinicalData StudyOID=...>
  <SubjectData ...>
    <StudyEventData ...>
      <FormData ...>
        <ItemGroupData ...>
          <ItemData ItemOID=... Value=.../>
        </ItemGroupData>
      </FormData>
    </StudyEventData>
  </SubjectData>
</ClinicalData>
```



In principle, the OpenClinica data model is designed to closely mirror the structure and nomenclature of CDISC ODM. In practice there are deviations, either where the logical design of OpenClinica is different from ODM or where the physical implementation of the data model is different than ODM's XML structure. While we try to avoid both types of deviations they are sometimes unavoidable. There are also some deviations that are simply legacy artifacts, without any really good reason for departing from the standard. Where these deviations do exist, we look for ways to refactor the database schema to ensure better harmonization with ODM, since we believe this makes OpenClinica more consistent, more easily understood, and easier to develop for.

[1] - For more on EAV data models, see [Wikipedia](#) and Nadkarni, et al, Organization of heterogeneous scientific data using the EAV/CR representation. Journal of the American Medical Informatics Association 1999 Nov-Dec;6(6):478-93. [Abstract](#).

[2] - Many thanks to Marco van Zwetselaar of Kilimanjaro Clinical Research Institute for contributing this diagram on the OpenClinica users mailing list.

[3] - See [the OpenClinica Blog](#) for more detail on how the data model maps to ODM.

This page is not approved for publication.