```
<ModelDefinition>

  <ParameterModel blkId="pm1">

    <!-- all input comes from dataset/inline data in TrialDesign -->

    <!-- prior variables and transformations on "THETA" -->
    <PopulationParameter symbId="p_POP_K"/>

    <PopulationParameter symbId="POP_K_V">
       <ct:VariabilityReference>
          <ct:SymbRef symbIdRef="pop" blkIdRef="model"/>
       </ct:VariabilityReference>
       <Distribution>
          <po:ProbOnto name="RandomSample">
             <po:Parameter name="weight">
                <ct:Assign>
                   <ct:SymbRef symbIdRef="p_POP_K_V"/>
                </ct:Assign>
             </po:Parameter>
          </po:ProbOnto>
       </Distribution>
    </PopulationParameter>

    <PopulationParameter symbId="POP_K">
       <ct:Assign>
          <Uniop op="exp">
             <ct:VectorSelector>
                <ct:SymbRef symbIdRef="POP_K_V"/>
                <ct:Cell>
                   <ct:Int>1</ct:Int>
                </ct:Cell>
             </ct:VectorSelector>
          </Uniop>
       </ct:Assign>
    </PopulationParameter>

    <PopulationParameter symbId="POP_V">
       ... omitted, analog as above
    </PopulationParameter>

</ModelDefinition>
```

```
<TrialDesign>

  <!-- DATA for bins_POP_K, bins_POP_V, p_POP_K_V
    combined here in one file but could be also separate files -->
<ExternalDataSet oid="RdataSet">
  <ColumnMapping>
    <ColumnRef columnIdRef="bins_POP_K"/>
    <ct:Assign>
       <ct:VectorSelector>
          <ct:SymbRef symbIdRef="POP_K_V" blkIdRef="pm1"/>
          <ct:Cell>
             <ct:Int>1</ct:Int>
          </ct:Cell>
       </ct:VectorSelector>
    </ct:Assign>
  </ColumnMapping>
  <ColumnMapping>
    <ColumnRef columnIdRef="bins_POP_V"/>
    <ct:Assign>
       <ct:VectorSelector>
          <ct:SymbRef symbIdRef="POP_K_V" blkIdRef="pm1"/>
          <ct:Cell>
             <ct:Int>2</ct:Int>
          </ct:Cell>
       </ct:VectorSelector>
    </ct:Assign>
  </ColumnMapping>
  <ColumnMapping>
    <ColumnRef columnIdRef="p_POP_K_V"/>
    <ct:SymbRef blkIdRef="pm1" symbIdRef="p_POP_K_V"/>
  </ColumnMapping>
  <DataSet>
    <Definition>
       <Column columnId="bins_POP_K" valueType="real" columnNum="1"/>
       <Column columnId="bins_POP_V" valueType="real" columnNum="2"/>
       <Column columnId="p_POP_K_V" valueType="real" columnNum="3"/>
    </Definition>
    <Table>
       <Row><ct:Real>2.006</ct:Real><ct:Real>5.050</ct:Real><ct:Real>0.033</ct:Real></Row>
       <Row><ct:Real>2.045</ct:Real><ct:Real>5.050</ct:Real><ct:Real>0.100</ct:Real></Row>
       <Row><ct:Real>2.084</ct:Real><ct:Real>5.050</ct:Real><ct:Real>0.100</ct:Real></Row>
       <Row><ct:Real>2.123</ct:Real><ct:Real>5.050</ct:Real><ct:Real>0.200</ct:Real></Row>
       <!-- omitted rows -->
    </Table>
  </DataSet>
</ExternalDataSet>
```