```
<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:SymRef 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>

  <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>

</TrialDesign>
```