$Id: 11-examples.fig,v 1.2 1997/01/18 21:11:52 gunther Release $, © 1997 by Gunther Schadow, all rights reserved.

## Declaration of the class of PID segments

```
class PIDseg : public Segment
{
  public:
              SItyp SetIdPatId; // set id - patient id
              CKtyp PatIdExtId; // patient id (external id)
    repfield<CKtyp>PatIdIntId; // patient id (internal id)
              STtyp AltPatId;   // alternate patient id
              PNtyp PatName;    // patient name
              STtyp MotSMaiName;// mother's maiden name
              TStyp DateOfBirth;// date of birth
            SexCode Sex;        // sex
  ...
};
```

## Define a PID segment and set some of its fields. Refercencing objects by their name is convenient for human programmers...

```
PIDseg pid;
pid.PatIdIntId[0].IdNum = "08/15-4711";
pid.PatName.FamName     = "Doe";
pid.PatName.GivenName   = "John";
pid.commit();
```

## ... while table driven applications may reference the members by an ordinal number.

```
pid[2][0][0] = "08/15-4711";
pid[4]   [0] = "Doe";
pid[4]   [1] = "John";
```

## Define a transfer message (ADT^A02) and set its PID segment

```
ADT_A02msg request;
request.PatIde = pid;
```

## Send the message through a dynamically configured channel

```
SockStream channel(address);
channel->connect();
channel << hl7er << request << endm << endt;
ACKmsg response;
channel >> response >> endm >> endt;
```