**Use Case Applying insulin**

**Primary actors**: Patient  
 Pharmacy  
 PIP Producer

**Basic flow of events:**

1. Patient attaches a PIP to himself
2. PIP measures the blood sugar level at periodic intervals
3. Readings are compared
4. Readings indicate rising of glucose
5. Insulin is injected

**Alternative flows**

2.1 Batteries of the PIP are empty  
 2.1a Patient buys new batteries  
 2.1b Patient puts new batteries into the PIP

2.2 PIP does not work  
 2.2a PIP is sent back to the PIP producer  
 2.3a a new PIP is sent to the patient

4.1 readings indicate no change of glucose  
 4.1a readings are stored for further comparison

5.1 PIP runs out of insulin  
5.1a Patient gets new insulin from a pharmacy  
5.1b Patient puts insulin into the PIP