



***Adapting MEDICAL for  
nursing informatics/home care  
in Germany***

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# Agenda

- Introduction
- Medical Wound
- Medical Nursing
- Future Tasks

# Introduction

- Small company
- Working on project
  - Mobile ICT for home help service
  - Needed Nursing Information system
  - Have to use Open Source
- Open ERP and Medical were used

## Introduction (2)

- Open ERP
  - Customers, Products
- Medical
  - Patients, Medicaments
  - Diseases, Vaccinations

# Introduction: Starting with Medical

- German Localisation
  - German Translation
  - German ICD 10, German Procedures Classification
- Testing the System
- Developing new Modules

# Medical Wound

- Wound discription
  - Type of wound, localisation
  - classification
- Wound assessment
  - Date of assessment, odor, infection, size
  - Wound edges, type of tissue, treatment
- Overview of healing
- Risk of decubitus (Norton Scale)

**OpenERP - Link - Wound Documentation**

Wound Assessment | Wound Treatment

Date : 02/09/2010 23:12:00

Wunde : HOELLER\_NECK


Description

Length (cm) : 12    Width (cm) : 5    depth (cm) : 2

Damage : Fascia, Muscle    Tissue type : Noekrosis    Infection : yes

Exudate : low    Odor : absent

Photo



Pain

Pain :    Location of pain :

Intensity of Pain :    Quality of Pain :    Duration of pain :

Schließen    OK

**OpenERP - Link - Norton Scale**

Norton Scale

Date : 02/10/2010 23:05:00

Age	1: <input type="checkbox"/>	2: <input type="checkbox"/>	3: <input checked="" type="checkbox"/>	4: <input type="checkbox"/>
Cooperation	1: <input type="checkbox"/>	2: <input checked="" type="checkbox"/>	3: <input type="checkbox"/>	4: <input type="checkbox"/>
Skin Condition	1: <input type="checkbox"/>	2: <input checked="" type="checkbox"/>	3: <input type="checkbox"/>	4: <input type="checkbox"/>
Additional Diseases	1: <input type="checkbox"/>	2: <input checked="" type="checkbox"/>	3: <input type="checkbox"/>	4: <input type="checkbox"/>
Physical Condition	1: <input type="checkbox"/>	2: <input checked="" type="checkbox"/>	3: <input type="checkbox"/>	4: <input type="checkbox"/>
Mental Condition	1: <input type="checkbox"/>	2: <input checked="" type="checkbox"/>	3: <input type="checkbox"/>	4: <input type="checkbox"/>
Activity	1: <input type="checkbox"/>	2: <input checked="" type="checkbox"/>	3: <input type="checkbox"/>	4: <input type="checkbox"/>
Mobility	1: <input type="checkbox"/>	2: <input checked="" type="checkbox"/>	3: <input type="checkbox"/>	4: <input type="checkbox"/>
Incontinence	1: <input type="checkbox"/>	2: <input checked="" type="checkbox"/>	3: <input type="checkbox"/>	4: <input type="checkbox"/>

Norton Result : 19

Entry by : Administrator

Schließen OK



# Medical Nursing

- Vital Signs
- Nursing Diagnosis (NANDA)
- Nursing Intervention Classification (NIC)
- Nursing Outcome Classification (NOC)
- Care plan
- Care report

# Example nursing.py

```
class patient_bloodpressure (osv.osv):
```

```
    _name = "medical.patient.bloodpressure"
```

```
    _description = "bloodpressure"
```

```
    _order = "date desc"
```

```
    _columns = {
```

```
        'name' : fields.many2one ('medical.patient','Patient ID',readonly=True),
```

```
        'date' : fields.datetime ('Date'),
```

```
        'sysbp' : fields.integer('Systolic Value (mmHG)'),
```

```
        'diasbp' : fields.integer('Diastolic Value (mmHG)'),
```

```
        'rate' : fields.integer('Heart Rate'),
```

```
        'user_id' : fields.many2one ('res.users','Doctor', readonly=True),
```

```
    }
```

```
patient_bloodpressure ()
```

# Example nursing.xml

```
<record model="ir.ui.view" id="medical_patient_bloodpressure_tree">
  <field name="name">Patient Blood Pressure List</field>
  <field name="model">medical.patient.bloodpressure</field>
  <field name="type">tree</field>
  <field name="arch" type="xml">
    <tree string='Blood Pressure'>
      <field name="date"></field>
      <field name="sysbp"></field>
      <field name="diasbp"></field>
      <field name="rate"></field>
      <field name="user_id"></field>
    </tree>
  </field>
</record>
```

Main Info


? Patient :  Sex :

Date of Birth :  Patient Age :

Ethnic group :  Marital Status :

Blood Type :  Rh :

? Family :



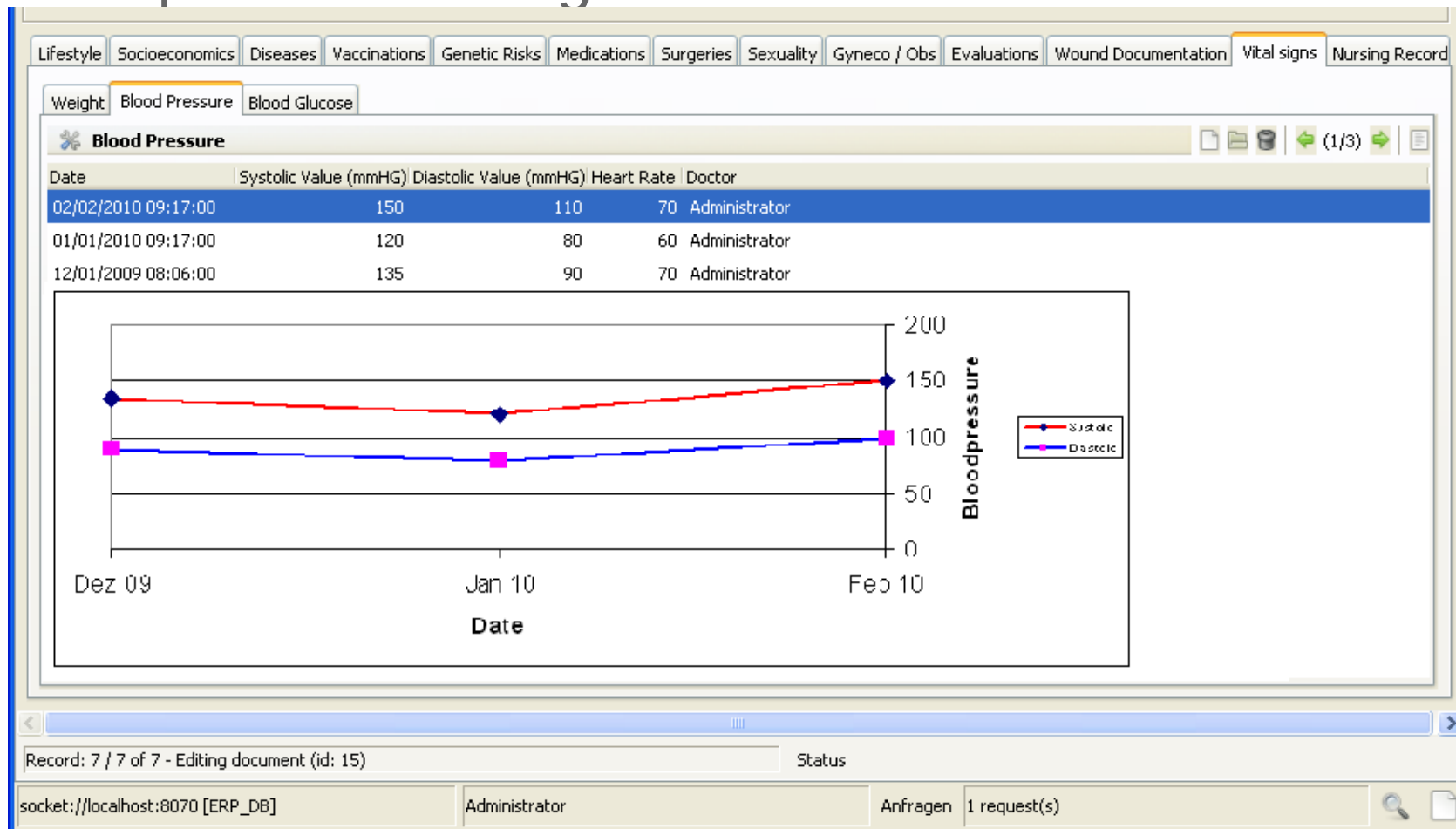
Weight Blood Pressure Blood Glucose

**Blood Pressure** (1/3)

Date	Systolic Value (mmHG)	Diastolic Value (mmHG)	Heart Rate	Doctor
02/02/2010 09:17:00	150	90	70	Administrator
01/01/2010 09:17:00	130	80	60	Administrator
12/02/2009 08:06:00	135	90	70	Administrator

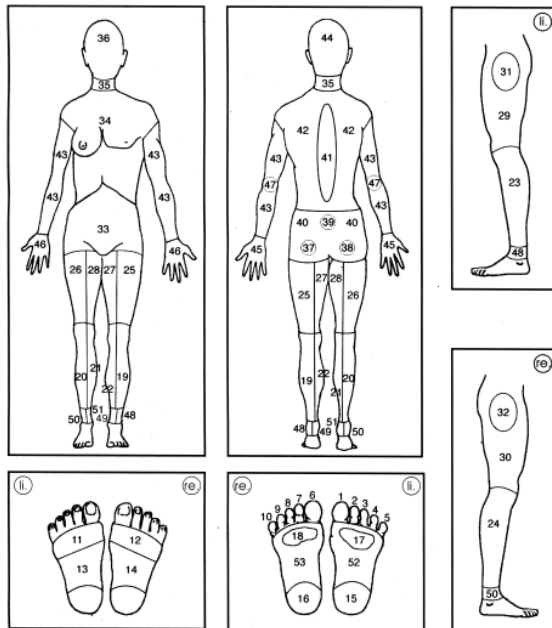
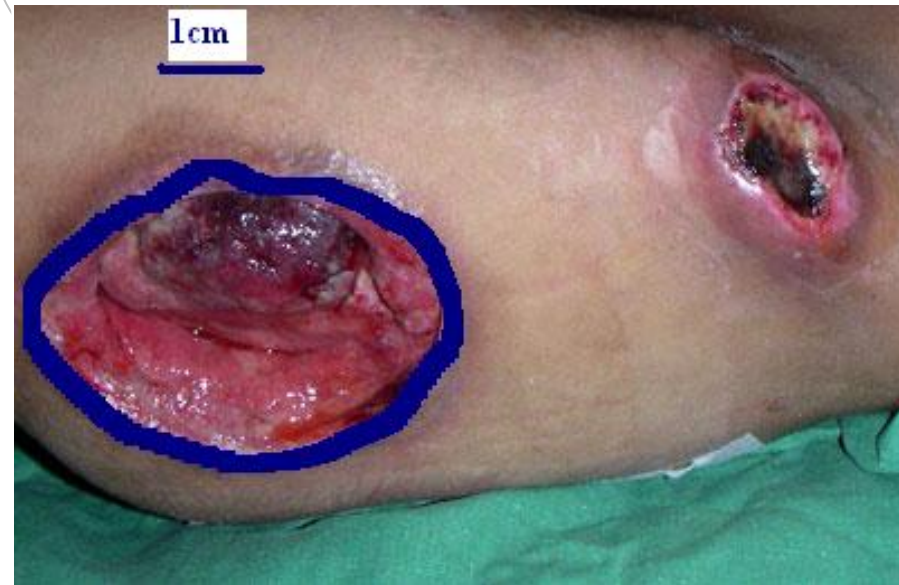
# Future Tasks

- Graphs for vital signs



# Future Tasks (2)

- Imaging
  - Calculate size of a wound
- Choose wound location



Coloplast wounddocumentation

## Future Tasks

- Work together with Luis
- Further modules
- Find solution for sourceforge

The End

Thank you for your attention

Questions ?

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