



iMedOne, a proven addition to the TE-portfolio

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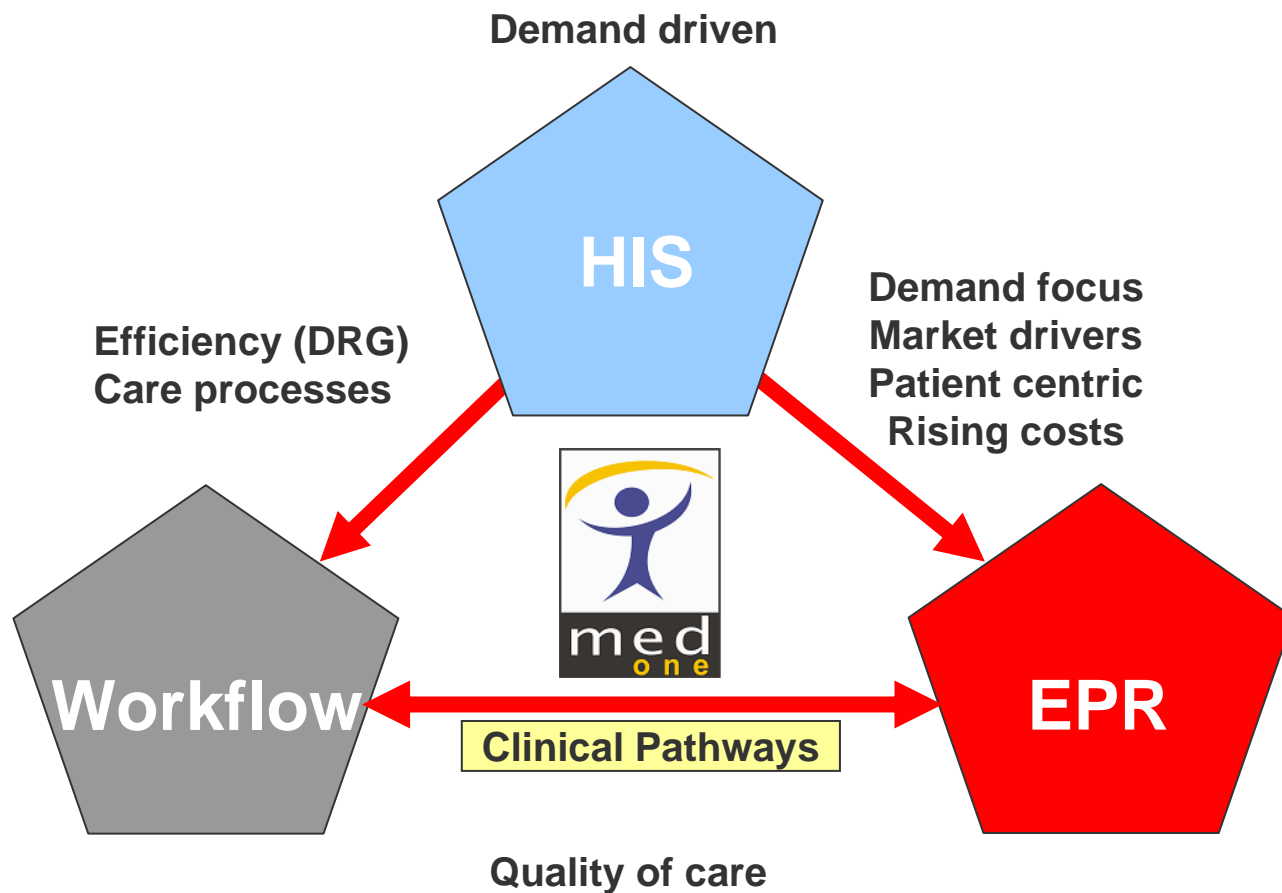
Content of presentation

- iMedOne, some quick facts
- iMedOne vision of an EPR
- Introduction to clinical pathways
- Why should we use pathways and what problems can they solve
- Introduction to mobile devices (if time allows)
- Questions and contact info

iMedOne, a proven addition to the TE product portfolio

- Hospital wide HIS including hospital groups and other care chain partners;
- Developed over a period of 12 years;
- Customer base in excess of 180 hospitals;
- Customers in Germany, The Netherlands, Austria, Switzerland and India;
- Product iMedOne acquired by TietoEnator in Jan 2005;
- iMedOne is a global strategic product of TietoEnator;
- In excess of 200 dedicated programmers for iMedOne product, based in India since 1995

Vision on EPR ...





An Introduction to Clinical Pathways

A pathway is made up of path elements in a time line with join relationships. Each path element has a status.

Geïntegreerde klinische paden [system: Medewerker van ITB Benelux/SYSTEM/KPG]

Bestand Bewerken Overzicht Ga naar Invoegen Formaat Extras Hulp E-mail ?

Pfadbearbeitung

60584 koopall, truus; 48 Jahre; 12.04.1956 (klinisch)

Timeline

Dimension

Klinisch pad

Overige acties
Documentatie
Beweging
Procedure

februari 2005

dinsdag 15 woensdag 16 donderdag 17 vrijdag 18 zaterdag 19 zondag 20

Relationship

Amb. bezoek
zorgplanbesp
Brief aan verwijzer
Brief aan patient

Path element

Details van het padelement

Element eigenschappen Voorganger Taken - verrichtingen Elem. - verrichtingen Taken

Pad: KPG algemeen 2
712- Psychiatrie

Dimensie: Procedure

Status: Erledigt

Element tijdstip

Begin: 15.02.2005 13:30
Einde: 15.02.2005 17:30

Duur (uu:mm): 04:00

Optioneel:
Beschrijving: zorgplanbesp
Vraag:
Kosten (eur):

Extra path elements or modules can be added (drag&drop)

The screenshot shows the 'Geïntegreerde klinische paden' application. The main window displays a clinical path for patient '60584 koopall, truus; 48 Jahre; 12.04.1956 (klinisch)'. The path is viewed in a 'Dagoverzicht' (Daily Overview) for February 2005. Activities are plotted on a timeline from Tuesday 15th to Thursday 17th. Activities include 'Amb. bezoek' (Amb. visit) on Tuesday, 'zorgplanbesp' (care plan discussion) on Tuesday, 'Brief aan verwijzer' (Letter to referrer) on Wednesday, 'Brief aan patient' (Letter to patient) on Wednesday, and 'Medicatie' (Medication) on Thursday. A 'Medicatie' element is highlighted in the main window. A 'Stencil' window on the right lists various modules that can be added to the path, including 'Mijlpaal', 'Onderzoek', 'Medicatie', 'Lab', 'Mobiliteit', 'Voorlichting', 'Verpleging', 'Voeding', 'Beweging', 'Administrativ', 'Actie', 'Documentatie', 'Overige acties', and 'Procedure'. The bottom of the window shows 'Details van het padelement' (Details of the path element) for the selected 'Medicatie' element, including fields for 'Pad' (KPG algemeen 2), 'Element eigenschappen' (846- Medicatie), 'Dimensie' (Medicatie), 'Status' (Geplant), 'Element tijdstip' (Begin: 17.02.2005 11:20, Einde: 17.02.2005 15:20), 'Duur (uu:mm)' (04:00), 'Optioneel', 'Beschrijving', 'Vraag', and 'Kosten (eur)'. The TietoEnator logo is visible in the bottom left corner.

Path elements can be deleted

The screenshot displays the 'Geïntegreerde klinische paden' (Integrated Clinical Paths) application. The window title is 'Geïntegreerde klinische paden [system: Medewerker van ITB Benelux/SYSTEM/KPG]'. The menu bar includes 'Bestand', 'Bewerken', 'Overzicht', 'Ga naar', 'Invoegen', 'Formaat', 'Extras', 'Hulp', and 'E-mail ?'. The toolbar shows various editing tools. The main area shows a clinical path for patient '60584 koopall, truus; 48 Jahre; 12.04.1956 (klinisch)' for the week of February 15-20, 2005. The path includes activities like 'Amb. bezoek', 'zorgplanbesp', 'Brief aan verwijzer', 'Brief aan patient', and 'Medicatie'. A context menu is open over the 'Medicatie' element, with options: 'Start element', 'Zet status op uitgevoerd', 'niet uit te voeren', and 'Verwijder element' (highlighted).

Details van het padelement

Element eigenschappen	Voorganger	Taken - verrichtingen	Elem. - verrichtingen	Taken
Pad: KPG algemeen 2				
846- Medicatie				
Dimensie: Medicatie				
Status: Gepland				
Element tijdstip				
Begin: 17.02.2005 11:20				
Einde: 17.02.2005 15:20				
Duur (uu:mm): 04:00				
Optioneel: <input type="checkbox"/>				
Beschrijving:				
Vraag:				
Kosten (eur):				

Jump to underlying iMedOne transactions via a single mouse click

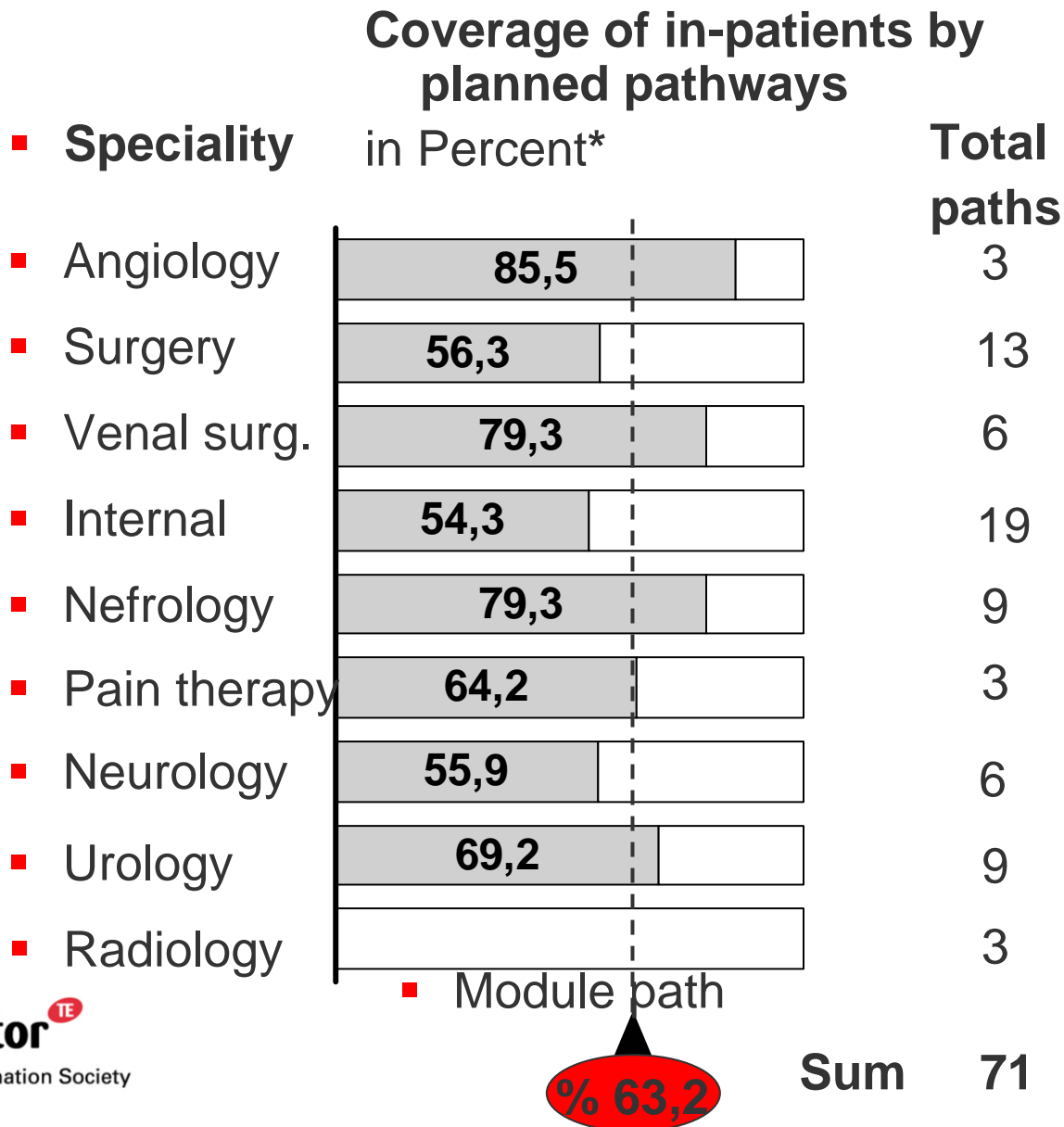
The screenshot displays the iMedOne Classic software interface, which is used for managing clinical paths and procedures. The main window is titled "Geïntegreerde klinische paden [system: Medewerker van ITB Benelux/SYSTEM/KPG]". The interface is divided into several panes:

- Left Pane (Klinisch pad):** Shows a timeline from "dinsdag 15" to "woensdag 16". Under the "Procedure" category, there are two entries: "Amb. bezoek" and "zorgplanbesp". A blue arrow points from the "zorgplanbesp" entry to the "Bespreek" button in the procedure form.
- Top Pane (Procedure - iMedOne Classic):** Contains a form for entering procedure details. Fields include:
 - Proceduurnummer: 400
 - Proceduurtipe: zorgplanbesp
 - Categorie: Psychiatrie
 - Periode (datum/tijd): Begin: 15.02.2005 13:49, Einde: 15.02.2005 17:30
- Bottom Pane (Details van het padelement):** Shows details for the selected element:
 - Pad: KPG algemeen 2
 - Element eigenschappen: 712- Psychiatrie
 - Dimensie: Procedure
 - Status: Erledigt
 - Element tijdstip: Begin: 15.02.2005, Einde: 15.02.2005
 - Duur (uu:mm): 04:00
- Right Pane (Bespreek):** Contains a form for recording a consultation. It includes a "Team" selection (A, B, C, D), a "Doel bespreking" field, and a "Korte samenvatting van bevindingen" text area.

Our experiences with pathways in Germany and The Netherlands

- Leading pathway customer in Germany is Bundesknappschaft in Bottrop.
 - Spent 2 years developing and gaining consensus in hospital regarding pathway content. They looked at their processes in a new way.
- Leading pathways customer in The Netherlands in Psychiatric hospital GGzE in Eindhoven
 - 12 main pathways
 - 246 modules (added to pathways as needed)
- Lessons:
 - Developing content is a time consuming task and leads to evidence based change. This is change management pur sang and should not be underestimated.
 - Once you have started on the pathway road the temptation is to take it too far too soon i.e. the desire to control EVERYTHING. This does not work and is counter productive
 - It works and gives results!! (see next slide examples)

Implemented pathways



1460 patients covered in 61 paths

Potential reduction in LOS due to Inpatient pathways

in days

Speciality	Nr. path patients in percent of cases	LOS before pathways	Planned LOS after pathways
Angiology	85,5	9,22	2,54
Surgery	56,3	7,15	6,44
Venal Surg.	79,3	5,91	4,17
Internal	54,3	8,35	5,02
Nefrology	79,8	10,21	9,91
Neurology	55,9	8,81	6,72
Pain therapy	64,2	6,62	5,80
Urology	69,2	6,17	5,94
Average	63,2	7,89	5,71

-27,6%

Potential
reduction in LOS
due to
implementation of
pathways

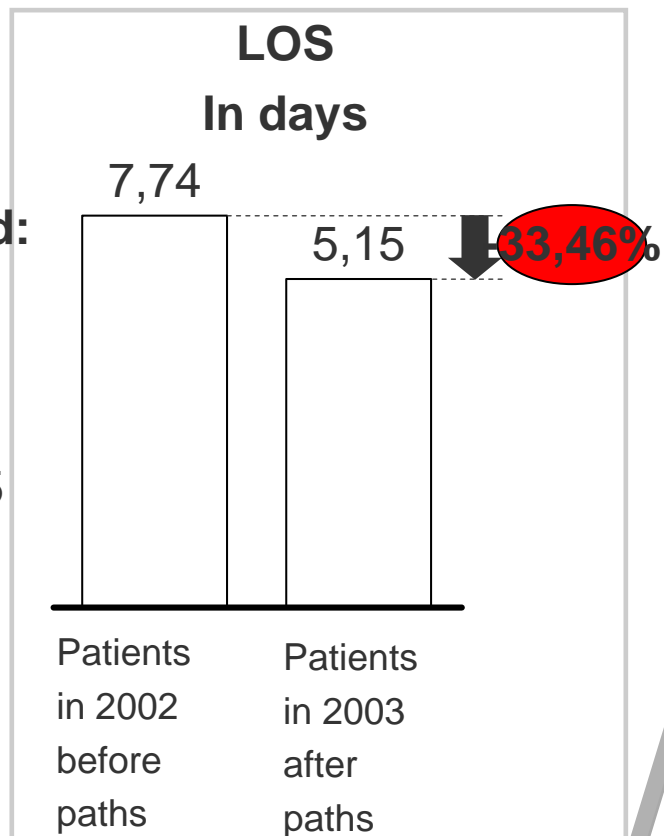
TietoEnator ^{TE}

Building the Information Society

Actual LOS reduction: The first positive results



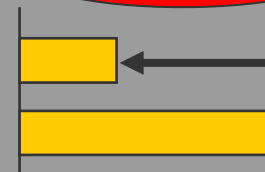
- **Reporting period:**
1 month (1.10 to 30.10.2003)
- **Nr. Patients:** 215
- **Nr. Paths:**
20 different pathways



A potential saving

(across all Knappschafts hospitals)

8,6 Mln EUR



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Building the Information Society

Why should you use pathways and what problems can they solve?

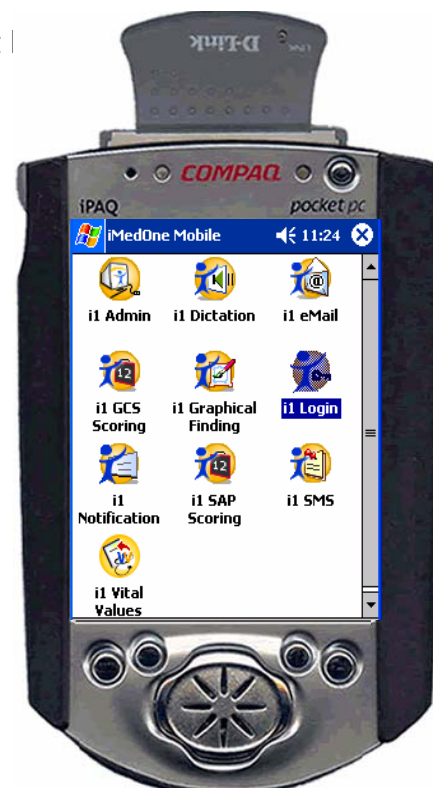
- Improve efficiency
 - Less LOS for patients
 - Financial savings
 - Reduce waiting lists
- Be conscious of and exercise evidence based medicine
- Aid training of new staff
- Involve patient and make treatment path visible to him
- Aid compliance with national regulations, standards



An introduction to mobile devices

iMedOne Mobile (1)

- Full integration with iMedOne;
- Utilises various mobile devices e.g. Pocket PC's and Tablet |

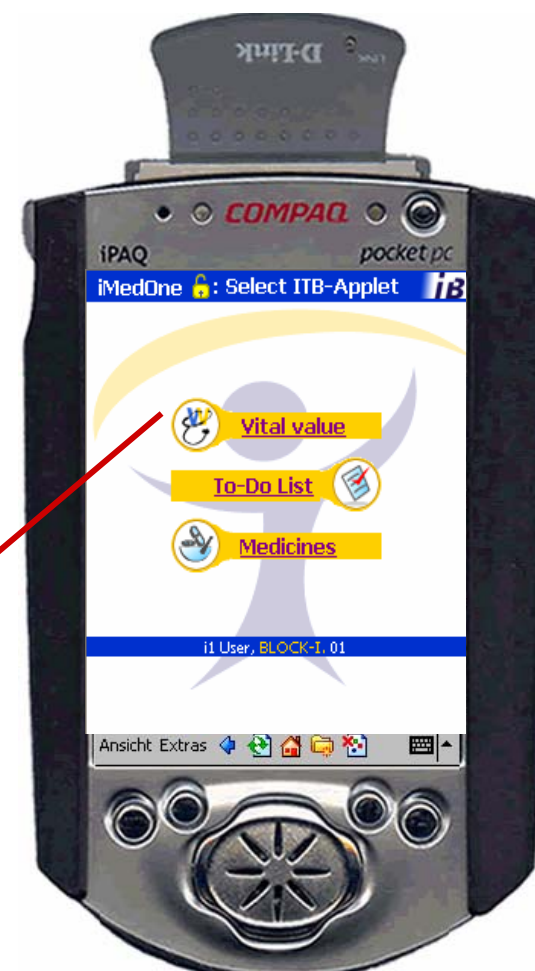
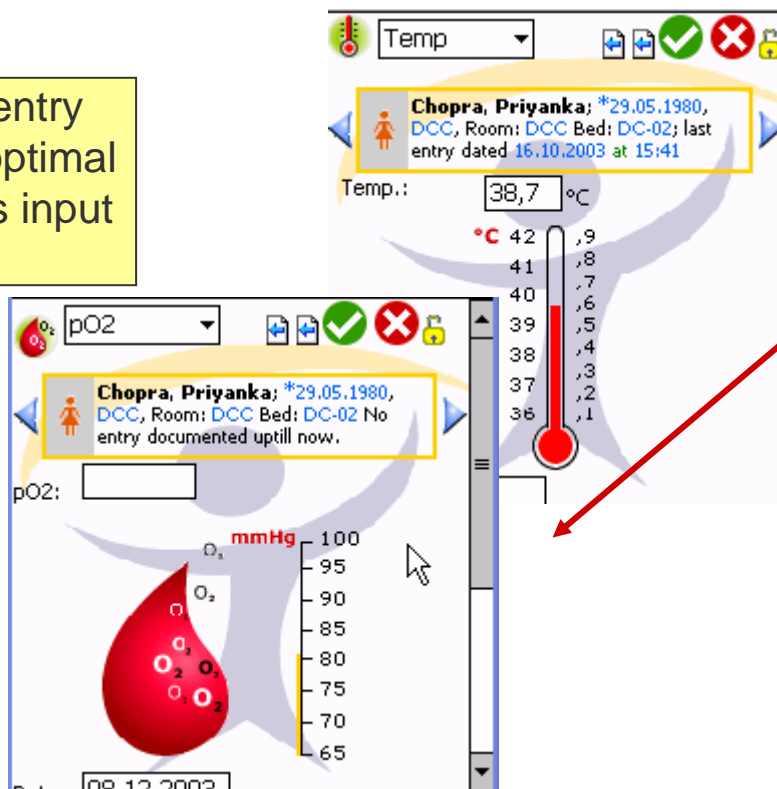


iMedOne Mobile (2)

Pocket PC devices

- Extended functionality for amongst others things: registration of vital values, medication, pre-operative screening, nursing activities,....

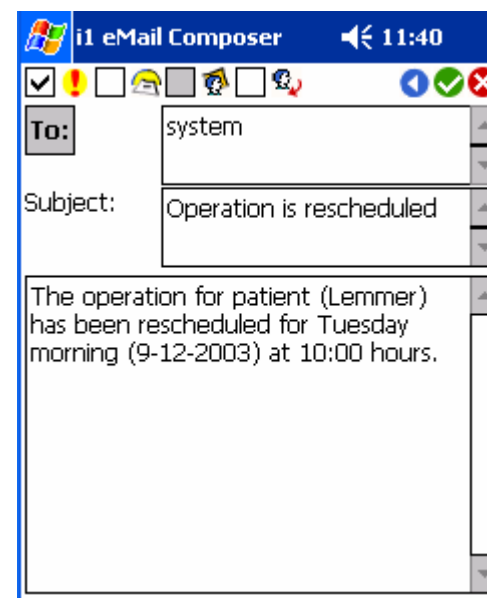
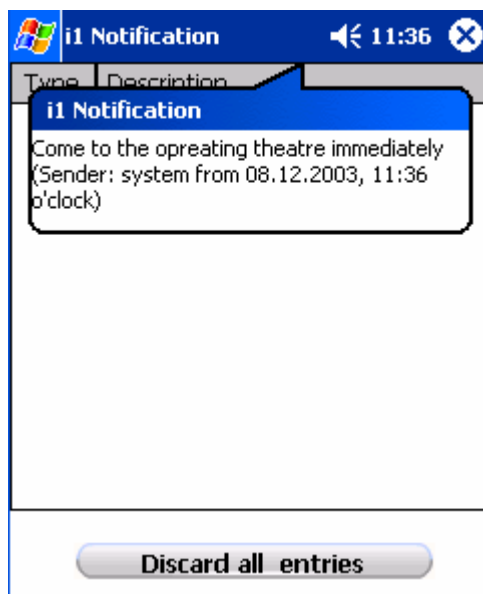
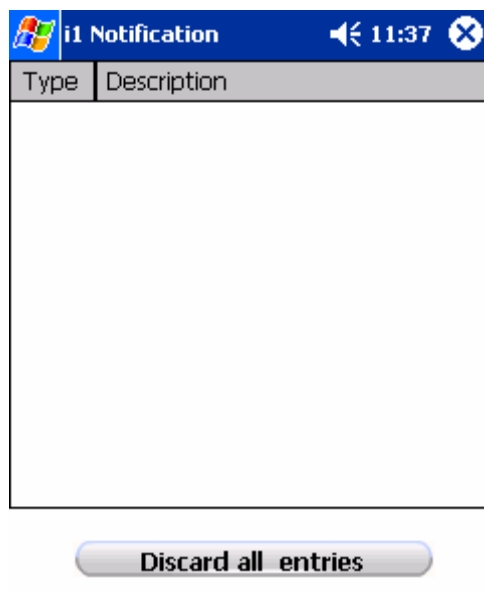
- Re-designed entry screen to make optimal use of a stylus as input medium



iMedOne Mobile (3)

Mobile dictation (DocTalk module)

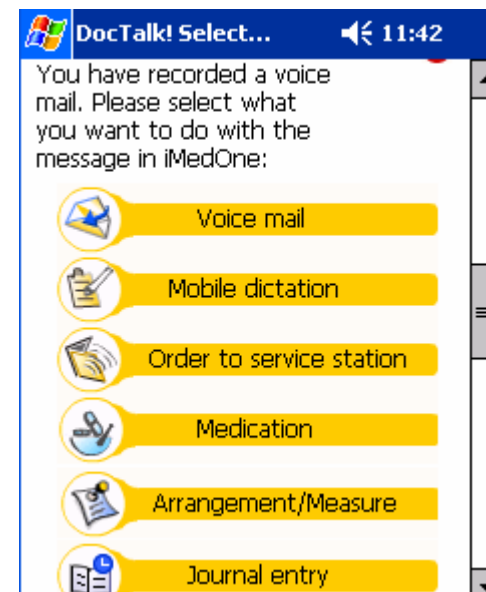
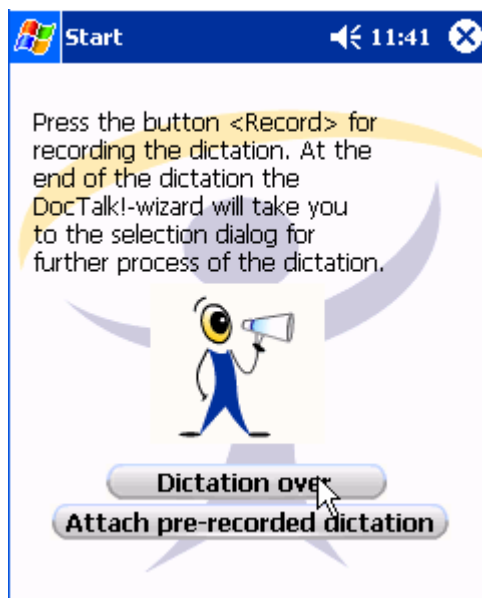
- Sending and receiving SMS, e-mail and notifications via a PDA;



iMedOne Mobile (4)

Mobile dictation (DocTalk module)

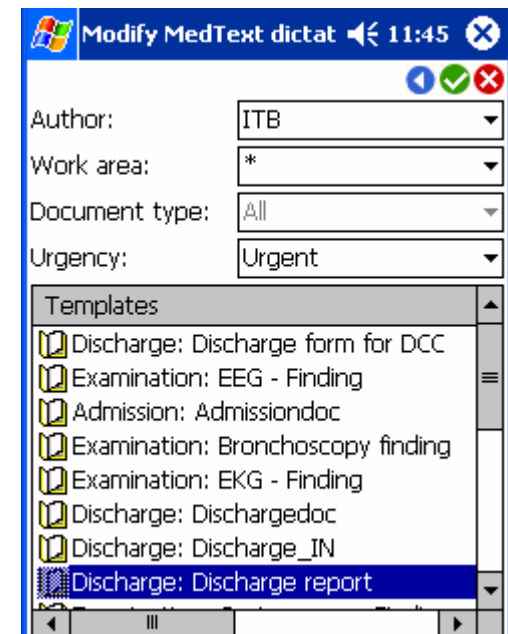
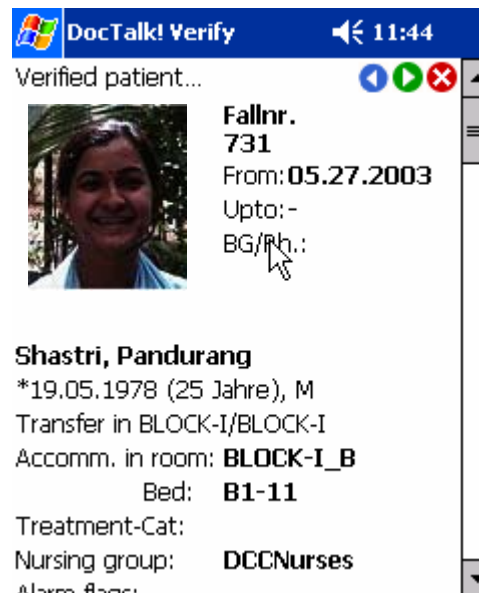
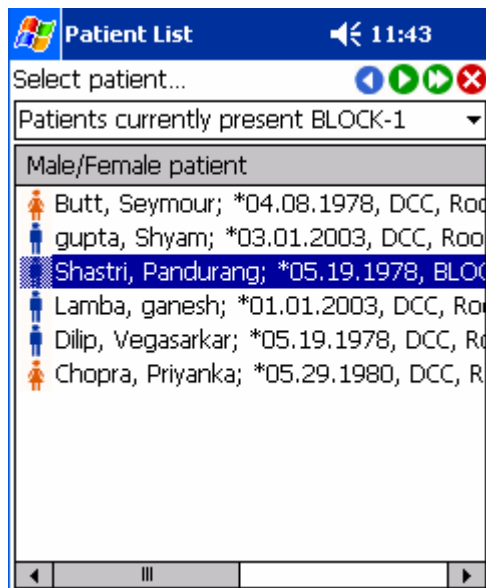
- Record a dictation and subsequently take actions e.g. order communication, medication, nursing plan, documentation.



iMedOne Mobile (5)

Mobile dictation (DocTalk module)

- After recording and making a choice of action (in this example documentation) a patient must be chosen and the action executed



Contact information

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