### The PAIN OUT project

- an overview





### What is PAIN OUT?

A research project that aims at improving postoperative pain treatment outcomes by use of a toolkit consisting of

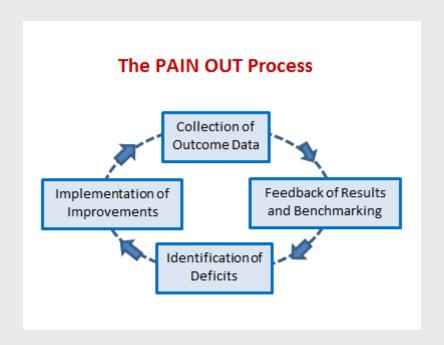
- 1. a benchmark module that feeds back outcomes
- 2. an electronic knowledge library

From 2009 to 2012, PAIN OUT was funded by the EC.













# What are the advantages of joining PAIN OUT?

- Continuous feedback and analyses of own quality of care (quality assessment tool)
- Possibility of change management concepts by evaluating own results
- Research opportunities
- Better patient care if results lead to improvements
- Being part of the world's largest network of clinicians involved in acute pain treatment





### Which patients can be included?

Currently, there are 3 PAIN OUT modules:

- PAIN OUT standard (post-op adult patients)
- PAIN OUT follow-up (after 6 and 12 months)
- PAIN OUT infant (post-op pediatric patients)

Additional modules in preparation: PAIN OUT outpatient, PAIN OUT obstetrics





#### How is it done?

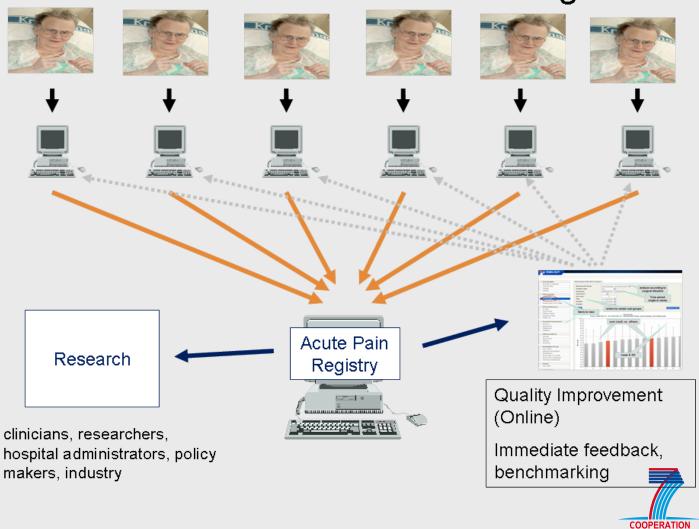
- 1 a) Collection of patient outcome data (based on the APS-POQ-R questionnaire)
- 1 b) Collection of process data (demographics, medical history, pre-, intra- and postoperative medical treatment)
- 2) Input of data into web-based data entry mask
- 3) Feedback of results via the benchmarkserver







### Feedback & Benchmarking







#### 1. Collection of data

Patient outcome questionnaire and process questionnaire collected on paper form

| PAIN_OUT_Outco | ome_English_26.pdf -   | Adobe Acrobat S             |               | Enveitert Fenster      | Hife               |              |                     |            |             |            |              | <b>○</b> -n× |
|----------------|--|-----------------------------|---------------|------------------------|--------------------|--------------|---------------------|------------|-------------|------------|--------------|--------------|
|                | Dateien zusam  |                             |               | Schützen •             |                    | • 🧬 Überprüf | fen und kommentiere | en =       |             |            |              |              |
|                |  | 2 / 4   11                  | <b>9 </b>     | <ul><li>133%</li></ul> | - 🔠 🖁              | Suchen       | _,                  |            |             |            |              |              |
|                |  |                             |               |                        |                    |              |                     |            |             |            |              |              |
| <u> </u>       | PATIENT CODE:  |                             |               |                        |                    |              |                     |            |             |            |              |              |
|                | PATIENT OUTCOMES QUESTIONNAIRE   |                             |               |                        |                    |              |                     |            |             |            |              |              |
| ?              | The following questions are about pain you experienced since your surgery.   |                             |               |                        |                    |              |                     |            |             |            |              |              |
|                | P1. On this scale, please indicate the worst pain you had since your surgery:  |                             |               |                        |                    |              |                     |            |             |            |              |              |
|                | 0  | 1                           | 2             | 3                      | 4                  | 5            | 6                   | 7          | 8           | 9          | 10           |              |
|                | no pain  | no pain worst pain possible |               |                        |                    |              |                     |            |             |            |              |              |
|                | <b>P2.</b> On 1  | this scale,                 | please in     | dicate the             | e <b>least p</b> a | in you h     | ad since y          | our surge  | ery:        |            |              |              |
|                | 0  | 1                           | 2             | 3                      | 4                  | 5            | 6                   | 7          | 8           | 9          | 10           |              |
| ı              | no pain worst pain possible  P3. How often were you in severe pain since your surgery?  Please circle your best estimate of the percentage of time you experienced severe pain:  |                             |               |                        |                    |              |                     |            |             |            |              |              |
|                | 0%   | 10%                         | 20%           | 30%                    | 40%                | 50%          | 60%                 | 70%        | 80%         | 90%        | 100%         |              |
| <i>Q</i>       | never in severe pain  P4. Circle the one number below that best describes how much, since your surgery, pain interfered with or prevented you from  a. doing activities in bed such as turning, sitting up, changing position: |                             |               |                        |                    |              |                     |            |             |            |              |              |
| 8              |  | activities                  | _             |                        | T .                |              |                     |            |             |            |              |              |
| -              | 0  | 1 1                         | 2             | 3                      | 4                  | 5            | 6                   | 7          | 8           |            | 10           |              |
| 2 Start 🔞 🐚    | Novell Group Novell Group  | o P:\Pain_0                 | Dut\P 🕍 P:\Pa | sin_Out\ d             | raft Newslet       | PAIN OUT get | Pordenone S         | e PO_proje | sctpr 📦 New | s - Mozila | PAIN_OUT_O 2 | 🤻 « 🦰 10:56  |

|                 | ess_26.pdf - Adobe Acrobat Standa     | and<br>mulare Werkzeuge Erwebert Fenster Hilfe  | <u>-</u> 5× |  |  |  |  |  |  |  |  |
|-----------------|---------------------------------------|---|-------------|--|--|--|--|--|--|--|--|
| PDF erstellen • | .60\                                  | Exportieren • 🔒 Schützen • 🥖 Unterschreiben • 🚰 Überprüfen und kommentieren •   |             |  |  |  |  |  |  |  |  |
|                 | 2 / 10                                | 1k 🖖 🖳 💌 133% - 🔚 💥 Suchen  |             |  |  |  |  |  |  |  |  |
| •               | Mark medic                            | cations <u>given</u> to patient; record <u>cumulative</u> doses. PATIENT CODE:  |             |  |  |  |  |  |  |  |  |
| 4               |                                       | MEDICAL HISTORY   |             |  |  |  |  |  |  |  |  |
|                 | H1 Comorbidities                      |   |             |  |  |  |  |  |  |  |  |
|                 |                                       | □ no □ not possible to obtain the information   |             |  |  |  |  |  |  |  |  |
|                 | If yes, which (check all that apply): |   |             |  |  |  |  |  |  |  |  |
|                 | Cancer                                | □ Cancer □ Renal insufficiency or disease without dialvsis □ Renal disease requiring dialvsis   |             |  |  |  |  |  |  |  |  |
| _               |                                       | ☐ Affective disorders (depression, anxiety, phobia, PTSD, bipolar disorder) ☐ Schizophrenia   |             |  |  |  |  |  |  |  |  |
|                 | Psychiatric                           | ☐ Alcohol use disorder ☐ Current smoker ☐ Substance abuse of drugs (legal and illegal)  |             |  |  |  |  |  |  |  |  |
| _               | Cardiovascular                        | ☐ Hypertension ☐ Coronary artery disease or myocardial infarction or cerebral vascular accident   |             |  |  |  |  |  |  |  |  |
| _               | Hematology                            | ☐ Sickle cell disease   |             |  |  |  |  |  |  |  |  |
|                 | GI disease                            | ☐ Liver Cirrhosis ☐ History or current upper or lower Gl ulcer (peptic or duodenal ulcer disease) ☐ Irritable bowel disease (Crohn's disease, ulcerative colitis) |             |  |  |  |  |  |  |  |  |
|                 | Pulmonary disease                     | □ Asthma □ Sleep apnea □ Chronic Obstructive Pulmonary Disease (COPD)   |             |  |  |  |  |  |  |  |  |
| _               | Neurologic                            | □ Fibromyalgia  |             |  |  |  |  |  |  |  |  |
| _               | Steroid use                           | Regular administration of oral or parenteral corticosteroid medications   |             |  |  |  |  |  |  |  |  |
| _               | Multiple trauma                       | At least 1 fracture(s) / laceration(s) / tissue damage in addition to the current reason for surgery  |             |  |  |  |  |  |  |  |  |
| _               | Other surgery                         | □ Patient has already undergone another surgery during current hospitalization  |             |  |  |  |  |  |  |  |  |
|                 |                                       | □ Other, specify:   |             |  |  |  |  |  |  |  |  |
|                 | H2 Existing condition                 | OR (check medical record)   |             |  |  |  |  |  |  |  |  |
|                 | ☐ Pregnan                             | cy, Week: not relevant not possible to obtain the information   |             |  |  |  |  |  |  |  |  |
|                 | ☐ Lactation                           | n on trelevant on not possible to obtain the information  |             |  |  |  |  |  |  |  |  |
| 0               | H3 Did the patient r                  | receive any opioid(s) before the current admission?   |             |  |  |  |  |  |  |  |  |
| <b>**</b>       | <b>□</b> yes 1                        | no not possible to obtain the information   |             |  |  |  |  |  |  |  |  |
| # Start 🔞 🐿 🛭   | » Novell Grou □ P:\Pain               | _Ou De: Pain_Ou W 2 Microsof O) PAIN OUT g D) Pordenone D) PO_project News - Mozi PAIN_OUT PAIN_OUT   | ° « ← 11:00 |  |  |  |  |  |  |  |  |







### 2. Inputting of data into webmask

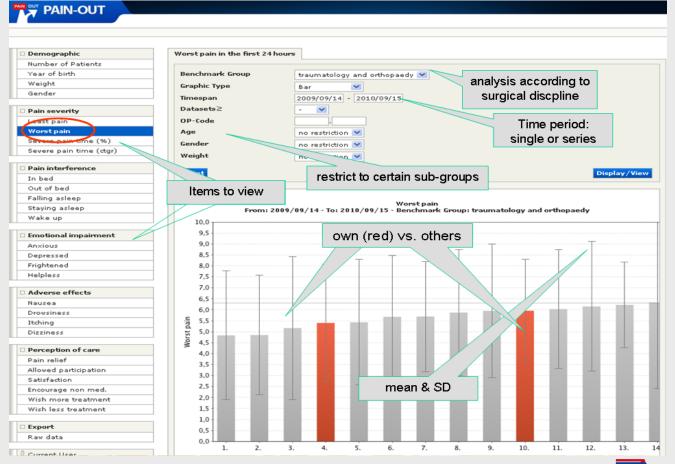
| PAIN-OUT                    |  |                 |  |  |  |  |  |  |  |  |
|-----------------------------|--|-----------------|--|--|--|--|--|--|--|--|
|                             | Site code  |                 |  |  |  |  |  |  |  |  |
|                             | (access by password)   |                 |  |  |  |  |  |  |  |  |
|                             | creening   |                 |  |  |  |  |  |  |  |  |
| Base Module                 |  | Save            |  |  |  |  |  |  |  |  |
|                             | DATA COLLECTION  |                 |  |  |  |  |  |  |  |  |
| Operator                    | A DATE OF DATA COLLECTION: 2010/09/14  |                 |  |  |  |  |  |  |  |  |
|                             | B TIME OF DATA COLLECTION: [hh:mm]   |                 |  |  |  |  |  |  |  |  |
| Patient code                | ) (a) 22D WHERE DATA IS COLLECTED:   |                 |  |  |  |  |  |  |  |  |
| (anonymous)                 | 5AR8VSUPWQ   |                 |  |  |  |  |  |  |  |  |
|                             | S1 INCLUSION CRITERIA  |                 |  |  |  |  |  |  |  |  |
|                             | 1. Time of data collection is POD1 AND patient is 6 hrs (minimum) in the ward.   | O YES O NO      |  |  |  |  |  |  |  |  |
|                             | 2. Patient is consenting age or over.  | YES ONO         |  |  |  |  |  |  |  |  |
| Items from<br>questionnaire | 3. Patient has not undergone repeat surgery (same organ) during current hospitalizat   | tion. YES NO    |  |  |  |  |  |  |  |  |
|                             | 4. Patient is in ward, available for interview.  | YES ONO         |  |  |  |  |  |  |  |  |
|                             | 5. Patient has given his assent (or consent) to participate.   | YES ONO         |  |  |  |  |  |  |  |  |
|                             | <ol> <li>Patient is able to fill in questionnaire on his \her own, unaided (include also patients<br/>help filling in the questionnaire for technical reasons).</li> </ol> | who need YES NO |  |  |  |  |  |  |  |  |
|                             | Reason why patient is unable to fill in the questionnaire on his $\$ her own (select):   |                 |  |  |  |  |  |  |  |  |
|                             | □  |                 |  |  |  |  |  |  |  |  |







#### 3. Online feedback of results







### Requirements for participation

- Data collectors must be able to read English
- Staff resources: to get meaningful results, you should be able to collect a minimum of 20 datasets/month/ward; one dataset takes around 20 minutes
- Technical requirements: computer with internet access
- Application at local ethics committee
- Signature of PAIN OUT contract (annual fee: 2,000 €)







### How to join the network?

www.pain-out.eu

or

e-mail to: pain-out@med.uni-jena.de



