



PAIN-OUT

Improvement in
Postoperative PAIN OUTcome

STANDARD OPERATING PROCEDURES (SOPs)

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I need help? Whom do I contact ?

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Selecting a surveyor for the project

The hospital will allocate 2-4 people to carry out data collection.

The person collecting data -

1. Can be a student (nursing or medical) \ nurse \ resident;
 - They may use the data to promote their studies , e.g. degree &\or publication.
2. Will not – as much as is possible – have clinical duties on the ward where he\ she is collecting data
 - This is done to prevent patients from feeling obliged to please the surveyor in the answers they give when filling in the questionnaire.
3. Will be fluent in reading English;
4. Will be given time to undergo **training** about methodology of the project. This includes:
 - i. Reading the project manual (SOPs) and filling in a quiz;
 - ii. Collecting 10-15 trial patient datasets & entering the data into the PAIN OUT mask – can be done only once ethics approval obtained;
 - iii. Attending the kick off meeting for additional training.
5. Will be given time **to collect data** for the project in 1 or 2 wards.
 - i. # patients: 80-120 patientsX2 phases, lasting 4 months each ->~30 patients\month ->~7\week;
 - ~ 15% of patients approached for participation might refuse to participate.
 - ii. Time required : 20-30 minutes per patient -> ~ 3-4h \ week for 8 months of data collection.
- 6. As training for data collection AND gaining experience with data collection are both time consuming --> aim, as much as is possible, that the same surveyors remain for the duration of the project.**

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IMPORTANT

Part 1 PAIN OUT concept & current project

1.1 PAIN OUT concept & current project

This manual is intended as a guide for staff participating in the project 'An initiative assisting healthcare providers optimize management of postoperative pain in South Africa by continuous quality improvement'.

This manual has 3 aims :

- (1) Providing background information about the project;
- (2) Describing the items in the PAIN OUT questionnaires;
- (3) Offering guidance:
 - How to collect the data items from patients and from their medical records
 - How to input the data into the web-based server.

1.2 What is the goal of PAIN OUT?

To improve management of peri-operative pain, worldwide.

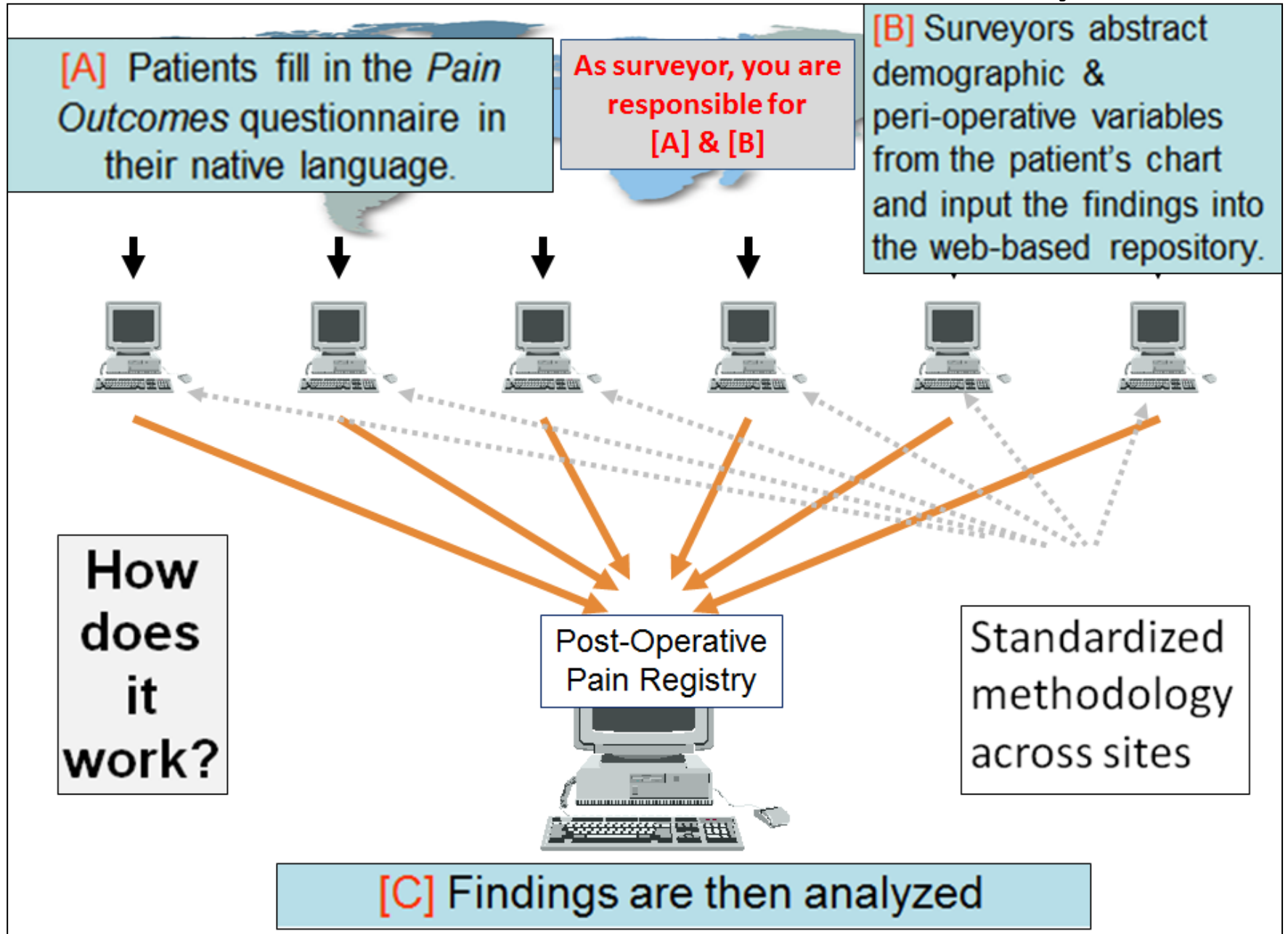
HOW?

- By **collecting data** about peri-operative pain management from patients in surgical wards,
- **Pooling** the data into one database (=registry),
- Providing **feedback** to staff in each center about how they are managing their patient's pain,
- **Benchmarking** the data to allow comparison with similar patients in other wards & hospitals.
- Carrying out **quality improvement** projects with single- or multiple- centers.

The data can be used as the basis for observational studies.

Activities such as these should give healthcare providers information about **appropriateness** and **effectiveness** of the treatments they provide.

1.3 How does it work & what do surveyors do?



1.4. The project follows a pre-post design:

Administrative phase
contract; ethics; training surveyors

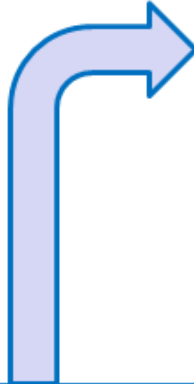


Months 1-6

- **Kick off meeting**
- Collect **BASELINE data** from patients in (1) - 2 wards \ hospital & analyze it; [*] goal 80 – 120 datasets\ward
- **Mid project workshop** to discuss findings and propose 1-3 quality improvement (QI) measures.

Months 23 /24
Workshop summarizing findings & planning next steps within hospital & network.

[*] Collecting >80 datasets per ward during each data collection phases will be a prerequisite for a hospital complete the project



Months 13 - 22

- Carry out another round of data collection in the 1-2 wards = **POST-IMPLEMENTATION**

[*]Goal: 80 – 120 datasets\ward

- Analyze findings & prepare for summary workshop.

Months 7 - 12

- Discuss QI measures with your local multi-disciplinary working group & consent on 1-2 measures;
- Obtain ethics approval (if necessary)
- Start implementing the QI measures.



There is leeway with regards to duration of the phases, however, all hospitals in the network will progress together from one phase to another.

1.5 Training for data collection in PAIN OUT

- (1) Read the information here.
- (2) Fill in the quiz.
- (3) Once you pass the quiz AND a contract is signed with your hospital , Claudia will send you:
 - A **Surveyor Code**. It is unique to you. Mark all the questionnaires you collect with this code and enter this for all the datasets you enter into the benchmark server.
 - Your hospital will receive a **username and password** providing you with access to the project's website and data entry mask.
- (4) **Collect datasets from 10 -15 patients** (both process and outcomes questionnaires) and enter the findings into the data entry mask.
 - Notify Claudia that you have done this.
 - We will review the data and check that it is consistent with the project's methodology.
- (5) During the KICK OFF meeting, we will review the project's data collection methodology once again.

Collecting data from patients and entering it correctly into the benchmark server is a learning process.

The quality of the data entered into the database depends on your work.

1.6 Quality of data is crucial



How to get quality data?

- Become acquainted with the project’s methodology.
- Make sure that the data you enter into the web-based mask is accurate
 - E.g. for benchmark group, date of birth, height, for medication doses
- Avoid missing data – when collecting it and when inputting it into the web-based mask.
 - Make sure that all cells are filled in.

Like **THIS** yes no not possible to obtain the information

NOT like this yes no not possible to obtain the information

– When in doubt - contact us.

1.7 Randomization

If you have time to approach all patients who comply with the inclusion criteria on the day you are collecting data - you need not randomize.

You need to randomize if there are too many patients on a the ward for you to collect in one day.

Randomization is a 3-step process:

- Step 1** Get a list of patients on the ward who are on the first post-operative day.
If the list is not numbered, number it.

- Step 2** Create a set of randomized numbers.
Use a randomizer such as www.randomizer.org or draw numbers from a box.

- Step 3** Select the patients according to the numbers on the randomization table and the length of time you have for data collection.

1.8 How Many Cases to Collect?

- One case counts if you have filled in **both** the Process AND Outcomes questionnaires.
- You need to collect a minimum of 80 cases (*) during the BASELINE and POST- INTERVENTION phases in each ward participating in the project;
 - each phase will last about 4 months.
- As not all patients you approach, will agree to participate, and so you will need to approach an additional ~15 %.
 - -> approach ~ 25 -30 patients a month OR ~ 7 a week.

(*) Might differ according to requirements from your local ethics committee

1.9 Time to collect data for one case?

Once you have gained experience, it will take
~ 20 - 30 minutes to collect data for one case.

- i.e. both the process and outcomes questionnaires.

What is the best time to go to a ward to collect data ?

- This depends on the routine of the ward.
- Some surveyors go early in the morning before rounds begin.
- Some surveyors prefer to go once morning rounds are over and before patients are discharged.
- Try to coordinate this with the Head Nurse.

Your time will be better spent – collecting fewer, high quality datasets but within the required number – rather than 10s of datasets and have little time to maintain quality.

1.10 How to obtain PAIN OUT questionnaires ?

New sites joining the project will get these materials together with their login addresses. It is also possible to download questionnaires from the web site.

- This is particularly relevant when you need a [patient outcomes questionnaire in a language other](#) than normally used in your country.
- See next page.

1.11 Accessing the PAIN OUT website for questionnaires



www.pain-out.eu

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Application

Downloads

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- » PAIN OUT process questionnaire: [Download](#)
- » PAIN OUT standard operating procedures: [Download](#)

- » PAIN OUT data dictionary: [Download](#). To use the data dictionary, please unzip the downloaded file. Then, open the unzipped directory and open the file index.html. Choose the table with the variables you desire on the left side. It can further help to download the annotated process questionnaire, where the names of all variables are linked to their respective question: [Download](#)
- » PAIN OUT annotated process questionnaire [Download](#)
- » PAIN OUT annotated english outcomes questionnaire [Download](#)

Part 2 PAIN OUT questionnaires

2.1 Overview of questionnaires for assessing quality

Avedis Donabedian, a pioneer in research of Public Health systems, described three distinct aspects of quality in health care. These include:

- Outcomes
- Processes
- Structures

The three questionnaires are described in more details in the following slides.

Surveyors in each site are responsible to coordinate that the 3 questionnaires are filled in by the appropriate persons and that the data is inputted into the benchmark server.

2.2 PAIN OUT questionnaires

The **Process Questionnaire** comprises of 5 sections:

- Administrative information
- Screening / Inclusion criteria
- Demographics
- Medical history
- Medication

The data is collected from the **medical record**.

Can be filled in directly to the web-based server if Wifi connection is available on the ward.

Use this option only when you have gained proficiency in collecting data – you will not have a paper back up to rely on

The **Outcomes Questionnaire** consists of 13 questions:

- Pain intensity
- Pain interference
- Affective impairment
- Adverse effects of treatment
- Perceptions of care
- Non-medical pain treatment
- Chronic pain

The questionnaire is usually filled in **by the patient**.

The **Hospital Structural Questionnaire** relates to information about organizational structures in an institution or ward.

The questionnaire is filled in once by the **responsible persons** for **PAIN OUT** in the ward being observed

2.3 The Process questionnaire

The PROCESS questionnaire consists of 5 sections:

- (1) Administrative information
- (2) Screening / inclusion criteria
- (3) Demographics
- (4) Pain-related medical history
- (5) Perioperative medications

The screenshot displays the PROCESS questionnaire interface, which is organized into several sections:

- Administrative Information:** Includes fields for Date of Data Collection (2011-01-01), Time of Data Collection (08:00), Ward Where Data is Collected, Research Assistant Code, Patient Code, and Room Number.
- SCREENING - INCLUSION CRITERIA:** Contains three main sections:
 - S1 Time of data collection is POD1 AND patient is > 6 hrs postoperative in the ward:** Includes checkboxes for 'yes' and 'no'.
 - S2 Patient is consenting age or over:** Includes checkboxes for 'yes' and 'no'.
 - S3 Patient has given his consent (or consent) to participate:** Includes checkboxes for 'yes' and 'no', and a text field for 'Other, specify:'. It also lists reasons for not participating, such as 'Patient is not on the ward', 'Patient does not wish to participate', 'Patient has relatives', 'Patient is asleep', 'Patient has relatives who are not possible to communicate with the patient', 'Patient is cognitively impaired', and 'Other, specify'.
- DEMOGRAPHIC INFORMATION:** Includes fields for Gender (Male/Female), Year of birth, Weight (kg), Height (cm), Nationality, and Country of birth.
- Language of Outcome questionnaire (select one):** Includes checkboxes for Arabic, Chinese, Danish, English, French, German, Hebrew, Italian, Japanese, Korean, Mandarin, Persian, Polish, Russian, Spanish, and Swedish.
- BLANK FIELDS:** Includes four text input fields labeled 'Blank field 1' through 'Blank field 4'.

2.4 Where to obtain the data from?



Obtain the information for the
PROCESS questionnaire from the
medical record only.

Do not interview patients for this
information.

2.5 Options for answers (i)

Most of the items in the Process Questionnaire have 3 options for an answer: "YES" / "NO" / "NOT POSSIBLE TO OBTAIN THE INFORMATION"

Select '**NO**' when the form used to record a particular treatment is in the medical record but the category has not been filled in.

Example: you find the form for pre-medication orders but there are no instructions about administering pre-medication.

Select 'Yes' when you find positive information for the data item.

Then either select one of the listed options, or if it is not listed, write the information in 'Other'

M1 Sedatives (pre-medication)

yes

no

not possible to obtain the information

If yes, which (multiple answers possible):

	p.o.	i.v.
Diazepam	<input type="checkbox"/> mg	<input type="checkbox"/> mg
Clorazepate dipotassium	<input type="checkbox"/> mg	<input type="checkbox"/> mg
Other, specify: <input type="text"/>	<input type="checkbox"/> mg	<input type="checkbox"/> mg

2.5 Options for answers (ii)

Select '**Not possible to obtain the information**' when the form used to record a particular treatment in your hospital is missing from the medical record.

EXAMPLE: you find no form about pre-medication in the medical record. Select



Please note:

Use 'other' **ONLY** when you are **CERTAIN** that the option is not listed already in the table above.

M1 Sedatives (pre-medication)

yes
 no
 not possible to obtain the information

If yes, which (multiple answers possible):

	p.o.	i.v.
Diazepam	<input type="checkbox"/> mg	<input type="checkbox"/> mg
Clorazepate dipotassium	<input type="checkbox"/> mg	<input type="checkbox"/> mg

Other, specify: <input type="text"/>	<input type="checkbox"/> mg	<input type="checkbox"/> mg
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2.6 Administrative information

SECTION 1

Page 1

A. DATE OF DATA COLLECTION: 2 0 1 1		D. RESEARCH ASSISTANT CODE: _____	
B. TIME OF DATA COLLECTION: _____		PATIENT CODE: _____	
C. WARD WHERE DATA IS COLLECTED: _____		ROOM NUMBER: _____	

SCREENING INCLUSION CRITERIA

	yes	no	
S1 Time of data collection is POD1 AND patient is 6 hrs (minimum) in the ward	<input type="checkbox"/>	<input type="checkbox"/>	If yes to 1 and 2 and 3 - Give the Outcomes questionnaire to the patient - Complete the Process questionnaire
S2 Patient is consenting age or over	<input type="checkbox"/>	<input type="checkbox"/>	
S3 Patient has given his assent (or consent) to participate If no to S3, mark the reason(s): <input type="checkbox"/> a. Patient is not on the ward <input type="checkbox"/> b. Patient does not wish to participate' <input type="checkbox"/> b1. too ill <input type="checkbox"/> b2. too much pain <input type="checkbox"/> b3. other <input type="checkbox"/> c. Patient is asleep <input type="checkbox"/> d. Patient has visitors <input type="checkbox"/> e. It is not possible to communicate with the patient (e.g. patient is deaf, does not read/write in any of the languages in which the Outcomes questionnaire is available) <input type="checkbox"/> f. Patient is cognitively impaired (e.g. Downs syndrome, dementia, Alzheimer's disease, Cerebral Palsy) <input type="checkbox"/> g. Other, specify: _____	If no to 1 or 2 or 3: - Do not fill in the rest of the Process questionnaire - Do not give the Outcomes questionnaire to the patient - Input the screening data (up to the point you have reached) into the web mask. Special case: If yes to 1 and 2 and 3 and you have permission from the Ethics Committee in your hospital - Complete the Process questionnaire - Do not give the Outcomes questionnaire to the patient		

* Remember! You may interview patients who need help, e.g. are too ill or in too much pain or illiterate

DEMOGRAPHIC INFORMATION

D1 Gender <input type="checkbox"/> Male <input type="checkbox"/> Female	D2 Year of birth 1 9 1 1
D3 Weight _____ kg	D4 Height _____ cm
D5 Nationality <small>(check records)</small> _____	D6 Country of birth <small>(check records)</small> _____
D7 Language of Outcome questionnaire (select one)	
<input type="checkbox"/> Arabic <input type="checkbox"/> Bahasa Malaysia <input type="checkbox"/> Danish <input type="checkbox"/> Dutch <input type="checkbox"/> English <input type="checkbox"/> Finnish <input type="checkbox"/> French <input type="checkbox"/> German <input type="checkbox"/> Hebrew <input type="checkbox"/> Italian <input type="checkbox"/> Korean <input type="checkbox"/> Mandarin <input type="checkbox"/> Romanian <input type="checkbox"/> Russian <input type="checkbox"/> Serbo-Croatian <input type="checkbox"/> Spanish <input type="checkbox"/> Swedish	

BLANK FIELDS

Blank field 1: _____

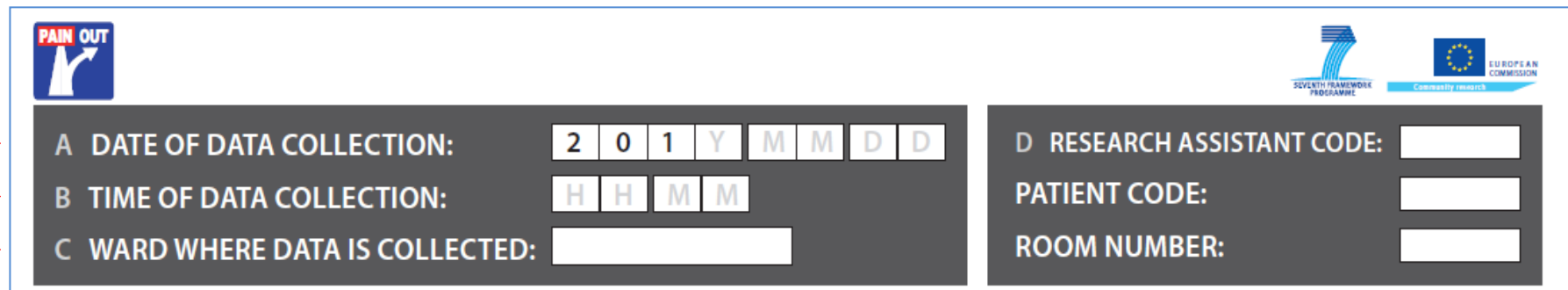
Blank field 2: _____

Blank field 3: _____

Blank field 4: _____

Version 2.8. 10/2011

2.7 Administrative information: items A - C



The screenshot shows a data collection form with a dark grey background. At the top left is the 'PAIN OUT' logo. At the top right are logos for the 'SEVENTH FRAMEWORK PROGRAMME' and the 'EUROPEAN COMMISSION'. The form is divided into two main sections. The left section contains three items: 'A DATE OF DATA COLLECTION:' with a date input field showing '2 0 1 Y M M D D', 'B TIME OF DATA COLLECTION:' with a time input field showing 'H H M M', and 'C WARD WHERE DATA IS COLLECTED:' with a text input field. The right section contains three items: 'D RESEARCH ASSISTANT CODE:' with a text input field, 'PATIENT CODE:' with a text input field, and 'ROOM NUMBER:' with a text input field. Three red arrows on the left side of the form point to items A, B, and C.

A Date

Relates to the date of when you are filling in the questionnaire.

Coded as year-month-day: 201y mm dd, e.g. 20120801 (= 2012 August 1).

B Time

Time of day that the questionnaire is being filled in.

Data should be collected between **08:00 to 18:00**.

The time is coded as hour-minutes: hh mm, e.g. 1426 (= 2.26 pm).

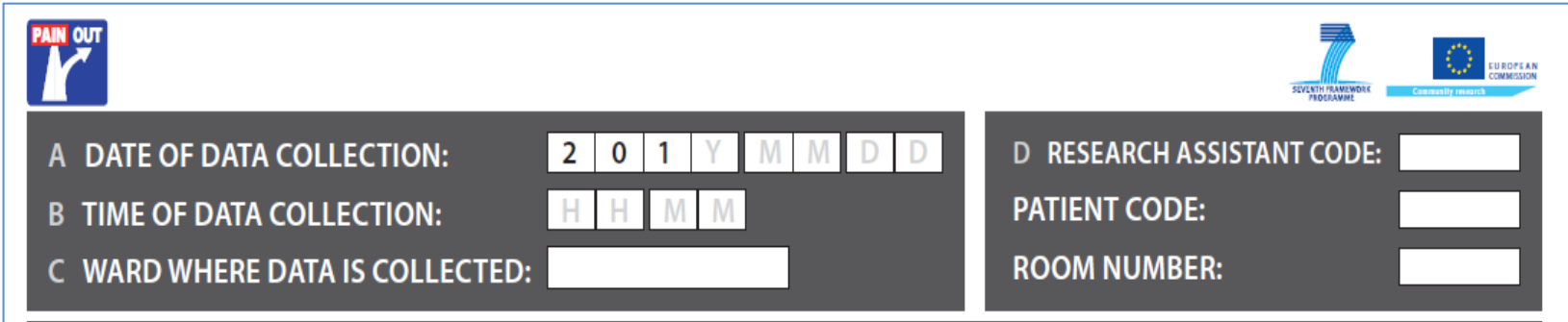
C Ward

The ward is where you collect the data.

Use the name given to you by PAIN OUT.

When entering the data into the web-based mask – make sure you are entering the data into the correct benchmark group.

2.8 Administrative information: item D, patient code & room number



PAIN OUT

SEVENTH FRAMEWORK PROGRAMME **EUROPEAN COMMISSION** **Connectivity Hub**

A DATE OF DATA COLLECTION: 2 0 1 Y M M D D

B TIME OF DATA COLLECTION: H H M M

C WARD WHERE DATA IS COLLECTED:

D RESEARCH ASSISTANT CODE:

PATIENT CODE:

ROOM NUMBER:



D Surveyor code (=written as 'Research assistant' on the form)

You will receive a code from PAIN OUT. The code is yours only.

Do not pass it on to other persons collecting data for PAIN OUT.

Mark your code on all questionnaires that you collect and on all questionnaires you input into the web-mask.

Be consistent the way you enter the code into the data entry mask.

e.g. if your code is '01' enter '01' ; if '1', enter '1'.

Patient code & Room number

These are for your use, to help you keep the Process and Outcomes Questionnaires of an individual patient together and to help you find the room of the patients to whom you have given the Outcomes Questionnaire. These items will **not** be entered into the PAIN OUT registry

When you enter the data into the web-based mask – a unique identifier will be automatically created for each patient.

2.9 Screening: inclusion criteria



Page 1

A. DATE OF DATA COLLECTION: 2 0 1 Y M D D
 B. TIME OF DATA COLLECTION: H M M S
 D. RESEARCH ASSISTANT CODE:
 PATIENT CODE:
 NEW OUT

SCREENING - INCLUSION CRITERIA		yes	no
S1	Time of data collection is POD1 AND patient is 6 hrs (minimum) in the ward End surgery: Date: 2 0 1 Y M M D D Time: H M M M POD1? Back in ward: Date: 2 0 1 Y M M D D Time: H M M M 6HRS?	<input type="checkbox"/>	<input type="checkbox"/>
S2	Patient is consenting age or over	<input type="checkbox"/>	<input type="checkbox"/>
S3	Patient has given his assent (or consent) to participate If no to S3, mark the reason(s): <input type="checkbox"/> a. Patient is not on the ward <input type="checkbox"/> b. Patient does not wish to participate ¹ <input type="checkbox"/> b1. too ill <input type="checkbox"/> b2. too much pain <input type="checkbox"/> b3. other <input type="checkbox"/> c. Patient is asleep <input type="checkbox"/> d. Patient has visitors <input type="checkbox"/> e. It is not possible to communicate with the patient (e.g., patient is deaf, does not read/write in any of the languages in which the Outcomes questionnaire is available) <input type="checkbox"/> f. Patient is cognitively impaired (e.g., Downs syndrome, dementia, Alzheimer's disease, Cerebral Palsy) <input type="checkbox"/> g. Other, specify: <input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>

¹ Remember: You may interview patients who need help, e.g., are too ill or in too much pain or illiterate

D3 Weight <input type="text"/> kg	D4 Height <input type="text"/> cm
D5 Nationality <input type="text"/> <small>(check records)</small>	D6 Country of birth <input type="text"/> <small>(check records)</small>
D7 Language of Outcome questionnaire (select one)	
<input type="checkbox"/> Arabic <input type="checkbox"/> Bahasa Malaysia <input type="checkbox"/> Danish <input type="checkbox"/> Dutch <input type="checkbox"/> English <input type="checkbox"/> Finnish <input type="checkbox"/> French <input type="checkbox"/> German <input type="checkbox"/> Hebrew <input type="checkbox"/> Italian <input type="checkbox"/> Korean <input type="checkbox"/> Mandarin <input type="checkbox"/> Romanian <input type="checkbox"/> Russian <input type="checkbox"/> Serbo-Croatian <input type="checkbox"/> Spanish <input type="checkbox"/> Swedish	

BLANK FIELDS	
Blank field 1:	<input type="text"/>
Blank field 2:	<input type="text"/>
Blank field 3:	<input type="text"/>
Blank field 4:	<input type="text"/>

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If yes to 1 and 2 and 3
 • Give the Outcomes questionnaire to the patient
 • Complete the Process questionnaire

If no to 1 or 2 or 3:
 • Do not fill in the rest of the Process questionnaire
 • Do not give the Outcomes questionnaire to the patient
 • Input the screening data (up to the point you have reached) into the web mask

Special case: If yes to 1 and 2 and 3f and you have permission from the Ethics Committee in your hospital:
 • Complete the Process questionnaire

SCREENING - INCLUSION CRITERIA

	yes	no	
<div style="border: 1px solid red; border-radius: 5px; padding: 2px; display: inline-block; margin-bottom: 5px;">S1</div> Time of data collection is POD1 AND patient is 6 hrs (minimum) in the ward End surgery: Date: <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="Y"/> <input type="text" value="M"/> <input type="text" value="M"/> <input type="text" value="D"/> <input type="text" value="D"/> Time: <input type="text" value="H"/> <input type="text" value="H"/> <input type="text" value="M"/> <input type="text" value="M"/> POD1? Back in ward: Date: <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="Y"/> <input type="text" value="M"/> <input type="text" value="M"/> <input type="text" value="D"/> <input type="text" value="D"/> Time: <input type="text" value="H"/> <input type="text" value="H"/> <input type="text" value="M"/> <input type="text" value="M"/> 6HRS?	<input type="checkbox"/>	<input type="checkbox"/>	If yes to 1 and 2 and 3 • Give the Outcomes questionnaire to the patient • Complete the Process questionnaire
<div style="border: 1px solid red; border-radius: 5px; padding: 2px; display: inline-block; margin-bottom: 5px;">S2</div> Patient is consenting age or over	<input type="checkbox"/>	<input type="checkbox"/>	If no to 1 or 2 or 3: • Do not fill in the rest of the Process questionnaire • Do not give the Outcomes questionnaire to the patient • Input the screening data (up to the point you have reached) into the web mask
<div style="border: 1px solid red; border-radius: 5px; padding: 2px; display: inline-block; margin-bottom: 5px;">S3</div> Patient has given his assent (or consent) to participate If no to S3, mark the reason(s): <input type="checkbox"/> a. Patient is not on the ward <input type="checkbox"/> b. Patient does not wish to participate ¹ <input type="checkbox"/> b1. too ill <input type="checkbox"/> b2. too much pain <input type="checkbox"/> b3. other <input type="checkbox"/> c. Patient is asleep <input type="checkbox"/> d. Patient has visitors <input type="checkbox"/> e. It is not possible to communicate with the patient (e.g., patient is deaf, does not read/write in any of the languages in which the Outcomes questionnaire is available) <input type="checkbox"/> f. Patient is cognitively impaired (e.g., Downs syndrome, dementia, Alzheimer's disease, Cerebral Palsy) <input type="checkbox"/> g. Other, specify: <input style="width: 300px; height: 20px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	Special case: If yes to 1 and 2 and 3f and you have permission from the Ethics Committee in your hospital: • Complete the Process questionnaire

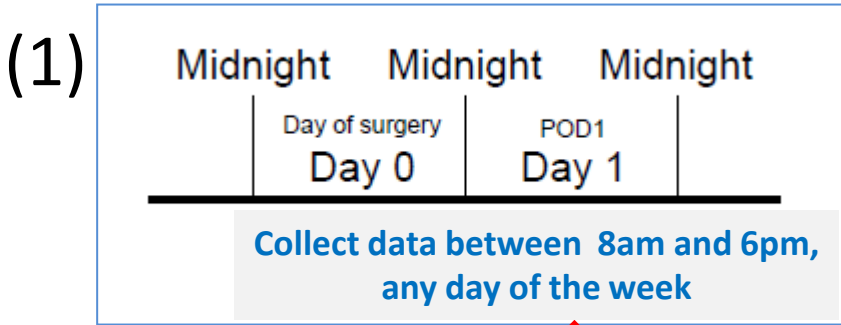
¹ Remember: You may interview patients who need help, e.g., are too ill or in too much pain or illiterate

2.10 S1: Time after Surgery & Time on the Ward

		yes	no
S1 Time of data collection is POD1 AND patient is 6 hrs (minimum) in the ward		<input checked="" type="checkbox"/>	<input type="checkbox"/>
End surgery:	Date: <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="1"/> Y <input type="text" value="M"/> <input type="text" value="M"/> <input type="text" value="D"/> <input type="text" value="D"/> Time: <input type="text" value="H"/> <input type="text" value="H"/> <input type="text" value="M"/> <input type="text" value="M"/> POD1?		
Back in ward:	Date: <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="1"/> Y <input type="text" value="M"/> <input type="text" value="M"/> <input type="text" value="D"/> <input type="text" value="D"/> Time: <input type="text" value="H"/> <input type="text" value="H"/> <input type="text" value="M"/> <input type="text" value="M"/> 6HRS?		

A patient can be recruited to the survey if he/she:

- (1) is on the first post-operative day AND
- (2) is back on the ward from surgery for at least 6 hours.



(2) In PAIN OUT, we aim to assess how the staff are managing the patient's pain on the ward after surgery. The patient, therefore, needs to be back on the ward for a minimal duration of time. We have chosen that this will be 6 hours.

2.11 S2: consenting age and over

	yes	no
S2 Patient is consenting age or over	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The patient has reached consenting age or over in his country of residence.

In most countries age of consent is 18 years.

2.12 S3: patient has given consent to participate

You need to ask the patient whether he/she agrees to participate in the PAIN OUT survey.

Many sites accept ORAL assent (= the patient says that he agrees to participate). However, some ethics committees require that patients sign a letter of consent.

You need to check the requirements in your hospital.

Consent is an important legal and ethical issue.

If a patient is not interested in participating, you should **not** exert any pressure on him to do so.

Neither should members of staff, family or friends do so.

2.13 If assent / consent is not given, mark the reason for this

	yes	no
S3 Patient has given his assent (or consent) to participate	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If no to S3, mark the reason(s):		
<input type="checkbox"/> a. Patient is not on the ward		
<input type="checkbox"/> b. Patient does not wish to participate ¹		
<input type="checkbox"/> b1. too ill		
<input type="checkbox"/> b2. too much pain		
<input type="checkbox"/> b3. other		
<input checked="" type="checkbox"/> c. Patient is asleep		
<input type="checkbox"/> d. Patient has visitors		
<input type="checkbox"/> e. It is not possible to communicate with the patient (e.g., patient is deaf, does not read/write in any of the languages in which the Outcomes questionnaire is available)		
<input type="checkbox"/> f. Patient is cognitively impaired (e.g., Downs syndrome, dementia, Alzheimer's disease, Cerebral Palsy)		
<input type="checkbox"/> g. Other, specify: <input type="text"/>		

Use 'Other' only if the reason is NOT listed above. Please check & re-check !

¹ Remember: You may interview patients who need help, e.g., are too ill or in too much pain or illiterate

2.14 Make a decision – include or exclude

Once you review S1 & S2 & S3 for a patient – you will need to decide whether the patient can be included or not in the survey:

If you have marked **YES** in all items (S1 + S2 + S3) -> the patient can be included.

1. Give the Outcomes Questionnaire to the patient.
2. Complete the Process Questionnaire.

If you have marked **NO** for any of the items S1 and/or S2 and/or S3, then the patient must be excluded.

In this case:

1. Do *not* give the Outcomes Questionnaire to the patient.
2. Do *not* fill in the rest of the Process Questionnaire.
3. **Do SAVE the form and input the information about S1 & S2 & S3 into the web-based mask. All publications require information about the number of patients approached, those who were not included (and reasons) and those recruited. It is, therefore, important to collect information about the patients who were not recruited.**

2.15 Special case of 'Patient does not want to participate' [i]

When a patient does not wish to participate in the survey due to feeling too ill or being in too much pain (or any other reason), you can offer to assist by reading the questions in the Outcomes Questionnaire out loud (= make an interview).

In the event of an interview:

- Select 'YES' for assent (or consent) in S3;
- Do NOT select S3b;
- At the end of the Outcomes Questionnaire, select **YES** indicating that the patient was interviewed and the reason why
 - **see next slide.**

2.15 Special case of 'Patient does not want to participate' [ii]

See text in the previous slide

S3 Patient has given his assent (or consent) to participate

If **no** to S3, mark the reason(s):

- a. Patient is not on the ward
- b. Patient does not wish to participate¹
 - b1. too ill
 - b2. too much pain
 - b3. other
- c. Patient is asleep
- d. Patient has visitors
- e. It is not possible to communicate with the patient (e.g., patient is deaf, does not read/write in any of the languages in which the Outcomes questionnaire is available)
- f. Patient is cognitively impaired (e.g., Downs syndrome, dementia, Alzheimer's disease, Cerebral Palsy)
- g. Other, specify:

¹ Remember: You may interview patients who need help, e.g., are too ill or in too much pain or illiterate



2.15 Special case of 'Patient does not want to participate' [iii]

If you interviewed a patient, mark this and the reason for the interview at the **end** of the outcomes questionnaire.

To be filled in by the research assistant Research assistant code:

Patient was interviewed: Yes No

If yes, please mark the reason(s):

Too ill / weak Too much pain Requested assistance Did not understand scales

Technical reasons (patient has no eyeglasses / is blind; can not sit up; is illiterate; arm is in cast; etc)

2.16 Special case: cognitively impaired patients

If a patient is cognitively impaired he cannot give consent.
Usually you would have to exclude this patient.

However, if the ethics committees in your hospital has given permission, you may obtain process data from this patient's medical record.

This means:

- Mark **YES** for **S3.f**
- Complete the Process Questionnaire
- Do not give the Outcomes Questionnaire to the patient.

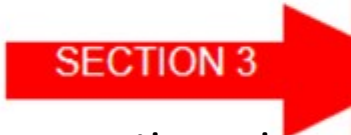
What is the rational of collecting this type of data ?

To assess how your hospital manages pain in vulnerable populations.

2.17 Demographics

This section consists of 7 items:

- D1 Gender
- D2 Year of birth
- D3 Weight
- D4 Height
- D5 Nationality
- D6 Country of birth
- D7 Language of the Outcomes questionnaire



Page 1

A DATE OF DATA COLLECTION: 2 0 1 7 10 1 10
B TIME OF DATA COLLECTION: 11 11 11
C WARD WHERE DATA IS COLLECTED:
D RESEARCH ASSISTANT CODE:
PATIENT CODE:
ROOM NUMBER:

SCREENING - INCLUSION CRITERIA

	yes	no	
S1 Time of data collection is POD1 AND patient is 6 hrs (minimum) in the ward	<input type="checkbox"/>	<input type="checkbox"/>	If yes to 1 and 2 and 3 - Give the Outcomes questionnaire to the patient - Complete the Process questionnaire
S2 Patient is consenting age or over	<input type="checkbox"/>	<input type="checkbox"/>	
S3 Patient has given his assent (or consent) to participate If no to S3, mark the reason(s): <input type="checkbox"/> a. Patient is not on the ward <input type="checkbox"/> b. Patient does not wish to participate' <input type="checkbox"/> b1. too ill <input type="checkbox"/> b2. too much pain <input type="checkbox"/> b3. other <input type="checkbox"/> c. Patient is asleep <input type="checkbox"/> d. Patient has visitors <input type="checkbox"/> e. It is not possible to communicate with the patient (e.g., patient is deaf, does not read/write in any of the languages in which the Outcomes questionnaire is available) <input type="checkbox"/> f. Patient is cognitively impaired (e.g., Downs syndrome, dementia, Alzheimer's disease, Cerebral Palsy) <input type="checkbox"/> g. Other, specify: <input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	

DEMOGRAPHIC INFORMATION

D1 Gender	<input type="checkbox"/> Male	<input type="checkbox"/> Female	D2 Year of birth	1 9 7 7		
D3 Weight	<input type="text"/> kg		D4 Height	<input type="text"/> cm		
D5 Nationality	<input type="text"/>		D6 Country of birth	<input type="text"/>		
D7 Language of Outcome questionnaire (select one)						
<input type="checkbox"/> Arabic	<input type="checkbox"/> Bahasa Malaysia	<input type="checkbox"/> Danish	<input type="checkbox"/> Dutch	<input type="checkbox"/> English	<input type="checkbox"/> Finnish	<input type="checkbox"/> French
<input type="checkbox"/> German	<input type="checkbox"/> Hebrew	<input type="checkbox"/> Italian	<input type="checkbox"/> Korean	<input type="checkbox"/> Mandarin	<input type="checkbox"/> Romanian	<input type="checkbox"/> Russian
<input type="checkbox"/> Serbo-Croatian	<input type="checkbox"/> Spanish	<input type="checkbox"/> Swedish				

Blank field 1:
Blank field 2:
Blank field 3:
Blank field 4:

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2.18 Demographics: D1 – D 4

D1 Gender

Tick male or female

D2 Year of birth

It is coded as year: "19yy", e.g. "1970"

D3 Weight

Fill in weight in kilograms

D4 Height

Fill in height in centimeters

What to do if information about weight / height / nationality / country of birth is missing from the medical record?

Leave the box in the Process Questionnaire empty.

Later, when you input the data into the web-based mask, select „NOT POSSIBLE TO OBTAIN THE INFORMATION“.

DEMOGRAPHIC INFORMATION						
D1 Gender	<input type="checkbox"/> Male <input type="checkbox"/> Female	D2 Year of birth	1 9 Y Y			
D3 Weight	<input type="text"/> kg	D4 Height	<input type="text"/> cm			
D5 Nationality (check records)	<input type="text"/>	D6 Country of birth (check records)	<input type="text"/>			
D7 Language of Outcome questionnaire (select one)						
<input type="checkbox"/> Albanian	<input type="checkbox"/> Arabic	<input type="checkbox"/> Bahasa Malaysia	<input type="checkbox"/> Danish	<input type="checkbox"/> Dutch	<input type="checkbox"/> English	<input type="checkbox"/> Filipino
<input type="checkbox"/> Finnish	<input type="checkbox"/> French	<input type="checkbox"/> German	<input type="checkbox"/> Hebrew	<input type="checkbox"/> Hindustani	<input type="checkbox"/> Italian	<input type="checkbox"/> Korean
<input type="checkbox"/> Mandarin	<input type="checkbox"/> Romanian	<input type="checkbox"/> Russian	<input type="checkbox"/> Serbo-Croatian	<input type="checkbox"/> Spanish	<input type="checkbox"/> Swedish	

2.19 Demographics: D5 – D7

D5 Nationality

Obtain this information only if it is available in the medical record.

D6 Country of birth

Obtain this information only if it is available in the medical record.

D7 Language of Outcomes Questionnaire

Tick the language in which the patient will fill in the Outcomes Questionnaire.

Patients should receive the Outcomes Questionnaire in their native language. This should make it easier for them to understand the questions and to give reliable answers.

You will find a library of multilingual questionnaires in the project's website.

DEMOGRAPHIC INFORMATION	
D1 Gender <input type="checkbox"/> Male <input type="checkbox"/> Female	D2 Year of birth 1 9 Y Y
D3 Weight [] kg	D4 Height [] cm
D5 Nationality (check records) []	D6 Country of birth (check records) []
D7 Language of Outcome questionnaire (select one)	
<input type="checkbox"/> Albanian <input type="checkbox"/> Arabic <input type="checkbox"/> Bahasa Malaysia <input type="checkbox"/> Danish <input type="checkbox"/> Dutch <input type="checkbox"/> English <input type="checkbox"/> Filipino <input type="checkbox"/> Finnish <input type="checkbox"/> French <input type="checkbox"/> German <input type="checkbox"/> Hebrew <input type="checkbox"/> Hindustani <input type="checkbox"/> Icelandic <input type="checkbox"/> Italian <input type="checkbox"/> Korean <input type="checkbox"/> Mandarin <input type="checkbox"/> Romanian <input type="checkbox"/> Russian <input type="checkbox"/> Serbo-Croatian <input type="checkbox"/> Spanish <input checked="" type="checkbox"/> Span. Mexico <input type="checkbox"/> Swedish	



2.20 BLANK FIELDS

Page 1

A DATE OF DATA COLLECTION: 2 0 1 7 M M D D
B TIME OF DATA COLLECTION: H M S
C WARD WHERE DATA IS COLLECTED: _____
D RESEARCH ASSISTANT CODE: _____
PATIENT CODE: _____
ROOM NUMBER: _____

SCREENING - INCLUSION CRITERIA

	yes	no	
S1 Time of data collection is POD1 AND patient is 6 hrs (minimum) in the ward	<input type="checkbox"/>	<input type="checkbox"/>	If yes to 1 and 2 and 3 • Give the Outcomes questionnaire to the patient • Complete the Process questionnaire
S2 Patient is consenting age or over	<input type="checkbox"/>	<input type="checkbox"/>	
S3 Patient has given his assent (or consent) to participate If no to S3, mark the reason(s): <input type="checkbox"/> a. Patient is not on the ward <input type="checkbox"/> b. Patient does not wish to participate* <input type="checkbox"/> b1. too ill <input type="checkbox"/> b2. too much pain <input type="checkbox"/> b3. other <input type="checkbox"/> c. Patient is asleep <input type="checkbox"/> d. Patient has visitors <input type="checkbox"/> e. It is not possible to communicate with the patient (e.g. patient is deaf, does not read/write in any of the languages in which the Outcomes questionnaire is available) <input type="checkbox"/> f. Patient is cognitively impaired (e.g. Downs syndrome, dementia, Alzheimer's disease, Cerebral Palsy) <input type="checkbox"/> g. Other, specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	If no to 1 or 2 or 3: • Do not fill in the rest of the Process questionnaire • Do not give the Outcomes questionnaire to the patient • Input the screening data (up to the point you have reached) into the web mask. Special case: If yes to 1 and 2 and 3 and you have permission from the Ethics Committee in your hospital: • Complete the Process questionnaire • Do not give the Outcomes questionnaire to the patient

* Remember You may interview patients who need help, e.g. are too ill or in too much pain or illiterate

DEMOGRAPHIC INFORMATION

D1 Gender Male Female
D2 Year of birth 1 9 7 7
D3 Weight _____ kg
D4 Height _____ cm
D5 Nationality _____
D6 Country of birth _____
D7 Language of Outcome questionnaire (select one)
 Arabic Bahasa Malaysia Danish Dutch English Finnish French
 German Hebrew Italian Korean Mandarin Romanian Russian
 Serbo-Croatian Spanish Swedish

BLANK FIELDS

Blank field 1: _____
Blank field 2: _____
Blank field 3: _____
Blank field 4: _____

Blank fields are used to collect data items which are interesting to your site.

Personnel in the site collecting this data will be responsible for defining the data items.

This information will be entered into the web-based mask, available for offline analysis.

See the next slide for examples of how to carry this out.

The following are **EXAMPLES** on how to use the Blank Fields:

In your site you would like to record whether Caesarean Sections are carried out as emergency or scheduled procedures.

1. Allocate Blank Field 1 to record this information.
2. Create a code: Emergency = 1; Scheduled = 2.
3. When you come across a patient who underwent Caesarean , write in Blank Space 1, '1' if this was an emergency procedure and '2' if scheduled.
4. Inform the other surveyors working with you about this coding scheme so they will follow this practice when they are collecting data.



BLANK FIELDS	
Blank field 1:	<input type="text" value="1"/>
Blank field 2:	<input type="text"/>
Blank field 3:	<input type="text"/>

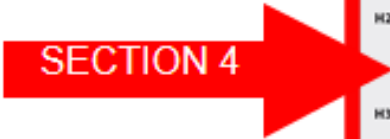
In your hospital you are following patients after radical prostatectomy. The ICD9 codes do not differentiate between the open vs laparoscopic approaches. You can do this using a Blank Field.

1. Allocate Blank field 2 for this; code : Open = 3; Laparoscopic = 4.
2. When you come across a patient who underwent radical prostatectomy , write in Blank Space 2, '3' if this was an open procedure and '4' if laparoscopic.
3. Inform the other surveyors working with you about this coding scheme so they will follow this practice when they are collecting data.

In your hospital you would like to assess the effect of providing different modes of information to patients about their pain treatment options.

1. Allocate Blank field 3 for this; code the different methods you will be using to provide information: Leaflet = 1; video = 2; app sent to patient's phone = 3;
2. Inform the other surveyors working with you about this coding scheme so they will follow this practice when they are collecting data.

2.21 Medical history



- This section consists of 3 items:
- H1 Comorbidities**
 - H2 Existing condition**
 - H3 Opioids before current admission**

Page 2 **Mark medications given to patient; record cumulative doses.** PATIENT CODE: _____

MEDICAL HISTORY

H1 Comorbidities

yes no not possible to obtain the information

If yes, which (check all that apply):

Cancer	<input type="checkbox"/> Cancer
Renal	<input type="checkbox"/> Renal insufficiency or disease without dialysis <input type="checkbox"/> Renal disease requiring dialysis
Psychiatric	<input type="checkbox"/> Affective disorders (depression, anxiety, phobia, PTSD, bipolar disorder) <input type="checkbox"/> Schizophrenia <input type="checkbox"/> Alcohol use disorder <input type="checkbox"/> Current smoker <input type="checkbox"/> Substance abuse of drugs (legal and illegal)
Cardiovascular	<input type="checkbox"/> Hypertension <input type="checkbox"/> Coronary artery disease or myocardial infarction or cerebral vascular accident
Hematology	<input type="checkbox"/> Sickle cell disease
GI disease	<input type="checkbox"/> Liver Cirrhosis <input type="checkbox"/> History or current upper or lower GI ulcer (peptic or duodenal ulcer disease) <input type="checkbox"/> Irritable bowel disease (Crohn's disease, ulcerative colitis)
Pulmonary disease	<input type="checkbox"/> Asthma <input type="checkbox"/> Sleep apnea <input type="checkbox"/> Chronic Obstructive Pulmonary Disease (COPD)
Neurologic	<input type="checkbox"/> Fibromyalgia
Steroid use	<input type="checkbox"/> Regular administration of oral or parenteral corticosteroid medications (exclude topical or inhaled steroids)
Multiple trauma	<input type="checkbox"/> At least 1 fracture(s) / laceration(s) / tissue damage in addition to the current reason for surgery
Other surgery	<input type="checkbox"/> Patient has already undergone another surgery during current hospitalization
	<input type="checkbox"/> Other, specify: _____

H2 Existing condition (check medical record)

Pregnancy, Week: not relevant not possible to obtain the information

Lactation not relevant not possible to obtain the information

H3 Did the patient receive any opioid(s) before the current admission?

yes no not possible to obtain the information

If yes, which (multiple answers possible):

	Immediate release (PO & other)	Controlled release; (PO & other)
Buprenorphine	<input type="checkbox"/> mg/day	<input type="checkbox"/> µg/hr transdermal
Codeine	<input type="checkbox"/> mg/day	<input type="checkbox"/> mg/day
Fentanyl	<input type="checkbox"/> µg/hr transdermal / intranasal	<input type="checkbox"/> µg/hr transdermal
Hydrocodone	<input type="checkbox"/> mg/day	<input type="checkbox"/> mg/day
Hydromorphone	<input type="checkbox"/> mg/day	<input type="checkbox"/> mg/day
Morphine	<input type="checkbox"/> mg/day	<input type="checkbox"/> mg/day
Oxycodone	<input type="checkbox"/> mg/day	<input type="checkbox"/> mg/day
Oxycodone (with Naloxone)	<input type="checkbox"/> mg/day	<input type="checkbox"/> mg/day
Pethidine (Meperidine)	<input type="checkbox"/> mg/day	<input type="checkbox"/> mg/day
Tapentadol	<input type="checkbox"/> mg/day	<input type="checkbox"/> mg/day
Tilidin (with Naloxone)	<input type="checkbox"/> mg/day	<input type="checkbox"/> mg/day
Tramadol	<input type="checkbox"/> mg/day	<input type="checkbox"/> mg/day
Other, specify: _____	<input type="checkbox"/>	<input type="checkbox"/>
Other, specify: _____	<input type="checkbox"/>	<input type="checkbox"/>

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2.22 Medical history: H1 Comorbidities, definition

The section refers to co-morbidities which are related to management of pain after surgery. As the literature does not provide a classification which was considered suitable for PAIN OUT, we devised the following:

To qualify for inclusion, a condition needs to strongly impact on how the patient's pain is managed after surgery.

e.g., renal failure leading to restriction of non-steroidal anti-inflammatory drugs OR sleep apnea leading to restriction of opioids
AND

the condition is one that is typically documented in a patient's medical record in a standardized manner.

2.23 Medical history: H1 list of Comorbidities

Cancer	<input type="checkbox"/> Cancer
Renal	<input type="checkbox"/> Renal insufficiency or disease without dialysis <input type="checkbox"/> Renal disease requiring dialysis
Diabetes	<input type="checkbox"/> Diabetes Type I <input type="checkbox"/> Diabetes Type II <input type="checkbox"/> Diabetes Type unknown
Psychiatric	<input type="checkbox"/> Affective disorders (depression, anxiety, phobia, PTSD, bipolar disorder) <input type="checkbox"/> Schizophrenia <input type="checkbox"/> Alcohol use disorder <input type="checkbox"/> Current smoker <input type="checkbox"/> Substance abuse of drugs (legal and illegal)
Cardiovascular	<input type="checkbox"/> Hypertension <input type="checkbox"/> Coronary artery disease or myocardial infarction or cerebral vascular accident
Hematology	<input type="checkbox"/> Sickle cell disease
GI disease	<input type="checkbox"/> Liver Cirrhosis <input type="checkbox"/> History or current upper or lower GI ulcer (peptic or duodenal ulcer disease) <input type="checkbox"/> Irritable bowel disease (Crohn's disease, ulcerative colitis)
Pulmonary disease	<input type="checkbox"/> Asthma <input type="checkbox"/> Sleep apnea <input type="checkbox"/> Chronic Obstructive Pulmonary Disease (COPD)
Neurologic	<input type="checkbox"/> Fibromyalgia
Steroid use	<input type="checkbox"/> Regular administration of oral or parenteral corticosteroid medications
Musculoskeletal	<input type="checkbox"/> Osteoarthritis <input type="checkbox"/> Rheumatoid arthritis
Multiple trauma	<input type="checkbox"/> At least 1 fracture(s) / laceration(s) / tissue damage in addition to the current reason for surgery
Other surgery	<input type="checkbox"/> Patient has already undergone another surgery during current hospitalization
	<input type="checkbox"/> Other, specify: <input type="text"/>

2.24 Medical history: H1 Comorbidities, how to fill in

- Check the patient's medical record for comorbidities.
- If comorbidities are listed, check if they match any of the ones listed in H1.
- If there is at least one match:
 - Select "YES" and mark the appropriate terms.
 - You can select multiple terms.
- If no comorbidities are listed in the medical record or none match the ones listed in H1 select "NO".

**DO NOT INTERVIEW PATIENTS TO OBTAIN THIS INFORMATION -
IT MUST BE PRESENT IN THE PATIENT'S FILE.**

2.25 Medical history: H1 Comorbidities, some definitions

Here are cues to help select some of the comorbidities.

'Multiple Trauma' refers to other injuries (e.g. fracture[s] or laceration[s] or tissue damage) that resulted in the patient's current hospitalization, e.g., a patient has had a motor vehicle accident and has a fractured femur AND/OR laceration of the spleen AND/OR burns in 30% of the body surface area.

'Substance Abuse' In some countries it might be difficult to obtain information about Substance Abuse Disorders, as the information is not recorded in the medical record.

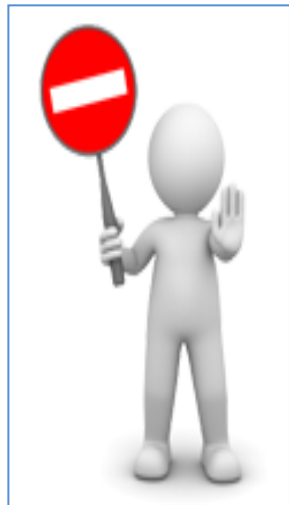
'Current smoker' Select this if you can find information in the medical record that indicates that the patient currently smokes cigarettes (independent of the number of cigarettes) or stopped within the last month.

'Cancer' Select this if you find the term 'cancer' or synonymous terms such as malignancy, malignant neoplastic disease, malignant tumor, or neoplasm.

2.26 Medical history: H1 Comorbidities, when to use 'OTHER'?

Before you enter an entry into 'Other', **check**:

- [1] Are you sure the condition is not already listed in the H1 table?
- [2] Are you sure it's a comorbidity that is relevant to management of pain after surgery?
- [3] Remember – conditions in 'Other' are rarely analyzed – don't waste your time entering this information unless you have considered that it is relevant !



2.27 Medical history: H2 Existing condition

H2 Existing condition (check medical record)

Pregnancy, Week:

not relevant

not possible to obtain the information

Lactation

not relevant

not possible to obtain the information

- **This section is relevant to female patients only.**
- The data is collected as there is little information on how to treat the pain of pregnant women undergoing surgery / after giving birth and planning to breastfeed.
- If the woman is pregnant or lactating, select the relevant answer.
- Select "NOT RELEVANT": if the woman is over childbearing age OR the patient is a MALE.
- Select "NOT POSSIBLE TO OBTAIN THE INFORMATION", if the woman is of childbearing age and information is about pregnancy is not registered in the medical record.

How do you know
if the woman is of childbearing age?

Make an estimate!
Do not ask her.

2.28 Medical history: H3 Opioids **before** current admission

If the patient received an opioid, when at home, before being admitted to hospital and the opioid is listed in the medical record, select "YES". Record the name of the medication and the total daily dose.

H3 Did the patient receive any opioid(s) before the current admission?

yes no not possible to obtain the information

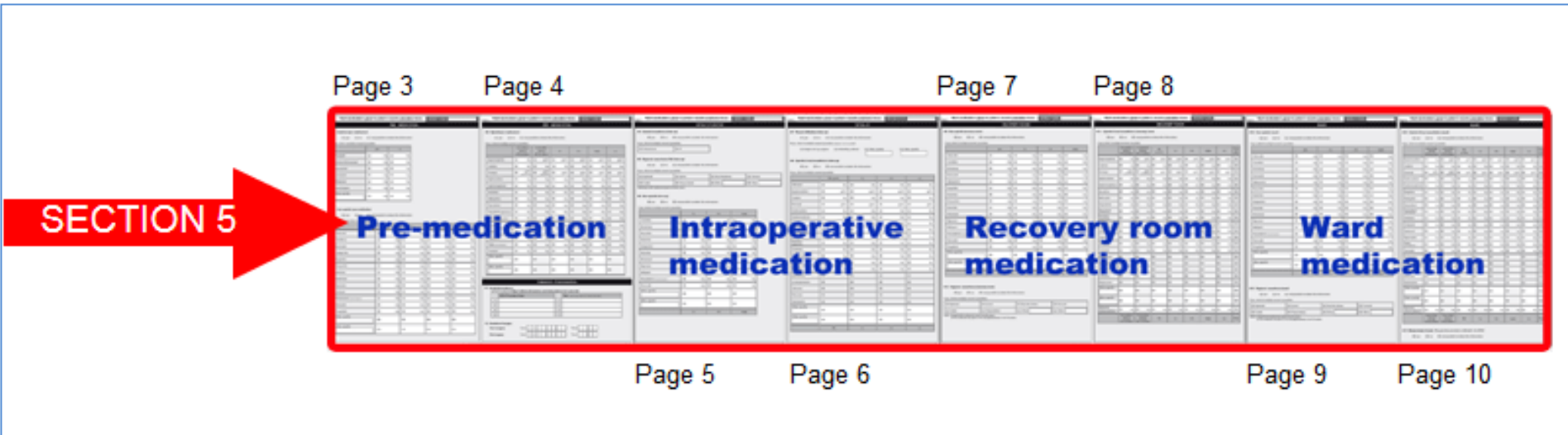
If yes, which (multiple answers possible):

	Immediate release (PO & other)	Controlled release; (PO & other)
Buprenorphine	<input type="checkbox"/> mg\day	<input type="checkbox"/> $\mu\text{g/hr}$ transdermal
Codeine	<input type="checkbox"/> mg\day	<input type="checkbox"/> mg\day

- Opioids before admission might typically be given to orthopedic patients. This is likely to vary considerably in different countries.
- Opioids before admission might not be well documented.
 - Check the patient's medical record and the nursing records.

The list of opioids in H3 is not exhaustive. If you can't find the opioid, list it in "OTHER".
Use 'OTHER' – ONLY after you have checked the list and can't find the medication listed.

2.29 Perioperative medications & surgical procedure



The section deals with medications given to the patient during the different perioperative phases AND with coding the surgical procedure:

- M1- M3 Pre-medication
- P1 - P2 Surgical Procedures
- M4 – M8 Intra-operative
- M9 - M11 Recovery room OR Post Anesthesia Care Unit (PACU).
- M12- M15 Ward

2.30 Types of perioperative medications

Record the following medication groups related to treatment of pain:

- Sedatives (only when given as pre-medication)
- Non-opioids
 - non-steroidal anti-inflammatory,
 - Paracetamol and dipyrrone / metamizole,
 - clonidine,
 - Gabapentinoids
 - ketamine
- Opioids
- Local anesthetics

At first glance, this section of the process questionnaire, which consists of 8 pages, seems to be the most complex.

Stick to a few principles and it should be straightforward to handle.



2.31 How to record the perioperative medications

- Record medications **given** to patient e.g., IV morphine 5 mg.
- Do NOT record those *prescribed* e.g., IV morphine every 10 min.
- Record **cumulative doses** given in each perioperative phase.
- Record **generic** and NOT brand names.

There are situations which require that you carry out **complex dose calculations**, e.g., if the dose is written as mg/kg/hr OR if a medication is given via a PCA pump continuously with boluses taken by the patient.

In these cases, you can choose to:

- Record the name of medication & route of administration but **NOT** the dose.
- Record the total dose **only** if you are confident that the calculation is correct.

2.32 Perioperative medications: pre-medication

Page 3

Page 4

M1 Sedatives

M2 Non-opioids

M3 Opioids

The image displays two screenshots of pre-medication forms, labeled Page 3 and Page 4. Page 3 includes sections for Sedatives (M1) and Non-opioids (M2). Page 4 includes a section for Opioids (M3) and a section for Surgical Procedures. Each form contains tables for recording medication details such as name, dose, route, and frequency, with checkboxes for 'yes', 'no', or 'not possible to obtain the information'. Red arrows point from the text labels M1 Sedatives, M2 Non-opioids, and M3 Opioids to their respective sections in the forms.

These are medications given to the patient on the evening, night, morning and/or afternoon of surgery, up until induction of anesthesia.

2.33 P1 Surgical procedure code & P2 Duration of surgery

Before continuing with the next section of the ‘intra-operative’ medications, you’re asked to address:

- P1 Surgical procedure
- P2 Duration of surgery: day & time of the start & end of surgery.
 - Do not confuse this with the beginning and end of anesthesia.

P1 Surgical procedure(s)

use ICD-9 codes link <http://icd9cm.chrisendres.com/index.php?action=proclist>

	ICD-9 Procedure Code		Text (only for your notes, not necessary for mask)
1	<input type="text"/>	1	<input type="text"/>
2	<input type="text"/>	2	<input type="text"/>
3	<input type="text"/>	3	<input type="text"/>
4	<input type="text"/>	4	<input type="text"/>

P2 Duration of surgery

Start surgery:

Date:

Time:

End surgery:

Date:

Time:

2.34 P1 Surgical procedure: how to code

Surgical procedures are classified using a variety of systems. For uniformity, PAIN OUT uses the **ICD-9 coding system**.

- If ICD-9 codes are used in your hospital -> use these codes.
- If a different code is used -> convert to ICD-9.
- If the procedure is described using text - > use this information to look for the ICD9 code.

Websites for finding ICD9 codes:

<http://icd9.chrisendres.com/>; make sure you are looking at 'procedures'.

<https://www.findacode.com/icd-9/icd-9-cm-diagnosis-codes.html>, make sure you select vols 1-3 and are looking at the ICD9 codes (not ICD10)

When registering ICD9 codes – every digit can change the type of procedure being recorded !

A patient's ICD9 code was written in the PAIN OUT mask as '81'.

81 is one procedure and 81.0 is another.

ICD-9 v3 CHPT/SEC	81 Repair and plastic operations on joint structures
ICD-9 v3 CHPT/SEC	81.0 Spinal fusion

For another patient – it was written as '84'.

84 or 84.0 ?

84.0 is Amputation of upper limb

84 is Other procedures on musculoskeletal system

If a patient has 2 or more procedure codes - >
the first code – should be of the **principle** surgical procedure.

2.35 Perioperative medications: Intra-operative

This section addresses 5 items:

- M4 General anesthesia
- M5 Regional anesthesia
- M6 Non-opioids
- M7 Wound infiltration
- M8 Opioids and local anesthesia

2.36 Perioperative medications: Intra-operative, anesthesia

If **general anesthesia** was used, mark YES in M4 and select the method, inhalational and/or intravenous.

If **regional anesthesia** was used, mark YES in M5 and the approach used.

If the patient received a **combination** of general and regional anesthesia -> mark YES in both M4 and M5.

M4 General anaesthesia (intra-op)

yes no not possible to obtain the information

If yes, which (multiple answers possible):

Inhalational

IV

M5 Regional anaesthesia (RA) (intra-op)

yes no not possible to obtain the information

If yes, which (multiple answers possible):

Epidural

Spinal

Brachial plexus

Femoral

Sciatic

Paravertebral

Transv. Abdom. Plane (TAP)

Other:

Mark the medication(s) used for RA in M8

Do not forget



2.36 How to record General Anesthesia in M4

Inhalational Anaesthetics

For reference, here are the most commonly used inhalation anesthetics:

- Desflurane
- Enflurane
- Halothane
- Isoflurane
- Nitrous oxide (laughing gas)
- Sevoflurane

M4 General anaesthesia (intra-op)

yes no not possible to obtain the information

If yes, which (multiple answers possible):

<input checked="" type="checkbox"/> Inhalational	<input type="checkbox"/> IV
--	-----------------------------

Intravenous Anaesthetics

IV relates to Total Intravenous Anesthesia (=TIVA).

M4 General anaesthesia (intra-op)

yes no not possible to obtain the information

If yes, which (multiple answers possible):

<input type="checkbox"/> Inhalational	<input checked="" type="checkbox"/> IV
---------------------------------------	--

2.37 Perioperative medications: Intra-operative, non-opioids

M6 If the patient received a non-opioid, select "YES".

Then select the name and **route** administered.

Write the dose, if known.

M6 Non-opioids (intra-op)

yes no not possible to obtain the information

If yes, which (multiple answers possible):

	i.v.	i.m.	supp.
Clonidine	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg
Diclofenac	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg
Ibuprofen	<input checked="" type="checkbox"/> 400 mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg
Ketamine	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg
Ketoprofen	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg

2.38 Perioperative medications: Intra-operative, wound infiltration

M7 Wound infiltration

If the surgical wound was infiltrated,

- either by the surgeon (=single shot)
- and/or by an indwelling catheter
- and/or by another method select "YES".

Multiple answers are possible.

Do not record the type of medication used.

M7 Wound infiltration (intra-op)

yes no not possible to obtain the information

If yes, which (multiple answers possible; analgesic is not recorded):

Single shot by surgeon Indwelling catheter Other, specify: Other, specify:

2.39 Perioperative medications: Intra-operative, opioids & local anesthetics

M8 Opioids and local anesthetics and clonidine

If the patient received any of the medications in the list, select "YES". Then choose the appropriate medications and the route administered.

- For opioids record the dose, if possible.
- For local anesthetics, dose is **not** necessary.
- For medications given by a regional anesthetic technique, mark the method in M5 (Regional anesthesia).



M8 Opioids & local anaesthetics (intra-op)

yes no not possible to obtain the information

If yes, which (multiple answers possible):



	RA (see M5)	i.v.	i.m.	s.c.
Alfentanil	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg
Buprenorphine	<input type="checkbox"/> µg/hr	<input type="checkbox"/> µg/hr	<input type="checkbox"/> µg/hr	<input type="checkbox"/> µg/hr
Codeine	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg

2.40 Perioperative medications: Recovery room, M9–M11

Recovery room medication relates to 3 items:

- M9 Non-opioids
- M10 Regional anesthesia
- M11 Opioids and local anesthetics and clonidine

2.41 Perioperative medications: Recovery room, M9 & M10

Page 7 Mark medications *given* to patient; record *cumulative* doses. PATIENT CODE:

RECOVERY ROOM

M9 Non-opioids (recovery room)

yes no not possible to obtain the information

If yes, which (multiple answers possible):

	p.o.	i.v.	i.m.	supp.
Celecoxib	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg
Clonidine	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg
Diclofenac	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg

M9 If the patient received a **non-opioid** in recovery, select "YES". Then mark the name, route & dose.

M10 Regional analgesia (recovery room)

yes no not possible to obtain the information

If yes, which (multiple answers possible):

<input type="checkbox"/> Epidural	<input type="checkbox"/> Spinal	<input type="checkbox"/>
<input type="checkbox"/> Sciatic	<input type="checkbox"/> Paravertebral	<input type="checkbox"/>

M10 If the patient received regional anesthesia in recovery, select "YES". Mark the approach. Remember to add information about the medication in M11 AND PCA, if it was used.



n M11: (1) Mark the RA medication(s) given in the RA column
(2) If the medication was given as PCA, tick appropriate box in the PCA column

2.42 Perioperative medications: Recovery room, M11

M11 Opioids and anesthetics and clonidine

If the patient received one or more of these medications, select "YES". Then select the medication name and route.

For **opioids**, record the total dose, if possible. **If the calculation is complex – do not include this information.**

For **local anesthetics** -> **do not record the dose.**

Naloxone is listed at the bottom: only mark this if the patient received naloxone for treatment of respiratory depression.

If patient controlled analgesia (PCA) was used: mark it in the appropriate box and also the route used, e.g. IV or regional analgesia.

RECOVERY ROOM

M11 Opioids & local anaesthetics (recovery room)

yes no not possible to obtain the information

If yes, which (multiple answers possible)

	Immediate release (PO & other)	Controlled release (PO & other)	RA (see M10)	i.v.	i.m.	supp.	s.c.	PCA (see M10)
Buprenorphine	<input type="checkbox"/> mg	<input type="checkbox"/> µg/hr	<input type="checkbox"/> µg/hr	<input type="checkbox"/> µg/hr	<input type="checkbox"/> µg/hr	<input type="checkbox"/> µg/hr	<input type="checkbox"/> µg/hr	<input type="checkbox"/>
Codeine	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/>

2.43 Perioperative medications: Recovery room, RA & PCA

How to mark epidural fentanyl with PCA administered in the recovery room?

M10 Regional analgesia (recovery room)

yes no not possible to obtain the information

If yes, which (multiple answers possible):

<input checked="" type="checkbox"/> Epidural	<input type="checkbox"/> Spinal	<input type="checkbox"/> Brachial plexus	<input type="checkbox"/> Femoral
<input type="checkbox"/> Sciatic	<input type="checkbox"/> Paravertebral	<input type="checkbox"/> Other: <input type="text"/>	<input type="checkbox"/> Other: <input type="text"/>

In M11: (1) Mark the RA medication(s) given in the RA column
(2) If the medication was given as PCA, tick appropriate box in the PCA column

AND

RECOVERY ROOM

M11 Opioids & local anaesthetics (recovery room)

yes no not possible to obtain the information


If yes, which (multiple answers possible)

	Immediate release (PO & other)	Controlled release (PO & other)	RA (see M10)	i.v.	i.m.	supp.	s.c.	PCA (see M10)
Buprenorphine	<input type="checkbox"/> mg	<input type="checkbox"/> µg/hr	<input type="checkbox"/> µg/hr	<input type="checkbox"/> µg/hr	<input type="checkbox"/> µg/hr	<input type="checkbox"/> µg/hr	<input type="checkbox"/> µg/hr	<input type="checkbox"/>
Codeine	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/>
Fentanyl	<input type="checkbox"/> µg/hr transmucosal	<input type="checkbox"/> µg/hr transdermal	<input checked="" type="checkbox"/> µg/hr	<input type="checkbox"/> µg/hr	<input type="checkbox"/> µg/hr	<input type="checkbox"/> µg/hr	<input type="checkbox"/> µg/hr	<input checked="" type="checkbox"/>

2.44 Perioperative medications: Ward

Ward medication includes 4 items:

- M12 Non-opioids
- M13 Regional anesthesia
- M14 Opioids and local anesthetics
- M15 Measurement of pain



Follow same principles as in Recovery, see sections 2.40 – 2.43

2.45 Perioperative medications: Ward, pain measurement

M15 Measurement of pain

This item evaluates whether, once the patient is back on the ward after surgery, pain was assessed by the nurses and how often.

The item consists of two sub questions :

In **(a)** mark **IF** and **HOW OFTEN** was pain assessed & recorded by the nurses on the ward;

In **(b)** mark if the patient received an analgesic, was the pain **re-assessed** & this recorded within 60 minutes of treatment.

If yes, **how many times** was the reassessment carried out?

M15 Measurement of pain:

a) Since the patient returned from surgery, how many times was pain assessed and this was recorded?

1 2 3 4 5 6 7 8 9 >9 times not possible to obtain the information

b) After treatment with an analgesic, was the pain re-assessed within 60 minutes?

no analgesic was given
 1 2 3 4 5 6 7 8 9 >9 times not possible to obtain the information

If the patient was not given any analgesics, once back on the ward, select this option.

2.46 Question 1

When at home, Jacob generally takes 7.5 mg Midazolam p.o. at night for severe sleeping problems.

The anesthesiologist prescribed 2 mg Lorazepam p.o. as medication for the night before surgery.

What would you record in **M1 Sedatives (pre-medication)**?

1. Midazolam 7.5 mg p.o. and Lorazepam 2 mg p.o.
2. Midazolam 7.5 mg p.o.
3. Lorazepam 2 mg p.o.

Answer # 3 is correct .

2.47 Question 2

Jacob underwent knee surgery. He was given a sedative and analgesic as pre-medication. He was ventilated by a laryngeal mask. Additionally a femoral nerve block catheter was placed to administer local anesthetics.

Which type of anesthesia do you record in M4 and / or M5?

1. General anesthesia in M4
2. Regional anesthesia in M5
3. General and Regional anesthesia in M4 and M5 AND the type(s) of medications administered in M8.
 - See next slide.

Question 2, continued

Page 5 **Mark medications *given* to patient; record *cumulative* doses.** PATIENT CODE:

INTRA-OPERATIVE

M4 General anaesthesia (intra-op)

yes no not possible to obtain the information

If yes, which (multiple answers possible):

<input checked="" type="checkbox"/> Inhalational	<input type="checkbox"/> IV
--	-----------------------------

M5 Regional anaesthesia (RA) (intra-op)

yes no not possible to obtain the information

If yes, which (multiple answers possible):

<input type="checkbox"/> Epidural	<input type="checkbox"/> Spinal	<input type="checkbox"/> Brachial plexus	<input checked="" type="checkbox"/> Femoral
<input type="checkbox"/> Sciatic	<input type="checkbox"/> Paravertebral	<input type="checkbox"/> Other: <input type="text"/>	<input type="checkbox"/> Other: <input type="text"/>

In M8: Mark the RA medication(s) given in the RA column

M8 Opioids & local anaesthetics (intra-op)

yes no not possible to obtain the information

If yes, which (multiple answers possible):

	RA (see M5)	i.v.	i.m.	s.c.
Alfentanil	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg
Buprenorphine	<input type="checkbox"/> µg	<input type="checkbox"/> µg	<input type="checkbox"/> µg	<input type="checkbox"/> µg
Codeine	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg
Fentanyl	<input checked="" type="checkbox"/> µg	<input type="checkbox"/> µg	<input type="checkbox"/> µg	<input type="checkbox"/> µg
Hydrocodone	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg

2.48 Question 3

Rachel underwent colon surgery. She had an epidural catheter with local anesthetics and fentanyl. On the ward, she received a PCA with continuous administration and boluses throughout the first post-operative day.

A. How would you record this on the ward?

M13 Regional analgesia (ward)

yes no not possible to obtain the information

If yes, which (multiple answers possible):

<input checked="" type="checkbox"/> Epidural	<input type="checkbox"/> Spinal	<input type="checkbox"/> Brachial plexus	<input type="checkbox"/> Femoral
<input type="checkbox"/> Sciatic	<input type="checkbox"/> Paravertebral	<input type="checkbox"/> Transv. Abdom. Plane (TAP)	<input type="checkbox"/> Other: <input type="text"/>

In M14: (1) Mark the RA medication(s) given in the RA column
(2) If the medication was given as PCA, tick appropriate box in the PCA column

M14 Opioids & local anaesthetics (ward)

yes no not possible to obtain the information

If yes, which (multiple answers possible):

	Immediate release (PO & other)	Controlled release (PO & other)	RA (see M13)	i.v.	i.m.	supp.	s.c.	PCA (see M13)
Buprenorphine	<input type="checkbox"/> mg	<input type="checkbox"/> µg/hr	<input type="checkbox"/> µg	<input type="checkbox"/> µg	<input type="checkbox"/> µg	<input type="checkbox"/> µg	<input type="checkbox"/>	<input type="checkbox"/>
Codeine	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/>
Fentanyl	<input type="checkbox"/> µg transmucosal	<input type="checkbox"/> µg/hr transdermal	<input checked="" type="checkbox"/> µg	<input type="checkbox"/> µg	<input type="checkbox"/> µg	<input type="checkbox"/> µg	<input type="checkbox"/> µg	<input checked="" type="checkbox"/>
Hydrocodone	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/> mg	<input type="checkbox"/>

See next slide

2.48 Question 3 (cont.)

B. Which dose would you record for the PCA?

1. Only dose given as bolus
2. Only dose given continuously
3. Combined doses given as bolus and continuously
4. Dose is not necessary

**Option # 4 is the correct one;
Do NOT enter dose for local anesthetics;
It can be complex to calculate the dose for continuous
infusion and boluses – best to leave out.**

2.49 Outcomes Questionnaire

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
worst pain possible										

P2. On this scale, please indicate the **least pain** you had since your surgery.

0	1	2	3	4	5	6	7	8	9	10
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%
always 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.

0	1	2	3	4	5	6	7	8	9	10
completely interfered										

b. **breathing deeply or coughing.**

0	1	2	3	4	5	6	7	8	9	10
completely interfered										

c. **sleeping.**

0	1	2	3	4	5	6	7	8	9	10
completely interfered										

d. **How you been out of bed** since your surgery?

No Yes

e. How much did pain interfere or prevent you from doing activities out of bed such as walking, sitting in a chair, standing in the clinic.

0	1	2	3	4	5	6	7	8	9	10
completely interfered										

P5. Pain can affect our mood and emotions. On this scale, please circle the one number that best shows how much, since your surgery, **pain caused you to feel ...**

a. **anxious.**

0	1	2	3	4	5	6	7	8	9	10
extremely										

b. **helpless.**

0	1	2	3	4	5	6	7	8	9	10
extremely										

Have you had any of the following **side effects** since your surgery?
If you circle "0" it means, if yes, circle the one number that best shows the severity of each.

a. **nausea.**

0	1	2	3	4	5	6	7	8	9	10
severe										

b. **itchiness.**

0	1	2	3	4	5	6	7	8	9	10
severe										

c. **constipation.**

0	1	2	3	4	5	6	7	8	9	10
severe										

d. **diarrhea.**

0	1	2	3	4	5	6	7	8	9	10
severe										

P6. How much **pain relief** have you received?
Circle the one percentage that best shows how much relief you have received from **treatments combined** (medicine and non-medicine treatments).

20%	30%	40%	50%	60%	70%	80%	90%
complete relief							

P7. How much **more** pain treatment than you received?

No Yes

P8. How much information about your pain treatment options?

No Yes

P9. Were you allowed to participate in decisions about your pain treatment as much as you wanted to?

0	1	2	3	4	5	6	7	8	9	10
not at all										

P10. Circle the one number that best shows how satisfied you are with the results of your pain treatment since your surgery.

0	1	2	3	4	5	6	7	8	9	10
extremely dissatisfied										

P11. Did you use or receive any non-medicine methods to relieve your pain?

No Yes

If you check all that apply:

<input type="checkbox"/> Acupressure	<input type="checkbox"/> Massage
<input type="checkbox"/> Chiropractic	<input type="checkbox"/> Meditation
<input type="checkbox"/> Herbal medicine	<input type="checkbox"/> Music
<input type="checkbox"/> Tai Chi	<input type="checkbox"/> Yoga
<input type="checkbox"/> Transcutaneous Electrical Nerve Stimulation	<input type="checkbox"/> Visualization
<input type="checkbox"/> Other (please describe): _____	<input type="checkbox"/> Other (please describe): _____

P12. Did you have a persistent painful condition for 1 month or more before coming into hospital for this surgery?

No Yes

P13. If you have severe pain the pain most of the time? Please circle the number that indicates this.

0	1	2	3	4	5	6	7	8	9	10
no pain										

P14. If you return was the persistent pain located?

Site of surgery elsewhere Both (site of surgery and elsewhere)

Thank you for your time and feedback

For the doctor or the research assistant:

How was the questionnaire?

Very difficult to complete Difficult Easy Very easy

Not at all satisfied Satisfied Very satisfied

Not at all satisfied Satisfied Very satisfied

Not at all satisfied Satisfied Very satisfied

Not at all satisfied Satisfied Very satisfied

2.50 How to **provide** information and how to **obtain** consent ? [i]

Providing information In all countries, the ethics committee [(EC), or Institutional Review Board (IRB)] of each hospital will require that you provide the patient with information about the nature of the survey.

The information can be given either in written format or orally when the surveyor approaches the patient to recruit him.

Obtaining consent In some countries it is enough that patients give **oral agreement** about their participation, this is called '**assent**' (= to agree to, give approval to).

In some countries, the EC requires that the patient provide their agreement in written form. In this case, you will need to give the patient a **consent form**; ask the patient to read the form and to sign.

Both factors, i.e. how to inform patients and how to receive their consent, are determined by the local ethics committee in each hospital.

2.50 Obtaining informed consent. cont.

In the next slide, we describe the format of a letter that you may use for patients in your site. However, some ethics committees will require that collaborators compose and use a letter based on specifications given by the local ethics committee.

2.51 An example of a Patient Information & letter of consent

The letter addresses:

Dear Sir \ Madam

We would be grateful if you would participate in our survey on how patients feel after surgery. The aim of the survey is to improve the management of pain after surgery in this department.

Your participation is voluntary and the information you provide will be made anonymous once you hand in this questionnaire. This means that your name or other form of identification will be deleted from the questionnaire after you hand it in and will not be included in any records we will hold.

Your answers in this questionnaire will **not** be shared with your medical or nursing team.

Your team will treat you in the same way whether or not you choose to participate in our survey.

Many thanks for considering to take part in this survey.

[1] Type and aim of study

[2] Participation is voluntary

[3] Anonymity will be kept

[4] Same quality of treatment

2.52 [1] **Type** and **aim(s)** of study

TYPE The data collected in PAIN OUT falls under the category of 'Quality Improvement' or 'non-interventional ' or 'observational' or 'descriptive' studies or 'surveys'.

AIM(s) Primary aim: The information will be used to improve how pain is managed in this department. The findings may also be used to assess how to improve management of patients undergoing similar procedures in other hospitals.

2.53 [2] Participation is voluntary

Patients can be recruited only if they do so voluntarily, out of their own free will.

No one should force or coerce a patient to take part, not the patient's relatives or friends or a member of staff.

2.54 [3] Anonymity will be kept

Patients should be assured that their answers will be dealt with anonymously. This means that once the data for each patient is entered into the web-based database, it will be difficult to trace answers back to him / her.

How? PAIN OUT does not record patient identifiers: name, full date of birth or hospital identification number.

Patients may be concerned that the doctors or nurses caring for them will be notified about the answers they gave. This is mostly relevant if a patient is critical or displeased with his treatment.

Assure patients that: (1) you do not belong to the team treating him (when this is true) and that (2) staff receive only summarized data; not findings about individual patients.

The code used to match the Outcomes Questionnaire of an individual patient with the Process Questionnaire of that patient is an internal hospital code, it is not inputted into the database.

2.55 [4] Same quality of treatment

Assure patients that the quality of treatment they receive will not be affected in any way if they choose **not** to participate in the survey.

2.56 Recruiting patients

Approach patients using a standardized procedure. Here is a summary of the steps you should carry out.

STEP 1 Introduce yourself and PAIN OUT.

STEP 2 Ask for consent.

STEP 3 If consent is given, give the Outcomes Questionnaire.

STEP 4 Patient fills in the questionnaire / Leave the room.

STEP 5 Return to collect the Outcomes Questionnaire.

2.57 **STEP 1** Introduce yourself and PAIN OUT

‘Hello, Mr/Mrs X, my name is Y. I am from the K department. We are carrying out a survey to assess how patients feel after surgery. Our aim is to improve management of pain after surgery.’

2.58 **STEP 2** Asking for consent



After informing the patient about the survey, ask for consent.

Since this is an observational study, many sites accept oral consent = the patient says that he agrees to participate. However, some ethics committee require that patients sign a letter of consent.

Watch clip on:

<https://www.youtube.com/watch?v=Y1wKxibHOn8>

2.59 **STEP 2** When a patient does not consent



If a patient is not interested in participating, do not exert any pressure on him to do so.

Neither should other members of staff, family or friends do so.

2.60 **STEP 2** When a patient cannot give consent

There are different reasons for patients not giving consent. See those listed in S3 of the Process Questionnaire.

S3 Patient has given his assent (or consent) to participate

If **no** to S3, mark the reason(s):

- a. Patient is not on the ward
- b. Patient does not wish to participate¹
 - b1. too ill
 - b2. too much pain
 - b3. other
- c. Patient is asleep
- d. Patient has visitors
- e. It is not possible to communicate with the patient (e.g., patient is deaf, does not read/write in any of the languages in which the Outcomes questionnaire is available)
- f. Patient is cognitively impaired (e.g., Downs syndrome, dementia, Alzheimer's disease, Cerebral Palsy)
- g. Other, specify:

¹ Remember: You may interview patients who need help, e.g., are too ill or in too much pain or illiterate



If a patient is not recruited – remember to record the reason(s) for this AND to enter the information into the web-based mask.

2.61 **STEP 2** Asking for consent: Check yourself

Surveyor : 'Would you be willing to participate in a survey assessing how patients feel after surgery?'

Patient: 'I don't feel like filling in questionnaires. Please leave me alone.'

How should you answer?

1. 'No problem. The survey is voluntary.'
2. 'I would appreciate if you would re-consider. It will only take some minutes and is likely to help future patients.'
3. 'OK. I will come back later, maybe you'll feel different then.'

2.62 **STEP 3** If consent is given, give the Outcomes Questionnaire



Hand out the Outcomes Questionnaire.
Ask the patient to fill it in.



Tell the patient that you will leave him/her to fill in the Outcomes Questionnaire.
Give an approximate time as to when you will come back to collect it.

Come back the same day!

2.63 **STEP 4** Filling in the questionnaire

Language of the Outcomes Questionnaire

Patients should receive – as far as is possible -the Outcomes Questionnaire in their native language.

This should make it easier for them to understand the questions and to give reliable answers.

For patients who live in a country where their native language is not spoken, find out which language of the questionnaire they prefer. Even if a patient has been residing in their adopted country for years and is fluent speaking the language, they may prefer reading in their native language, particularly in times of stress, such as after surgery.

Ask the patient which language of the questionnaire they prefer to have.

See video clip: <https://www.youtube.com/watch?v=XBKOl0adsW4>

Download questionnaires in multiple languages from the PAIN OUT website.

D7 Language of Outcome questionnaire (select one)

- | | | | | | | |
|-----------------------------------|-----------------------------------|--|----------------------------------|---|------------------------------------|---------------------------------------|
| <input type="checkbox"/> Albanian | <input type="checkbox"/> Arabic | <input type="checkbox"/> Bahasa Malaysia | <input type="checkbox"/> Danish | <input type="checkbox"/> Dutch | <input type="checkbox"/> English | <input type="checkbox"/> Filipino |
| <input type="checkbox"/> Finnish | <input type="checkbox"/> French | <input type="checkbox"/> German | <input type="checkbox"/> Hebrew | <input type="checkbox"/> Hindustani | <input type="checkbox"/> Icelandic | <input type="checkbox"/> Italian |
| <input type="checkbox"/> Korean | <input type="checkbox"/> Mandarin | <input type="checkbox"/> Romanian | <input type="checkbox"/> Russian | <input type="checkbox"/> Serbo-Croatian | <input type="checkbox"/> Spanish | <input type="checkbox"/> Span. Mexico |
| <input type="checkbox"/> Swedish | | | | | | |

Versions in Afrikaans / Xhosa / Zulu are being prepared

2.64 **STEP 4** But the patient has visitors

The Outcomes Questionnaire seeks to find out how patients perceive their pain after surgery. We aim that patients fill in the questionnaire on their own, with no help from the surveyor OR family member OR friend. Under these conditions, patients' answers probably be based on their own judgment and minimally influenced by the need to please others, e.g. they might feel that by reporting high pain scores they are being critical of their healthcare providers. There are exceptions to this – described in the slides that follow.

Could you please leave the room for a few minutes so that Mrs M can fill in the questionnaire or her own. I will help, if this is necessary.



Watch clip on:
<https://www.youtube.com/watch?v=uCHgdRVlysk>

2.65 **STEP 4** Does the patient need help?

When giving out the questionnaire, evaluate the patients' need for help.

Some will need:

1. **NO** help filling in the questionnaire;

Others will need:

2. help with a **few** questions;

3. help with **all** questions (= interview).

2.66 **STEP 4** No help required

Situation 1: Needs no help filling in the questionnaire.

Most patients will be able to read the questions independently and write the answers on their own.

Why do we aim that they do this?

PAIN OUT seeks to find out how patients perceive pain, side-effects and impact of the pain on their mood, amongst other items.

These assessments are easily influenced by others.

The wish to please a member of family or member of staff can alter a patient's evaluation of how he feels.

Therefore, the Outcomes Questionnaire should be filled in by the patient on his own, with no help from others.

Once you hand out the questionnaire to the patient, leave the room.

2.67 **STEP 4** Help required with a few questions

Situation 2: Needs help with a few questions

If a patient does not understand a question read it out loud once, using the same text as in the question.

If he / she still does not understand the question after you have done this, mark it as un-answered.

This applies to all questions in the Outcomes Questionnaire.

You may come across this situation once the patient has gone over the questionnaire and you have come back to collect it.

2.68 **STEP 4** When is it an interview

Situation 3: patient needs help with all questions

If a patient requests that you help him with the entire questionnaire, you can carry out an interview.

When is it an interview?

It is when you hold the Outcomes Questionnaire in your hands, read out all the questions to the patient and write down his answers for him.

Helping a patient with 1 - 3 questions does not qualify as an interview.

2.69 **STEP 4** Situations a patient needs help

There are medical and technical reasons why a patient might require help filling in the Outcomes Questionnaire. For example:

Medical

- is too weak,
- in too much pain,
- arm is cast

Technical

- eye-glasses are unavailable,
- does not understand the scales for evaluating answers.

Please assist patients who request help -> excluding them could bias the findings.

2.70 [i] **STEP 4** Guidelines to conduct an interview

If a patient **cannot read:** Translate text here

- Read out each question exactly as it is.
Do not change the text!
- Let the patient reply. Write down his/her answer.

If a patient **cannot write:**

- Let the patient read the questions on his/her own
- Write down his/her answer.

**Do not comment.
Do not be judgmental
about the patient's answers.**



2.70 [ii] **STEP 4** Guidelines to conduct an interview

If you carried out an interview, mark this on the back of the Outcomes questionnaire.
Select "YES" and mark the reason.



Thank you for your time and feedback

To be filled in by the research assistant Research assistant code:

Interview → Patient was interviewed: No Yes

Reason for Interview → If yes, please mark the reason(s):

Too ill / weak Too much pain Requested assistance Did not understand scales

Technical reasons (patient has no eyeglasses / is blind; can not sit up; is illiterate; arm is in cast; etc)

Version 2.6 101201

2.71 Question yourself

The patient can't find his glasses.

He says: 'Sorry. I can't participate. I am too nearsighted to read the text.'

How should you answer?

1. 'You can participate. We'll ask your daughter can help, she can read the questions out loud for you.'
2. 'You can participate, I will help you by reading the questions out loud to you. Do you agree?'
3. 'That's true, sorry. In this case, you cannot participate.'

Option #2 is correct.

2.72 **STEP 5** Picking up the Outcomes questionnaire

Go over the Outcomes Questionnaire and check if all the questions have been filled in.

If the Outcomes Questionnaire is complete, thank the patient and leave the room.



2.73[i] **STEP 5** Reviewing the questionnaire

If after reviewing the questionnaire, you find it is **incomplete**, ask the patient whether:

1. He / she has left out the answers unintentionally OR
2. Does not want to answer the question(s) OR
3. Needs help.

If the patient does not want to answer and asks for no assistance, then leave the question unanswered.

If the patient asks for assistance with a few questions (e.g up to 3-4):

1. Read out the question once.
2. Do not change any of the text.
3. Do not provide any explanations.
4. Let the patient reply and write down his answer.

This does not constitute an interview.

If the patient does not understand the question(s) after you have done this, mark it / them as unanswered.

Later, when you enter the data into the web-mask, mark these question(s) as 'Not answered'. See next slide.

2.73[ii] **STEP 5** Reviewing the questionnaire

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 Not answered

P2. On this scale, please indicate the least pain you had since your surgery:

0 1 2 3 4 5 6 7 8 9 10 Not answered

When you enter the data into the web-mask, mark question(s) which the patient left un-answered as 'Not answered'.

See previous slide.

2.74 Background, structure & items in the patient reported outcomes questionnaire

PATIENT CODE: <input type="text"/>												
CUESTIONARIO DEL PACIENTE												
<p>Las siguientes preguntas hacen referencia al dolor que usted ha experimentado desde la operación.</p>												
<p>P1. En esta escala, indique el peor dolor sufrido desde la operación:</p>												
0	1	2	3	4	5	6	7	8	9	10		
sin dolor											el peor dolor posible	
<p>P2. En esta escala, indique el menor dolor sufrido desde la operación:</p>												
0	1	2	3	4	5	6	7	8	9	10		
sin dolor											el peor dolor posible	
<p>P3. ¿Con qué frecuencia ha experimentado dolor intenso desde la operación? Rodee con un círculo el porcentaje de tiempo que mejor exprese el dolor intenso experimentado:</p>												
0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%		
nunca dolor intenso											siempre dolor intenso	

2.75 Outcomes for patients to assess their experience of pain after surgery

In the International Pain Outcomes questionnaire, patients use the following outcomes to assess the management of pain they received after surgery:

- Intensity or severity of pain,
- Interference of pain with activities in and out of bed and with emotions,
- Adverse effects related to anesthesia and opioids ,
- Perception of care related to pain, given by the healthcare providers.
- Chronic pain before surgery: existence, intensity and location.
 - Chronic pain can have an effect on pain experienced after surgery.

The American Pain Society published its first version of a questionnaire asking patients to assess pain-related outcomes in 1995. Since then, the questionnaire has been revised a number of times. The questionnaire used in PAIN OUT is adapted and based on the 2010 vision. It is also based on experience gained from the German acute pain registry, QUIPS.

2.76 Validation of the questionnaire

The International Pain Outcomes questionnaire was validated in **English**.

The work is described in:

Rothaug et al. Patients' perception of postoperative pain management: validation of the International Pain Outcomes (IPO) questionnaire. J Pain. 2013 Nov;14(11):1361-70

Validity

Validity refers to the degree in which the test truly measures what it claims to measure. The Outcomes Questionnaire has good validity.

Reliability

Reliability refers to the repeatability or consistency of the test. The Outcomes Questionnaire has a high internal consistency

Translations from the original English version to other languages is carried out following a standardized procedure of *translation and back-translation* by a clinician and professional translator. The two versions are then compared and consolidated.

2.77 The patient questionnaire consists of 3 pages

Page 1

Page 2

Page 3

The image shows three pages of a patient questionnaire. Each page has a header with 'PATIENT CODE' and 'PATIENT OUTCOMES QUESTIONNAIRE'. The questions are as follows:

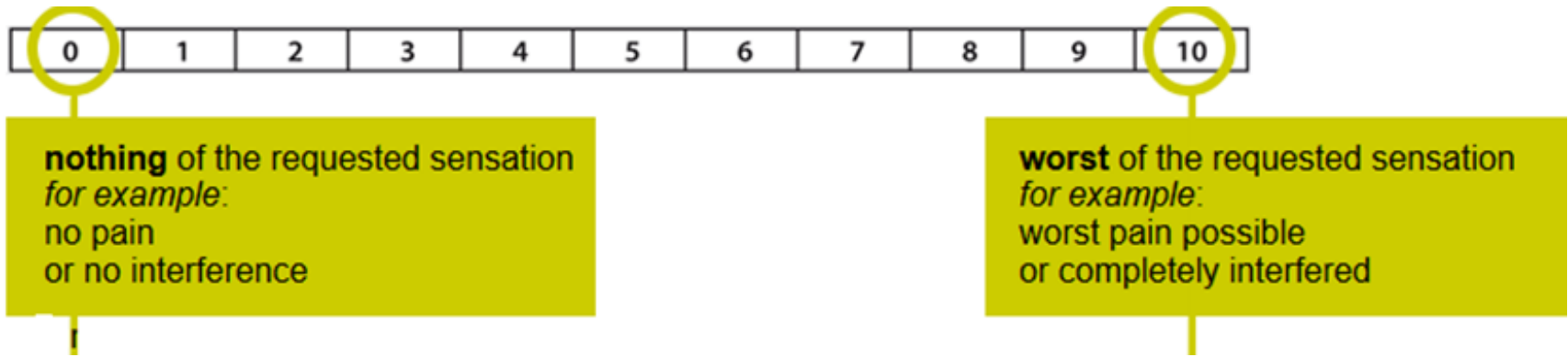
- Page 1:**
 - P1. On this scale, please indicate the **worst pain** you had since your surgery. (Scale 0-10)
 - P2. On this scale, please indicate the **least pain** you had since your surgery. (Scale 0-10)
 - P3. How often were you in **severe pain** since your surgery? Please circle your best estimate of the percentage of time you experienced severe pain. (Scale 0% to 100%)
 - 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. (Scale 0-10)
 - b. breathing deeply or coughing. (Scale 0-10)
 - c. sleeping. (Scale 0-10)
 - d. Have you been **out of bed** since your surgery? (Yes/No)
 - P5. Pain can affect our mood and emotions. On this scale, please circle the one number that best shows how much, since your surgery, **pain caused you to feel ...**
 - a. anxious. (Scale 0-10)
 - b. helpless. (Scale 0-10)
- Page 2:**
 - P6. Have you had any of the following **side effects** since your surgery? Please circle "0" if no; if yes, circle the one number that best shows the severity of each:
 - a. Nausea. (Scale 0-10)
 - b. Drowsiness. (Scale 0-10)
 - c. Itching. (Scale 0-10)
 - d. Dizziness. (Scale 0-10)
 - P7. Since your surgery, how much **pain relief** have you received? Please circle the one percentage that best shows how much relief you have received from all of your **pain treatments** combined (medicine and non-medicine treatments). (Scale 0% to 100%)
- Page 3:**
 - P10. Were you **allowed to participate in decisions** about your pain treatment as much as you wanted to? (Scale 0-10)
 - P11. Circle the one number that best shows how **satisfied** you are with the results of your **pain treatment** since your surgery. (Scale 0-10)
 - P12. Did you use or receive any **non-medicine methods** to relieve your pain?
 - No Yes
 - If yes, check all that apply:
 - cold pack meditation deep breathing
 - heat acupuncture prayer
 - talking to medical staff walking massage
 - talking to friends or relatives relaxation imagery or visualization
 - TENS (Transcutaneous Electrical Nerve Stimulation)
 - distraction (like watching TV, listening to music, reading)
 - other (please describe): _____
 - P13. Did you have a **persistent painful condition** for 3 months or more before coming into hospital for this surgery?
 - No Yes
 - a. If yes, how **severe** was the pain most of the time? Please circle the number that indicates this. (Scale 0-10)
 - b. If yes, where was this **persistent pain** located?
 - site of surgery elsewhere both (site of surgery and elsewhere)

and 13 questions, addressing :

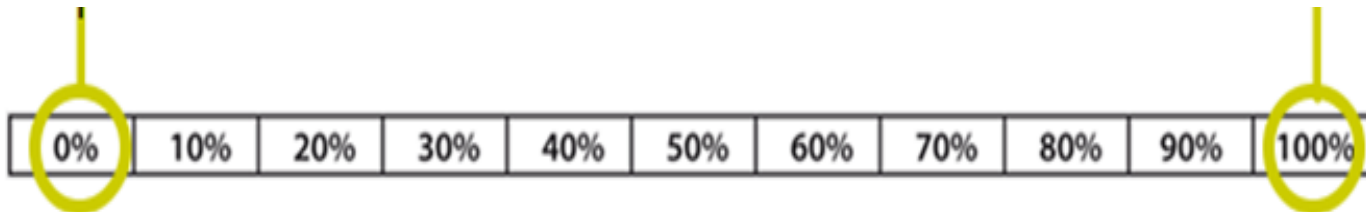
- P1 - P3 Pain intensity
- P4 - P5 Pain interference with physical activity and affect
- P6 Adverse effects
- P7 - P11 Perceptions of care
- P12 Non--pharmacological treatment of pain
- P13 Persistent pain

2.78 Scales used for assessment

[1] Patients rate most of the items using a **Numerical Rating Scale**



[2] Two questions are assessed using a **percentage scale**



[3] A number of items are assessed using **YES / NO**

2.79 Pain since your surgery ...

Note that in all questions, except for the last one, P13, patients are asked to reflect on how they felt since their surgery.

The following questions are about pain you experienced since your surgery.

This is to remind patients to relate each question to the pain or sensation which is associated with the surgery they underwent.

2.80 P1–P2 Pain Intensity

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											worst pain possible	

P2. On this scale, please indicate the **least pain** you had since your surgery:

0	1	2	3	4	5	6	7	8	9	10		
no pain											worst pain possible	

Questions P1 and P2 ask patients to assess the **worst** and **least** pain intensity they experienced since surgery.

Measuring worst and least pain helps evaluate the full range of pain experienced during rest (when people typically experience least pain) and when carrying out activities which typically induce severe pain.

At times, patients confuse between 'worst' vs 'least' pain and fill in their assessment for least in worst and vice versa.

When picking up the questionnaire – please review – is the evaluation of least > worst AND have all the questions been answered. If yes, point out to the patient and ask them to address this.

2.81 P3 Pain intensity

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%
never in severe pain					always in severe pain					

In **P3**, patients are asked to assess how much of the time, since surgery, they spent in **severe** pain. They assess this as a **percentage**.

In **P1** patients are asked to assess what the intensity of their **worst** pain was – this could be momentary pain, e.g. when moving or taking a deep breath.

In **P3** patients are asked to assess how much **severe** pain they experienced over time. Patients would need to define for themselves what they regard is their ‘worst’ pain and what is ‘severe’ pain.

Patients often find that using the percentage scale is challenging.

You can point out that they should make an estimate – this is not meant to be a precise calculation.

If a patient still experiences difficulties:

1. You can read the question out loud once.
2. If this is not sufficient to clarify the question, leave it un-answered

When you enter the data into the web-mask, mark "Question un-answered"

2.82 P4 Interference of pain with activities

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:

0	1	2	3	4	5	6	7	8	9	10
did not interfere					completely interfered					

b. **breathing deeply or coughing:**

0	1	2	3	4	5	6	7	8	9	10
did not interfere					completely interfered					

c. **sleeping:**

0	1	2	3	4	5	6	7	8	9	10
did not interfere					completely interfered					

d. Have you been **out of bed** since your surgery?

Yes No

If yes, how much did **pain interfere or prevent you from doing activities out of bed** such as walking, sitting in a chair, standing at the sink:

0	1	2	3	4	5	6	7	8	9	10
did not interfere					completely interfered					

P4 a, b addresses activities in bed which typically induce higher levels of pain and so may be difficult to carry out.

P 4 d is relevant only for those patients who have already gotten out of bed by the time they answer the questionnaire.

2.83 P5 Effect of pain on affect

P5. Pain can affect our mood and emotions.

On this scale, please circle the one number that best shows how much, since your surgery, pain caused you to feel ...

a. anxious

0	1	2	3	4	5	6	7	8	9	10
not at all										extremely

b. helpless

0	1	2	3	4	5	6	7	8	9	10
not at all										extremely

2.84 P6 Adverse effects

P6. Have you had any of the following **side effects** since your surgery?
Please circle "0" if no; if yes, circle the one number that best shows the severity of each:

a. Nausea

0	1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	---	----

none severe

b. Drowsiness

0	1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	---	----

none severe

c. Itching

0	1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	---	----

none severe

d. Dizziness

0	1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	---	----

none severe

P6 a-d ask about adverse effects that are typical of the anesthesia and treatment with opioids.

Constipation is a common adverse effect of opioids. It is not included here as it is un-likely to develop during the first post-operative day.

2.85 Perceptions of care

P7 – P11 addresses ‘perception of care’, i.e. asks patients to assess how they regard the pain management given to them by their healthcare providers.

2.86 P7 Degree of pain relief received

P7. Since your surgery, how much **pain relief** have you received?

Please circle the one percentage that best shows how much relief you have received from all of your **pain treatments** combined (medicine and non-medicine treatments):

0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
no relief					complete relief					

Patients are asked to assess the degree of relief they received from all the pain-related treatments they received.

Patients are asked to carry out this assessment using a percentage scale.

0 % indicates no relief - 100 % indicates complete relief.

Patients often have difficulties using the percentage scale.

If a patient experiences difficulties:

1. Read the question out loud once. You can try to clarify it by saying 'Think back to all the treatments you received for pain.

Can you estimate much relief do you received?'

2. If this is not sufficient to clarify the question, leave it un-answered

Mark "Question un-answered" when you enter the data into the web-mask later.

% scale – worth paying attention



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%	
never in severe pain											always in severe pain

In **P3**, when assessing % time in severe pain – 100 % represents the most PAIN;
In **P7**, when assessing pain relief – the 100 % represents the most RELIEF.

P7. Since your surgery, how much **pain relief** have you received?

Please circle the one percentage that best shows how much relief you have received from all of your **pain treatments** combined (medicine and non-medicine treatments):

0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
no relief											complete relief

2.87 P8 & P9: More treatment & providing information

P8. Would you have liked **MORE pain treatment** than you received?

Yes No

P9. Did you receive any **information about your pain treatment options?**

Yes No

2.88 P10 & P11 Allowed to participate & satisfaction

P10. Were you **allowed to participate in decisions about your pain treatment** as much as you wanted to?

0	1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	---	----

not at all very much so

P11. Circle the one number that best shows **how satisfied** you are with the results of your pain treatment since your surgery:

0	1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	---	----

extremely dissatisfied extremely satisfied

Some patients find question P10 difficult to answer.
Do not provide explanations, leave un-answered.

Note that In P11 'Satisfaction' relates to pain management and NOT to other features of the patient's stay in hospital.

Mark "Question un-answered" when you enter the data into the web-mask later.

2.89 P12 non-pharmacological management of pain

P12. Did you use or receive any **non-medicine methods** to relieve your pain?

Yes No

If yes, **check all** that apply:

- | | | |
|--|--------------------------------------|---|
| <input type="checkbox"/> cold pack | <input type="checkbox"/> meditation | <input type="checkbox"/> deep breathing |
| <input type="checkbox"/> heat | <input type="checkbox"/> acupuncture | <input type="checkbox"/> prayer |
| <input type="checkbox"/> talking to medical staff | <input type="checkbox"/> walking | <input type="checkbox"/> massage |
| <input type="checkbox"/> talking to friends or relatives | <input type="checkbox"/> relaxation | <input type="checkbox"/> imagery or visualization |
| <input type="checkbox"/> TENS (Transcutaneous Electrical Nerve Stimulation) | | |
| <input type="checkbox"/> distraction (like watching TV, listening to music, reading) | | |
| <input type="checkbox"/> other (please describe): <input type="text"/> | | |



If a patient writes an intervention in OTHER which appears in the list, please select that when entering data into the mask. Information in OTHER is rarely accessed or assessed.

P12 asks patients to record the types of non-pharmacologic strategies that they might have used to control their pain and / or that they might have received from their healthcare providers.

Providing patients with non-pharmacologic treatment strategies is recommended by some clinical treatment guidelines for some conditions, e.g. cold pack for various orthopedic procedures is accepted as a standard of care in some countries and hospitals. These treatments are often not documented in the medical record which is why patients are being asked to record them.

2.90 P13 Persistent Pain

P13. Did you have a **persistent painful condition for 3 months or more** before coming into hospital for this surgery?

Yes No

a. If yes, **how severe** was the **pain** most of the time?
Please circle the number that indicates this.

0	1	2	3	4	5	6	7	8	9	10	
no pain											worst pain possible

b. If yes, **where** was this **persistent pain** located?

site of surgery elsewhere both (site of surgery and elsewhere)

P13 asks patients whether they had **persistent pain** for 3 months or more before surgery. "Pain for three months or over" is one definition for chronic pain.

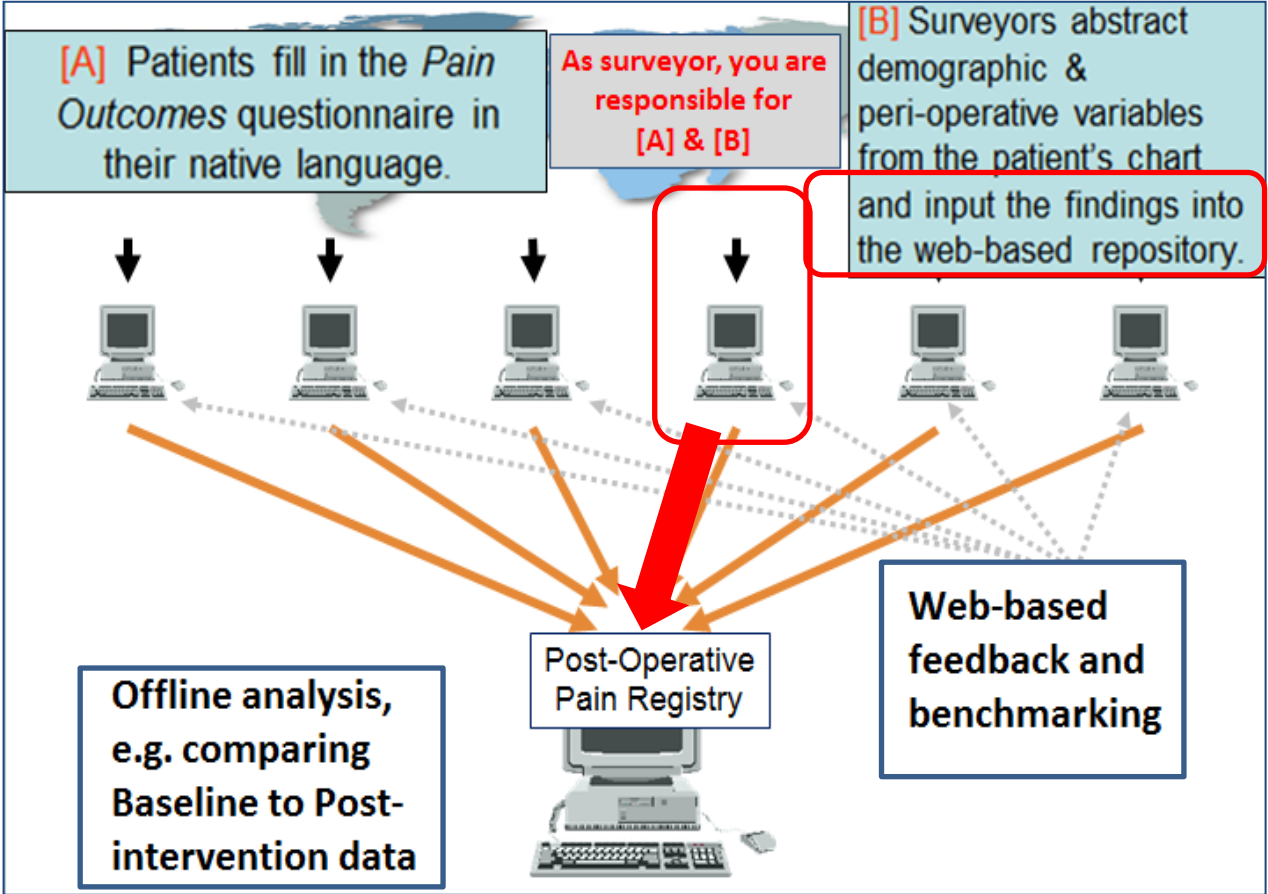
If "YES" the patient is asked to characterize the pain regarding (1) intensity; (2) region on the body.

Having pain before surgery can impact on the severity of pain in the early post-operative period. This may also be one of the many factors which influence development of chronic pain after surgery.

2.91 Structural Questionnaire

- A member in your team will be asked to fill in a short questionnaire evaluating structures in your hospital, e.g. type of hospital (governmental or private) and number of beds.
- This will be carried out when you join the project.
- Please help to verify that this questionnaire was filled in.

Part 3: Inputting data into the web-based mask



Now that you have collected Outcomes and Process questionnaires from a number of patients, you can enter the findings into the **web-based mask**.

The findings will then become available for web-based feedback and also for analysis offline.

3.1 Accessing the data entry mask [i]

1. Access the PAIN OUT web site through <http://pain-out.med.uni-jena.de/>
2. Find 'Data entry' and log in.

The image shows a sequence of three screenshots illustrating the steps to access the data entry mask. The first screenshot shows the website's navigation menu with 'Data entry' highlighted in a red box. The second screenshot shows the 'Data entry' page with a red arrow pointing to the 'Data entry' link in the navigation menu and another red arrow pointing to the 'Click here if you want to enter data sets into the PAIN OUT database.' link. The third screenshot shows the login form with the username 'JohnSmith' and a password field, and a 'Login' button.

Navigation

- Home
- News
- About PAIN OUT
- How to join
- Links
- Additional projects
- Knowledge library

Application

- E-Learning
- EUCPSP
- PAIN OUT infant

For participants

- Website Login

Navigation

- Home
- About PAIN OUT
- How to join
- Links
- Additional projects
- Knowledge library

Application

- Data entry
- Benchmarkserver
- E-Learning
- EUCPSP
- PAIN OUT infant

Data entry

Click here if you want to enter data sets into the PAIN OUT database.

Login

Benutzername

Passwort

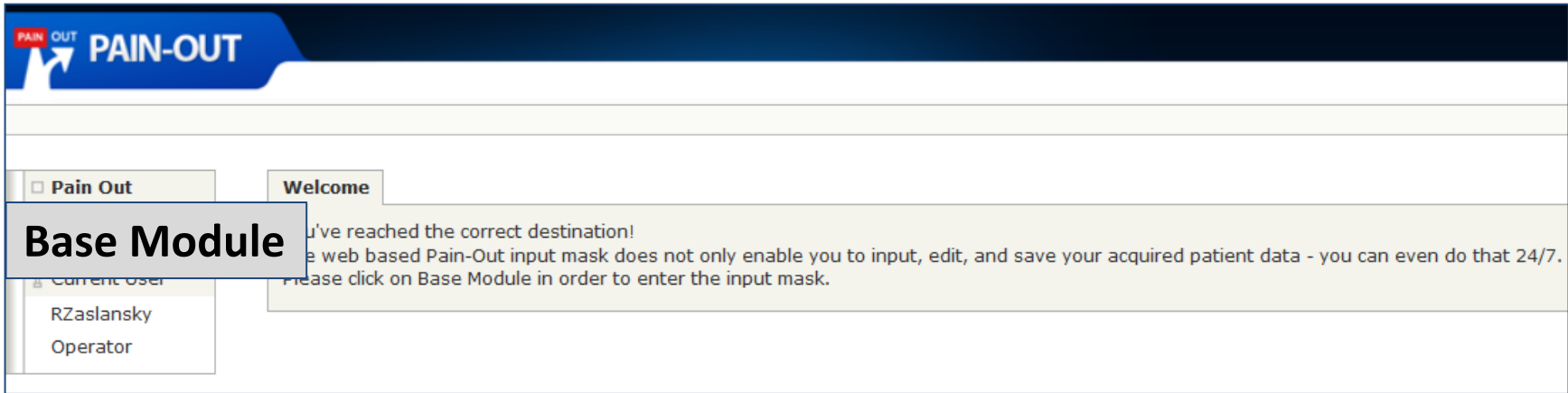
Login

3.1 Accessing the data entry mask [ii]

Obtain the passwords for the PAIN OUT website and for data entry from Claudia.

You can change the password you receive to one which is convenient for you to use.

3.1 Accessing the data entry mask [iii]



Select "Base module" to input, edit or save the data.

3.2 Accessing the mask to input data

- (1) **Timespan** = dates during which data for your site is displayed. The default is 3 months; increase as needed.
- (2) **Code** = refers to patient code. Assigned automatically by the program for every new patient added.
- (3) **Participant** = name of participating ward.

Questionnaires

Timespan

Code

Participant

		Data collection	Created	Modified	Ward	Version	
<input type="checkbox"/>	<input type="checkbox"/>	GP5QEHH0OY	2016/06/03	2016/06/03	2016/06/03	HUGgastro	2
<input type="checkbox"/>	<input type="checkbox"/>	FDKNPOCA7T	2016/06/03	2016/06/03	2016/06/03	HUGortho	2
<input type="checkbox"/>	<input type="checkbox"/>	WK8XZH9KOY	2016/06/03	2016/06/03	2016/06/03	HUGgastro	2
<input type="checkbox"/>	<input type="checkbox"/>	5I2IGPY30D	2016/06/02	2016/06/02	2016/06/03	13A West	2

<input type="checkbox"/>	<input type="checkbox"/>	EWYK5UXTZN	2016/06/01	2016/06/01	2016/06/03	13B West	2
<input type="checkbox"/>	<input type="checkbox"/>	FA8QJC3ME9	2016/05/31	2016/06/02	2016/06/02	BernInselspitalGeneral	2
<input type="checkbox"/>	<input type="checkbox"/>	4DGK8S3CTU	2016/05/31	2016/06/02	2016/06/02	BernInselspitalGeneral	2
<input type="checkbox"/>	<input type="checkbox"/>	DHN24DCG8G	2016/05/31	2016/05/31	2016/05/31	ZurichHirslandenOrtho	2
<input type="checkbox"/>	<input type="checkbox"/>	UQWPJ6BMOQ	2016/05/31	2016/05/31	2016/05/31	ZurichHirslandenVisceral	2

1 2 3 4 5 6 ... 10

Delete

Add

To delete a file

To add a new data file

3.3 Creating a new dataset [i]

To create a new data file, click on the 'add' button (bottom right of the screen; see previous slide). You will access the screen below. The information corresponds to that obtained by the Process questionnaire. So that, **DATA COLLECTION** corresponds to the **Administrative information** in the Process questionnaire; **INCLUSION** to **Inclusion, etc.**

Enter time and date of data **collection**

Enter your surveyor's code

Enter the project phase

Fields surrounded by a red border are obligatory.

1 = Baseline
2 = Post intervention

DATA COLLECTION

A DATE OF DATA COLLECTION: 2017/06/07

B TIME OF DATA COLLECTION: 16:43 [hh:mm]

C WARD WHERE DATA IS COLLECTED: 10. Ost general

PATIENT CODE: 70T9FDF206

INVESTIGATOR'S CODE:

PROJECT PHASE: 1 or 2

EMAIL:

INCLUSION

S1 Time of data collection is POD1 AND patient is 6 hrs (minimum) in the ward. YES NO

S2 Patient is consenting age or over. YES NO

S3 Patient has given his assent (or consent) to participate. YES NO

3.3 Creating a new dataset[ii]

INCLUSION

S1 Time of data collection is POD1 AND patient is 6 hrs (minimum) in the ward. YES NO

S2 Patient is consenting age or over. YES NO

S3 Patient has given his assent (or consent) to participate. YES NO

If the patient is **included** (i.e., you have entered 'YES' for S1 & S2 & S3), you will next go through each of the tabs and input all data items relevant for this patient that you collected in the Process and Outcomes questionnaires.

If the patient was **excluded** in one of the Screening - Inclusion Criteria steps, save the information and proceed to the next patient.



TABS

Demo Inf / Med History / Pre medication / Surgical procedures / Intra-op treat / Recovery Room / Ward / Outcome

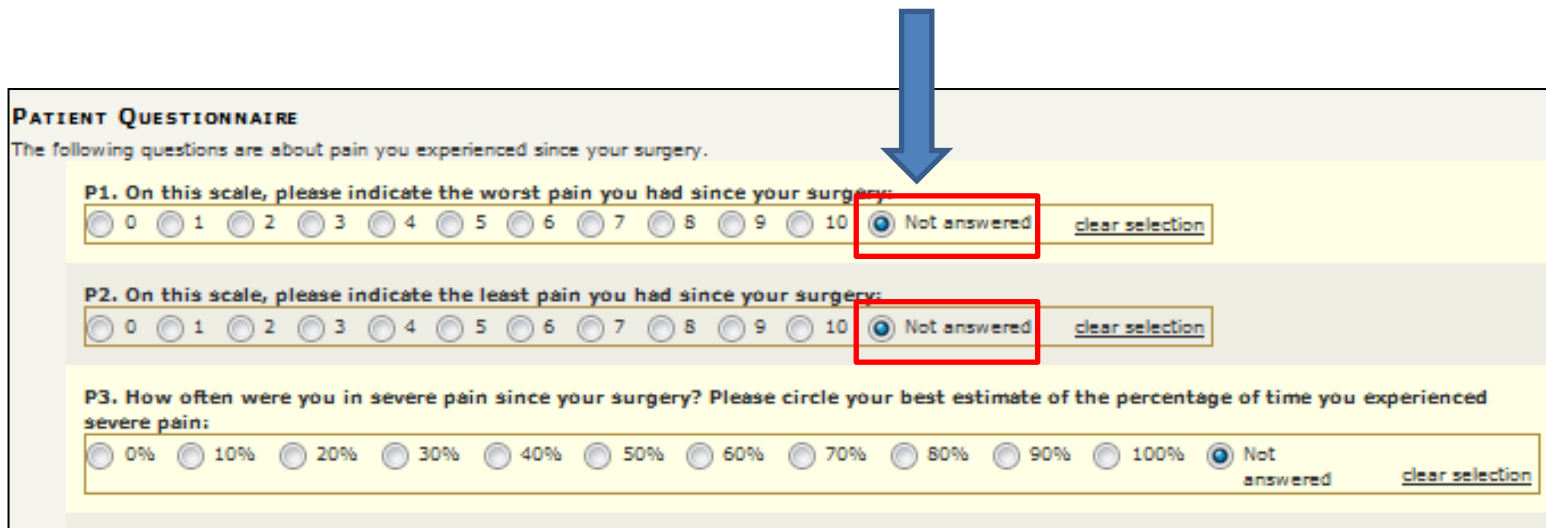
Save

Remember to SAVE while you work !
The system does not save the data automatically - it is up to you!



3.4. 'Not answered'

If a patient did fill in a reply to a particular question –mark this as 'not answered' when entering the data into the mask.



PATIENT 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 Not answered [clear selection](#)

P2. On this scale, please indicate the least pain you had since your surgery:
 0 1 2 3 4 5 6 7 8 9 10 Not answered [clear selection](#)

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% Not answered [clear selection](#)

3.5. Is least pain > maximal pain ?

At times patients misread 'worst' and 'least' pain and record the maximal score in 'least' and least in 'worst'.

The best way to address this mistake is to review the questionnaire when picking it up from the patient and asking him / her if this was intentional – if yes, leave; if not ask them to correct.

If you were unable to detect at an earlier stage – record as 'Not answered'.

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 Not answered [clear selection](#)

P2. On this scale, please indicate the **least pain** you had since your surgery:

0 1 2 3 4 5 6 7 8 9 10 Not answered [clear selection](#)

3.6 Data sets are open for **8 weeks**

Datasets are automatically closed **eight weeks** after they are created.

Once closed, you cannot edit them any longer (*).

-> Make sure you enter all data within this **8** week period.

(*) In the event that it is necessary to access a file to make corrections -> contact the PAIN OUT office and we will make the file accessible for editing.

This is a time consuming procedure – therefore, aim to make corrections within the **first 8 weeks** of creating a patient file.

3.7 Finding previously entered datasets

Change the date here



The screenshot shows a search interface with several filters. The 'Questionnaires' tab is active. The 'TIMESPAN' filter is highlighted with a red box and shows a value of '4' for the number of months, 'May' for the month, and '2016' for the year. To its right, another date filter shows '4', 'Jun', and '2016'. Below these are filters for 'Ward name' (set to 'all') and 'State' (set to 'all'). A blue 'Search' button is located in the bottom right corner.

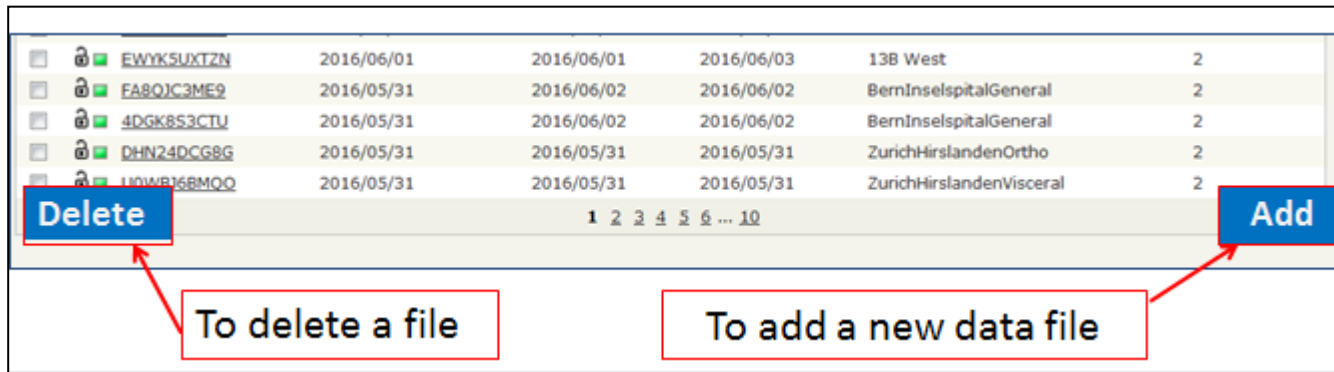
Sometimes people have trouble finding questionnaires they entered already.

In the 'Questionnaires' screen, increase the filter related to TIME SPAN '. The default time span is THREE months; data entered before this date will not appear.

Once you increase the TIMESPAN, you should see the data.

3.8 Gaining experience with data entry

When you start learning how to use the web-based mask, save and reopen one or two data sets that you inputted and check if the data was saved correctly. You can delete datasets if you find they are faulty.



The screenshot displays a table with the following data:

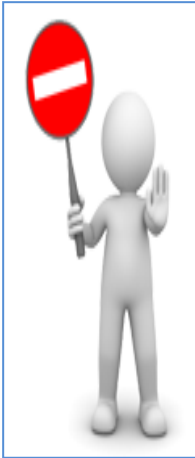
<input type="checkbox"/>		EWYK5UXTZN	2016/06/01	2016/06/01	2016/06/03	13B West	2
<input type="checkbox"/>		FA8QIC3ME9	2016/05/31	2016/06/02	2016/06/02	BernInselspitalGeneral	2
<input type="checkbox"/>		4DGK8S3CTU	2016/05/31	2016/06/02	2016/06/02	BernInselspitalGeneral	2
<input type="checkbox"/>		DHN24DCG8G	2016/05/31	2016/05/31	2016/05/31	ZurichHirlandenOrtho	2
<input type="checkbox"/>		LQWR168MQQ	2016/05/31	2016/05/31	2016/05/31	ZurichHirlandenVisceral	2

Below the table, there are two blue buttons: "Delete" on the left and "Add" on the right. A large red arrow points from the left towards the "Delete" button. Below the "Delete" button is a red-bordered box containing the text "To delete a file". Below the "Add" button is a red-bordered box containing the text "To add a new data file".

3.9 Please pay attention – enter data into the correct benchmark group [i]

When entering data, pay attention that you are entering it into the **correct** benchmark group.

The names of the wards Claudia will give you will be related to the specialty (=benchmark group) you will be collecting. e.g. orthopedics or gynecology or general surgery or urology.



For a patient undergoing an orthopedic procedure, enter his / her data **ONLY into the relevant benchmark group**, i.e. the orthopedic group.

Entering this data into gynecology benchmark group will result in **contaminating** that group with irrelevant data; you and your colleagues will not have reliable data for your own feedback and for benchmarking.

See next slide

3.9 Please pay attention – enter data into the correct benchmark group [i]

DATA COLLECTION

A DATE OF DATA COLLECTION:

B TIME OF DATA COLLECTION: [hh:mm]

C WARD WHERE DATA IS COLLECTED:

PATIENT CODE:

INVESTIGATOR'S CODE:

PROJECT PHASE:

EMAIL:

Orthopedics

Gynecology

Urology

230

240

330

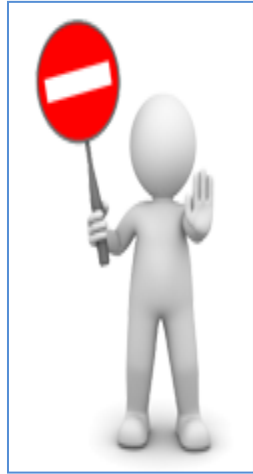
Data collected from a patient who underwent an orthopedic procedure, should be entered into the 'orthopedics' benchmark group. The same applies for gynecological procedures and other surgical specialties.

3.7 Please pay attention - **review all tabs** [ii]

Once you have finished entering data for one patient – **review all the tabs** to ascertain that all data elements have been inputted.

Missing data – i.e. cells which have been left empty, reduces quality of the data in the repository.

-> see next slide.



Missing data

Screening Demo. Inf. Med. History **Pre-Medication** Surgical Procedures Intra-Op. Treat.

[Close Questionnaire](#)

PRE - MEDICATION

M1 Sedatives (pre-medication)
 Yes none given not possible to obtain information [clear selection](#)

M2 Non-opioids (pre-medication)
 Yes none given not possible to obtain information [clear selection](#)

M3 Opioids & Clonidine (pre-medication)
 Yes none given not possible to obtain information [clear selection](#)

[Back to all questionnaires](#)

A blue arrow points from the 'Missing data' box to the 'PRE - MEDICATION' section. A red rounded rectangle highlights the M1, M2, and M3 sections, which are currently empty, indicating missing data.

3.7 Please pay attention **review entries in all tabs once you finish entering data for one patient and before going onto the next.**

[ii]

Missing data

M15 Measurement of pain

Was pain assessed & documented as defined in the SOP?
 Yes No not possible to obtain information [clear selection](#)

[Back to all questionnaires](#)

The questionnaire has been closed and cannot be edited or saved any longer.

A blue arrow points from the 'Missing data' box to the M15 section. A red rounded rectangle highlights the question and its options, which are currently empty, indicating missing data.

The first 10 data sets

- Once you have finished going over these slides, fill in the quiz.
- After this, you will be given access to the PAIN OUT tools (questionnaires, password, a code which identifies you, the 'Investigator Code')
- Collect & input 10 -15 datasets into the data entry mask
 - Make a list of all the **anonymized patient codes** & send them to Claudia
 - We will review these datasets and write back to you with feedback
 - Once OK, you can start collecting data routinely, based on the schedule of your network.

Questionnaires

Timespan: 3 Jun 2016 - 3 Jul 2016

Code:

Participant: all

State: all

<input type="checkbox"/> State	Code	Data collection	Created	Modified	Ward
<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> M26JINBPY2	2016/07/01	2016/07/01	2016/07/01	
<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> F1U8XRTYOK	2016/07/01	2016/07/01	2016/07/01	
<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> 048IR92SOF	2016/07/01	2016/07/01	2016/07/01	
<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> GDB75HEA62	2016/06/30	2016/07/01	2016/07/01	
<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> P9RVFDAGH7	2016/06/30	2016/07/01	2016/07/01	
<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> 06367JXSJ8	2016/06/30	2016/07/01	2016/07/01	
<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> R6PPZDX840	2016/06/30	2016/07/01	2016/07/01	
<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> W5Y2G5WD52	2016/06/30	2016/07/01	2016/07/01	
<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> WOG4CVVNBE	2016/06/30	2016/06/30	2016/06/30	

Anonymized patient codes:

Accessing the QUIZ

1. Go to the PAIN OUT home page: www.pain-out.eu
2. Scroll to the bottom of the page, select 'QUIZ'



3. Your answers will be sent to the PAIN OUT team. We will write back to you with feedback.

Timeline for the project in the South Africa PAIN OUT network. **REVISED Jan 2021**

Month of project	Month	Activity
~ 0-8	Complete by end of July 2021	Administrative preparations for joining the project.
		2-3 surveyors from each hospital will submit a quiz AND 10-15 practice datasets AND they will be assessed AND corrected, as necessary
1		Kick off meeting
2 – 7	August 2021 – Feb 2022	<ul style="list-style-type: none"> Surveyors collect BASELINE DATA PIs carry out descriptive analysis of the findings (assisted by the network leader, PAIN OUT).
	March 2022	Mid-term workshop
7 - 10	April 2022 – June 2022	Staff discuss options for quality improvement measures with the local working groups; carry out the necessary preparations for implementing the measures
11 -17	July – Dec 2022	POST INTERVENTION DATA COLLECTION.
18 - 22	Jan – Feb 2023	Analysis of findings and preparations for the summary workshop.
23 or 24	April 2023	Summary workshop

Request that project completion is deferred to 30 April 2023

Thank you for your time.

If you have questions about anything related to the quiz or the project – please contact us.

We hope you will find that participating in the South African network of PAIN OUT will be useful to you and to your patients.

April 2019 updates include:

- Section 1.4, p 18 – Schematic updated
- Section 2.10, p 38 – Days of week for collecting data
- Section 2.20, p 50-51 – Blank fields
- Section 2.23, p 54 – Comorbidities
- Section 2.36, p 69 – Inhalational anesthesia vs TIVA
- Section 2.45, p 78 – Measurement of pain – variables changed

January 2021 update:

Project schedule