



CUSTOMIZING YOUR MACSTRAK FORM – OPTIONAL GROUPS AND FIELDS

THE ER PHASE

Each cardiac unit has specific issues or questions that they would like to track. The Macstrak data collection form has been designed so that it may be customized to meet these needs.

Each the three phases has sections on their form that can be customized. There are Optional Groups as well as Optional Fields and/or Optional Course Fields. By dedicating one of these areas to an issue your centre wants to measure, and marking off the associated box, your centre will be collecting its own data and will received special quarterly reports summarizing the data.

Data is reported differently depending on whether you use Optional Groups or Optional Fields. Optional Groups are useful for tracking patient types (e.g. smoker, diabetics etc.). Optional Fields are of two types: Optional Fields and Optional Course Fields. Optional Fields are useful for tracking patient-specific issues where as Optional Course Fields, found in the Course in CCU or Course in Ward sections, record time-specific issues. Only the Optional Groups are reported back as columns of a report while both the Groups and Fields are reported as rows of a report.

Basic Step for Initiating Optional Groups/Fields

1. Choose an issue or question to be tracked.
2. Understanding how information is going to be reported back (see sections below), choose whether an Optional Group or Field would better represent your data needs. Several Fields can be used concurrently to provide a complete overview of an issue. The Macstrak Project Office is available to help you set up your Groups and Fields.
3. Determine the length of time for which an issue should be tracked. As data is reported on a quarterly basis, it is important only to make any changes to the definitions of your Optional Groups and Fields at the beginning of a new quarter. You may choose to follow an issue for one quarter, implement a change, and then follow the same issue for a second quarter for comparative purposes. (One-month intervals are also available on your MacsFlirt data disk should you want to look at the monthly trends.)
4. In-service your staff. Explain why this is an issue/question you wish to track. Explain where on the form the issue is to be recorded. Decide on a way to remind nursing staff of Field labels – write them on the form, pre-printed labels added to the form, or one-page sheet listing Group/Field definitions posted at the bed-side.
5. Start data collection at the beginning of a quarter.

The ER Phase

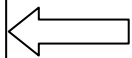
The ER forms has three **Optional Groups**, labeled Grp1, Grp2 and Grp3, listed in the top right corner of the Presentation Profile section and nine **Optional Fields**, labeled Fld1 through Fld9, at the bottom of the Course in ER section.

ER - Optional Groups

As mentioned above, the **Optional Groups** are useful for collecting data on different types, or as the label suggests, groups of patients. This could include categorizing patients by demographic groups (age >75 years), co-morbidities groups (diabetes, obesity or hypertension) or other such designations.

For example, a centre wants to look at how a language barrier affects outcomes and length of stay. They would begin by assigning Grp1 and Grp2 to the two different patient types: language barrier and no language barrier. By using both definitions, all patients should be captured; there should be a mark in one of the two boxes for every patient. A form with no Optional Groups marked will be reported as missing data. The labels can be written in by hand, stamped with a pre-made rubber stamp, or filled in with peel-and-stick printed labels. Please ensure that markings do not extend into data boxes. Another option is to print the group descriptions on a sheet of paper and post them at the bedside. Included at the end of this section is a sheet that can be used for this purpose.

Presentation Profile:		Completed by: <input style="width: 50px;" type="text"/>																			
Presenting Problem: (all) <input type="checkbox"/> Chest Pain <input type="checkbox"/> Dyspnea <input type="checkbox"/> Palpitations <input type="checkbox"/> Syncope <input type="checkbox"/> Arrest/Post Arrest <input type="checkbox"/> Other:.....	Transport: <input type="checkbox"/> EMS <input type="checkbox"/> Non EMS	Triage (Initial): <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> Level 5	Optional Groups: <input checked="" type="checkbox"/> Grp1: <i>barrier</i> <input type="checkbox"/> Grp2: <i>no barrier</i> <input type="checkbox"/> Grp3:.....																		
Vital Signs: <input type="checkbox"/> VS Absent Syst. BP: <input type="checkbox"/> < 100 <input type="checkbox"/> 101-130 <input type="checkbox"/> 131-160 <input type="checkbox"/> 161-190 <input type="checkbox"/> >190	Dyspnea/Rales: <input type="checkbox"/> None <input type="checkbox"/> Mild <input type="checkbox"/> Mod/Severe	Chest Pain <i>(Probable ischemia only)</i> Present On Arrival <input type="checkbox"/> Yes <input type="checkbox"/> No Other: Prior to ER 0-6 hrs.* <input type="checkbox"/> Yes <input type="checkbox"/> No Prior to ER 6-24 hrs. <input type="checkbox"/> Yes <input type="checkbox"/> No Prior to ER 1-7 days <input type="checkbox"/> Yes <input type="checkbox"/> No <small>* (do not include the episode of pain recorded in Present On Arrival) *(>15 mins)</small>	<table border="0" style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">Episode</td> <td style="text-align: center;">Prolonged*</td> </tr> <tr> <td></td> <td style="text-align: center;">Yes No</td> <td style="text-align: center;">Yes No</td> </tr> <tr> <td>Present On Arrival</td> <td style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></td> </tr> <tr> <td>Other: Prior to ER 0-6 hrs.*</td> <td style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></td> </tr> <tr> <td> Prior to ER 6-24 hrs.</td> <td style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></td> </tr> <tr> <td> Prior to ER 1-7 days</td> <td style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></td> </tr> </table>		Episode	Prolonged*		Yes No	Yes No	Present On Arrival	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	Other: Prior to ER 0-6 hrs.*	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	Prior to ER 6-24 hrs.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	Prior to ER 1-7 days	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	Episode	Prolonged*																			
	Yes No	Yes No																			
Present On Arrival	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>																			
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Prior to ER 1-7 days	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>																			
HR: <input type="checkbox"/> < 60 <input type="checkbox"/> 61-80 <input type="checkbox"/> 81-100 <input type="checkbox"/> >100	Diagnostic ECG: (ACS pts. only) ST↑ ST↓ T↓ Q <input type="checkbox"/> No ACS ST-T <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> LBBB <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Paced <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> V ₁₋₄ <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> V ₅₋₆ <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> IaVL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> II/IIIaVF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> V _{4R} ..done <input type="checkbox"/> .. <input type="checkbox"/> V _{7,9} ..done <input type="checkbox"/> .. <input type="checkbox"/>																				



MACSTRAK ER Optional Groups Activity Report January 1, 2009 to March 31, 2009

Centre(s): XXX

Printed 30-Apr-2009		OptGrp1	OptGrp2	OptGrp3	None
Patients		37	110	0	17
Form Version	Current	37	110	0	17
Age	Average (yrs.)	73	68	0	70
	< 60 yrs.	4 (10.8)	39 (35.5)	0	2 (11.8)
	60-75 yrs.	22 (59.5)	63 (57.3)	0	11 (64.7)
	> 75 yrs.	11 (29.7)	24 (21.2)	0	4 (23.5)
	Missing	0	0	0	0

The Optional Group Activity report is a 2-page report based on the ER Activity report, the only difference being the column headings. In the Optional Group Activity Report, the optional groups make up the column heading.

Above is a section of the report filled in with data collected by our centre. The “OptGrp1” column represents those patients who had a language barrier and the “OptGrp2” column represents those patients with no language barrier. The “OptGrp3” was not used. The “None” column indicates that 17 patients did not have Group 1 or 2 marked. For this tracking project these 17 patients should be considered as Missing data. As there is about than 10% missing data ($\text{None} / [\text{Patients OptGrp1} + \text{Patients OptGrp2}]$) the report should be a good measure of the issue. About 25 % of these patients have a language barrier ($\text{Patients OptGrp1} / [\text{Patients OptGrp1} + \text{Patients OptGrp2}]$), and the report also let the centre know that the people with a language barrier represent a slightly older population.

ER – Optional Course Fields

Also included in the ER form are **Optional Fields**, in the Course in ER section. These optional fields can be used to track any information relating to acuity or ACS management or any other issue pertaining to your hospital. A small hospital that discharges patients from the ER to 5 or 6 other hospitals might want to track which hospital patients are going to in order to get a clear picture of their referral patterns. Only one optional field per patient would be marked. The data is reported back to you as rows in the Optional Field by Presentation report.

Course in ER:		Completed by: <input style="width: 50px;" type="text"/>
<p><u>Acuity:</u> (all)</p> <input type="checkbox"/> Persistent Ischemia in ED <input type="checkbox"/> Recurrent Ischemia in ED <input type="checkbox"/> Repeat ECG(s) <input type="checkbox"/> First Troponin (+ve) <input type="checkbox"/> First CK (+ve) <input type="checkbox"/> Repeat Troponin (+ve) <input type="checkbox"/> Repeat CK (+ve) <input type="checkbox"/> Diuretic IV <input type="checkbox"/> Inotrope IV <input type="checkbox"/> ETT/Vent <input type="checkbox"/> COPD <input type="checkbox"/> Defib <input type="checkbox"/> CPR <input type="checkbox"/> Consultation <input type="checkbox"/> None of the Above <p><u>Optional Fields:</u></p> <input type="checkbox"/> Fld1: <i>Hospital 1</i> <input type="checkbox"/> Fld2: <i>Hospital 2</i> <input type="checkbox"/> Fld3: <i>Hospital 3</i>	<p><u>ACS Management:</u> (all)</p> <input type="checkbox"/> ASA <input type="checkbox"/> Heparin UFH <input type="checkbox"/> Heparin LMWH <input type="checkbox"/> Clopidogrel (or ticlopidine) <input type="checkbox"/> GP2b/3a Inhibitor IV <input type="checkbox"/> Other Antithrombin <input type="checkbox"/> NTG IV <input type="checkbox"/> NTG <input type="checkbox"/> β Blocker IV <input type="checkbox"/> β Blocker po <input type="checkbox"/> Calcium Antagonist (any) <input type="checkbox"/> ACEI <input type="checkbox"/> A2 Blocker <input type="checkbox"/> Research Protocol <input type="checkbox"/> None of the Above <p><input type="checkbox"/> Fld4: <i>Hospital 4</i>..... <input checked="" type="checkbox"/> Fld5: <i>Hospital 5</i>..... <input type="checkbox"/> Fld6: <i>Hospital 6</i>.....</p>	<p><u>Reperfusion Therapy:</u></p> <input type="checkbox"/> Thrombolysis by: <input type="checkbox"/> EMS <input type="checkbox"/> Here Drug: <input type="checkbox"/> TNK/rtPA <input type="checkbox"/> SK (streptokinase) <input type="checkbox"/> r-PA (reteplase) <input type="checkbox"/> Other Dose: (Total) <input style="width: 50px;" type="text"/> Duration: (mins.) <input style="width: 50px;" type="text"/> <input type="checkbox"/> Primary/Rescue PCI <input type="checkbox"/> Here <input type="checkbox"/> Transfer Reperfusion Therapy Decided by: <input type="checkbox"/> EP <input type="checkbox"/> Consultant <input type="checkbox"/> Fld7: <input type="checkbox"/> Fld8: <input type="checkbox"/> Fld9:



MACSTRAK ER Optional Field by Presentation Report January 1, 2009 to March 31, 2009

Centre(s): XXX

Printed 30-Apr-2009		Chest Pain	Dyspnea	Other	Total
Patients		25	40	35	100
Optional Fields	Opt Fld 1	0	2 (5.0)	0	2 (2.0)
	Opt Fld 2	12 (48.0)	3 (7.5)	3 (8.6)	18 (18.0)
	Opt Fld 3	0	1 (2.5)	0	1 (1.0)
	None of 1 to 3	13 (52.0)	34 (85.0)	32 (91.4)	79 (79.0)
Optional Fields	Opt Fld 4	0	5 (12.5)	3 (8.6)	8 (8.0)
	Opt Fld 5	0	5 (12.5)	0	5 (5.0)
	Opt Fld 6	13 (52.0)	6 (15.0)	4 (11.4)	23 (23.0)
	None of 4 to 6	12 (48.0)	23 (57.7)	28 (80.0)	63 (63.0)

This report categorizes the Optional Fields by the presenting problem. Optional Fields 1- 6 correspond to the hospitals assigned on the form as follows: “Fld1” Hospital 1, “Fld 2” Hospital 2, “Fld 3” Hospital 3, “Fld 4” Hospital 4, “Fld 5” Hospital 5, and “Fld 6” Hospital 6. “None of 1 to 3” and “None of 4 to 6” reflects the number of patients who did not have an Optional Field marked in that group of three allowing you use group your Optional Fields into sets of three to track three distinct ideas should you choose to do so. The chest pain population is being transferred to two larger hospitals while some dyspnea patients are being transferred out but to a broader range of hospitals. The data also indicates that less than one third of the ‘Other’ population is being transferred to another hospital.

The example above represents just one section of the report. With your centre’s Optional Group Activity Report, you will be able to look at your patient groups by demographics (age, gender), their presentation profiles, levels of acuity and discharge information.

Please use the form on the next page to help establish and keep track of the Optional Groups and Fields being used for a given time period.



ER OPTIONAL GROUPS AND FIELDS

Labels to be used for the following time period:

_____ to _____

Grp1 _____

Grp2 _____

Grp3 _____

Fld1 _____

Fld2 _____

Fld3 _____

Fld4 _____

Fld5 _____

Fld6 _____

Fld7 _____

Fld8 _____

Fld9 _____