



# CUSTOMIZING YOUR MACSTRAK FORM – OPTIONAL GROUPS AND FIELDS

## THE WARD 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 bedside.
5. Start data collection at the beginning of a quarter.

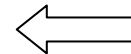
## The Ward Phase

The **Ward** form has three **Optional Groups**, labeled Grp1, Grp2 and Grp3, listed in the top right corner of the Presentation Profile section, six **Optional Fields**, labeled Fld1 through Fld6, at the bottom of the Presentation Profile section, and 8 **Optional Course Fields**, labeled Crs1 through Crs8, near the bottom of the Course in Hospital section.

### Ward – 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), or co-morbidities groups (diabetes, obesity or hypertension). For example, a centre wants to look at the effects of language barriers. They would begin by assigning the 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 would 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.

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## MACSTRAK Ward Optional Groups Activity Report July 1, 2008 to September 30, 2008

Centre(s): XXX

Printed 27-Nov-2008		OptGrp1	OptGrp2	OptGrp3	None
Admissions		25	100	0	0
LOS (Ward)	Average (days)	6	4 (4.0)	0	0
	< or = 4	3 (12.0)	69 (69.0)	0	0
	5 to 10 Days	17 (68.0)	20 (20.0)	0	0
	11 to 14 Days	4 (16.0)	6 (6.0)	0	0
	>14 Days	1 (4.0)	5 (5.0)	0	0
	Missing	0	0	0	0

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

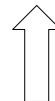
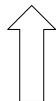
Above is a section of the report filled in with data collected by our centre. The “Grp1” column represents those patients who had a language barrier and the “Grp2” column represents those patients with no language barrier. Those forms in which neither box is marked will be counted in the fourth column marked “None”. Patient with a language barrier represented 20% of the patient population ( $\text{Grp1 Admissions} / [\text{Grp1 Admissions} + \text{Grp2 Admissions}]$ ) in third quarter. As well, these patients also tend to have a longer length of stay; 20% of patients with a language barrier stay in hospital for longer than 10 days while only 11% of patients with no language barrier stay that long.

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.

## Ward – Optional Fields

Also included in the Presentation Profile section of the Ward form are **Optional Fields**. These Optional Fields can be used to track any information relating to non-time sensitive issues pertaining to your hospital. As well, these Fields can be used to track set time intervals. For instance, if a centre wanted to track how long a patient waited for a PCI, they could assign the intervals 1 day or less, 2 days, 3 days, 4 to 6 days, > 6 days, and no PCI.

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<b>Admitting Diagnosis:</b> (Check one only) <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"><input type="checkbox"/> Acute MI</td> <td rowspan="4" style="font-size: 2em; vertical-align: middle;">}</td> <td rowspan="4" style="vertical-align: middle;">ACS</td> </tr> <tr> <td><input type="checkbox"/> UA R/O MI</td> </tr> <tr> <td><input type="checkbox"/> UA</td> </tr> <tr> <td><input type="checkbox"/> RSCP NYD</td> </tr> <tr> <td><input type="checkbox"/> CHF</td> <td rowspan="5" style="font-size: 2em; vertical-align: middle;">}</td> <td rowspan="5" style="vertical-align: middle;">Non ACS</td> </tr> <tr> <td><input type="checkbox"/> Arrhythmia</td> </tr> <tr> <td><input type="checkbox"/> Aortic Dissection</td> </tr> <tr> <td><input type="checkbox"/> Pericardial Disease</td> </tr> <tr> <td><input type="checkbox"/> Other: .....</td> </tr> <tr> <td><input type="checkbox"/> Elective: .....</td> <td colspan="2"></td> </tr> </table>	<input type="checkbox"/> Acute MI	}	ACS	<input type="checkbox"/> UA R/O MI	<input type="checkbox"/> UA	<input type="checkbox"/> RSCP NYD	<input type="checkbox"/> CHF	}	Non ACS	<input type="checkbox"/> Arrhythmia	<input type="checkbox"/> Aortic Dissection	<input type="checkbox"/> Pericardial Disease	<input type="checkbox"/> Other: .....	<input type="checkbox"/> Elective: .....			<b>ACS:</b> <input type="checkbox"/> No <input type="checkbox"/> Yes <b>If Yes→</b> <b>Chest Pain:</b> <i>(Probable ischemia only)</i> <table style="width: 100%; border: none;"> <tr> <td></td> <td colspan="2" style="text-align: center; font-size: small;">Episodes</td> <td colspan="2" style="text-align: center; font-size: small;">Prolonged*</td> <td colspan="3" style="text-align: center; font-size: small;">Troponin</td> </tr> <tr> <td></td> <td style="text-align: center; font-size: x-small;">Yes</td> <td style="text-align: center; font-size: x-small;">No</td> <td style="text-align: center; font-size: x-small;">Yes</td> <td style="text-align: center; font-size: x-small;">No</td> <td style="text-align: center; font-size: x-small;">NotDone</td> <td style="text-align: center; font-size: x-small;">Pos</td> <td style="text-align: center; font-size: x-small;">Neg</td> </tr> <tr> <td>Prior to Ward 0-6 hrs .....</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Prior to Ward 6-24 hrs .....</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Prior to Ward 1-7 days .....</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table> <p style="text-align: right; font-size: x-small;">* (&gt; 15 min)</p>		Episodes		Prolonged*		Troponin				Yes	No	Yes	No	NotDone	Pos	Neg	Prior to Ward 0-6 hrs .....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Prior to Ward 6-24 hrs .....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Prior to Ward 1-7 days .....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<b>Ward Admit ECG:</b> <input type="checkbox"/> No ACS ST-T <input type="checkbox"/> LBBB <input type="checkbox"/> Paced <input type="checkbox"/> Other →	<table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center; font-size: small;">ST↑</td> <td style="text-align: center; font-size: small;">ST↓</td> <td style="text-align: center; font-size: small;">T↓</td> <td style="text-align: center; font-size: small;">Q</td> </tr> <tr> <td>V<sub>1-4</sub> .....</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>V<sub>5-6</sub> .....</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>I/aVL .....</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>II/III/aVF .....</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>		ST↑	ST↓	T↓	Q	V <sub>1-4</sub> .....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	V <sub>5-6</sub> .....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I/aVL .....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	II/III/aVF .....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																															
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<b>Optional Fields:</b> <input type="checkbox"/> Fld1: 1 day or less .....	<input type="checkbox"/> Fld4: 4 to 6 days .....																																																								
<input type="checkbox"/> Fld2: 2 days .....	<input type="checkbox"/> Fld5: > 6 days .....																																																								
<input checked="" type="checkbox"/> Fld3: 3 days .....	<input type="checkbox"/> Fld6: no PCI .....																																																								



**MACSTRAK Ward Optional Field ACS Report**  
**July 1, 2008 to September 30, 2008**

Centre(s): XXX

Printed 27-Nov-2008		ACS MI	ACS U/A	Non-ACS	Total
Admissions		30	45	50	125
Optional	Optional Field 1	4 (14.3)	0	0	4 (3.5)
	Optional Field 2	6 (21.4)	0	0	6 (5.3)
	Optional Field 3	2 (7.1)	0	0	2 (1.8)
	Optional Field 4	3 (10.7)	2 (5.3)	0	5 (4.4)
	Optional Field 5	0	1 (2.6)	0	1 (0.9)
	Optional Field 6	13 (46.4)	35 (92.1)	47 (100.0)	91 (80.5)
	Optional Fields None	2 (6.7)	7 (15.6)	3 (13.0)	12 (9.6)

This report categorizes the Optional Fields by the admit diagnosis. Optional Fields 1- 6 correspond to the intervals assigned on the form as follows: “Optional Field 1” 1 day or less, “Optional Field 2” 2 days, “Optional Field 3” 3 days, “Optional Field 4” 4 to 6 days, “Optional Field 5” > 6 days, and “Optional Field 6” no PCI. “Optional Field None” reflects the number of patients who did not have an Optional Field marked and is therefore considered Missing. For this report, only 9.6 % of patients have Missing data and the issue should be well measured. AMI patients are getting early PCI’s but UA patients are occupying beds for several days.

Please use the form at the end of this document to help establish and keep track of the Optional Groups and Fields being used for a given time period.

Also included in the Ward form are **Optional Course Fields**, in the Course in Hospital section. The first four of these Fields are measured on a time basis, and are therefore useful for time sensitive issues such as when drugs were prescribed. The second set of four optional course fields can be used to capture data on the patient's stay in the ward. Any combination of these Fields can be used. If a hospital wanted to track if the patient was under the care of a cardiologist they could assign Crs1 cardiologist and Crs2 no cardiologist. A patient may have both Crs1 and Crs2 marked off on the same form. For instance, if the patient arrived at the hospital and previously had not had a cardiologist following them, then Crs2 PTA would be marked. The patient would then have a cardiologist review their case in the ER or CCU (PTW), in the Ward and may be booked for follow up with a cardiologist on discharge.

<b>Course in Hospital:</b>						
<b>Drugs:</b>	PTA	PTW	Ward	Disch	<b>Events:</b>	Ward
ASA.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Telemetry.....	<input type="checkbox"/>
Coumadin.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RSCP - ischemia - definite.....	<input type="checkbox"/>
Heparin UFH.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- probable.....	<input type="checkbox"/>
Heparin LMWH.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Code.....	<input type="checkbox"/>
Clopidogrel (or ticlopidine).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sustained SVT (no code).....	<input type="checkbox"/>
GP 2b/3a Inhibitor (IV).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sustained VT (no code).....	<input type="checkbox"/>
Other Antithrombin.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CVA* <sup>(1)</sup> .....	<input type="checkbox"/>
Oral Hypoglycemic.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Major Bleed* <sup>(2)</sup> .....	<input type="checkbox"/>
Insulin.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Transfusion.....	<input type="checkbox"/>
Statin.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Coronary Angiography.....	<input type="checkbox"/>
Other Antilipid.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PCI.....	<input type="checkbox"/>
Bronchodilator.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exercise Test.....	<input type="checkbox"/>
Digoxin.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exercise Test with image.....	<input type="checkbox"/>
Any Antiarrhythmic.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drug Stress Test with image.....	<input type="checkbox"/>
Calcium Antag.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Echocardiogram.....	<input type="checkbox"/>
ACEI.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RNA for LVEF.....	<input type="checkbox"/>
A2 blocker.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LVEF < 40% (nuc/echo).....	<input type="checkbox"/>
Other Vasodilator.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other Cardiac Imaging.....	<input type="checkbox"/>
Diuretic.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Non Cardiac Imaging.....	<input type="checkbox"/>
Nitrates top/oral.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Research (randomised).....	<input type="checkbox"/>
Nitrates IV.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
β Blocker - Any.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
β Blocker - Carvedilol.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Study Drug - antiplatelet.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
- antithrombin.....	<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"/>		
Smoking.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
HRT.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Optional Fields:						
Crs1: <i>cardiologist</i> .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Crs5:.....	<input type="checkbox"/>
Crs2: <i>no cardiologist</i> .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Crs6:.....	<input type="checkbox"/>
Crs3:.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Crs7:.....	<input type="checkbox"/>
Crs4:.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Crs8:.....	<input type="checkbox"/>

## MACSTRAK Ward Optional Field ACS Report July 1, 2008 to September 30, 2008

Centre(s): XXX

Printed 27-Nov-2008		ACS MI	ACS U/A	Non-ACS	Total
Admissions		30	45	50	125
Optional	Optional Group 1	10 (33.3)	6 (13.3)	9 (18.0)	25 (20.0)
	Optional Group 2	20 (66.7)	39 (86.7)	41 (82.0)	100 (80.0)
	Optional Group 3	0	0	0	0
	Optional Groups None	0	0	0	0
PTA Drugs	Admissions	30	45	50	125
	Crs1	7 (23.3)	12 (26.7)	10 (20.0)	29 (23.2)
	Crs2	23 (76.7)	33 (73.3)	40 (80.0)	96 (76.8)
	Crs3	0	0	0	0
	Crs4	0	0	0	0
	Missing	0	0	0	0
PTW Drugs	Admissions	30	45	40	115
	Crs1	25 (83.3)	29 (64.4)	21 (52.5)	75 (65.2)
	Crs2	5 (16.7)	16 (35.6)	19 (47.5)	40 (34.8)
	Crs3	0	0	0	0
	Crs4	0	0	0	0
	Missing	0	0	0	0
Ward Drugs	Admissions	30	45	50	125
	Crs1	22 (73.3)	20 (44.4)	21 (42.0)	63 (54.9)
	Crs2	8 (26.7)	25 (55.6)	29 (58.0)	62 (45.2)
	Crs3	0	0	0	0
	Crs4	0	0	0	0
	Missing	0	0	0	0
Ward Events	Admissions	30	45	50	125
	Crs5	0	0	0	0
	Crs6	0	0	0	0
	Crs7	0	0	0	0
	Crs8	0	0	0	0
Disch Drugs	Admissions	30	45	50	125
	Crs1	22 (73.3)	20 (44.4)	21 (42.0)	63 (54.9)
	Crs2	8 (26.7)	25 (55.6)	29 (58.0)	62 (45.2)
	Crs3	0	0	0	0
	Crs4	0	0	0	0
	Missing	0	0	0	0

“Crs1” refers to a patient under the care of a cardiologist and “Crs2” indicates the patient was not under the care of a cardiologist. This data is reported by admit diagnosis. The “Missing” row will reflect that there was nothing marked in the whole column – including RN initials. Most ACS patients did not have a cardiologist prior to admission, most were under the care of a cardiologist in CCU prior to the Ward and during their Ward stay, and most were discharged to cardiology follow-up.



## WARD OPTIONAL GROUPS AND FIELDS

Labels to be used for the following time period:

\_\_\_\_\_ to \_\_\_\_\_

Grp1 \_\_\_\_\_

Grp2 \_\_\_\_\_

Grp3 \_\_\_\_\_

Fld1 \_\_\_\_\_

Fld2 \_\_\_\_\_

Fld3 \_\_\_\_\_

Fld4 \_\_\_\_\_

Fld5 \_\_\_\_\_

Fld6 \_\_\_\_\_

Crs1 \_\_\_\_\_

Crs2 \_\_\_\_\_

Crs3 \_\_\_\_\_

Crs4 \_\_\_\_\_

Crs5 \_\_\_\_\_

Crs6 \_\_\_\_\_

Crs7 \_\_\_\_\_

Crs8 \_\_\_\_\_