



CUSTOMIZING YOUR MACSTRAK FORM – OPTIONAL GROUPS AND FIELDS

THE CCU 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 following sections will give examples of how to track unit specific issues and how they will be reported back to your centre.

The CCU Phase

The **CCU** form has two **Optional Groups**, labeled Grp1 and Grp2, at the bottom of the ACS Initial Management section. As well, there are two **Optional Course Fields**, labeled Crs1 and Crs2, found toward the bottom of the Course in CCU section.

CCU - 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.

ACS Initial Management: (All ACS pts.)		Completed by:	<input type="text"/>
Reperfusion Therapy:			
<input type="checkbox"/> No→	<input type="checkbox"/> Not Indicated:→	<input type="checkbox"/> ECG Not Diag.	<input type="checkbox"/> ST Up Transient
	<input type="checkbox"/> Risk:	→ <input type="checkbox"/> Risk of ICB	<input type="checkbox"/> Risk Other Bleed
		<input type="checkbox"/> Too Late	<input type="checkbox"/> Given (Other Hosp)
<input type="checkbox"/> Yes→	<input type="checkbox"/> Thrombolysis →	<input type="checkbox"/> Here	<input type="checkbox"/> EMS
		<input type="checkbox"/> Other Hosp	
	Drug:	Dose: (mg/units)	TLysis Ordered:
	<input type="checkbox"/> TNK/rtPA	<input type="text"/>	<input type="text"/>
	<input type="checkbox"/> SK	Duration: (min)	TLysis Started:
	<input type="checkbox"/> r-PA (reteplase)	<input type="text"/>	<input type="text"/>
	<input type="checkbox"/> Other	Pt.Weight: (kg)	
	Adjuvant:	<input type="checkbox"/> ASA	<input type="checkbox"/> Heparin
		<input type="checkbox"/> GP2b/3a Inhibitor	GP2b/3a Started:
		<input type="checkbox"/> β blocker IV	<input type="text"/>
		<input type="checkbox"/> Clopidogrel	<input type="checkbox"/> Other
and/or	<input type="checkbox"/> Primary/Rescue PCI →	<input type="checkbox"/> Here	<input type="checkbox"/> Transfer
			Transfer: (Departure)
			<input type="text"/>
	Reperfusion Therapy Decided by:	<input type="checkbox"/> EP	<input type="checkbox"/> Consultant
			Arrive Lab:
			<input type="text"/>
Optional Groups:	<input checked="" type="checkbox"/> Grp1: barrier.....	<input type="checkbox"/> Grp2: .. no barrier.....	First Inflation:
			<input type="text"/>



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

Centre(s): XXX

Printed 27-Nov-2008		Grp1	Grp2	Both	Neither
Admissions		20	84	0	9
LOS (Ward)	Average (days)	6	4	0	5
	1 Day	0	11 (13.1)	0	0
	2 Days	0	13 (15.5)	0	1 (11.1)
	3 Days	4 (20.0)	27 (32.1)	0	2 (22.2)
	4 to 7 Days	12 (60.0)	30 (35.7)	0	5 (55.6)
	>7 Days	4(20.0)	3 (3.6)	0	1 (11.1)
	Missing	0	0	0	0

The Optional Group Activity report is a 2-page report based on the CCU 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. If any forms had both barrier and no barrier marked, the data for those patients would appear in the “Both” column. The “Neither” column indicates that 9 patients did not have Group 1 or 2 marked, therefore these 9 patients should be considered as Missing data. As there is less than 10% missing data the report should be a good measure of the issue. About 20% (Grp1 Admissions / [Grp1 Admissions + Grp2 Admissions]) of these patients have a language barrier. 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 7 days while only 3.6% 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.

CCU – Optional Course Fields

Also included in the CCU form are **Optional Course Fields** found at the bottom of the Course in CCU section of the form. Because these fields are measured on a per shift basis, they are useful for tracking time issues such as delays in transfer or waits for procedures. To track how many patients are staying in the CCU longer because of bed-space issues, dedicate one of the Course Optional Fields, in this case Crs1, and mark off the box for each shift for which the transfer orders have been written but the patient still remains in the CCU. The two fields could be for different units (i.e. Crs1=ward and Crs2=CV surgery) or for transfer to other hospitals (i.e. Crs1=Hospital X and Crs2=Hospital Y).

Course in CCU:		Page <input type="text"/> of <input type="text"/>												
Acuity:	Date:	D		N		D		N		D		N		Office
	Shift:													
Diuretics		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Inotropes IV		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ETT/Vent		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PA Line		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TTVP		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IABP		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ACS:														
RSCP - Ischemia - Definite.....		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
- Probable.....		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CK (+ve)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Troponin (+ve)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NTG IV		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Heparin - UFH		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
- LMWH		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other Antithrombin		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
GP 2b/3a Inhibitor IV		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Clopidogrel (or ticlopidine)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cardiac Cath		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PCI		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Outcomes:														
VF/Sustained VT		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Infarction (new/repeat) ^{*(1)}		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Thrombolysis (new/repeat) ^{*(2)}		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Stroke ^{*(3)}		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Major Bleed ^{*(4)}		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Transfusion		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Crs1: <i>Transfer Orders</i>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Crs2:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
None of the Above		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
RN Initials		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

MACSTRAK CCU 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	41	32	103
Crs1	Patients	4 (13.3)	21 (51.2)	10 (31.3)	35 (34.0)
	Shifts	16	43	30	89
Crs2	Patients	0	0	0	0
	Shifts	0	0	0	0
Optional Groups	Group 1	0	0	0	0
	Group 2	0	0	0	0
	Both Grp1 and Grp2	0	0	0	0
	Either Grp1 and Grp2	0	0	0	0
	Neither Grp1 and Grp2	30 (100.0)	41 (100.0)	32 (100.0)	103 (100.0)

“Crs1” represents patients who had transfer orders written but were still in the CCU waiting for a bed. In the report you will find both a count of individual patients who waited to be transferred (Patients) as well as the total number of shifts during which patients were waiting (Shifts). This information is reported by admit diagnosis and total. In this quarter, 35 (34%) patients waited for transfer. As well, these patients waiting for transfer occupied beds for a total of 89 shifts. “Crs2” was not used and therefore no data is reported in those rows.

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.



CCU OPTIONAL GROUPS AND FIELDS

Labels to be used for the following time period:

_____ to _____

Grp1 _____

Grp2 _____

Crs1 _____

Crs2 _____