

Supplement I – R Code Template for Daily Patient Cohort Randomization

```
#Load Necessary Libraries
library(RCurl)
library(readr)

#Set your file path to the folder where BOR report is stored
setwd("D:/Data/Documents/Temp Work computer/FU Phone Call/Randomization")

#Will upload BOR csv corresponding to today's date
filename <- paste("discharge_report_",format(Sys.Date(), "%m-%d-%Y"),".csv", sep = "")
filename <- paste("discharge_report_", Sys.Date(),".csv", sep = "")
data <- read.csv(file = filename)

#Sets a seed based on today's date for reproducibility
set.seed(floor(as.numeric(Sys.Date())^1.5))

#Samples a random 1/2 of rows to be included in the intervention group. Will randomly round up
or down if an odd number of rows.
sample_rows <- sample(1:nrow(data), sample(c(floor(nrow(data)/2), ceiling(nrow(data)/2)), 1),
replace = F)
random_group <- rep("B", nrow(data))
random_group[sample_rows] <- "A"
data <- data.frame(data, random_group)

#Saves intervention and control patients to separate datasets
data_intervention <- data[data$random_group == 'A',]
data_control <- data[data$random_group == "B",]

#Change directory to store intervention patients in Intervention Folder
setwd("D:/Data/Documents/Temp Work computer/FU Phone Call/Randomization/Intervention")

#Saves intervention patients with date stamp
write.csv(data_intervention, file = paste("data_intervention", Sys.Date(),".csv", sep = ""),
row.names = F)

#Creates data object containing the intervention patients that can be uploaded to REDCap
Data.INT <- read_file(paste("data_intervention", Sys.Date(),".csv", sep = ""))

#Uploads data to redcap, paste API token for project 2 below
result_intervention <- postForm(
  uri='https://redcap.vanderbilt.edu/api/',
  token='0F5278ECF8493BDA2A5FB71EBE828110',
  content='record',
  format='csv',
  type='flat',
  overwriteBehavior='normal',
  data=Data.INT,
  returnContent='count',
  returnFormat='json'
)
```

```

print(result_intervention)

#Change directory to store Control patients in Control Folder
setwd("D:/Data/Documents/Temp Work computer/FU Phone Call/Randomization/Control")

#Saves control patients with date stamp
write.csv(data_control, file = paste("data_control", Sys.Date(), ".csv", sep = ""), row.names = F)

#Creates data object containing the Control patients that can be uploaded to REDCap
Data.Control <- read_file(paste("data_control", Sys.Date(), ".csv", sep = ""))

#Uploads data to redcap, paste API token for project 1 below
result_control <- postForm(
  uri='https://redcap.vanderbilt.edu/api/',
  token='6EA859FA6C7F35B11CAAAA744ADAAC48',
  content='record',
  format='csv',
  type='flat',
  overwriteBehavior='normal',
  data=Data.Control,
  returnContent='count',
  returnFormat='json'
)



print(result_control)

```

Supplement II – Intervention Data Capture Form

Discharge Follow Up Phone Call

Editing existing Encounter Number 12345678901	
Encounter Number	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">12345678901</div> <small>To rename the record, see the record action drop-down at top of the Record Home Page.</small>
Current Date and time	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">03-17-2017 1:31 </div> Now <small>M-D-Y H:M</small>
Discharge Team	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">RIVENHM1</div>
Discharge Team Group	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">RIVEN</div>
MRN	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">2543577</div>
Name	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">RICH, CARLA</div>
BHLS	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;"> </div>
Education	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;"> </div>
Admit Date/Time	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">03-10-2017 16:31 </div> Now <small>M-D-Y H:M</small>
Discharge Date and time	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">03-12-2017 1:31 </div> Now <small>M-D-Y H:M</small>
Hours Since Discharge <small>(auto-calculated)</small>	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">119</div> View equation

Tele	6153851711
PCP Name	HABERMANN,
PCP ID	2515
Patients Preferred Language	ENGLISH
Date of First Contact	03-14-2017  Today _{M-D-Y}
Call Attempts	Not eligible
Date of Last Contact	03-17-2017  Today _{M-D-Y}
Status	Unsuccessful - No Answer
Interventions Delivered (check all that apply)	<input type="checkbox"/> Durable Medical Equipment <input type="checkbox"/> Facilitated Home Health Connection <input type="checkbox"/> Referral to PCP (pt instructed to call) <input type="checkbox"/> Referral to ED (pt instructed to go) <input type="checkbox"/> Case Management/Social Work assistance requested <input type="checkbox"/> Medication Change by Call RN <input type="checkbox"/> Pharmacist assistance requested <input type="checkbox"/> Provider assistance requested

Notes



[Expand](#)

Form Status

Complete?



Supplement III – Semi-Structured Phone Call Script and Clinical Note Template

Follow Up Phone Call Data Collection Form (Phone Call Starform)

Provider (indexing): (***) This will change the provider displayed in the all documents listing of StarPanel. (***)

***Standard Document Name:** Clinical Communication Discharge Follow-up

Comment for Indexing (optional):

**VANDERBILT UNIVERSITY MEDICAL CENTER
POST DISCHARGE TELEPHONE CALL**

Date of Discharge:

Patient Home Phone:

CALL INFO:

Call Attempt Date and Time: <input type="text" value="01/28/2016"/> <input type="text" value="12:12"/>	Pt Location: <input type="text"/>	<input type="radio"/> Call Successful <input type="radio"/> Call Unsuccessful <input type="radio"/> Call Unnecessary
Contact Attempts: <input type="text"/>		Phone Call Occurred with: <input type="text"/>
Caller: <input type="text" value="Morrison, John"/>		
Pre-Call Prep Time: <input type="text"/>		
Call Duration: <input type="text"/>		

INTRODUCTION:

Hello, , this is from Vanderbilt. I am calling to follow-up with you after your recent visit to our hospital. I'd like to ask you a few questions to make sure everything is going ok. This could take 10 to 15 minutes - Is this a good time to talk?

- If Yes proceed;
- If No - can you give me a time that would be better and I will call you back?

I see you were in the Hospital for [x]. How are you feeling?

Comments:

DISCHARGE INSTRUCTIONS

Click [HERE](#) for Discharge Instructions

- I want to make sure the discharge instructions we gave you were clear and understandable... Can you please tell me in your own words how you are caring for yourself at home?
- What questions do you have about your discharge instructions?
 - If none... Great - if something were to come up, what would you do to get your questions answered?
- Are you having any unusual symptoms or problems? (Specific to problem *base this on the discharge summary* - i.e. dressing, PAIN, bruising or swelling, N/V; e.g., *Do your favorite pair of shoes still fit?*)

Patient can teach back self-care	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Partial
Provider contacted for pain/symptoms/complications	<input type="radio"/> Yes <input type="radio"/> No

Comments:

FOLLOW-UP APPOINTMENT

- When is your follow-up appointment?

Follow-up appointment change made based on this call

- Yes
- No

Able to teach back follow-up appointment related to hospitalization

- Yes
- No

Comments:

MEDICATIONS:

*Are new prescriptions identified on the discharge summary?

- **Yes** –
 - I see you have [number] new medicines from your hospital visit. How are you tolerating taking your [medication]? (follow protocol if you find patient has not filled prescriptions)
 - Would you talk through your daily plan for taking all your medicines
 - What questions do you have about your medicines
- **No** –
 - I see we didn't prescribe any new medicines when you left the hospital. Is that still correct?
 - Yes: Great – do you take any other medicines on a regular basis?
 - Would you talk through your daily plan for taking your medicines?
 - Do you have any questions about your medicines?
 - No: Ok, what medicines did you get? How are you tolerating taking your new medicines?
 - Would you talk through your daily plan for taking your new medicines and any others you take on a regular basis?
 - What questions do you have about your medicines?

Able to teach back medications

- Yes
- No

Has obtained medications prescribed at discharge	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Partial
Medication education or clarification was needed	<input type="radio"/> Yes <input type="radio"/> No
Medication change made by caller/provider based on phone call	<input type="radio"/> Yes <input type="radio"/> No
Comments: <div data-bbox="201 646 657 745"></div>	

Meds Editor: (Click to expand/collapse)

Save Undo All Refresh New User Feedback Tutorial

Set 'No Current Medications'

Actions Help

#	Name	Note	Start Dt
1	Medrol (Pak) take it as directed for 6 days with food		Click to Set
2	Lasix 40mg tablet One tablet by mouth daily		Click to Set
3	Tylenol Children's 2 x per day		Click to Set
4	hydrocodone 10 mg-chlorpheniramine 8 mg/5 mL oral susp extend.rel 12hr (Also Known As Tussionex Pennkinetic ER) 5 milliliters by mouth every evening at bedtime for 7 days as needed for COUGH		Click to Set
5	lisinopril 10mg twice daily		Click to Set
6	bupropion HCl XL 150 mg 24 hr tablet, extended release (Also Known As Wellbutrin XL) 1 tablet by mouth daily		Click to Set
7	NP Thyroid 60 mg tablet 1 tablet sublingual daily for 6 months		Click to Set
8	metoprolol tartrate 25mg 1 tab by mouth twice daily (once in am and once in the evening)		Click to Set
9	prednisolone acetate 1 % eye drops,suspension 1 drop in the right eye three times a day		Click to Set
10	lisinopril 10 mg tablet 1 tablet by mouth daily		Click to Set
11	penicillin V potassium 250 mg tablet 3 tablets by mouth twice a day for 10 days		Click to Set
12	prednisolone acetate 1 % eye drops,suspension 1 drop in the left eye with each snack for 10 days		Click to Set
13	sulfamethoxazole 400 mg-trimethoprim 80 mg/5 mL intravenous solution 0.3 milliliters intravenously every 6 hours for 14 days		Click to Set
14	Infant Non-ASA 1		Click to Set
15	prednisolone acetate 1 % eye drops,suspension 1 drop in the left eye with dinner for 14 days		Click to Set
16	Pepcid AC 20 mg daily by mouth for 1 year		Click to Set
17	amoxicillin one a day		Click to Set
18	Pepcid AC 20 mg daily by mouth for 1 year		Click to Set
19	amoxicillin one a day		Click to Set
20	atenolol 1600mg daily		Click to Set
21	digoxin 125 mg , 2 tabs by mouth each morning		Click to Set

Save Undo All Refresh New User Feedback Tutorial

Set 'No Current Medications'

Med Name: Sig:

CLOSING:

- Thank you for talking with me. We are always trying to get better at giving excellent care. Is there one thing that comes to mind for you that we can improve on?
- You will be getting a survey in the mail asking about your experience during your hospital stay. We would appreciate you taking the time to give us your feedback. It is very important to us and should only take you about five minutes.
- Do you need anything from us right now?
 - Ok we wish you all the best in your recovery. If you need anything, please contact us at [phone number]

Comments:



Save As Draft

Complete

Form: post_discharge_telephone_call (Post Discharge Telephone Call)
Version: 2.4
Last modified: \$Date: 2015/12/21 18:22:48 \$