Pre-analysis plan

Effective use of SMS: timely reminders to report on time

Title:	Effective use of SMS: timely reminders to report on time					
Country:	Australia					
Additional key words:	Government, communication, SMS, administration					
JEL Code(s):						
Abstract:	The aim of the study is to examine whether providing targeted, timely and behaviourally informed prompts about reporting income, via SMS, improves the number of recipients who report on time. Customers in receipt of Newstart Allowance and Youth Allowance (other) payments administered by the Australian Government Department of Human Services (Human Services) are required to report fortnightly any income they receive from employment. Such reporting ensures recipients receive the correct payment. Late reporters may have their payments cancelled. This can be problematic for the recipient and can increase departmental work resulting from effort required to restore recipients back onto payments and increased customer contact. This trial will have seven arms and will scientifically test behaviour against some key behavioural concepts such as personalisation and loss and gain framed messages. It is anticipated findings from this research will inform service delivery both within the lead department and across the Australian Public Service.					
Trial Start date:	Monday, 1 May 2017					
Intervention Start date:	Monday, 1 May 2017					
Trial End Date:	Thursday, 4 May 2017– end of active intervention period					
	Data will be collected for several months beyond the intervention end period to examine further late reporting.					
Outcome(End points):	Primary:					
	Number of recipients who report on time in each condition.					

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	Secondary:							
	Median number of days to report.% of recipients who are cancelled from payment due to							
	reports >13 days late							
	 Subgroup analyses of characteristics of late reporters for 							
	whom the behavioural interventions are effective							
Intervention:	SMS communication from Human Services to prompt recipients							
intervention:	who are due to complete their fortnightly reports the next day							
	who are due to complete their forthightly reports the flext day							
Experimental Design:	7-arm Randomised Controlled Trial.							
	This trial will test differently framed text messages, over four days of one week, to assess whether this communication improves ontime reporting by recipients who have reported late in the fortnight before trial commencement.							
	Customer correspondence standard (loss framed message) with a consequence for late reporting							
	2. Personalised customer correspondence standard (loss framed message) with a consequence for late reporting							
	3. Short simple message without a consequence4. Personalised short simple message without a consequence.							
	5. Gain framed message (details positive consequence of on-time reporting)							
	6. Personalised gain framed message (details positive consequence of on-time reporting)							
	7. No-treatment control group							
Randomisation	Stratification into condition based on: number of times recipients							
Method:	have reported late in the previous four fortnights (1, 2, or 3+),							
	report day (Tuesday, Wednesday, Thursday or Friday), Gender							
	(M/F) and type of payment (Newstart Allowance or Youth							
	Allowance (other)).							
Randomisation Unit:	Individual							
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Planned Number of Clusters:	14,994							
Planned Number of	14,994							
Observations:	,							

1,666 per treatment arm						
4,998 in control group						
Of the 80,382 individuals who were late reporting in the fortnight						
ending 17 Feb 2017, 35,329 (43%) were late reporting again over						
the next month.						
A sample size of 1550 per group, will provide 80% power at a 5%						
significance level to detect a 5 percentage point decrease in the						
late reporting rate (from 43% to 38%). With a larger control group						
(no SMS) and six treatment groups a total sample of 12,300+ will						
be required.						

Outcome
Tables
(Hidden):

Outcome	Experimental condition							
	Control	Treatment	Treatment	Treatment	Treatment	Treatment	Treatment	
		1	2	3	4	5	6	
Number of recipients who report on time	% (n=)	% (n=)	% (n=)	% (n=)	% (n=)	% (n=)	% (n=)	
Median time to lodge report	# days	# days	# days	# days	# days	# days	# days	
% of recipients who are cancelled from payment due to reports >13 days late	% (n=)	% (n=)	% (n=)	% (n=)	% (n=)	% (n=)	% (n=)	

Note: Subgroup analyses. We will also examine whether there is evidence of differential intervention effects for subgroups within the trial participants as follows: gender, socioeconomic status of area, remoteness, change in status from Youth Allowance payment to Newstart Allowance (age-based), and number of times payment was late in the previous 2 months before 1 May (once vs multiple times). As we have not powered the trial to consider subgroups, these analyses are considered exploratory.

If the data allows, we will also examine possible savings of staff time as a function of the number of recipients who are cancelled from payment due to late reports (>13 days), who then have to be reinstated into the system.