#### Label:

- Urge to Use (13 point scale; 4\*90=360 observations per person)
- Report of alcohol use (0/1; hourly: 24\*90=2160 observations per person; or 4\*90=360 observations per person)

### **General Feature issues**

All 2 way interactions (X1\*X2) between features

All second order polynomial effects of features (X^2)

## 1x administration total and subscale scores (screening/intake)

NOTE: Will not include items, only total and subscale scores

## Overall level

Include all scores (1x)

### 3x administration measures (Intake, Follow-up 1, Follow-up 2)

NOTE: Will not include items, only total and subscale scores

### Overall level

• Include all scores (up to 3x) to date [better than mean or weighted mean without much cost?]

### Change

- Most recent score previous score
- Most recent score mean of all previous scores [more stable baseline but only different after 3<sup>rd</sup> admin?]

### **Variability**

• None: Not including SD of scores b/c already captured mostly by change given only 3x admin?

## 4x Daily Surveys (up to 4\*90 = 360 scores)

NOTE: Same functions applied to all items on 4x daily survey

# Overall level

• All previous scores (could be many so cost of # features matter?) vs. alternatives that aggregate (e.g., most recent, mean over 24 hours, mean over past week, mean over past month, total mean to date)

### Change

- Linear and quadratic function over time for all scores to date
- Most recent score mean of previous 24 hours, week, month and total
- Mean of past 24 hours mean of previous week, month and total
- Mean of past week mean of previous month and total

	within subject)
Var	<u>riability</u>
•	SD over 24 hours, over past week, over past month, over all scores to date Change in variability: SD in past 24 hours divided by SD for past week, past month and all scores; SD in past week divided by SD for past month and all scores
1x (	daily audio messages
	Content
	Acoustic characteristics
	Need to consult with Dhavan Shah
<mark>SM</mark>	u <mark>s</mark>
	Total contacts.
	Contacts by people log?
	Time of SMS?
	Pattern of SMS (by time of day, day, time lag?)?  Content analysis (Dhavan).
<mark>Voi</mark>	
	See SMS except for content
<mark>GP:</mark>	S Control of the cont
<mark>Ph</mark> y	ysiology
Sle	<mark>ep measures</mark>
Mis	ssing Data

• Set of normed versions of difference score features above (normed/divided by mean of history of same feature