

Figure 1: Standard Error Bar graphs by month for (a) percentage of values > 15mmol/L (b) percentage of patient-day weight values > 15mmol/L (c) percentage of values < 4mmol/L (d) percentage of patient-day weight values < 4mmol/L (e) mean POCT-BG concentration (f) mean patient-day weighted POCT-BG concentration. x represents a statistically significant difference between April Post-Implementation and all other time points.

Supplementary Figures/ Tables

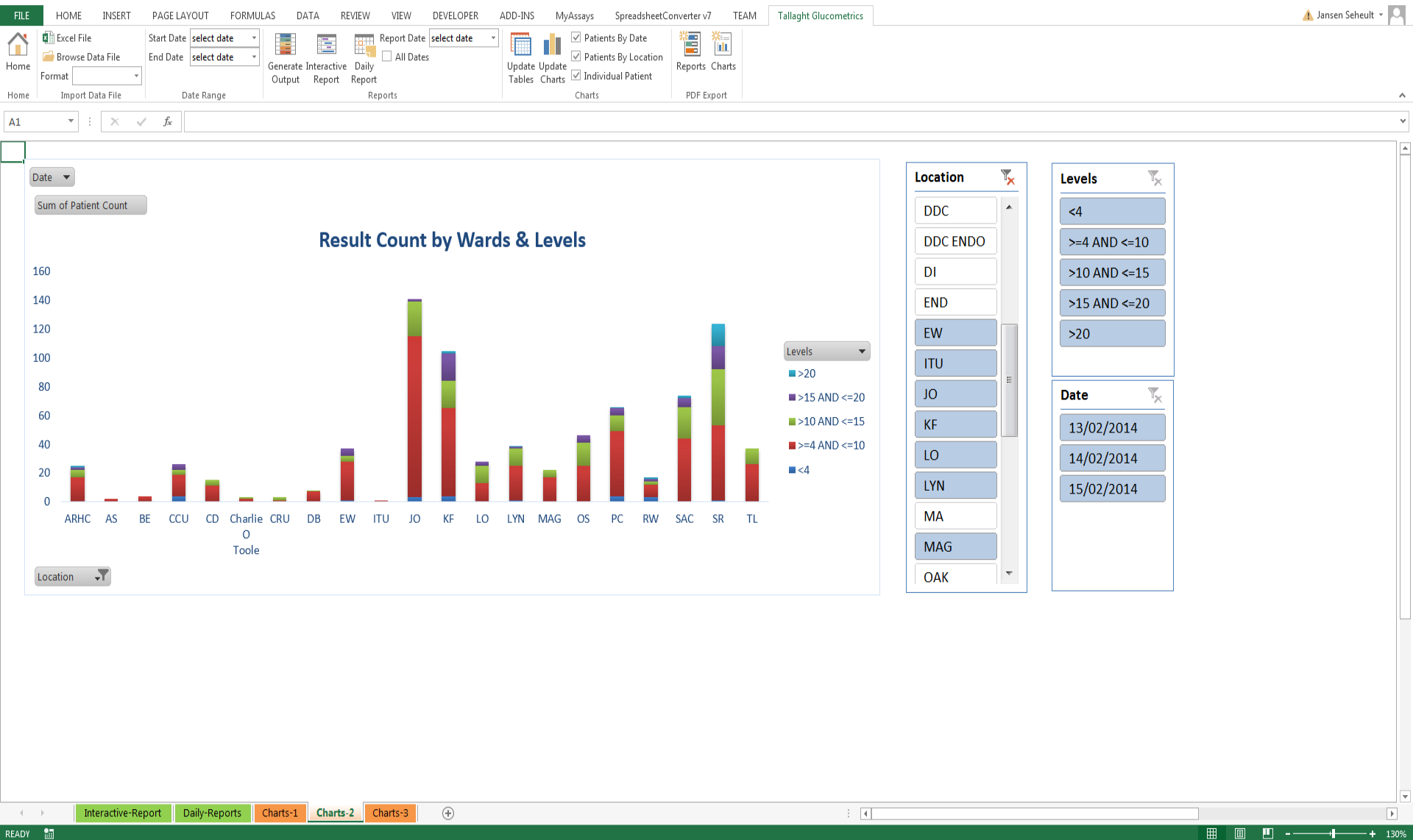


Figure S1: Screenshot of Excel Output from Macro. Tallaght Glucometrics Ribbon with input fields and buttons are displayed in the Tab. A vertical bar graph of glucose values categorized by level and displayed by ward location is shown.

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW DEVELOPER ADD-INS MyAssays SpreadsheetConverter v7 TEAM Tallaght Glucometrics Jansen Seheult

Excel File Start Date select date End Date select date Report Date select date All Dates Update Tables Update Charts Reports Charts PDF Export

Home Import Data File Date Range Generate Interactive Output Report Daily Report Individual Patient Charts

A1

Date (All) Level (Multiple Items)

Instrument Location	Last Name	Patient ID	Result	Date & Time	Average of Result	Min of Result	Max of Result	Count of Level
Tallaght - ARHC					19.1	17.4	20.7	3
Tallaght - CCU					9.6	2.6	16.9	8
Tallaght - EW	(blank)	32903	3.9	13/02/2014 06:58	3.9	3.9	3.9	1
		758295	15.4	15/02/2014 16:58	15.4	15.4	15.4	1
			17.3	14/02/2014 20:54	17.3	17.3	17.3	1
			18.3	14/02/2014 18:34	18.3	18.3	18.3	1
	785239	16.7	14/02/2014 21:23	16.7	16.7	16.7	1	
	875442	15.9	13/02/2014 12:12	15.9	15.9	15.9	1	
Tallaght - JO					9.2	3.1	19	5
Tallaght - KF					15.3	2.4	21.6	25
Tallaght - LO	(blank)	875514	15.3	14/02/2014 18:49	15.3	15.3	15.3	1
			15.4	14/02/2014 19:16	15.4	15.4	15.4	1
			16.9	13/02/2014 20:14	16.9	16.9	16.9	1
Tallaght - LYN					13.8	3.6	20.4	3
Tallaght - OS					17.3	15.6	19.7	5
Tallaght - PC					11.6	3.1	20.5	10
Tallaght - RW					11.1	2.1	20.8	6
Tallaght - SAC					18.2	16	25	8
Tallaght - SR					21.2	3.8	32.9	33

Interactive-Report Daily-Reports Charts-1 Charts-2 Charts-3

READY 130%

Figure S2: Screenshot showing an example of an interactive report generated from glucometry data with patients listed according to date and ward location if glucose levels fulfill out-of-control criteria.

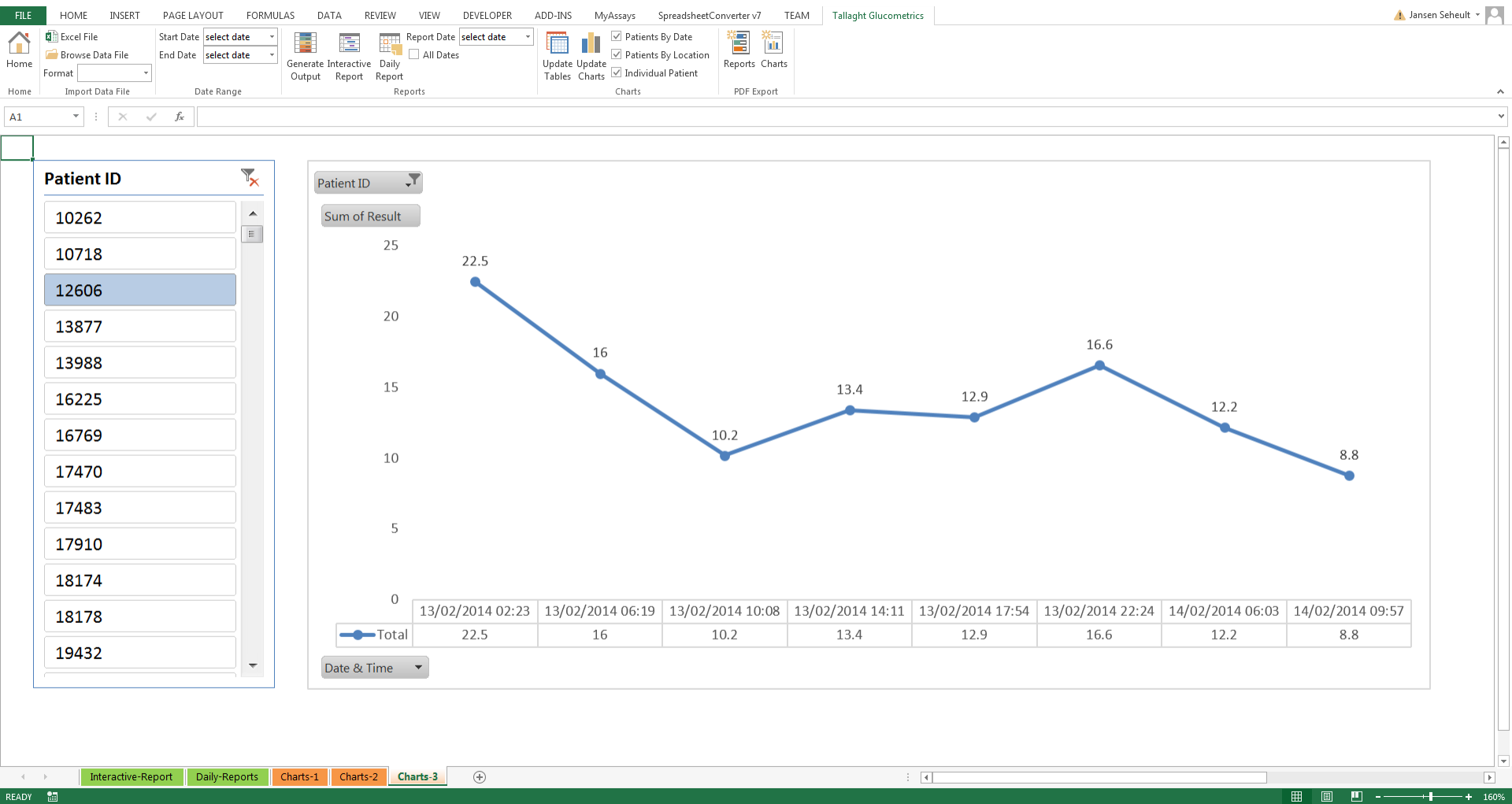


Figure S3: Screenshot of line graph example generated for one patient's results over the date period processed by the Macros. Any patient with glucose readings over the date period selected can be selected to populate the line graph with that patient's data.

Table S1: Summary of mean POCT-BG, number of results, number of patient-days and number of patients by month.

Month	Date Range	Mean POCT-BG	Number of Glucometry Results	Number of Patient-Days with Glucometry Results	Number of Patients with Glucometry Results
January	1/1/14-31/1/14	9.19 (4.30)	7068	2986	450
February	1/2/14-28/2/14	9.01 (4.40)	6712	2829	427
March	1/3/14-31/3/14	9.11 (4.52)	6639	3007	477
April Pre-Implementation	1/4/14-10/4/14	9.40 (4.96)	2629	1011	236
April Post-Implementation	11/4/14-28/4/14	8.79 (4.23)	3840	1632	297