



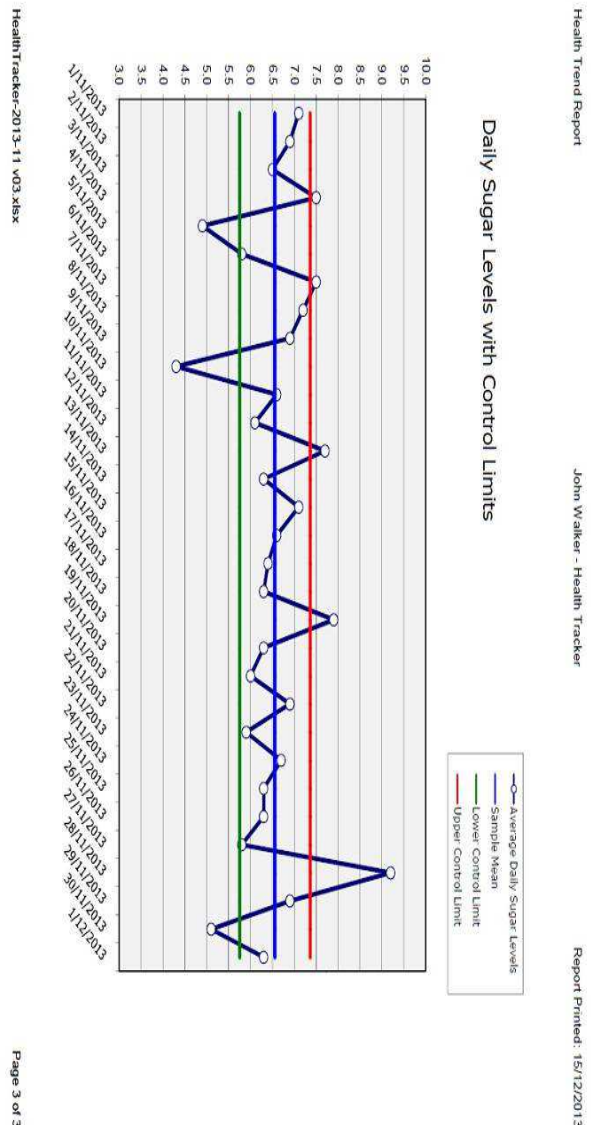
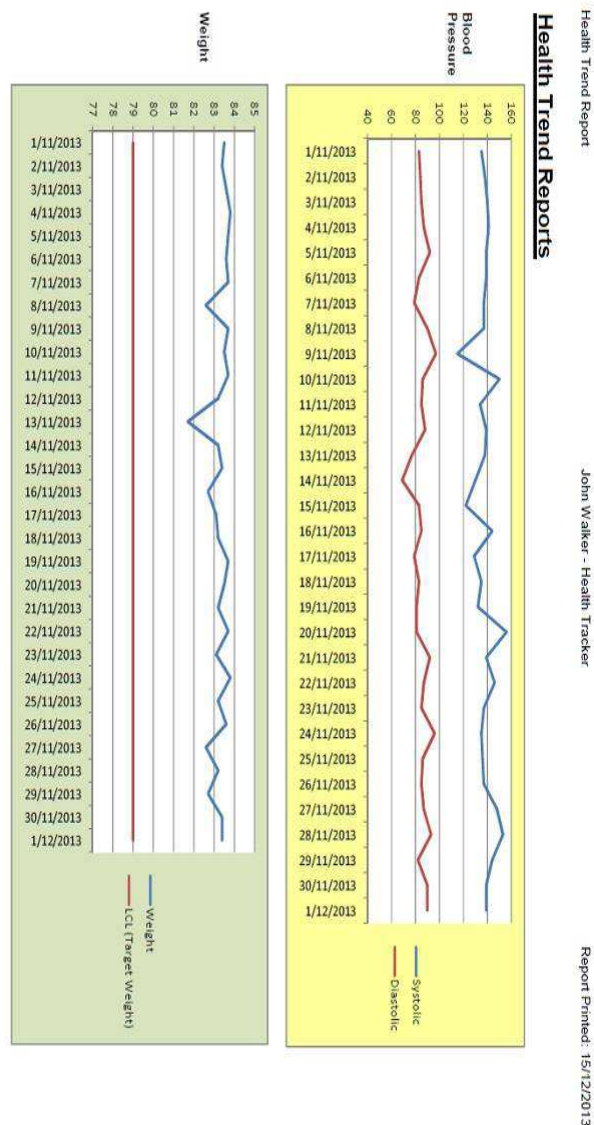
SmartGuide

Health Tracker

(Statistical Process Control for Diabetics)

(Created by the QualityHelp Community at qualityhelp.org)

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Health Tracker – Data Table

This Guide gives an overview and instructions for using the Health Tracker Tool (in an MS Excel Template).

The tracker is focused on providing a working model for supporting a Diabetes management plan.

PLEASE NOTE: This is a suggested model for a support tool and should not be used as a replacement for any other medical plans.

Why use Six Sigma?

- ☐ Six Sigma is a management philosophy and statistical problem-solving methodology focused on reducing operational variance.
- ☐ Improving overall quality and performance of processes.
- ☐ Dictates that process improvement decisions should be based on data, and statistical process analysis.
- ☐ Obtaining a Six Sigma performance level requires a statistical reduction of defects to under 3.4 defects per million opportunities, or 99.9997% success rate (Critical to Airline, Pharmaceutical and Health Care industries).
- ☐ Uses the 5 phase D-M-A-I-C approach to problem saving and Continuous Improvement.

The latest Excel template used for the Health Tracker tool may be downloaded from the QualityHelp.org Community Site (under Guides).

The tool was founded on the production control chart template, downloaded from the Microsoft Office template site.

The sample table (on right) shows sample data collected over a month period. See the generated reports overleaf.

This table is particularly useful in showing all the macros for calculating the daily and monthly mean values for blood sugar tests (up to 3 per day), plus the standard deviations, Upper and Lower Control limits (default 1s). The control limits can be manually adjusted (eg. To 2s or 3s) by increasing the percentage value in cell B10.

It is also important to track health, diet, exercise and any variations to medication that would have an impact on undesirable sugar level deviations. It would take little effort to modify the data table and report charts to personally suit the user.

All feedback and suggestion will be appreciated.

November	Date	Time	Blood Sugar			Sample Mean (Average of All Means)	Standard Deviation (since day 1)	Standard Deviation (for month)	Lower Control Limit	Upper Control Limit		Blood Pressure				Desired Target Weight		Other Health Factors
			Sample 1 (Morning)	Sample 2	Sample 3					Link	Link	Systolic	Diastolic	Pulse	Weight	Diet	Medication / Exercise	
1/11/2013	9:00	7:1	7:1	7:1	7:1	7:1	0.00	0.81	5.75	7.36	135	83	84	83.5	79.0	Fair	3 gilline (2+1) / 4km walk	
2/11/2013	7:00	6:9	6:9	6:9	6:9	6:9	0.11	0.81	5.75	7.36	138	84	82	83.4	79.0	Fair		
3/11/2013	7:00	6:5	6:5	6:5	6:5	6:5	0.26	0.81	5.75	7.36	140	85	83	83.6	79.0	Fair		
4/11/2013	6:40	7:5	7:5	7:5	7:5	7:5	0.38	0.81	5.75	7.36	141	87	73	83.8	79.0	Fair	tea and honey	
5/11/2013	6:30	4:9	4:9	4:9	4:9	4:9	0.93	0.81	5.75	7.36	139	92	82	83.7	79.0	Fair	5 hrs	
6/11/2013	7:15	5:8	5:8	5:8	5:8	5:8	0.90	0.81	5.75	7.36	139	83	81	83.6	79.0	Fair	2 gilline (2+0) / no walk	
7/11/2013	6:05	7:5	7:5	7:5	7:5	7:5	0.91	0.81	5.75	7.36	137	79	82	83.7	79.0	Fair		
8/11/2013	6:30	7:2	7:2	7:2	7:2	7:2	0.87	0.81	5.75	7.36	137	90	88	82.6	79.0	Fair		
9/11/2013	6:30	6:9	6:9	6:9	6:9	6:9	0.82	0.81	5.75	7.36	115	97	77	83.7	79.0	Fair	2 gilline (2+0)	
10/11/2013	6:30	4:3	4:3	4:3	4:3	4:3	1.07	0.81	5.75	7.36	150	86	86	83.5	79.0	Fair		
11/11/2013	6:00	6:6	6:6	6:6	6:6	6:6	1.02	0.81	5.75	7.36	134	85	79	83.7	79.0	Fair	2 gilline (2+0) / no walk	
12/11/2013	7:05	6:1	6:1	6:1	6:1	6:1	0.98	0.81	5.75	7.36	139	88	86	83.2	79.0	Fair	3 gilline (2+1) / no walk	
13/11/2013	7:00	7:7	7:7	7:7	7:7	7:7	0.96	0.81	5.75	7.36	138	77	81	81.7	79.0	Excellent		
14/11/2013	7:00	6:3	6:3	6:3	6:3	6:3	0.96	0.81	5.75	7.36	130	69	89	83.2	79.0	Fair	3 gilline (2+1) / 3km walk	
15/11/2013	7:00	7:1	7:1	7:1	7:1	7:1	0.94	0.81	5.75	7.36	122	83	83	83.4	79.0	Fair	3 gilline (2+1) / no walk	
16/11/2013	7:20	6:6	6:6	6:6	6:6	6:6	0.91	0.81	5.75	7.36	144	85	71	82.7	79.0	Fair	1 gilline (2+1) / 3km walk	
17/11/2013	5:00	6:4	6:4	6:4	6:4	6:4	0.88	0.81	5.75	7.36	129	79	78	83.1	79.0	Fair	1 gilline (1+0) / no walk	
18/11/2013	6:00	6:3	6:3	6:3	6:3	6:3	0.86	0.81	5.75	7.36	135	83	81	83.2	79.0	Poor	1 gilline (0+1) / no walk	
19/11/2013	5:30	7:9	7:9	7:9	7:9	7:9	0.89	0.81	5.75	7.36	132	81	84	83.7	79.0	Fair	1 gilline (1+1) / 3km walk	
20/11/2013	6:10	6:3	6:3	6:3	6:3	6:3	0.87	0.81	5.75	7.36	156	81	66	83.5	79.0	Fair		
21/11/2013	6:30	6:0	6:0	6:0	6:0	6:0	0.86	0.81	5.75	7.36	139	92	77	83.2	79.0	Fair	2 gilline (1+1) / 2km walk	
22/11/2013	6:30	6:9	6:9	6:9	6:9	6:9	0.84	0.81	5.75	7.36	146	87	78	83.7	79.0	Fair	2 gilline (1+1) / 5km walk	
23/11/2013	7:00	5:9	5:9	5:9	5:9	5:9	0.84	0.81	5.75	7.36	137	85	81	83.1	79.0	Fair	2 gilline (1+1) / 2km walk	
24/11/2013	5:00	6:7	6:7	6:7	6:7	6:7	0.82	0.81	5.75	7.36	135	96	91	83.8	79.0	Fair		
25/11/2013	7:00	6:3	6:3	6:3	6:3	6:3	0.80	0.81	5.75	7.36	136	86	98	83.2	79.0	Fair	2 gilline (1+1) / no walk	