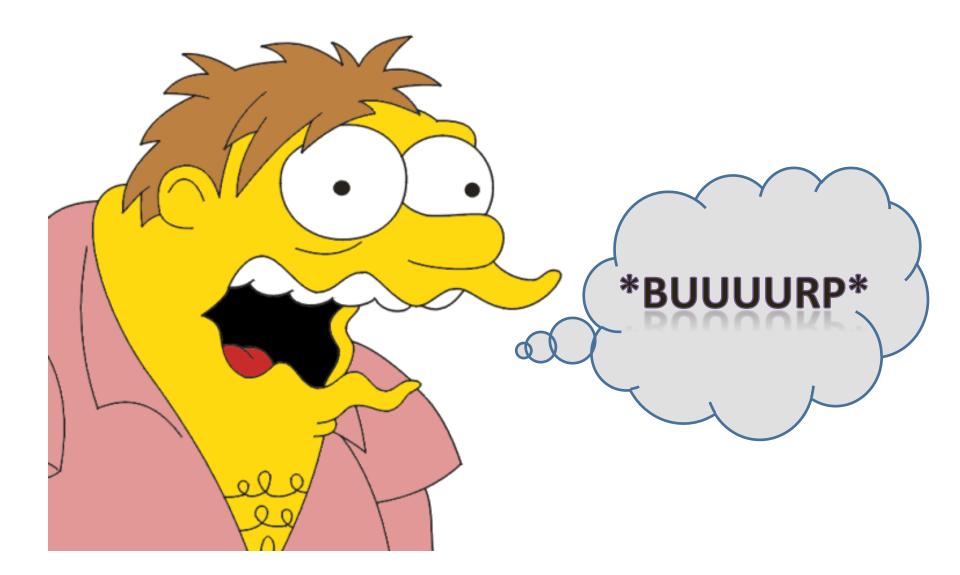
# The Case of the Upset Stomach



A Mystery only Quantified Self could solve!

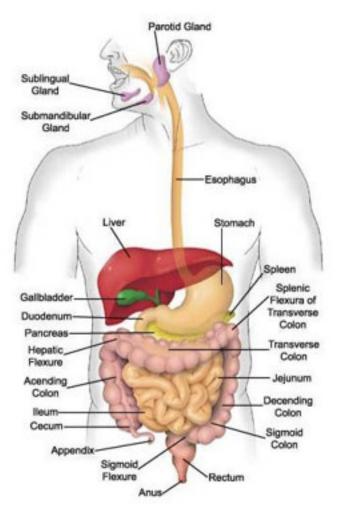
#### June 2011 Madrid, Spain

#### **One month later....**





#### Doctors...





#### Started Tracking...

-	А	В	С	D	E	F	G	Н	I
1	day	breakfast	snack	lunch	snack	dinner	extras	burping severity	comments
2	9/11/2011	smoothie	cereal w/almond milk	buffalo wings, potato skin, diet coke, soup (blackbean) salad (caesar)	ice cream with cinnamon	quinoa black bean	ice cream with cinnamon	0	no burping
3	9/12/2011	smoothie w/ protein powder	blueberries, lara bar	birdnest	indian sweets	quinoa salad	3 beers	0	felt fine all day
4	9/13/2011	egg & strawberries, coffee	Blueberries	Rice chicken black beans diet coke		Millet salad. Moochi ice cream. Chocolate almonds		8	started burping on way into work and on way home for over an hour, and pretty much all night long
5	9/14/2011	smoothie, green coffee	almonds/raisins	quinoa/black bean gluten free burito	one piece of chocolate, luna snack size	mama testa, beans, chips, tacos (pork, chicken), rice		5	burping all morning, is it left over from last night?, elimination problems but burping subsided throughout day
6	9/15/2011	oatmeal, green coffee, gnawing in stomach, so ate a luna snack size at 8:45am	strawberries	I&I's mini chicken plate, diet coke	one piece of chocolate, luna snack size	amys gluten free burrito	1 beer	0	no burping
7		smoothie (protein powder), green coffee, 2 brown rice cakes	blueberries, mango, not hungry till 11:45, great!	greek, 3 falafel, hummos, baba ghanoush, one triangle of pita, salad, diet coke	luna snack size	soy chorizo chili fries, sweet potato tots, stuffed cabbage	wine, 4 beers	6	gas (not burping) in middle of day. dont know if related to food eaten today or just in general
8		oatmeal, green coffee before workout		quinoa salad	kettle corn	sushi deli	2 beers, one soju	0	no burping
9	9/18/2011	oatmeal, green coffee.		quinoa salad, some chips while hiking	snickers ice cream bar	rolled tacos el zarape		0	no burping really
10	9/19/2011	oatmeal, green coffee	strawberries (1 qt)	curry chicken (not that great) rice, salad	luna snack size	quinoa salad	moochi, ice cream	0	no burping
11	9/20/2011	smoothie, egg, green coffee	blueberries, 2 rice cakes	2 fish tacos, diet coke	luna snack size, licorice	frozen bistro meal (350)	2 beers, tater tots	0	no burping really
12	9/21/2011	smoothie, egg, green coffee	mango, almonds, raisins	turkey sandwich jimbos	reeses cup, snickers, smarties, chocolate	quinoa at kates, nectarine	some cookie	7	excessive burping in the evening, after mango (cupake bite? cookies) burped until bed
13	9/22/2011	oatmeal, green coffee	2 oranges, 1 hard boiled egg	frozen bistro meal	reeses cup, m&ms, 2 rice cakes, chocolate	ahi salad, scallops, ice cream	3 beers	0	no burping, yay
	9/23/2011	oatmeal, green coffee	mango, 1 hard boiled egg	pho	swedish fish, whoppers, calcium drops,	amys dinner, chocolate bar, mochi	3 beers	0	no burping in the am, super tired in the afternoon, super, super tired



-cricopharyngeus

normal-esophagus

hiatal hernia-stomach

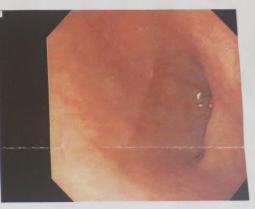


hiatal hernia-stomach



otherwise normal stomach-stomach

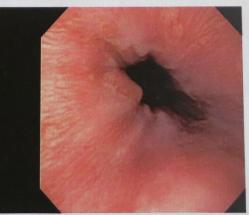
normal-esophagus



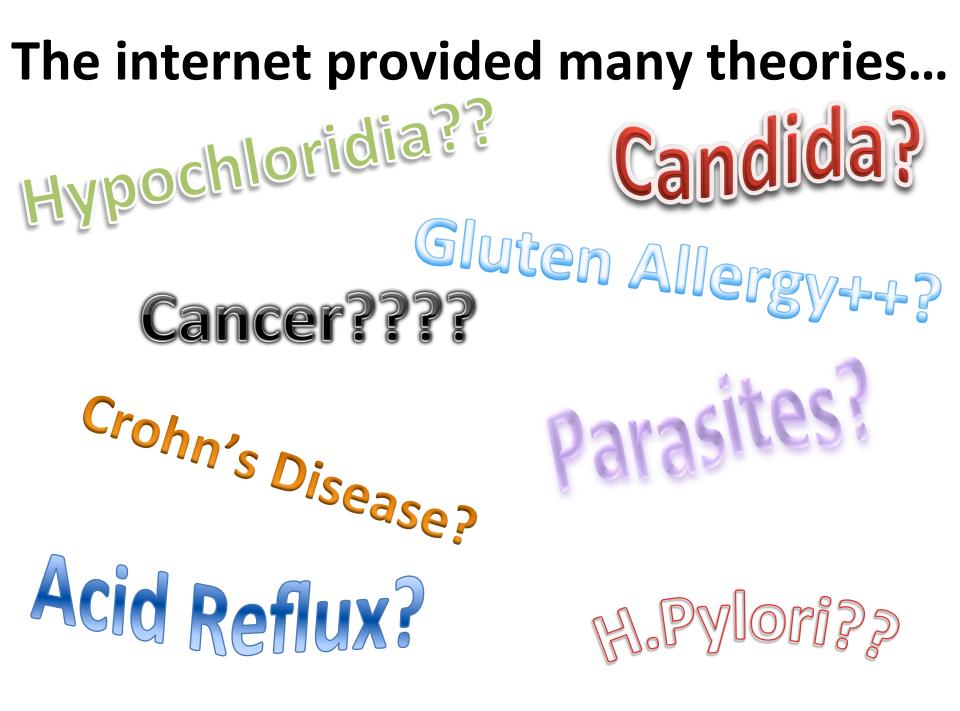
normal-duodenum



normal-duodenum Cummoriu







### CLEAN

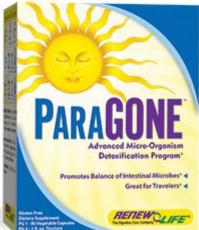
REMOVE · RESTORE · REJUVENATE

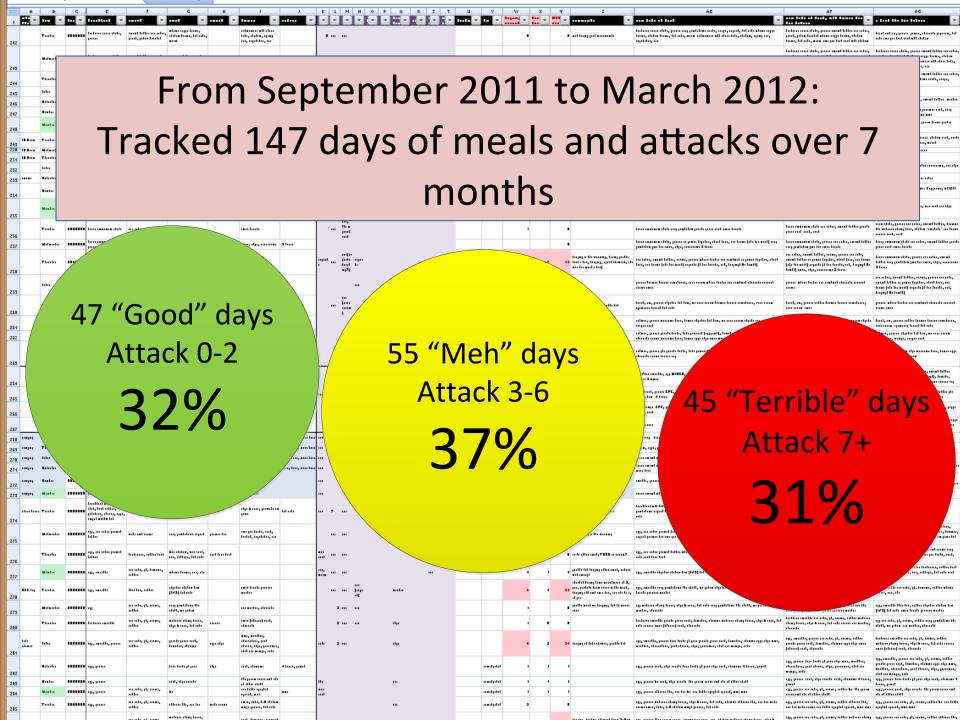


The Revolutionary Program to Restore the Body's Natural Ability to Heal Itself









## Measured Individual Foods using excel formulas

21				bad	days symp	tom >= 7		days witl	n this whe was goo	re symptom d
	individual foods	total	percent	bad days	percent	over/under		good days		over/under
	_	times_	_	had	_	_	_	had	_	
22	▼.	had		15	_	1.5%	•		120/	
23 24	<b>cheese</b> milk	31 23	<b>17%</b> 13%	15 13	<b>33%</b> 29%	<b>16%</b> 16%		5 2	<b>13%</b> 5%	-5%
24	coffee									-8%
25		39	21%	15 4	33%	<b>12%</b>		12	30%	9%
20	nachos	6 JIP	07 <sup>3%</sup>					0	0% 8%	-3%
27	prilosec	- <u> </u>	E m	2	Constant	A State		4		-40%
20	coke			6		A BAR	<b>N</b>		10%	0%
30	chips fries	m	R NO	6	- AND THE	California (	<b>&gt;</b>	3	8%	-3%
	fries	1. T/CA		4	1. 16 20			TIKIW	K Z	-6%
31	chipotle	8 21	<b>4%</b> 12%	3		A at a		1 No		-2%
32	cream	21	12%			20/		Ø.		1%
33	yogurt					2%		<u>ã</u>		-9%
34 35	plantation	-1	. + .			0%				-4%
36	mango 50	npu	anta: 1ps·baker	lion	®	-1%				-2%
30	soy sal	ads • sou	ıps • baker	v 🔪		-1%				0%
						-1%				-5%
38	clean shake	49	27%	10	22%	-5%				16%
39	beer	30	16%	5	11%	-5%				19%
40	bean	18	10%	2	4%	-5%				3%
41	chocolate	44	24%	8	18%	-6%				8%
42	almond	79	43%	16	36%	-8%			-	7%
43	oatmeal	84	46%	16	36%	-11%				-1%
44	almond butter	55	30%	8	18%	-12%		14	35%	5%

#### Categorized Diet by Broad Categories









General Categories	Days Eaten	percent	bad days had	percent	Bad over/under	Good days had	percent	Good over/under
Dairy	111	61%	36	80%	19%	16	40%	-21%
coffee	23	13%	13	29%	16%	1	3%	-10%
gluten	54	30%	20	44%	15%	11	28%	-2%
fried foods	46	25%	15	33%	8%	6	15%	-10%
soda	21	12%	7	16%	4%	4	10%	-2%
beans	66	36%	16	36%	-1%	16	40%	4%
wine	22	12%	5	11%	-1%	3	8%	-5%
beer	30	16%	5	11%	-5%	14	35%	19%
chocolate	45	25%	8	18%	-7%	13	33%	8%







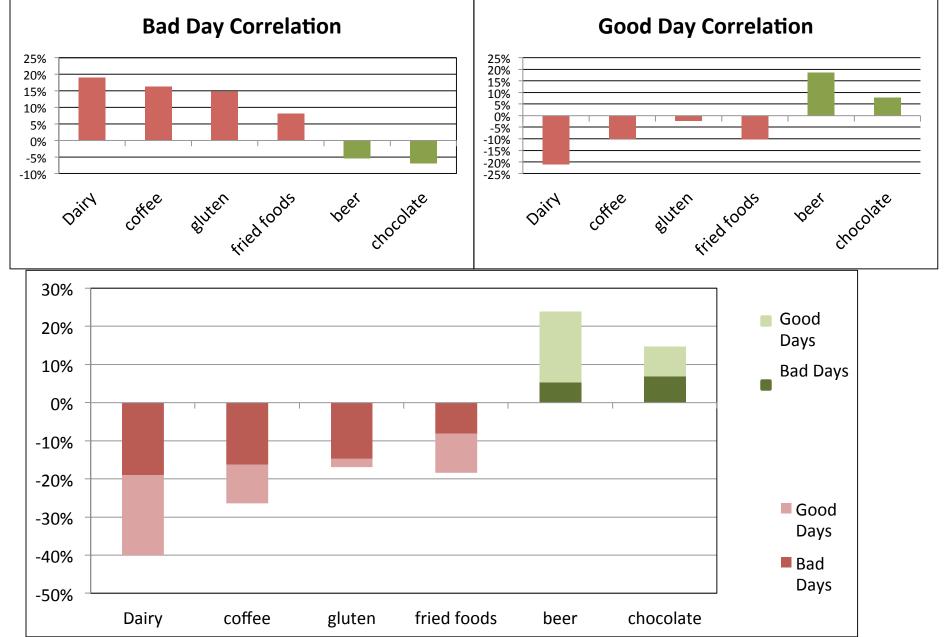


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TER	69						
	70						
	71	General Categories	Days Eaten	percent	bad days had	percent	Bad over/under
	72	Dairy	111	61%	36	80%	19%
Conservation	73	coffee	23	13%	13	29%	16%
reneral	74	gluten	54	30%	20	44%	15%
tegories	75	fried foods	46	25%	15	33%	8%
	76	soda	21	12%	7	16%	4%
Dairy	77	beans	66	36%	16	36%	-1%
soda	78	wine	22	12%	5	11%	-1%
beans	79	beer	30	16%	5	11%	-5%
wine	80	chocolate	45	25%	8	18%	-7%
beer chocolate	81						
chocolate	82						
	83						
	84	▶ whole30 metrics	metrics atta	ack 🖌 data merc	ie / charts /	more 2013 met	rics 🧹 metrics 2013 ,
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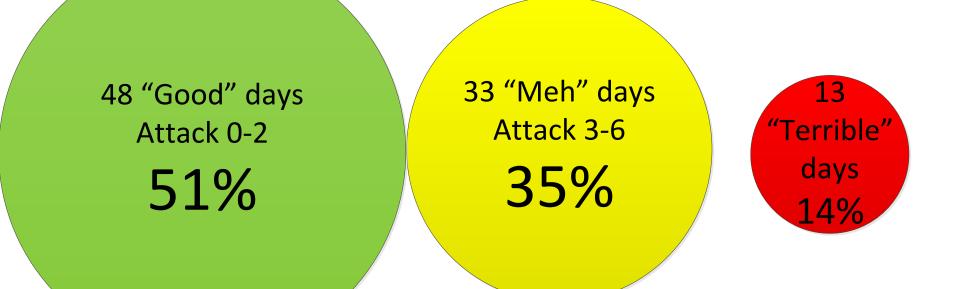


#### The good, the bad, the ugly



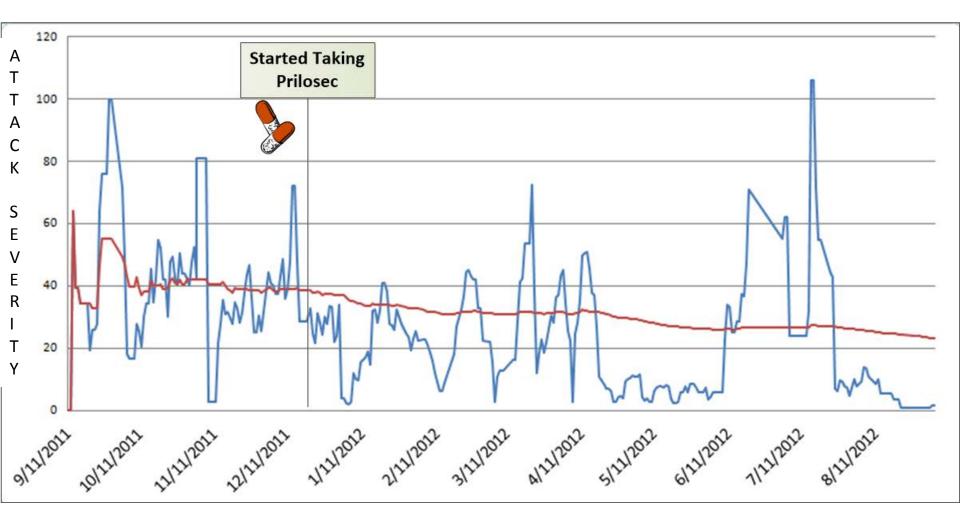
## After diet adjustments to reduce dairy (especially cheese)

From April 2012 until September 2012: Tracked 94 Days of meals and attacks

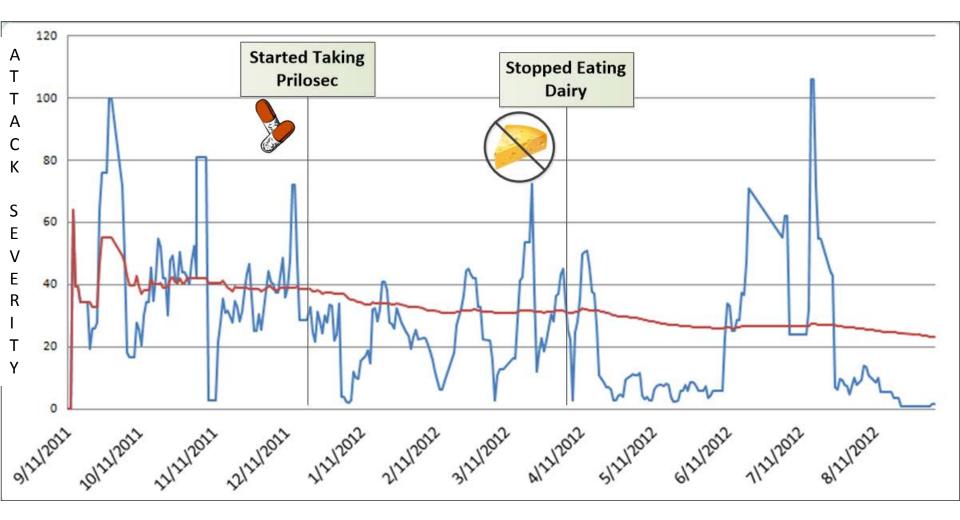


#### 20% Improvement over 5 months!

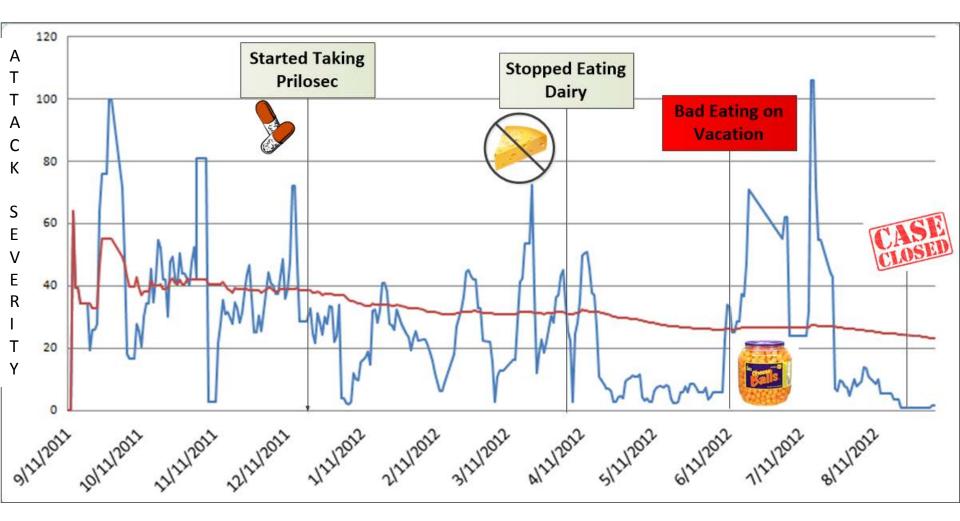
#### Attack Severity 2011-2012



#### Attack Severity 2011-2012



#### Attack Severity 2011-2012



#### So am I cured??



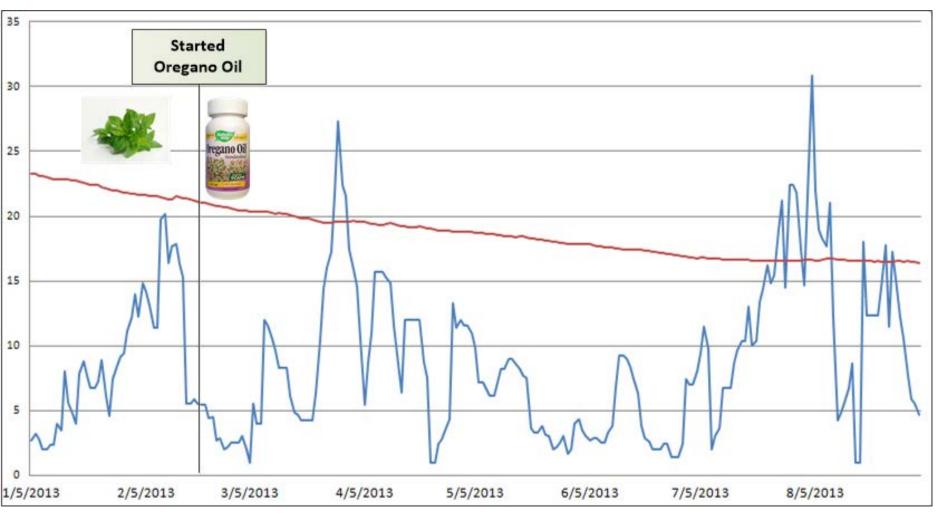
#### Case Reopened in 2013



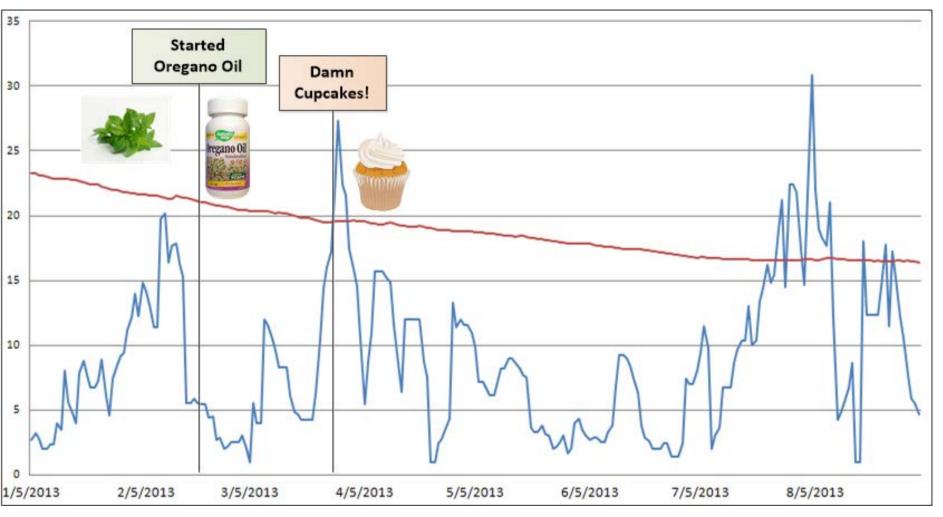
7 Day Average Attack Severity Attack Severity = symptom severity\*attack duration

Y

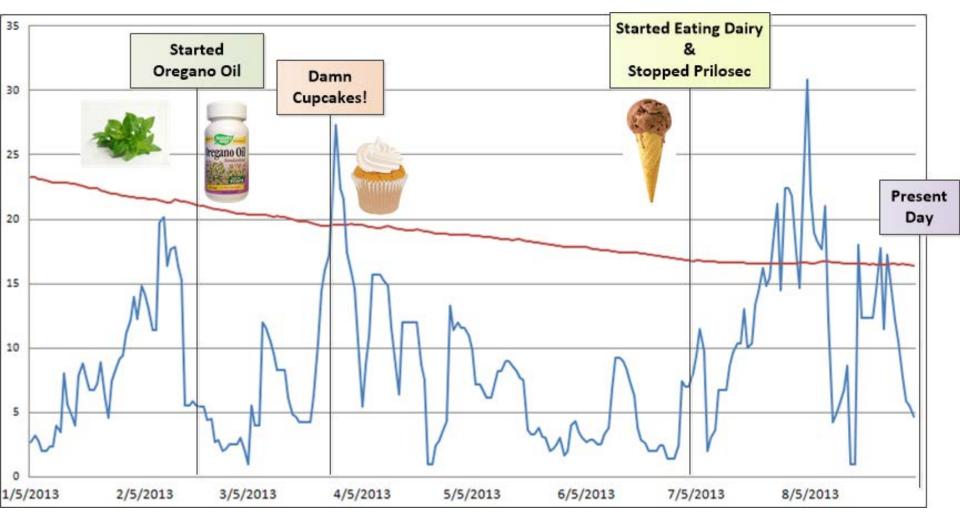
#### 2013



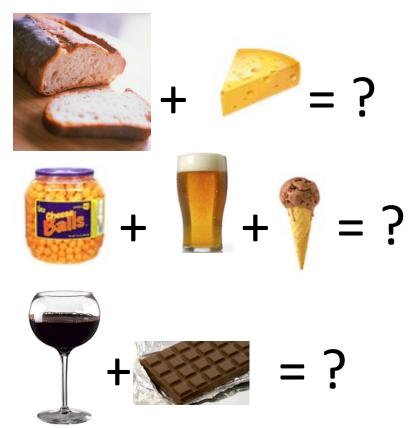
#### 2013



#### 2013



### Why was this such a hard case? None of my correlations are 100%!





#### What else did I learn?



#### What else did I learn?



The data is all MINE!

#### But I really want to do more advanced correlations, and my formulas are already getting a little crazy!

=COUNTIFS(dairycol,"<>",data\_merge!\$C:\$C,">=" & \$G\$3,data\_merge!\$C:\$C,"<=" & \$H\$3) =COUNTIFS(dairycol,"<>",data\_merge!\$AF:\$AF,">=" & \$B\$15,data\_merge!\$C:\$C,">=" & \$G\$3,data\_merge!\$C:\$C,"<=" & \$H\$3)

#### Where's the app for this?



Chocolate Chip Cookies 10 02: 139 cals Easy Zucchini Parmean 10 serving 52 cals Dinner: 203 calories Copy Meal Rosted Turkey RECIPE 10 serving 203 cals Colories Cubes Fat Presei Colories Cubes Fat Presei		4 11	/29/2012		+
10 medium (7* to 7-7/8* long)         109 cals           Kroge brand oats and honey granula         50 cals           So you 23 4 cals         Copy Meal           Chocolate Chip Cooles         100 cals           Eavy Zucchini Parmesan         10 serving         52 cals           Dinner : 203 calories         Copy Meal           Rosted Turkey REOPE         10 serving         203 cals           10 serving         203 cals         Copy Meal           Rosted Turkey REOPE         10 serving         203 cals           Coleres         Caleres         Fat         Presein           Total         72 doit         70 doit         77	Breakfast				py Meal
Kroger brand oats and honey granola       05 top: 274 cals       Lunch: 1: 191 calories       Chocolate Chip Cookies       10 zo: 195 cals       Easy Jucchini Parmesan       10 serving     52 cals       Dinner: 2: 203 calories     Copy Meal       Rosated Turkey RECPE       10 serving     203 cals       Calories     Coby Meal       Calories     Coby Meal       Totals     77       50     201 77			eller 1	1. 1.1	1.6.9
0.5 cop 234 cals Lunch : 191 calories Copy Meal Chocolate Chip Cookies Loze 139 cals Easy Zucchini Parmesan 1.0 serving 52 cals Dinner : 203 calories Copy Meal Rosted Turky RECIPE 1.0 serving 203 cals Calores Carbo Fat Presei Toble 777 50 13 77			20		
Lunch : 191 calories Copy Meal Chocolate Chip Cookies 10 oz 195 cals Easy Zucchini Parmesan 10 serving 52 cals Dinner : 203 calories Copy Meal Rosted Turkey RECHE 10 serving 203 cals Colore Calore Fat Presei			d honey g	Iranola	
Chocolate Chip Cookies 10 02: 139 cals Easy Zucchini Parmean 10 serving 52 cals Dinner: 200 calories Copy Meel Rosted Turkey RCCPE 10 serving 200 cals Colories Calories Fat Presei Calories Calories Fat Presei	0.5 cup	234 cals			
1 0 oz 129 cals Exsy Zucchin Parmesan Joseving 25 cals Dinner : 203 calories Copy Meal Roasted Turkey RECIPE L0 serving 203 cals Calores Carbo Fat Protein Totale 727 50 101 27		191 calorie			py Meal
Easy Zucchini Parmesan         Sz cals           Dinner :         203 calories         Copy Meal           Rosted Turky REDPE         1.0 serving         203 cals           Colores         Calores         Fat         Presein           Totale         7.7         90         103         27	Chocolat	Chip Cooki	es		11111
1.0 serving 52 cals Dinner :: 203 calories Copy Meal Roasted Turkey RECIPE 1.0 serving 203 cals Calories Carbs Fat Protein Totals 737 90 101 27	1.0 oz 1	39 cals			
Dinner         203 calories         Copy Meal           Roasted Turkey RECIPE         1.0 serving         203 cals           L0 serving         203 cals         Calories           Calories         Cabries         Fat           Totals         737         90         101         27	Easy Zuc	chini Parme	san		
Roasted Turkey RECIPE 1.0 serving 203 cals Calories Carbs Fat Protein Totals 737 50 101 27	1.0 serving	52 cals			
1.0 serving 203 cals Calories Carbs Fat Protein Totals 737 90 101 27					py Meal
Calories Carbs Fat Protein Totals 737 90 101 27	Roasted '	Furkey RECI	PE		
Totals 737 90 101 27	1.0 serving	203 cals			
		Calories	Carbs	Fat	Protein
		737	90	101	27
	<b>Daily Goal</b>			36-77	75-173
		64	-	-	
♠ 🛸 📌 🕥	00				





#### # fitbit.





**Food Allergy Detective** 







