The Question:

What approaches can assist in identifying the actionable information that exists within all of these data/signals?

Previous Approach

- Look across "independent" data sources/ statistics to corroborate signals
- Problems with this approach:
 - Each data source may represent different underlying populations
 - Difficult to align signals if data sources on different time tables
 - Signals may not agree and that may not be good reason to ignore the alert

Proposed Approach:

Decision Support System

Decision Support System

- Incorporated into existing information systems
- Organizes data to inform clinical or public health responses
- Enables providers to target clinical management of medical conditions
 - Reminders for vaccines (flu vaccine prompts if > 65 yo)
 - Screening recommendations (mammograms)
 - Chronic disease management (asthma, diabetes)
- Associated with improved outcomes
 - Immunizations: Up-to-date rates
 - Decreased emergency room visits for asthma

How Might We Use A Decision Support System for Surveillance?

- It is not uncommon to have many visits that fall into a general GI category
- Able to parse category into more useful subcategories:

GI (common) \rightarrow "bloody diarrhea" (moderately common) \rightarrow young people with "bloody diarrhea" (rare)

- With a little extra effort, we now may propose Shigella or E. coli as a possible differential diagnosis – thereby framing decisions for the public health practitioner
- Different public health actions are warranted for a possible *Shigella* or *E. coli* problem vs. a general GI flag

Decision Support Needs

Prompts for action

- Event detection (ALF example to follow)
- Event management

 Situation awareness, hurricane management, influenza onset, disaster management, large public events (inauguration), etc.

 Decision-making may be affected by level of responsible domain

- Federal
- State
- Local

How could this work as integrated electronic solution?

ESSENCE - Virginia Alert List - Windows Internet Explorer

Help

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Links	Date	Data Source	A Region	Age	<u>Sex</u>	Syndrome	Detector	Level	<u>Count</u>	Expected	RareColor	RareLevel	<u>NonZero</u>
Time Series	11Sep08	ER by Patient	New River	All	All	Bot_Like	Regression/EWMA 1.2	0.039	1	0.036	1	1	4.384
Time Series	11Sep08	ER by Patient	New River	45-64	All	Fever	Regression/EWMA 1.2	0.011	2	0.25	26	11	27.671
Time Series	11Sep08	ER by Patient	West Piedmont	5-17	All	Fever	Regression/EWMA 1.2	0.013	1	0.214	17	9	42.74
Time Series	11Sep08	ER by Patient	Crater	18-44	All	GI	Regression/EWMA 1.2	0.009	7	4.407	39	18	98.082
Time Series	11Sep08	ER by Patient	Piedmont	45-64	All	GI	Regression/EWMA 1.2	0.012	6	3.407	24	9	94.521
Time Series	11Sep08	ER by Patient	Piedmont	A11	A11	GI	Regression/EWMA 1.2	0.007	22	13.75	41	12	100
lime Series	11Sep08	ER by Patient	West Piedmont	5-17	A11	GI	Regression/EWMA 1.2	0.018	3	1.042	22	7	67.397
lime Series	11Sep08	ER by Patient	Piedmont	0-4	A11	Loc_Les	Regression/EWMA 1.2	0.019	1	0.143	6	4	9.041
ime Series	11Sep08	ER by Patient	Rappahannock	A11	A11	Lymph	Regression/EWMA 1.2	0.036	2	0.607	31	20	44.11
ime Series	11Sep08	ER by Patient	Crater	0-4	A11	Rash	Regression/EWMA 1.2	0.035	1	0.107	19	17	18.904
Time Series	11Sep08	ER by Patient	New River	5-17	A11	Resp	Regression/EWMA 1.2	0.006	2	0.607	28	13	74.795
Time Series	11Sep08	ER by Patient	Piedmont	18-44	All	Resp	Regression/EWMA 1.2	0.023	7	4.846	37	24	98.63
Time Series	11Sep08	ER by Patient	Piedmont	A11	A11	Resp	Regression/EWMA 1.2	0.041	13	11.393	46	39	100
Fime Series	11Sep08	ER by Patient	Three Rivers	18-44	A11	Resp	Regression/EWMA 1.2	0.035	9	6.786	43	33	100
Time Series	11Sep08	ER by Patient	West Piedmont	5-17	A11	Resp	Regression/EWMA 1.2	0.014	3	0.96	26	11	64.11
Time Series	10Sep08	ER by Patient	Chesapeake	18-44	A11	Fever	Regression/EWMA 1.2	0.011	5	2.269	34	14	92.603
lime Series	10Sep08	ER by Patient	Chickahominy	65+	A11	Fever	Regression/EWMA 1.2	0.047	3	0.821	31	30	58.63
ime Series	10Sep08	ER by Patient	Crater	A11	A11	Fever	Regression/EWMA 1.2	0.037	6	2.214	47	37	90.411
Time Series	10Sep08	ER by Patient	Crater	18-44	All	Fever	Regression/EWMA 1.2	0.005	3	0.5	41	12	44.11
Time Series	10Sep08	ER by Patient	Fairfax	45-64	A11	Fever	Regression/EWMA 1.2	0.036	6	2.815	29	26	91.781
lime Series	10Sep08	Over-the-Counter Chain 2	Henrico	A11	A11	Fever	Regression/EWMA 1.2	0.017	4	1.5	28	19	60.548
Time Series	10Sep08	Over-the-Counter Chain 2	New River	A11	A11	Fever	Regression/EWMA 1.2	0.026	3	0.821	29	24	44.11
Time Series	10Sep08	ER by Patient	Peninsula	5-17	A11	Fever	Regression/EWMA 1.2	0.014	7	2.429	36	14	95.616
lime Series	10Sep08	ER by Patient	Piedmont	0-4	A11	Fever	Regression/EWMA 1.2	0.027	5	1.87	28	21	74.247
Fime Series	10Sep08	Over-the-Counter Chain 2	Rappahannock	A11	A11	Fever	Regression/EWMA 1.2	0.019	6	3.346	24	18	67.123
Time Series	10Sep08	ER by Patient	Roanoke	65+	A11	Fever	Regression/EWMA 1.2	0.001	2	0.107	13	2	14.795
Time Series	10Sep08	ER by Patient	West Piedmont	5-17	A11	Fever	Regression/EWMA 1.2	0.003	2	0.214	17	4	42.74
Time Series	10Sep08	ER by Patient	West Piedmont	A11	All	Fever	Regression/EWMA 1.2	0.019	5	2.042	19	8	89.315
ime Series	10Sep08	ER by Patient	Western Tidewater	A11	All	Fever	Regression/EWMA 1.2	0.039	5	2.519	31	27	95.342
Time Series	10Sep08	ER by Patient	Central Virginia	0-4	A11	GI	Regression/EWMA 1.2	0.049	3	1.174	28	27	95.616
Time Series	10Sep08	Over-the-Counter Chain 2	Chesterfield	A11	A11	GI	Regression/EWMA 1.2	0.028	17	13.036	24	15	69.589
Fime Series	10Sep08	ER by Patient	Chesterfield	5-17	A11	GI	Regression/EWMA 1.2	0.04	8	4.407	35	29	99.178
Time Series	10Sep08	ER by Patient	Chickahominy	5-17	A11	GI	Regression/EWMA 1.2	800.0	4	2.111	23	7	92.329
Time Series	10Sep08	ER by Patient	Chickahominy	65+	A11	GI	Regression/EWMA 1 2	0.039	6	3 481	38	31	96 712

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	<u>Time Se</u>	nies 10Sep08	ER by Patient	Chickahominy	65+	All	GI	Regression/EWMA 1.2	0.039	6	3.481	38	31	96.712	
	<u>Time Se</u>	ries 10Sep08	ER by Patient	Chickahominy	All	A11	GI	Regression/EWMA 1.2	0.03	30	21.893	38	26	100	
	Time Se	ries 10Sep08	ER by Patient	Crater	18-44	All	GI	Regression/EWMA 1.2	0.022	7	4.37	39	28	98.082	
	Time Se	ries 10Sep08	ER by Patient	Hampton	5-17	A11	GI	Regression/EWMA 1.2	0.042	3	1.821	26	23	86.027	
	Time Se	ries 10Sep08	ER by Patient	Henrico	5-17	A11	GI	Regression/EWMA 1.2	0.005	7	3.786	20	4	99.452	
	<u>Time Se</u>	ries 10Sep08	ER by Patient	Loudoun	65+	A11	GI	Regression/EWMA 1.2	0.01	4	2.538	25	12	93.151	
	<u>Time Se</u>	ries 10Sep08	ER by Patient	Peninsula	5-17	A11	GI	Regression/EWMA 1.2	0.035	9	5.423	28	21	98.356	
	<u>Time Se</u>	nies 10Sep08	ER by Patient	Piedmont	All	A11	GI	Regression/EWMA 1.2	0.015	17	13.429	40	21	100	
	Time Se	nies 10Sep08	ER by Patient	Piedmont	45-64	A11	GI	Regression/EWMA 1.2	0.013	7	3.259	23	9	94.521	
	<u>Time Se</u>	ries 10Sep08	ER by Patient	Richmond	All	All	GI	Regression/EWMA 1.2	0.044	31	23	38	36	100	
	Time Se	ries 10Sep08	ER by Patient	Roanoke	0-4	A11	GI	Regression/EWMA 1.2	0.006	5	1.5	23	6	82.74	
	Time Se	ries 10Sep08	ER by Patient	Three Rivers	0-4	A11	GI	Regression/EWMA 1.2	0.007	3	0.833	15	8	69.863	
	Time Se	ries 10Sep08	ER by Patient	Virginia Beach	0-4	A11	GI	Regression/EWMA 1.2	800.0	8	3.679	22	6	98.63	
	Time Se	ries 10Sep08	ER by Patient	West Piedmont	5-17	A11	GI	Regression/EWMA 1.2	0.04	3	1.083	21	18	67.397	
	Time Se	ries 10Sep08	ER by Patient	Western Tidewater	65+	A11	GI	Regression/EWMA 1.2	0.034	2	0.393	25	19	47.397	
	Time Se	ries 10Sep08	ER by Patient	Central Virginia	5-17	A11	Loc_Les	Regression/EWMA 1.2	800.0	2	0.357	22	10	25.205	
	Time Se	ries 10Sep08	ER by Patient	Crater	18-44	A11	Loc_Les	Regression/EWMA 1.2	0.023	4	1.579	26	16	61.096	
	Time Se	ries 10Sep08	ER by Patient	Piedmont	All	A11	Loc_Les	Regression/EWMA 1.2	0.01	5	1.792	26	13	64.658	
	Time Se	ries 10Sep08	ER by Patient	Piedmont	5-17	A11	Loc_Les	Regression/EWMA 1.2	0.005	2	0.179	10	5	10.137	
	Time Se	ries 10Sep08	ER by Patient	Richmond	5-17	A11	Loc_Les	Regression/EWMA 1.2	0.038	2	0.429	31	29	31.781	
	Time Se	ries 10Sep08	ER by Patient	Western Tidewater	0-4	A11	Loc_Les	Regression/EWMA 1.2	0.001	2	0.107	9	1	11.781	
	Time Se	ries 10Sep08	ER by Patient	Western Tidewater	45-64	A11	Loc_Les	Regression/EWMA 1.2	0.04	1	0.25	22	18	19.726	
	Time Se	ries 10Sep08	ER by Patient	Western Tidewater	A11	A11	Loc_Les	Regression/EWMA 1.2	0.014	3	1.167	17	7	65.479	
	Time Se	ries 10Sep08	ER by Patient	Fairfax	45-64	A11	Lymph	Regression/EWMA 1.2	0.038	2	0.429	22	21	37.26	
	Time Se	ries 10Sep08	ER by Patient	Rappahannock	45-64	A11	Lymph	Regression/EWMA 1.2	0.001	2	0.036	8	2	12.055	
	Time Se	ries 10Sep08	ER by Patient	Rappahannock Rapidan	18-44	A11	Lymph	Regression/EWMA 1.2	0.007	2	0.286	19	11	15.068	
	Time Se	ries 10Sep08	ER by Patient	Rappahannock Rapidan	A11	A11	Lymph	Regression/EWMA 1.2	0.001	3	0.393	24	4	28.219	
	Time Se	ries 10Sep08	ER by Patient	Chickahominy	All	A11	Neuro	Regression/EWMA 1.2	0.042	3	1.04	17	13	70.137	
	Time Se	ries 10Sep08	ER by Patient	Henrico	45-64	A11	Neuro	Regression/EWMA 1.2	0.014	3	0.679	21	9	59.178	
	Time Se	ries 10Sep08	ER by Patient	New River	45-64	A11	Neuro	Regression/EWMA 1.2	0.007	2	0.286	20	10	30.137	
	Time Se	ries 10Sep08	ER by Patient	New River	All	A11	Neuro	Regression/EWMA 1.2	0.003	4	1.263	21	6	66.301	
	Time Se	ries 10Sep08	ER by Patient	New River	65+	A11	Neuro	Regression/EWMA 1.2	0.005	2	0.321	26	6	37.808	
	Time Se	ries 10Sep08	ER by Patient	Rappahannock	45-64	A11	Neuro	Regression/EWMA 1.2	0	4	0.321	23	1	46.301	
	Time Se	ries 10Sep08	ER by Patient	Rappahannock	All	A11	Neuro	Regression/EWMA 1.2	0.034	4	1.357	23	17	79.452	
	Time Se	ries 10Sep08	ER by Patient	Rappahannock Rapidan	45-64	A11	Neuro	Regression/EWMA 1.2	0	3	0.357	26	4	23.014	~
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Time Series10Sep08ER by PatientChickahominy0-4AllRespRegression/EWMA 1Time Series10Sep08Over-the-Counter Chain 2CraterAllAllRespRegression/EWMA 1Time Series10Sep08ER by PatientCrater5-17AllRespRegression/EWMA 1Time Series10Sep08ER by PatientEastern Shore5-17AllRespRegression/EWMA 1Time Series10Sep08ER by PatientEastern ShoreAllAllRespRegression/EWMA 1Time Series10Sep08ER by PatientEastern ShoreAllAllRespRegression/EWMA 1Time Series10Sep08ER by PatientEastern Shore18-44AllRespRegression/EWMA 1Time Series10Sep08ER by PatientFairfax5-17AllRespRegression/EWMA 1Time Series10Sep08Over-the-Counter Chain 2FairfaxAllAllRespRegression/EWMA 1Time Series10Sep08Over-the-Counter Chain 2FairfaxAllAllAllRespRegression/EWMA 1Time Series10Sep08ER by PatientHenrico5-17AllRespRegression/EWMA 1Time Series10Sep08ER by PatientHenrico5-17AllRespRegression/EWMA 1Time Series10Sep08ER by PatientHenrico5-17AllRespRegression/EWMA 1Time Series10Sep08ER by Patient <td>.2 0.02</td> <td><mark>24</mark>51</td> <td>35.786</td> <td>28</td> <td>19</td> <td>69.589</td> <td></td>	.2 0.02	<mark>24</mark> 51	35.786	28	19	69.589	
Time Series10Sep08Over-the-Counter Chain 2CraterAllAllRespRegression/EWMA 1Time Series10Sep08ER by PatientCrater5-17AllRespRegression/EWMA 1Time Series10Sep08ER by PatientEastern Shore5-17AllRespRegression/EWMA 1Time Series10Sep08ER by PatientEastern ShoreAllAllRespRegression/EWMA 1Time Series10Sep08ER by PatientEastern ShoreAllAllRespRegression/EWMA 1Time Series10Sep08ER by PatientEastern Shore18-44AllRespRegression/EWMA 1Time Series10Sep08ER by PatientFairfax5-17AllRespRegression/EWMA 1Time Series10Sep08ER by PatientFairfax5-17AllRespRegression/EWMA 1Time Series10Sep08Over-the-Counter Chain 2FairfaxAllAllRespRegression/EWMA 1Time Series10Sep08Over-the-Counter Chain 2HamptonAllAllRespRegression/EWMA 1Time Series10Sep08ER by PatientHenrico5-17AllRespRegression/EWMA 1Time Series10Sep08ER by PatientHenrico5-17AllRespRegression/EWMA 1Time Series10Sep08ER by PatientHenrico0-4AllRespRegression/EWMA 1Time Series10Sep08Over-the-Counter Chain 2	.2 <mark>0.0</mark> 4	<mark>49</mark> 3	0.821	50	50	77.808	
Time Series10Sep08ER by PatientCrater5-17AllRespRegression/EWMA 1Time Series10Sep08ER by PatientEastern Shore5-17AllRespRegression/EWMA 1Time Series10Sep08ER by PatientEastern ShoreAllAllRespRegression/EWMA 1Time Series10Sep08ER by PatientEastern ShoreAllAllRespRegression/EWMA 1Time Series10Sep08ER by PatientEastern Shore18-44AllRespRegression/EWMA 1Time Series10Sep08ER by PatientFairfax5-17AllRespRegression/EWMA 1Time Series10Sep08Over-the-Counter Chain 2FairfaxAllAllRespRegression/EWMA 1Time Series10Sep08Over-the-Counter Chain 2HamptonAllAllRespRegression/EWMA 1Time Series10Sep08ER by PatientHenrico5-17AllRespRegression/EWMA 1Time Series10Sep08ER by PatientHenrico5-17AllRespRegression/EWMA 1Time Series10Sep08ER by PatientHenrico0-4AllRespRegression/EWMA 1Time Series10Sep08Over-the-Counter Chain 2Lord FairfaxAllAllRespRegression/EWMA 1Time Series10Sep08Over-the-Counter Chain 2Lord FairfaxAllAllRespRegression/EWMA 1Time Series10Sep08Over-the-Cou	.2 0.02	2 46	31.071	20	10	69.589	
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Time Series10Sep08ER by PatientHenrico5-17AllRespRegression/EWMA 1.Time Series10Sep08ER by PatientHenrico0-4AllRespRegression/EWMA 1.Time Series10Sep08Over-the-Counter Chain 2Lord FairfaxAllAllRespRegression/EWMA 1.Time Series10Sep08Over-the-Counter Chain 2Lord FairfaxAllAllRespRegression/EWMA 1.Time Series10Sep08Over-the-Counter Chain 2LoudounAllAllRespRegression/EWMA 1.	.2 0.00	3 83	63.929	35	14	69.589	
Time Series10Sep08ER by PatientHenrico0-4AllRespRegression/EWMA 1.Time Series10Sep08Over-the-Counter Chain 2Lord FairfaxAllAllRespRegression/EWMA 1.Time Series10Sep08Over-the-Counter Chain 2Lord FairfaxAllAllRespRegression/EWMA 1.Time Series10Sep08Over-the-Counter Chain 2LoudounAllAllRespRegression/EWMA 1.	.2 0.03	37 5	3.037	40	35	98.904	
Time Series 10Sep08 Over-the-Counter Chain 2 Lord Fairfax All All All Resp Regression/EWMA 1 Time Series 10Sep08 Over-the-Counter Chain 2 Loudoun All All All Resp Regression/EWMA 1	.2 0.01	18 8	3.32	41	22	96.164	
Time Series 10Sep08 Over-the-Counter Chain 2 Loudoun All All All Resp Regression/EWMA 1	.2 0.03	38 40	31.964	31	27	69.589	
	.2 0.00	1 84	50.393	32	5	69.589	
Time Series 10Sep08 Over-the-Counter Chain 2 New River All All Resp Regression/EWMA 1.	.2 0.00	07 23	14.25	34	14	69.589	
Time Series 10Sep08 ER by Patient New River 0-4 All Resp Regression/EWMA 1.	.2 0.00	<mark>03</mark> 4	1.04	43	8	80.274	
Time Series 10Sep08 ER by Patient New River 18-44 All Resp Regression/EWMA 1.	.2 0.00	13	6.429	30	11	99.452	
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	ime (Series 1	10Sep08	ER by Patient	New River	5-17	A11	Resp	Regression/EWMA 1.2	0.008	2	0.607	27	16	74.795	-
1	lime S	Series 1	10Sep08	ER by Patient	New River	A11	A11	Resp	Regression/EWMA 1.2	0	30	15.143	44	7	100	
1	lime S	Series 1	10Sep08	Over-the-Counter Chain 2	Norfolk	A11	A11	Resp	Regression/EWMA 1.2	0.003	102	71	36	13	69.589	
1	lime S	Series 1	10Sep08	Over-the-Counter Chain 2	Peninsula	A11	A11	Resp	Regression/EWMA 1.2	0.01	114	90.107	40	17	69.589	
1	lime S	Series 1	10Sep08	ER by Patient	Peninsula	5-17	A11	Resp	Regression/EWMA 1.2	0.005	10	4.536	63	23	98.904	_
1	lime S	Series 1	10Sep08	ER by Patient	Piedmont	18-44	A11	Resp	Regression/EWMA 1.2	0.004	10	4.769	37	9	98.63	
1	Time S	Series 1	10Sep08	ER by Patient	Piedmont	All	A11	Resp	Regression/EWMA 1.2	0.008	18	11.357	46	17	100	
1	lime S	Series 1	10Sep08	Over-the-Counter Chain 2	Portsmouth	A11	All	Resp	Regression/EWMA 1.2	0	72	32.036	33	2	69.589	
1	Time S	Series 1	10Sep08	Over-the-Counter Chain 2	Prince William	All	A11	Resp	Regression/EWMA 1.2	0.009	25	16.036	17	5	69.589	
1	lime S	Series 1	10Sep08	ER by Patient	Prince William	0-4	A11	Resp	Regression/EWMA 1.2	0.014	8	3.481	43	16	98.356	
1	Time S	Series 1	10Sep08	ER by Patient	Rappahannock	5-17	A11	Resp	Regression/EWMA 1.2	0.002	6	2.179	37	5	93.425	
1	lime S	Series 1	10Sep08	Over-the-Counter Chain 2	Rappahannock	All	A11	Resp	Regression/EWMA 1.2	0.001	102	61	34	7	69.589	
1	lime S	Series 1	10Sep08	ER by Patient	Rappahannock	All	A11	Resp	Regression/EWMA 1.2	0.003	36	22.071	38	5	100	
1	lime S	Series 1	10Sep08	ER by Patient	Rappahannock Rapidan	A11	A11	Resp	Regression/EWMA 1.2	0.006	16	9.786	31	7	100	
1	lime S	Series 1	10Sep08	Over-the-Counter Chain 2	Rappahannock Rapidan	All	A11	Resp	Regression/EWMA 1.2	0.002	49	26.786	30	3	69.589	
1	lime S	Series 1	10Sep08	ER by Patient	Rappahannock Rapidan	5-17	A11	Resp	Regression/EWMA 1.2	0	6	0.788	21	3	69.315	
1	lime S	Series 1	10Sep08	ER by Patient	Richmond	5-17	A11	Resp	Regression/EWMA 1.2	0.036	4	1.522	41	34	84.932	
1	lime S	Series 1	10Sep08	ER by Patient	Richmond	18-44	A11	Resp	Regression/EWMA 1.2	0.028	10	8.321	41	34	100	
1	lime S	Series 1	10Sep08	ER by Patient	Richmond	45-64	A11	Resp	Regression/EWMA 1.2	0.01	9	4.5	35	18	99.726	
1	lime S	Series 1	10Sep08	Over-the-Counter Chain 2	Richmond	A11	A11	Resp	Regression/EWMA 1.2	0.031	26	21.893	35	30	69.589	
1	lime S	Series 1	10Sep08	ER by Patient	Richmond	All	A11	Resp	Regression/EWMA 1.2	0.002	26	18.964	43	15	100	
1	lime S	Series 1	10Sep08	ER by Patient	Roanoke	A11	A11	Resp	Regression/EWMA 1.2	0.009	22	12.25	39	17	100	
1	lime S	Series 1	10Sep08	ER by Patient	Roanoke	5-17	A11	Resp	Regression/EWMA 1.2	0	6	1.036	34	1	79.726	
1	lime S	Series 1	10Sep08	ER by Patient	Thomas Jefferson	5-17	A11	Resp	Regression/EWMA 1.2	0.047	3	1.231	24	23	70.411	
1	lime S	Series 1	10Sep08	ER by Patient	Three Rivers	5-17	A11	Resp	Regression/EWMA 1.2	0.008	3	1.214	45	21	87.945	
1	lime S	Series 1	10Sep08	ER by Patient	Three Rivers	18-44	A11	Resp	Regression/EWMA 1.2	0.014	13	6.75	42	13	100	
1	Time S	Series 1	10Sep08	Over-the-Counter Chain 2	Three Rivers	A11	A11	Resp	Regression/EWMA 1.2	0.021	73	50.321	29	14	69.589	
1	lime S	Series 1	10Sep08	Over-the-Counter Chain 2	Virginia Beach	A11	All	Resp	Regression/EWMA 1.2	0.041	310	267.968	39	38	69.589	
1	lime S	Series 1	10Sep08	ER by Patient	Virginia Beach	A11	A11	Resp	Regression/EWMA 1.2	0.031	65	55.571	60	45	100	
1	lime S	Series 1	10Sep08	ER by Patient	Virginia Beach	0-4	All	Resp	Regression/EWMA 1.2	0.02	11	5.036	42	23	99.726	
1	Time S	Series 1	10Sep08	ER by Patient	West Piedmont	0-4	A11	Resp	Regression/EWMA 1.2	0.013	4	1.321	36	12	72.329	
1	lime S	Series 1	10Sep08	ER by Patient	Alexandria	45-64	A11	SI_Death	Regression/EWMA 1.2	0.003	2	0.179	17	4	18.356	
1	lime S	Series 1	10Sep08	ER by Patient	Fairfax	65+	A11	SI_Death	Regression/EWMA 1.2	0.038	4	1.529	25	18	56.438	
1	lime S	Series 1	10Sep08	ER by Patient	Fairfax	A11	All	SI_Death	Regression/EWMA 1.2	0.008	6	2.074	25	9	81.644	
1	lime S	Series	10Sep08	ER by Patient	New River	A11	A11	SI Death	Regression/EWMA 1.2	0.005	1	0.214	34	12	27.945	~
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	Time Ser	ies 10Sep08	ER by Patient	New River	All	A11	SI_Death	Regression/EWMA 1.2	0.005	1	0.214	34	12	27.945	
	Time Ser	ies 10Sep08	ER by Patient	Norfolk	65+	A11	SI_Death	Regression/EWMA 1.2	0.024	2	0.393	28	17	39.178	
	Time Ser	ies 10Sep08	ER by Patient	Prince William	45-64	A11	SI_Death	Regression/EWMA 1.2	0.034	1	0.214	21	19	32.603	
	Time Ser	ies 09Sep08	ER by Patient	Rappahannock	18-44	A11	Bot_Like	Regression/EWMA 1.2	0.001	1	0.033	1	1	2.192	
	Time Ser	ies 09Sep08	ER by Patient	Rappahannock	All	A11	Bot_Like	Regression/EWMA 1.2	0.043	1	0.143	2	2	6.575	
	Time Ser	ies 09Sep08	Over-the-Counter Chain 2	Crater	All	A11	Fever	Regression/EWMA 1.2	0.016	3	1.036	29	18	57.26	
	Time Ser	ies 09Sep08	ER by Patient	Fairfax	65+	A11	Fever	Regression/EWMA 1.2	0.007	8	2.607	18	4	91.233	
	Time Ser	ies 09Sep08	Over-the-Counter Chain 2	Henrico	All	A11	Fever	Regression/EWMA 1.2	0.04	4	1.5	27	24	60.274	-
	Time Ser	ies 09Sep08	Over-the-Counter Chain 2	Piedmont	All	A11	Fever	Regression/EWMA 1.2	0.002	5	0.821	29	12	41.096	
	Time Ser	ies 09Sep08	ER by Patient	Piedmont	5-17	A11	Fever	Regression/EWMA 1.2	0.031	1	0.536	34	28	54.521	
	Time Ser	ies 09Sep08	Over-the-Counter Chain 2	Portsmouth	All	A11	Fever	Regression/EWMA 1.2	0.005	5	1.5	22	8	55.342	
	<u>Time Ser</u>	ies 09Sep08	ER by Patient	Richmond	65+	A11	Fever	Regression/EWMA 1.2	0.005	2	0.571	27	8	49.041	
	Time Ser	ies 09Sep08	Over-the-Counter Chain 3	Southside	All	A11	Fever	Regression/EWMA 1.2	0.037	3	1.893	28	25	54.795	
	Time Ser	ies 09Sep08	ER by Patient	Three Rivers	65+	A11	Fever	Regression/EWMA 1.2	0.031	2	1	21	16	55.068	
	Time Ser	ies 09Sep08	ER by Patient	Virginia Beach	65+	A11	Fever	Regression/EWMA 1.2	0.018	4	1.107	26	14	62.192	
	Time Ser	ies 09Sep08	ER by Patient	Western Tidewater	18-44	A11	Fever	Regression/EWMA 1.2	0.021	1	0.321	26	14	41.37	
	Time Ser	ies 09Sep08	ER by Patient	Chesapeake	18-44	A11	GI	Regression/EWMA 1.2	0.032	22	14.464	33	25	100	
	Time Ser	ies 09Sep08	ER by Patient	Chesterfield	65+	A11	GI	Regression/EWMA 1.2	0.004	11	4.75	45	16	99.452	
	Time Ser	ies 09Sep08	Over-the-Counter Chain 2	Chesterfield	All	A11	GI	Regression/EWMA 1.2	0.018	23	13.143	23	14	69.315	
	Time Ser	ies 09Sep08	ER by Patient	Chickahominy	5-17	A11	GI	Regression/EWMA 1.2	0.002	6	2.074	22	2	92.329	
	Time Ser	ies 09Sep08	ER by Patient	Danville	5-17	A11	GI	Regression/EWMA 1.2	0.001	1	0.033	13	2	21.37	
	Time Ser	ies 09Sep08	ER by Patient	Hampton	5-17	A11	GI	Regression/EWMA 1.2	0.017	4	1.786	25	10	85.753	
	Time Ser	ies 09Sep08	ER by Patient	Hampton	All	A11	GI	Regression/EWMA 1.2	0.042	28	19.429	26	25	100	
	Time Ser	ies 09Sep08	ER by Patient	Henrico	5-17	A11	GI	Regression/EWMA 1.2	0.006	7	3.821	20	7	99.452	
	Time Ser	ies 09Sep08	ER by Patient	Loudoun	65+	A11	GI	Regression/EWMA 1.2	800.0	6	2.286	24	9	93.151	
	Time Ser	ies 09Sep08	ER by Patient	New River	65+	A11	GI	Regression/EWMA 1.2	0.004	8	3.407	35	12	95.89	
	Time Ser	ies 09Sep08	ER by Patient	Peninsula	45-64	A11	GI	Regression/EWMA 1.2	0.034	14	8.357	33	20	100	
	Time Ser	ies 09Sep08	ER by Patient	Piedmont	5-17	A11	GI	Regression/EWMA 1.2	0.017	4	1.2	26	16	75.616	
	Time Ser	ies 09Sep08	ER by Patient	Piedmont	All	A11	GI	Regression/EWMA 1.2	0.004	21	13.5	39	5	100	
	Time Ser	ies 09Sep08	ER by Patient	Portsmouth	18-44	A11	GI	Regression/EWMA 1.2	0.024	14	8.571	27	14	99.726	
	Time Ser	ies 09Sep08	ER by Patient	Prince William	5-17	A11	GI	Regression/EWMA 1.2	0.032	10	4.889	31	19	99.726	
	Time Ser	ies 09Sep08	ER by Patient	Rappahannock Rapidan	0-4	A11	GI	Regression/EWMA 1.2	0	6	1.095	26	1	72.329	
	Time Ser	ies 09Sep08	ER by Patient	Richmond	65+	A11	GI	Regression/EWMA 1.2	0.028	5	2.357	35	21	89.589	
	Time Ser	ies 09Sep08	ER by Patient	West Piedmont	5-17	A11	GI	Regression/EWMA 1.2	0.03	4	1.083	20	12	67.397	
	Time Ser	ies 09Sep08	ER by Patient	Alexandria	45-64	A11	Loc Les	Regression/EWMA 1.2	0.024	1	0.357	21	14	21.37	~
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	Time Serie	<u>s</u> 09Sep08	ER by Patient	Alexandria	45-64	A11	Loc_Les	Regression/EWMA 1.2	0.024	1	0.357	21	14	21.37	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Alleghany	5-17	A11	Loc_Les	Regression/EWMA 1.2	0.023	1	0.429	17	11	17.808	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Central Virginia	18-44	A11	Loc_Les	Regression/EWMA 1.2	0.013	5	1.821	26	14	78.904	
	<u>Time Serie</u>	<u>s</u> 09Sep08	ER by Patient	Central Virginia	All	A11	Loc_Les	Regression/EWMA 1.2	0.042	6	3.643	30	29	91.233	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Chesterfield	All	A11	Loc_Les	Regression/EWMA 1.2	0.018	13	8	38	23	98.904	
	Time Serie	s 09Sep08	ER by Patient	Chesterfield	18-44	All	Loc_Les	Regression/EWMA 1.2	0.001	10	4.536	39	3	93.973	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Chickahominy	65+	A11	Loc_Les	Regression/EWMA 1.2	0.032	1	0.214	13	10	17.534	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	OTHER_REGION	45-64	A11	Loc_Les	Regression/EWMA 1.2	0.014	4	1.308	22	7	64.932	
	Time Serie	s 09Sep08	ER by Patient	Portsmouth	65+	All	Loc_Les	Regression/EWMA 1.2	0.019	1	0.036	13	5	13.973	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	West Piedmont	18-44	A11	Loc_Les	Regression/EWMA 1.2	800.0	4	1.231	21	7	55.342	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Western Tidewater	45-64	A11	Loc_Les	Regression/EWMA 1.2	0.017	2	0.25	21	11	19.452	
	<u>Time Serie</u>	<u>s</u> 09Sep08	ER by Patient	Western Tidewater	All	A11	Loc_Les	Regression/EWMA 1.2	0.01	4	1.125	16	6	65.205	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Alexandria	18-44	All	Lymph	Regression/EWMA 1.2	0.046	1	0.071	13	12	16.164	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Alexandria	All	A11	Lymph	Regression/EWMA 1.2	0.029	1	0.179	24	16	23.836	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Chickahominy	0-4	A11	Lymph	Regression/EWMA 1.2	0.025	1	0.071	1	1	1.918	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Henrico	5-17	A11	Lymph	Regression/EWMA 1.2	0.017	1	0.036	17	13	16.986	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Peninsula	18-44	A11	Lymph	Regression/EWMA 1.2	0.012	2	0.96	22	9	65.753	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Prince William	5-17	All	Lymph	Regression/EWMA 1.2	0.002	2	0.071	7	2	10.685	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Prince William	A11	All	Lymph	Regression/EWMA 1.2	0.003	3	0.857	26	4	56.438	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Henrico	65+	A11	Neuro	Regression/EWMA 1.2	0.001	4	0.893	20	2	60.274	
	Time Serie	s 09Sep08	ER by Patient	Portsmouth	A11	All	Neuro	Regression/EWMA 1.2	0.003	3	0.5	17	3	61.37	
	<u>Time Serie</u>	<u>s</u> 09Sep08	ER by Patient	Portsmouth	45-64	All	Neuro	Regression/EWMA 1.2	0.003	2	0.179	26	4	38.63	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Alleghany	5-17	All	Rash	Regression/EWMA 1.2	800.0	2	0.5	33	7	40.548	
	<u>Time Serie</u>	<u>s</u> 09Sep08	ER by Patient	Central Virginia	18-44	All	Rash	Regression/EWMA 1.2	0	9	2.13	30	1	77.26	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Central Virginia	All	All	Rash	Regression/EWMA 1.2	0	14	4.821	32	2	96.438	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Central Virginia	0-4	A11	Rash	Regression/EWMA 1.2	0.039	3	1.25	23	21	65.205	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Chickahominy	45-64	A11	Rash	Regression/EWMA 1.2	0.005	4	1.269	26	4	64.384	
	<u>Time Serie</u>	<u>s</u> 09Sep08	ER by Patient	Crater	0-4	All	Rash	Regression/EWMA 1.2	0.016	1	0.036	18	11	18.63	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Hampton	18-44	All	Rash	Regression/EWMA 1.2	0.003	3	1.115	19	6	71.233	
	Time Serie	s 09Sep08	ER by Patient	Henrico	All	A11	Rash	Regression/EWMA 1.2	0.036	24	14.179	34	22	100	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Henrico	65+	A11	Rash	Regression/EWMA 1.2	0.001	3	0.792	29	1	63.288	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Loudoun	45-64	A11	Rash	Regression/EWMA 1.2	0.037	2	0.5	23	20	27.671	
	Time Serie	s 09Sep08	ER by Patient	Thomas Jefferson	5-17	All	Rash	Regression/EWMA 1.2	0.014	2	0.393	23	9	32.877	
	Time Serie	<u>s</u> 09Sep08	ER by Patient	Thomas Jefferson	65+	All	Rash	Regression/EWMA 1.2	0.045	1	0.143	8	8	7.397	
	Time Serie	s 09Sep08	ER by Patient	Thomas Jefferson	All	A11	Rash	Regression/EWMA 1.2	0.01	5	2	29	10	84.11	~
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	Time S	<u>Series</u>	09Sep08	ER by Patient	Alleghany	0-4	A11	Resp	Regression/EWMA	1.2	0.007	4	0.821	26	13	74.795	-
	Time S	<u>Series</u>	09Sep08	ER by Patient	Arlington	65+	All	Resp	Regression/EWMA	1.2	0.012	5	1.571	18	10	91.233	
	Time S	<u>Series</u>	09Sep08	ER by Patient	Arlington	5-17	All	Resp	Regression/EWMA	1.2	0.01	2	0.321	28	11	46.027	
	Time ?	<u>Series</u>	09Sep08	ER by Patient	Central Shenandoah	18-44	A11	Resp	Regression/EWMA	1.2	0.011	2	0.5	29	8	47.945	
	Time S	<u>Series</u>	09Sep08	ER by Patient	Central Shenandoah	0-4	A11	Resp	Regression/EWMA	1.2	0.025	1	0.071	12	9	12.055	
	Time S	<u>Series</u>	09Sep08	ER by Patient	Central Virginia	0-4	A11	Resp	Regression/EWMA	1.2	0.001	10	3.333	33	1	97.26	
	Time S	<u>Series</u>	09Sep08	ER by Patient	Central Virginia	18-44	A11	Resp	Regression/EWMA	1.2	0.026	22	12	34	17	100	
	Time S	<u>Series</u>	09Sep08	ER by Patient	Central Virginia	65+	A11	Resp	Regression/EWMA	1.2	0.003	11	5.929	33	9	99.726	
	Time \$	<u>Series</u>	09Sep08	ER by Patient	Central Virginia	All	A11	Resp	Regression/EWMA	1.2	0	56	30.929	41	1	100	_
	Time \$	<u>Series</u>	09Sep08	ER by Patient	Chesapeake	All	A11	Resp	Regression/EWMA	1.2	0.038	42	33.107	52	42	100	
	Time S	<u>Series</u>	09Sep08	ER by Patient	Chesapeake	5-17	A11	Resp	Regression/EWMA	1.2	0.007	6	3.25	39	20	98.63	
	Time S	<u>Series</u>	09Sep08	Over-the-Counter Chain 2	Chesapeake	A11	A11	Resp	Regression/EWMA	1.2	0.047	158	121.75	25	24	69.315	
	Time S	<u>Series</u>	09Sep08	Over-the-Counter Chain 2	Chesterfield	A11	A11	Resp	Regression/EWMA	1.2	0.012	78	53.5	16	12	69.315	
	Time S	<u>Series</u>	09Sep08	ER by Patient	Chesterfield	A11	A11	Resp	Regression/EWMA	1.2	0.003	50	39.643	49	28	100	
	Time S	<u>Series</u>	09Sep08	ER by Patient	Chesterfield	65+	A11	Resp	Regression/EWMA	1.2	0.015	11	5.357	51	25	100	
	Time 8	<u>Series</u>	09Sep08	ER by Patient	Chickahominy	A11	A11	Resp	Regression/EWMA	1.2	0.043	22	18.107	44	40	100	
	Time S	<u>Series</u>	09Sep08	ER by Patient	Chickahominy	45-64	A11	Resp	Regression/EWMA	1.2	0.027	9	4.071	36	29	99.452	
	Time S	<u>Series</u>	09Sep08	ER by Patient	Crater	A11	A11	Resp	Regression/EWMA	1.2	0.031	12	6.679	39	31	100	
	Time S	<u>Series</u>	09Sep08	ER by Patient	Crater	5-17	A11	Resp	Regression/EWMA	1.2	0.024	1	0.321	32	22	52.603	
	Time S	<u>Series</u>	09Sep08	ER by Patient	Fairfax	65+	A11	Resp	Regression/EWMA	1.2	0.027	17	10.464	32	18	100	
	Time S	<u>Series</u>	09Sep08	ER by Patient	Fairfax	A11	A11	Resp	Regression/EWMA	1.2	0	79	57.893	46	3	100	
	Time S	<u>Series</u>	09Sep08	ER by Patient	Fairfax	18-44	All	Resp	Regression/EWMA	1.2	0	37	22.5	40	2	100	
	Time S	<u>Series</u>	09Sep08	Over-the-Counter Chain 2	Fairfax	A11	A11	Resp	Regression/EWMA	1.2	0.003	256	181.893	38	4	69.315	
	Time S	<u>Series</u>	09Sep08	Over-the-Counter Chain 2	Hampton	A11	A11	Resp	Regression/EWMA	1.2	0	96	63.214	34	5	69.315	
	Time S	<u>Series</u>	09Sep08	ER by Patient	Hampton	18-44	A11	Resp	Regression/EWMA	1.2	800.0	17	8.25	46	15	100	
	Time S	<u>Series</u>	09Sep08	ER by Patient	Henrico	18-44	A11	Resp	Regression/EWMA	1.2	0.017	33	20.786	44	30	100	
	Time S	<u>Series</u>	09Sep08	ER by Patient	Henrico	A11	A11	Resp	Regression/EWMA	1.2	0.019	63	46.286	41	30	100	
	Time S	<u>Series</u>	09Sep08	ER by Patient	Henrico	5-17	A11	Resp	Regression/EWMA	1.2	0.043	6	3.037	39	37	98.904	
	Time S	<u>Series</u>	09Sep08	Over-the-Counter Chain 2	Henrico	A11	A11	Resp	Regression/EWMA	1.2	0.016	51	36.5	33	21	69.315	
	Time S	<u>Series</u>	09Sep08	Over-the-Counter Chain 2	Lenowisco	A11	A11	Resp	Regression/EWMA	1.2	0.009	15	9.607	31	12	69.041	
	Time S	<u>Series</u>	09Sep08	Over-the-Counter Chain 3	Lenowisco	A11	A11	Resp	Regression/EWMA	1.2	0.018	42	22.321	25	15	68.219	
	Time S	Series	09Sep08	Over-the-Counter Chain 2	Lord Fairfax	A11	A11	Resp	Regression/EWMA	1.2	0.024	45	31.607	30	18	69.315	
	Time S	<u>Series</u>	09Sep08	Over-the-Counter Chain 2	Loudoun	A11	A11	Resp	Regression/EWMA	1.2	0.035	57	50.5	31	24	69.315	
	Time S	Series	09Sep08	ER by Patient	Loudoun	5-17	A11	Resp	Regression/EWMA	1.2	0.011	3	0.536	25	12	64.658	
	Time S	Series	09Sep08	ER by Patient	New River	5-17	A11	Resp	Regression/EWMA	1.2	0	5	0.536	26	1	74.521	~

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	Ime	e Senes	04Sep08	ER by Patient	Kappahannock	5-17	All	Loc_Les	Regression/EWMA 1.2	0.012	2	0.357	19	13	20.575	~
	Time	e Series	04Sep08	ER by Patient	Roanoke	0-4	A11	Loc_Les	Regression/EWMA 1.2	0.014	2	0.286	15	12	17.534	
	Time	e Series	04Sep08	ER by Patient	Thomas Jefferson	45-64	A11	Loc_Les	Regression/EWMA 1.2	0.012	1	0.179	19	9	24.932	
	Time	e Series	04Sep08	ER by Patient	Western Tidewater	45-64	A11	Loc_Les	Regression/EWMA 1.2	0.007	1	0.143	20	7	19.178	
	Time	e Series	04Sep08	ER by Patient	Piedmont	18-44	A11	Lymph	Regression/EWMA 1.2	0.031	1	0.107	16	15	19.726	
	Time	e Series	04Sep08	ER by Patient	Piedmont	All	A11	Lymph	Regression/EWMA 1.2	0.018	1	0.179	22	13	35.89	
	Time	e Series	04Sep08	ER by Patient	Rappahannock	18-44	A11	Lymph	Regression/EWMA 1.2	0.034	2	0.393	27	24	26.575	
	Time	e Series	04Sep08	ER by Patient	Rappahannock	All	A11	Lymph	Regression/EWMA 1.2	0.036	2	0.571	30	20	44.11	
	Time	e Series	04Sep08	ER by Patient	Alleghany	65+	A11	Neuro	Regression/EWMA 1.2	0.002	2	0.107	20	7	27.397	
	Time	e Series	04Sep08	ER by Patient	Norfolk	All	A11	Neuro	Regression/EWMA 1.2	0.02	4	2.25	28	15	86.027	
	Time	e Series	04Sep08	ER by Patient	Prince William	65+	A11	Neuro	Regression/EWMA 1.2	0.031	1	0.357	32	26	30.959	
	Time	e Series	04Sep08	ER by Patient	Rappahannock	45-64	A11	Neuro	Regression/EWMA 1.2	0	3	0.286	21	2	46.575	
	Time	e Series	04Sep08	ER by Patient	Western Tidewater	18-44	A11	Neuro	Regression/EWMA 1.2	0.002	2	0.143	4	3	6.301	
	Time	e Series	04Sep08	ER by Patient	Western Tidewater	All	A11	Neuro	Regression/EWMA 1.2	0	2	0.214	20	1	21.918	
	Time	e Series	04Sep08	ER by Patient	Central Virginia	45-64	A11	Rash	Regression/EWMA 1.2	0.002	2	0.5	26	3	43.014	
	Time	e Series	04Sep08	ER by Patient	Chesapeake	18-44	All	Rash	Regression/EWMA 1.2	0.046	8	4.222	27	27	93.425	
	Time	e Series	04Sep08	ER by Patient	Chesterfield	18-44	A11	Rash	Regression/EWMA 1.2	0.04	8	5.259	28	25	97.534	
	Time	e Series	04Sep08	ER by Patient	Henrico	18-44	A11	Rash	Regression/EWMA 1.2	0.044	11	6.179	31	28	98.356	
	Time	e Series	04Sep08	ER by Patient	Roanoke	18-44	A11	Rash	Regression/EWMA 1.2	0.027	2	1.036	30	20	68.493	
	Time	e Series	04Sep08	ER by Patient	Virginia Beach	45-64	A11	Rash	Regression/EWMA 1.2	0.014	7	3.429	24	10	95.89	
	Time	e Series	04Sep08	ER by Patient	Western Tidewater	0-4	A11	Rash	Regression/EWMA 1.2	0.003	2	0.214	20	7	25.753	
	Time	e Series	04Sep08	Over-the-Counter Chain 2	Arlington	A11	A11	Resp	Regression/EWMA 1.2	0.002	130	91.119	23	5	67.945	
	Time	e Series	04Sep08	Over-the-Counter Chain 2	Central Shenandoah	All	A11	Resp	Regression/EWMA 1.2	0.003	85	59.25	36	12	67.945	
	Time	e Series	04Sep08	ER by Patient	Central Virginia	18-44	A11	Resp	Regression/EWMA 1.2	0.038	21	11.929	33	27	100	
	Time	e Series	04Sep08	ER by Patient	Central Virginia	5-17	A11	Resp	Regression/EWMA 1.2	0.004	6	2.154	33	8	89.863	
	Time	e Series	04Sep08	ER by Patient	Central Virginia	All	A11	Resp	Regression/EWMA 1.2	0.008	38	30.071	40	8	100	
	Time	e Series	04Sep08	Over-the-Counter Chain 2	Chickahominy	All	A11	Resp	Regression/EWMA 1.2	0.001	52	32.357	26	7	67.945	
	Time	e Series	04Sep08	Over-the-Counter Chain 2	Cumberland Plateau	All	All	Resp	Regression/EWMA 1.2	0.001	26	11.929	35	3	67.945	
	Time	e Series	04Sep08	ER by Patient	Fairfax	5-17	A11	Resp	Regression/EWMA 1.2	0.019	8	5.185	46	20	98.904	
	Time	e Series	04Sep08	ER by Patient	Hampton	5-17	All	Resp	Regression/EWMA 1.2	0.034	3	1.577	35	29	88.219	
	Time	e Series	04Sep08	ER by Patient	Hampton	0-4	A11	Resp	Regression/EWMA 1.2	0.001	6	1.75	38	3	88.493	
	Time	e Series	04Sep08	Over-the-Counter Chain 2	Hampton	All	A11	Resp	Regression/EWMA 1.2	0.004	73	58.429	29	11	67.945	
	Time	e Series	04Sep08	Over-the-Counter Chain 2	Henrico	All	A11	Resp	Regression/EWMA 1.2	0.017	42	34.25	31	21	67.945	
	Time	e Series	04Sep08	Over-the-Counter Chain 2	Lord Fairfax	All	A11	Resp	Regression/EWMA 1.2	0.043	35	28.536	26	25	67.945	
	Time	e Series	04Sep08	Over-the-Counter Chain 2	Loudoun	All	A11	Resp	Regression/EWMA 1.2	0.023	61	47.821	27	18	67.945	
	Time	Carias	018-00	Orrer the Counter Chain ?	Mount Dogora	A 11	A 11	Darp	Degreesion/EW/MA 1 2	0.000	21	20 107	25	10	67 045	×

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	Ime	e Senes	04Sep08	Over-the-Counter Cham 2	Loudoun	All	All	Kesp	Kegression/EWMA 1.2	0.023	61	47.821	27	18	07.945	
	Time	e Series	04Sep08	Over-the-Counter Chain 2	Mount Rogers	A11	A11	Resp	Regression/EWMA 1.2	0.008	31	20,107	35	18	67.945	
	Time	e Series	04Sep08	ER by Patient	Mount Rogers	45-64	A11	Resp	Regression/EWMA 1.2	0.003	1	0.25	24	6	27.397	
	Time	e Series	04Sep08	Over-the-Counter Chain 2	New River	A11	A11	Resp	Regression/EWMA 1.2	0.004	26	12.393	29	7	67.945	
	Time	e Series	04Sep08	Over-the-Counter Chain 2	Norfolk	A11	A11	Resp	Regression/EWMA 1.2	0.027	93	68.857	32	26	67.945	
	Time	e Series	04Sep08	ER by Patient	Norfolk	45-64	A11	Resp	Regression/EWMA 1.2	0.038	11	8	54	39	99.452	
	Time	e Series	04Sep08	ER by Patient	Norfolk	All	A11	Resp	Regression/EWMA 1.2	0.025	42	34.857	54	40	100	
	Time	e Series	04Sep08	ER by Patient	Peninsula	A11	A11	Resp	Regression/EWMA 1.2	0.011	63	46.75	68	38	100	
	Time	e Series	04Sep08	ER by Patient	Peninsula	5-17	A11	Resp	Regression/EWMA 1.2	0.01	6	3.679	61	32	98.904	
	Time	e Series	04Sep08	ER by Patient	Peninsula	0-4	A11	Resp	Regression/EWMA 1.2	0.002	8	3.714	58	8	98.356	
	Time	e Series	04Sep08	Over-the-Counter Chain 2	Peninsula	A11	A11	Resp	Regression/EWMA 1.2	0.047	113	86.964	37	36	67.945	
	Time	e Series	04Sep08	Over-the-Counter Chain 2	Piedmont	A11	A11	Resp	Regression/EWMA 1.2	0.005	22	13.536	27	8	67.945	
	Time	e Series	04Sep08	Over-the-Counter Chain 2	Portsmouth	All	A11	Resp	Regression/EWMA 1.2	0.004	50	31.25	29	9	67.945	
	Time	e Series	04Sep08	Over-the-Counter Chain 2	Rappahannock	A11	A11	Resp	Regression/EWMA 1.2	0	82	54	30	6	67.945	
	Time	e Series	04Sep08	ER by Patient	Rappahannock	All	A11	Resp	Regression/EWMA 1.2	0.026	32	21.107	33	22	100	
	Time	e Series	04Sep08	ER by Patient	Rappahannock	0-4	A11	Resp	Regression/EWMA 1.2	0.003	5	1.56	32	8	95.342	
	Time	e Series	04Sep08	ER by Patient	Rappahannock Rapidan	45-64	A11	Resp	Regression/EWMA 1.2	0.027	5	1.929	32	21	88.767	
	Time	e Series	04Sep08	ER by Patient	Rappahannock Rapidan	5-17	A11	Resp	Regression/EWMA 1.2	0	8	0.75	21	1	69.589	
	Time	e Series	04Sep08	ER by Patient	Rappahannock Rapidan	All	A11	Resp	Regression/EWMA 1.2	0.023	16	9.286	31	23	100	
	Time	e Series	04Sep08	Over-the-Counter Chain 2	Rappahannock Rapidan	All	A11	Resp	Regression/EWMA 1.2	0.026	29	24.571	26	18	67.945	
	Time	e Series	04Sep08	Over-the-Counter Chain 2	Richmond	All	A11	Resp	Regression/EWMA 1.2	0.001	31	19.143	31	8	67.945	
	Time	e Series	04Sep08	ER by Patient	Southside	18-44	A11	Resp	Regression/EWMA 1.2	0.005	2	0.286	22	6	27.123	
	Time	e Series	04Sep08	ER by Patient	Thomas Jefferson	18-44	A11	Resp	Regression/EWMA 1.2	0.027	8	5.893	38	27	100	
	Time	e Series	04Sep08	ER by Patient	Virginia Beach	0-4	A11	Resp	Regression/EWMA 1.2	0.003	12	4.643	38	8	99.452	
	Time	e Series	04Sep08	ER by Patient	Virginia Beach	45-64	A11	Resp	Regression/EWMA 1.2	0.046	19	12.357	37	35	100	
	Time	e Series	04Sep08	ER by Patient	Virginia Beach	A11	A11	Resp	Regression/EWMA 1.2	0.043	75	54.179	56	54	100	
	Time	e Series	04Sep08	ER by Patient	West Piedmont	5-17	A11	Resp	Regression/EWMA 1.2	0.04	2	0.85	27	24	64.384	
	Time	e Series	04Sep08	Over-the-Counter Chain 2	Western Tidewater	All	A11	Resp	Regression/EWMA 1.2	0.011	39	28.607	26	10	67.945	
	Time	e Series	04Sep08	ER by Patient	Arlington	45-64	A11	SI_Death	Regression/EWMA 1.2	0.048	1	0.071	6	5	7.945	
	Time	e Series	04Sep08	ER by Patient	Central Virginia	65+	A11	SI_Death	Regression/EWMA 1.2	0.047	1	0.214	18	18	28.219	
	Time	e Series	04Sep08	ER by Patient	Central Virginia	All	A11	SI_Death	Regression/EWMA 1.2	0.038	1	0.357	26	22	45.753	
	Time	e Series	04Sep08	ER by Patient	Henrico	All	All	SI_Death	Regression/EWMA 1.2	0.024	3	0.75	37	24	57.534	
	Time	e Series	04Sep08	ER by Patient	Henrico	65+	All	SI_Death	Regression/EWMA 1.2	0	3	0.25	30	2	32.603	
	Time	e Series	04Sep08	ER by Patient	Portsmouth	All	All	SI_Death	Regression/EWMA 1.2	0.031	2	0.464	22	13	49.041	
	Time	e Series	04Sep08	ER by Patient	Portsmouth	45-64	A11	SI_Death	Regression/EWMA 1.2	0.002	2	0.071	11	1	18.63	

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Our Usual Way to Focus on Statistical Flags

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Links	Date	Data Source	A Region	Age	<u>Sex</u>	A Syndrome	Detector	Level	<u>Count</u>	Expected	RareColor	<u>RareLevel</u>	<u>NonZero</u>
Time Series	11Sep08	ER by Patient	New River	A11	A11	Bot_Like	Regression/EWMA 1.2	0.039	1	0.036	1	1	4.384
Time Series	11Sep08	ER by Patient	New River	45-64	A11	Fever	Regression/EWMA 1.2	0.011	2	0.25	26	11	27.671
Time Series	11Sep08	ER by Patient	West Piedmont	5-17	A11	Fever	Regression/EWMA 1.2	0.013	1	0.214	17	9	42.74
Time Series	11Sep08	ER by Patient	Crater	18-44	A11	GI	Regression/EWMA 1.2	0.009	7	4.407	39	18	98.082
Time Series	11Sep08	ER by Patient	Piedmont	45-64	A11	GI	Regression/EWMA 1.2	0.012	6	3.407	24	9	94.521
Time Series	11Sep08	ER by Patient	Piedmont	A11	A11	GI	Regression/EWMA 1.2	0.007	22	13.75	41	12	100
Time Series	11Sep08	ER by Patient	West Piedmont	5-17	A11	GI	Regression/EWMA 1.2	0.018	3	1.042	22	7	67.397
Time Series	11Sep08	ER by Patient	Piedmont	0-4	A11	Loc_Les	Regression/EWMA 1.2	0.019	1	0.143	6	4	9.041
Time Series	11Sep08	ER by Patient	Rappahannock	A11	A11	Lymph	Regression/EWMA 1.2	0.036	2	0.607	31	20	44.11
Time Series	11Sep08	ER by Patient	Crater	0-4	A11	Rash	Regression/EWMA 1.2	0.035	1	0.107	19	17	18.904
Time Series	11Sep08	ER by Patient	New River	5-17	A11	Resp	Regression/EWMA 1.2	0.006	2	0.607	28	13	74.795
Time Series	11Sep08	ER by Patient	Piedmont	18-44	A11	Resp	Regression/EWMA 1.2	0.023	7	4.846	37	24	98.63
Time Series	11Sep08	ER by Patient	Piedmont	A11	A11	Resp	Regression/EWMA 1.2	0.041	13	11.393	46	39	100
Time Series	11Sep08	ER by Patient	Three Rivers	18-44	A11	Resp	Regression/EWMA 1.2	0.035	9	6.786	43	33	100
Time Series	11Sep08	ER by Patient	West Piedmont	5-17	A11	Resp	Regression/EWMA 1.2	0.014	3	0.96	26	11	64.11
Time Series	10Sep08	ER by Patient	Chesapeake	18-44	A11	Fever	Regression/EWMA 1.2	0.011	5	2.269	34	14	92.603
Time Series	10Sep08	ER by Patient	Chickahominy	65+	A11	Fever	Regression/EWMA 1.2	0.047	3	0.821	31	30	58.63
Time Series	10Sep08	ER by Patient	Crater	A11	A11	Fever	Regression/EWMA 1.2	0.037	6	2.214	47	37	90.411
Time Series	10Sep08	ER by Patient	Crater	18-44	A11	Fever	Regression/EWMA 1.2	0.005	3	0.5	41	12	44.11
Time Series	10Sep08	ER by Patient	Fairfax	45-64	A11	Fever	Regression/EWMA 1.2	0.036	6	2.815	29	26	91.781
Time Series	10Sep08	Over-the-Counter Chain 2	Henrico	A11	A11	Fever	Regression/EWMA 1.2	0.017	4	1.5	28	19	60.548
Time Series	10Sep08	Over-the-Counter Chain 2	New River	A11	A11	Fever	Regression/EWMA 1.2	0.026	3	0.821	29	24	44.11
Time Series	10Sep08	ER by Patient	Peninsula	5-17	A11	Fever	Regression/EWMA 1.2	0.014	7	2.429	36	14	95.616
Time Series	10Sep08	ER by Patient	Piedmont	0-4	A11	Fever	Regression/EWMA 1.2	0.027	5	1.87	28	21	74.247
Time Series	10Sep08	Over-the-Counter Chain 2	Rappahannock	All	A11	Fever	Regression/EWMA 1.2	0.019	6	3.346	24	18	67.123
Time Series	10Sep08	ER by Patient	Roanoke	65+	A11	Fever	Regression/EWMA 1.2	0.001	2	0.107	13	2	14.795
Time Series	10Sep08	ER by Patient	West Piedmont	5-17	A11	Fever	Regression/EWMA 1.2	0.003	2	0.214	17	4	42.74
Time Series	10Sep08	ER by Patient	West Piedmont	A11	A11	Fever	Regression/EWMA 1.2	0.019	5	2.042	19	8	89.315
Time Series	10Sep08	ER by Patient	Western Tidewater	All	A11	Fever	Regression/EWMA 1.2	0.039	5	2.519	31	27	95.342
Time Series	10Sep08	ER by Patient	Central Virginia	0-4	A11	GI	Regression/EWMA 1.2	0.049	3	1.174	28	27	95.616
Time Series	10Sep08	Over-the-Counter Chain 2	Chesterfield	All	A11	GI	Regression/EWMA 1.2	0.028	17	13.036	24	15	69.589
Time Series	10Sep08	ER by Patient	Chesterfield	5-17	A11	GI	Regression/EWMA 1.2	0.04	8	4.407	35	29	99.178
Time Series	10Sep08	ER by Patient	Chickahominy	5-17	A11	GI	Regression/EWMA 1.2	0.008	4	2.111	23	7	92.329
Time Series	10Sep08	ER by Patient	Chickahominy	65+	A11	GI	Regression/EWMA 1 2	0 039	6	3 481	38	31	96 712

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Rudimentary Example: Alert List Filter (ALF)

- Automated way to "digest" many red and yellow statistical flags
- Scores each alert based on several criteria (number of visits, "density", and "recency")
- Ranks top 20 flags with highest scores and presents them to the user in a table
- Allows user to visualize the last 7-8 days of syndromic flags with some inferred importance

Alert List Filter (ALF) Example (Cont'd)

Instead of focusing solely on the red flag with the greatest number of visits, ALF directed the analyst's attention to an otherwise buried potential cluster of respiratory illness in kids
The analyst was then able to visualize this "lost" potential cluster by querying the system using elements proposed by the filter

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Description		

Data Source	ER by Patient
Geography System	Region
Region	All
Medical Grouping System	Syndrome
Syndrome	Resp
Medical Subgrouping	Influenza, LowerRespiratoryInfection, Pneumonia
Age	0-4, 5-17
Sex	All
Detector	Regression/EWMA 1.2
Start Date	14Jun08
End Date	12Sep08



Popup Options

Decision Support Challenges

- Each level of complexity is a potential barrier to the practitioner's ability to find the actionable event
- Robust logic must be discovered that will propose useful response paths thereby limiting complexity for the surveillance system user

Decision Support Challenges (Cont'd)

- In order to accomplish this, work needs to be done to discover:
 - the **likely events** in different data sources
 - how information can be harvested from every available element of the data
 - how meaningful differences (not just statistically significant) are detected
 - the suggested response protocols

This information needs to inform systems so they can assist practitioners in quickly making sense of masses of data