#### **Subject-Related Site Metrics in Siebel CTMS**



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- Extract Business Intelligence from CTMS on:
  - Program, Indication, Project
  - Country
  - Site
  - Investigator
  - CRA, CRO, Lab, IRB
- Operational (track progress) AND Strategic (engage again?)



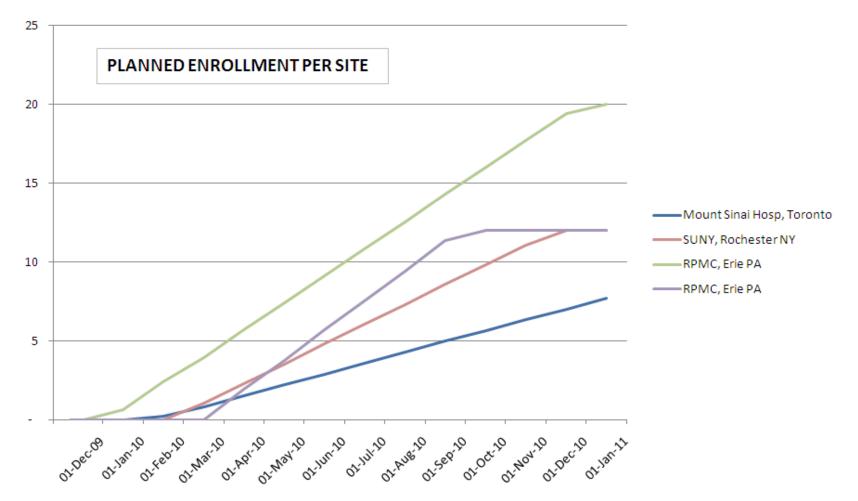
- Enrollment
  - Milestone Tracking (FSI, LSI, LSO...)
- Queries
- Deviations
- Monitoring Performance



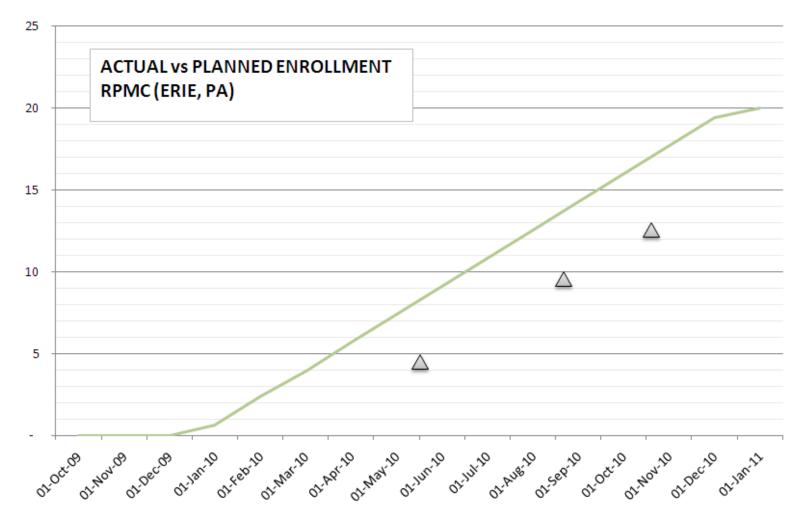
#### Given the number of expected subjects, and the FSI and LSI dates, we can evaluate the rate of enrollment

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Site	Project	Planned	FSI Plan	FSI Actual	LSI Plan	LSI Actual	Date	Expected	Actual	Compliance	Status
Mount Sinai Hosp, Toronto ON	CBR-0098	12	12-Jan-10	23-Jan-10	12-Jul-11		11-Oct-10	6	6	100%	
Toronto General, Toronto ON	CBR-0098	8	09-Feb-10	05-Feb-10	13-Mar-12		11-Oct-10	3	2	67%	
McMaster Uni, Hamilton ON	CBR-0098	8	13-Feb-10	19-Feb-10	07-Nov-10		11-Oct-10	7	6	86%	
Seneca Regional, Buffalo NY	CBR-0098	16	09-Feb-10	09-Feb-10	19-May-11		11-Oct-10	8	8	100%	
Syracuse Uni, Syracuse NY	CBR-0098	12	04-Feb-10	04-Feb-10	25-Mar-11		11-Oct-10	7	7	100%	
Baycrest, Toronto ON	CBR-0098	12	15-Feb-10	18-Feb-10	04-Mar-12		11-Oct-10	4	5	125%	
Queens, Kingston ON	CBR-0098	4	10-Dec-09	19-Dec-09	14-Feb-10	07-Feb-10	11-Oct-10	4	4	100%	
SUNY, Rochester NY	CBR-0098	12	01-Feb-10	04-Feb-10	23-Nov-10		11-Oct-10	10	12	120%	
RPMC, Erie PA	CBR-0098	20	22-Dec-09	20-Dec-09	11-Dec-10		11-Oct-10	17	13	76%	
RPMC, Erie PA	CBN-1209	12	28-Feb-10	28-Feb-10	11-Sep-10	14-Sep-10	11-Oct-10	12	12	100%	
Mellon Uni, Pittsburgh PA	CBN-1209	16	14-Jan-10	15-Jan-10	28-Dec-10		11-Oct-10	12	11	92%	





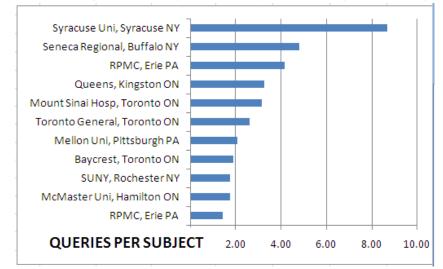






#### **Conduct Metrics: Queries**

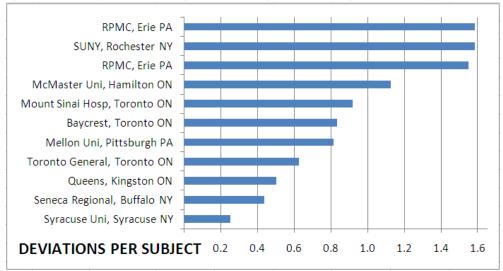
Site	Project	Subjects	Queries	Avg Time	Avg Rep	Max Rep	QPS
RPMC, Erie PA	CBR-0098	20	29	11.6	3.5	6	1.45
McMaster Uni, Hamilton ON	CBR-0098	8	14	7.2	2.6	6	1.75
SUNY, Rochester NY	CBR-0098	12	21	5.0	1.2	5	1.75
Baycrest, Toronto ON	CBR-0098	12	23	6.1	2.1	7	1.92
Mellon Uni, Pittsburgh PA	CBN-1209	16	33	13.9	2.2	5	2.06
Toronto General, Toronto ON	CBR-0098	8	21	7.6	1.5	5	2.63
Mount Sinai Hosp, Toronto ON	CBR-0098	12	38	4.1	1.8	5	3.17
Queens, Kingston ON	CBR-0098	4	13	3.8	1.7	3	3.25
RPMC, Erie PA	CBN-1209	12	50	8.9	3.0	8	4.17
Seneca Regional, Buffalo NY	CBR-0098	16	77	11.6	1.7	9	4.81
Syracuse Uni, Syracuse NY	CBR-0098	12	104	15.6	2.9	7	8.67





### **Conduct Metrics: Deviations**

Site	Project	Subjects	Deviations	Avg/Subj	Excl	GCP	Avg Impact	TTR
Syracuse Uni, Syracuse NY	CBR-0098	12	3	0.3	0	5	1.8	6
Seneca Regional, Buffalo NY	CBR-0098	16	7	0.4	1	2	1.5	12
Queens, Kingston ON	CBR-0098	4	2	0.5	0	0	2.0	14
Toronto General, Toronto ON	CBR-0098	8	5	0.6	0	1	2.7	11
Mellon Uni, Pittsburgh PA	CBN-1209	16	13	0.8	1	3	1.1	12
Baycrest, Toronto ON	CBR-0098	12	10	0.8	0	2	1.8	13
Mount Sinai Hosp, Toronto ON	CBR-0098	12	11	0.9	0	3	1.6	16
McMaster Uni, Hamilton ON	CBR-0098	8	9	1.1	0	0	1.8	9
RPMC, Erie PA	CBR-0098	20	31	1.6	2	1	2.0	9
SUNY, Rochester NY	CBR-0098	12	19	1.6	0	2	1.3	14
RPMC, Erie PA	CBN-1209	12	19	1.6	0	1	1.6	6





- Expected schedule known per SVT
- Actual dates entered in CTMS
- Events to be modeled:
  - Compliance to dates
  - Compliance to treatment
  - Impact on site LSO



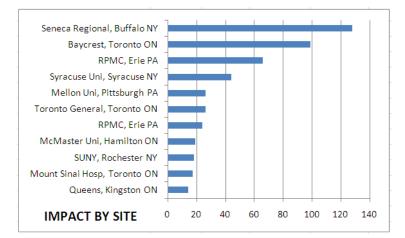
# **Conduct Metrics: CRF Collection**

- Difference between paper and EDC
- Penalties on missing pages
- Penalties on SDV issues
- Impact on interim analysis or database lock (cost model can incorporate time)



## **CRF Collection Impact Metric**

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Site	Project	Subjects	LCVs	LCADs	LSO Plan	Impact
Syracuse Uni, Syracuse NY	CBR-0098	12	6	174	28-Oct-14	44
Seneca Regional, Buffalo NY	CBR-0098	8	4	132	28-Oct-15	128
Queens, Kingston ON	CBR-0098	8	2	48	07-Apr-14	14
Toronto General, Toronto ON	CBR-0098	16	11	188	16-May-14	26
Mellon Uni, Pittsburgh PA	CBN-1209	12	5	53	26-Sep-14	26
Baycrest, Toronto ON	CBR-0098	12	1	33	18-Nov-15	99
Mount Sinai Hosp, Toronto ON	CBR-0098	4	5	173	24-Jan-14	17
McMaster Uni, Hamilton ON	CBR-0098	12	11	201	03-Feb-14	19
RPMC, Erie PA	CBR-0098	20	14	255	07-Dec-14	66
SUNY, Rochester NY	CBR-0098	12	3	88	28-Apr-14	18
RPMC, Erie PA	CBN-1209	16	7	70	11-Aug-14	24





- Score a site based on objective measures
- Site's capability card:
  - Cost
  - Equipment
  - Personnel qualifications
  - Operations performance
  - Invalidating factors



- Evaluate a site within a country
- Aggregate to regions or countries
- Map best locations per indication
  - "Site X is good for CNS indications and should be re-engaged, but for oncology it is dominated in all categories by site Y"
  - "Country A has a better combination of patient pools, site capabilities and costs than country B"