

Office of Clinical Research CRP First Friday



A Clinical Trials Dashboard & The Stories It Can Tell Friday, January 5th, 2024

next
lives
here



Learning Objectives:

- 1) Summarize the key components of operational dashboards and how they are used for modeling and communicating operational data.
- 2) Identify the elements that distinguish dashboards from other types of common operational reports.
- 3) Interpret the Clinical Trials Contracting Dashboard's visuals to accurately track study startup information and identify process improvement opportunities such as operational bottlenecks and resource distribution.
- 4) Navigate the College of Medicine/Office of Clinical Research infrastructure to access dashboards and related data visualization resources.
- 5) Demonstrate comprehension of the College of Medicine's vision for improving data visualization infrastructure to promote dashboard utilization by clinical research teams.

Target Audience:

Clinical Research Professionals (CRPs) at UC/H and Cincinnati Children's Hospital Medical Center (CCHMC): including Principal Investigators (PIs), Research Nurses (RNs), Critical Care Unit Nurses (RNs), Pharmacy Technicians and Regulatory Specialists.

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The University of Cincinnati is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The University of Cincinnati designates this live activity for a maximum of 1 *AMA PRA Category 1 Credit™*. Participants should claim only the credit commensurate with the extent of their participation in the activity.

CRPs, NPs, PAs, and RNs can count activities certified for *AMA PRA Category 1 credit™* for professional credit reporting purposes. Other healthcare professionals should inquire with their certifying or licensing boards.

Disclaimer Statement

The opinions expressed during the live activity are those of the faculty and do not necessarily represent the views of the University of Cincinnati. The information is presented for the purpose of advancing the attendees' professional development.

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All relevant relationships have been mitigated. The following disclosures were made:

Planning Committee Members:

- Maria Stivers, MS; Course Director – *No Relevant Relationships*
- Nathaniel L. Harris, BS, Course Coordinator – *No Relevant Relationships*
- Heather Muskopf, CME Program Manager – *No Relevant Relationships*

Speakers:

Brett Kissela, MD, MS

Executive Vice-Dean, University of Cincinnati College of Medicine

Senior Associate Dean for Clinical Research, University of Cincinnati College of Medicine

Chief of Research Services, UC Health

Adam C. Alexander

Clinical Research Administrator

Office of Clinical Research

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Recently updated OCR Standard Operating Procedures and Policies:

- **UCH-OCR-REV-SOP-008**: Determination of Human Tissue as Remnant Specimen for Approved Research Purposes
- **UCH-OCR-005**: Certified Copies of Electronic Medical Records for Clinical Research Purposes

All OCR SOPs are accessible from the UC Health intranet home page utilizing the Compliance 360 policy search function or reach out to the Office of Clinical Research with any questions or concerns.

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SOCRA CRP CERTIFICATION EXAMINATION

Hosted by CCHMC

Monday, March 15th, 2024, 8:30am – 12:30pm

Please visit the [SOCRA website](#) for more details.

The Registration Deadline is Friday, February 2nd, 2024

[Register Here](#)

CCHMC CRP Open Review Sessions:

Study Review Session 1: Thursday, February 8th, 2024 at 10am – Microsoft Teams Meeting

[Click here to join the meeting](#)

Study Review Session 2: Monday, February 12th, 2024 at 1pm – Microsoft Teams Meeting

[Click here to join the meeting](#)

Join your fellow CRPs for a brief overview of SOCRA Exam studying tools, tips, and tricks!

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For any questions or further information, please contact the CCHMC CRP Group at CRP@cchmc.org
or Nate Harris at harrisnl@ucmail.uc.edu



Office of Clinical Research Lunch & Learn

Thursday, January 18th, 2024, 12:00noon - 1:00pm

IN PERSON Presentation MSB 7051 *(with the option to join virtually)*

The Power BI UC Clinical Trials Contract Status Dashboard: A Hands on Walkthrough

In follow up to this month's First Friday, please join the January Lunch & Learn for a hands-on walkthrough of The Power BI UC Clinical Trials Contract Status Dashboard, our newly developed dashboard created to provide comprehensive data tracking of up-to-date information on study start-up progress, process bottlenecks, and further insights into UC/UCH clinical trial infrastructure.

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lives
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Today's Presentation: **A Clinical Trials Dashboard & The Stories It Can Tell**

Comprehensive data tracking has long been a challenge for the folks managing clinical trials. As progress has continued on accurate documentation, the challenge of interpreting and communicating the information contained within our electronic data capture systems has become an increasingly relevant issue. We will explore a newly developed dashboard that has the power to provide up-to-date information on study start-up progress, process bottlenecks, and further insights into clinical trial infrastructure.

Brett Kissela, MD, MS

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Office of Clinical Research
College of Medicine | University of Cincinnati

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A Clinical Trials Dashboard & The Stories It Can Tell

Office of Clinical Research
First Friday - January 2024
1/5/2024

A Clinical Trials Dashboard & The Stories It Can Tell

- Presenters



Brett Kissela, MD, MS

- Albert Barnes Voorheis Professor and Chair – *Dept. of Neurology and Rehabilitation Medicine*
- Executive Vice-Dean – *University of Cincinnati College of Medicine*
- Senior Associate Dean for Clinical Research – *University of Cincinnati College of Medicine*
- Chief of Research Services – *UC Health*



Adam C. Alexander

- Clinical Research Administrator, Operations & Project Management – *Office of Clinical Research*

A Clinical Trials Dashboard & The Stories It Can Tell

- What's a Dashboard?

Definitions of "Dashboard" from Merriam-Webster:

1. a screen on the front of a usually horse-drawn vehicle to intercept water, mud, or snow



2. a panel extending across the interior of a vehicle (such as an automobile) below the windshield and usually containing instruments and controls



3. a graphical report (as on a website) of various data relevant to a particular business, group, or activity



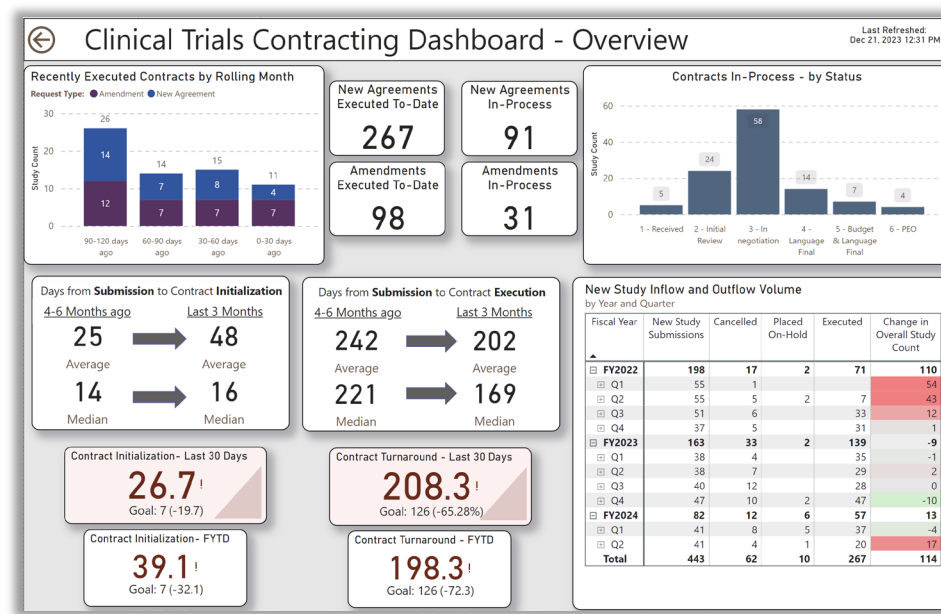
A Clinical Trials Dashboard & The Stories It Can Tell

- What's a Dashboard?

- In short, dashboards are diagnostic tools used to display, track, and analyze relevant data
- Key Performance Indicators (KPIs)

Baseline Averages		Top 20 Longest Avg Days to Negotiate Contract - by CRO						Top 20 Shortest Avg Days to Negotiate Contract - by CRO							
All Studies w/Language Complete		CRO Name	Days from Negotiation Start to Language Final - Average	Days to Contract Execution - Average	Days to Contract Execution - Median	Count - Executed Contracts	Count - Cancelled Contracts	Count - In-Process Contracts	CRO Name	Days from Negotiation Start to Language Final - Average	Days to Contract Execution - Average	Days to Contract Execution - Median	Count - Executed Contracts	Count - Cancelled Contracts	Count - In-Process Contracts
76.01	Negotiation Days	Lung biotech	280	540	540	1			CTI Facts	12	116	116	1		
2.86	Rounds per Study	ICON PLC	276	374	374	1	2		Premier Research International LLC	12	148	148	1		
74.39	Round Days per Study	KCON Clinical Research LLC	246	260	260	1			Cans	15	28	28	1		
		NCGS	194	247	247	1			Bright Research Partners	16	131	131	1		
		Labcorp Drug Development, Inc.	177	313	313	1			GOG	18	255	255	2	1	
		Avenia Clinical	163	448	448	1			Harris	21	176	144	3		
		IQVIA RDS Inc.	133	219	219	1			KCR	24	258	258	1		
		Premier Research	127	262	262	2			syneshealth	25	163	163	1	2	1
		IQVIA	119	251	243	26	6	14	TD2	31	116	116	2		
		Synes Health	115	168	168	1			Caldya	33	64	64	1		
		Lerison	113	164	164	1			Pharm-Clam, LLC	37	224	224	1		
		PSI	112	232	238	4			Highline Sciences	42	187	187	1		
		Paravel International	104	152	161	3			Worldwide Clinical Trials	53	361	361	2		3
		KCE Global Companies	100	210	210	1			TFS Healthcare	56	150	150	1		
		PPD Investigator Services	100	122	122	1			Alimentev	59	175	175	1		
		Worldwide	100	131	132	1	1	1	UBC	61	115	115	1	1	
		Amgen Inc.	98	106	106	1			GOG Foundation	63	129	114	3		2
		Iqvia	98	221	221	1			Paravel	71	223	219	6	3	2
		LabCorp	98	184	170	6	3								
		ICON	94	239	212	20	2	6							

Avg Round Counts & Times - by CRO		CRO of Contracts by CRO & 'Study Type'		Top 20 Contract Volume - by CRO											
CRO	Days to Contract Execution - Average	Days to Contract Execution - Median	Days from Negotiation Start to Language Final - Average	Average Round Length (Days)	Count of Executed Contracts	Count of In-Process Contracts	CRO	CTA/Work Order	Master Agreement	Other	Total	CRO	Count of study	Count - Executed Contracts	Count - In-Process Contracts
Medpace	214	216	74	6.8	837	29	15	6	46	2	46	IQVIA	46	26	14
Paravel	223	219	71	6.0	690	10	3	2	30	1	30	ICON	27	20	6
Worldwide	131	132	100	5.3	820	10	3	1	27		27	Medpace	27	15	6
Worldwide Clinical Trials	361	361	53	5.2	640	12	2	3	27		27	PPD	10	6	6
NCGS	247	247	154	5.0	193.4	0.6	1		11		11	Paravel	10	1	1
Premier Research	262	262	127	4.1	151.0	2.7	2		11		11	Synes Health	11	6	2
Highline Sciences	187	187	42	4.0	38.8	3.3	1		10		10	LabCorp	10	10	
Labcorp Drug Development, Inc.	313	313	177	4.0	176.0	1.0	1		10		10	Synes Health	11	10	
Lung biotech	940	940	280	4.0	275.5	4.5	1		10		10	Worldwide	3	10	6
Synes Health	148	148	113	4.0	113.3	1.8	1		5		5	Worldwide Clinical Trials	5	3	1
ICON	239	212	94	3.8	115.2	2.4	20	6	4		4	KCR	4	4	1
GOG Foundation	129	114	63	3.4	64.5	2.7	3		3		3	CTI	4	4	
PSI	232	238	112	3.3	139.0	2.0	4		3		3	GOG Foundation	3	3	
IQVIA	251	243	81	3.1	139.0	2.1	26	14	3		3	ICON PLC	3	3	1
Caldya	54	54	32	3.0	27.7	5.3	1		3		3	Paravel International	3	3	
ICON PLC	374	374	276	3.0	272.0	4.0	1		2		2	Fortrea	2	2	2
Iqvia	221	221	98	3.0	95.7	2.3	1		2		2	IQVIA Biotech LLC	2	1	1
LabCorp	184	170	98	3.0	127.8	4.3	6		2		2	Labcorp Drug Development	2	1	
PPD	225	230	94	3.0	100.4	2.5	18	6	2		2	Premier Research	2	2	
syneshealth	28	20	88	2.6	102.2	6.4	10	1	2		2	TD2	2	2	
Synes Health	228	225	88	2.6	102.2	6.4	10	1	2		2				



A Clinical Trials Dashboard & The Stories It Can Tell

- Evolution of the Data Dashboard

Analogous to
automotive
dashboard evolution



Driver obtains car info from
gauges and lights

↑
...and
a clock!

A Clinical Trials Dashboard & The Stories It Can Tell

- Evolution of the Data Dashboard

Analogous to
automotive
dashboard evolution



Similar information, but...

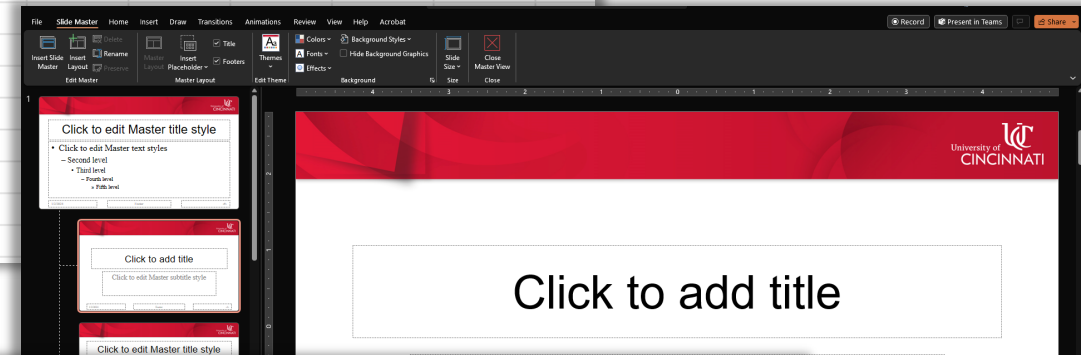
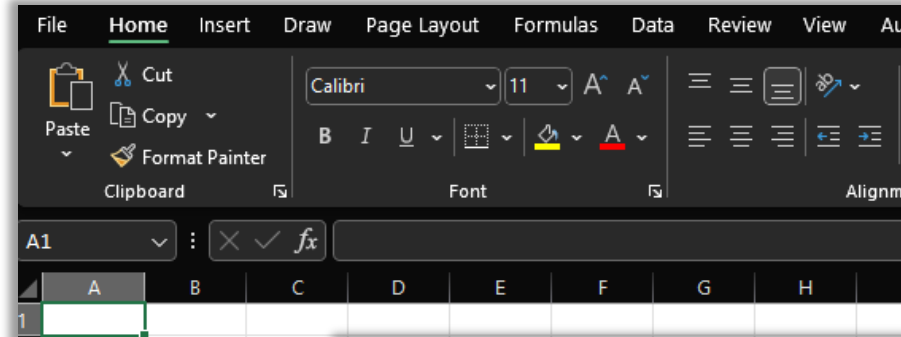
- displays are not static
- more detailed info displayed,
- much broader information availability

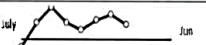


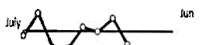


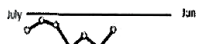







A Clinical Trials Dashboard & The Stories It Can Tell

- Evolution of the Data Dashboard

Historically...



Fiscal Year to Date	Current Month Performance	Current Fiscal Year Performance	UCGN1 Current Month Performance	UCGN1 Current Fiscal Year Performance
Target July  Less is better	Feb 2018 27 target ≤ 21 	FYTD 220 target ≤ 126 	Feb 2017 2 SSI/2 CAUTI/1 Cdiff/0 MRSA	FYTD 19 SSI/6 CAUTI/10 Cdiff/4 MRSA
Target July  More is better	Feb 2018 7 target ≤ 10 	FYTD 76 target ≤ 77 	Jan 2018 1	FYTD 8
Target July  More is better	Jan 2018 67.8% target ≥ 74.1% 	FYTD 66.6% target ≥ 74.1% 	Jan 2018 71.4%	FYTD 68.4%
Target July  More is better	Feb 2018 87.1% target ≥ 86.0% 	FYTD 86.2% target ≥ 86.0% 	Feb 2018 85.8%	FYTD 84.2%

A Clinical Trials Dashboard & The Stories It Can Tell

- Evolution of the Data Dashboard

Now...

Tableau

Paid Media Dashboard

Key Performance Indicators

Percent change metrics represent a comparison to the prior period. Blue indicates positive, orange indicates negative.

Impressions: 6.4M (▼ 44%)

Cost: \$86.7K (▼ 42%)

Clicks: 43.3K (▼ 37%)

Cost Per Click: \$2.00 (▼ 8%)

Microsoft Power BI

Last Refreshed: Jan 04, 2024 09:22 AM

Recently Executed Contracts by Rolling Month

Request Type: Amendment (Purple), New Agreement (Blue)

Rolling Month	Amendment	New Agreement
90-120 days ago	13	16
60-90 days ago	6	5
30-60 days ago	7	8
0-30 days ago	7	9

New Agreements Executed To-Date	272
Amendments Executed To-Date	98
New Agreements In-Process	87
Amendments In-Process	33

Contracts In-Process - by Status

Status	Study Count
1 - Received	6
2 - Initial Review	20
3 - In negotiation	55
4 - Language Final	16
5 - Budget & Language Final	9
6 - PEO	3

Contracts In-Process - Snapshot by Day

Average Age (Purple), Median Age (Green), Study Count (Black)

New Study Inflow and Outflow Volume by Year and Quarter

Fiscal Year	New Study Submissions	Cancelled	Placed On-Hold	Executed	Change in Overall Study Count
FY2022	198	17	2	71	110
Q1	55	1	2	7	54
Q2	55	5	2	31	43
Q3	51	6	0	33	12
Q4	37	5	0	31	1
FY2023	163	33	3	139	-9
Q1	38	4	0	35	-1
Q2	38	7	0	29	2
Q3	40	12	1	28	0
Q4	47	10	2	47	-10
FY2024	83	12	5	62	9
Q1	41	8	5	37	-4
Q2	41	4	0	25	12
Q3	1	0	0	0	1
Total	444	62	10	272	110

Filters

Search

Filters on this page

- Add data fields here

Filters on all pages

- Contract New/Am... is (All)
- Contract Status is (All)
- Contract Types is (All)
- CRO Name is (All)
- Date Submitted is (All)
- Date Submitted is not blank
- Department is (All)
- PI Name is (All)
- REDCap Study ID # is (All)
- REDCap Submis... is (All)
- Sponsor Name is (All)
- SRS Contract Admi... is (All)
- Study Type is (All)
- UC IRB Number is (All)
- wcg is (All)

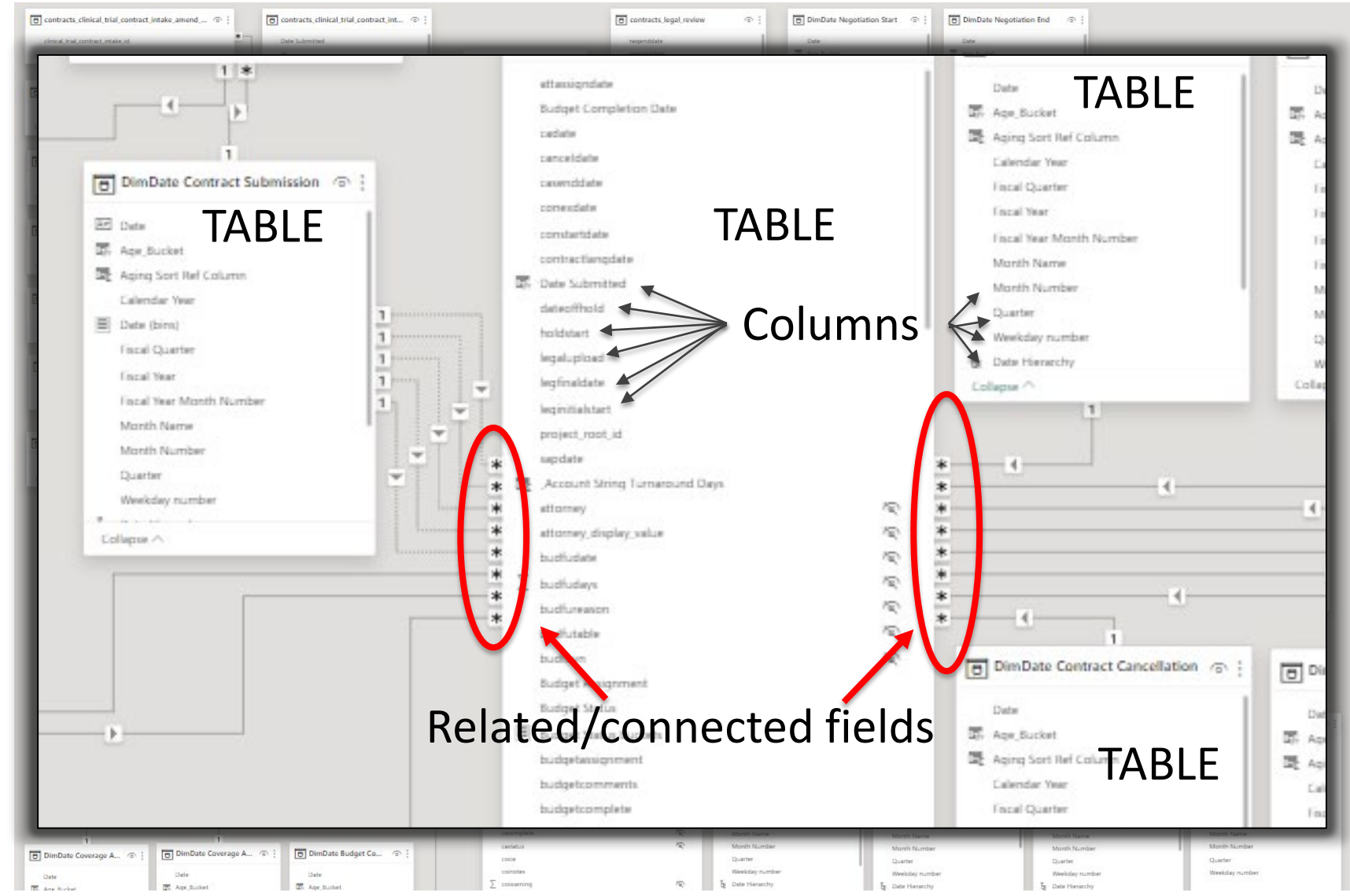
Add data fields here

A Clinical Trials Dashboard & The Stories It Can Tell

- Evolution of the Data Dashboard

Now...

We use data models:



Active Link *(You must be logged in with your UC Credentials):*

Clinical Trials Contracting **Dashboard**

Questions?
Thank you!

