

Wall Street Journal
 March 17, 1995 – G. Anders
 “Once a hot specialty, Anesthesiology
 cools as insurers scale back”

Grads- 1,863 Residents graduate
 from Anesthesia Residencies

Start - 892 Residents, consisting of
 348 IMC's and 544 AAG's

➤ “This was the start of the lost generation.” The
 specialty is now feeling this loss at another level, as
 individuals from this “lost generation” should be
 morphing into significant leadership positions.

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The Etiology of Perfect Storm Part II

➤ From my perspective Part II was defined by
 increased requests for out of OR Services, in
 addition to incorporation of historical private
 practice groups under an academic umbrella.

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*Size of Residency Training Programs

- In 2020- 1,493 Senior Residents. A total of 6,698 Anesthesiology Residents are enrolled
 in 160 Core Residency Programs
- (33% women enrolled in all specialty and subspecialty training programs).

Residency Production: Confounding Factors

- In 2020, we know that the following pursued ACGME fellowships:

Number of Programs (N)	Positions Filled by women	% Women
Cardiac Anesthesiology (N = 71)	72/220	32.7%
Critical Care Medicine (N = 63)	75/191	39.3%
Regional Anesthesiology (N = 35)	30/72	41.7%
OB (N = 41)	21/38	55.3%
Pain (N = 108)	88/386	22.8%
Pediatrics (N = 60)	86/192	42.5%
Clinical Informatics (N =1)	0/1	0%

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SAAA YEARLY SURVEY DATA 2020

N = 68

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Unique Aspects of 2019-2020

- Data for July 1, 2019 - June 30, 2020 will be presented.
- Subsets of data defined as Pre-COVID (July 1, 2019 - February 29, 2020) will be compared and contrasted with During COVID data (March 1, 2020 - June 30, 2020)
- Subsets of data by size of faculty (N < 51; 52-98; 99+) will be presented.
- Data specific to AAs/CRNAs is available this year.

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2020 Department

Attending Physician FTE's	Mean	+/- SD	Median (2019)
ASA Unit production	49.9	26.2	45.8 (59.6)
Acute Pain (In-Patient)	2.8	3.97	2.0 (1.2)
Chronic Pain (Out-Patient)	4.1	2.62	3.6 (3.2)
ICU	5.3	4.83	3.9 (3.0)
Pre-Op Clinic	1.4	1.33	1.0 (1.0)
Other	2.2	3.45	0.0 (0.0)
OB	3.1	2.89	2.0 (2.0)
Total	68.8	35.3	59.5

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2020 Department (cont'd)

Academic Rank	Clinical Anesthesiology and Pain Faculty: Total Mean	25%	75%
Chair	1.0	1.0	1.0
Professor	10.5	3.0	14.0
Associate Professor	16.1	9.0	19.0
Assistant Professor	43.3	26.0	60.0
Instructor	5.1	0.0	4.0
Non-Academic Clinical	1.9	1.6	1.3
Total	77.9	51.0	103.0

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2020 Department (cont'd)

Academic Rank	Clinical Anesthesiology and Pain Faculty: Clinical FTE Mean	25%	75%
Chair	0.3	0.1	0.4
Professor	6.3	1.8	8.8
Associate Professor	11.6	5.5	15.4
Assistant Professor	34.1	20.1	46.0
Instructor	4.1	0.0	2.9
Non-Academic Clinical	1.3	0.0	1.0
Total	57.8	39.6	76.3

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2020 Department (cont'd)

Academic Rank	Clinical Pain Faculty: Total Mean	25%	75%
Chair	0.0	0.0	0.0
Professor	0.7	0.0	1.0
Associate Professor	1.4	0.0	2.0
Assistant Professor	3.7	2.0	5.0
Instructor	0.4	0.0	0.0
Non-Academic Clinical	0.0	0.0	0.0
Total	6.2	3.0	8.0

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National Clinical Coverage

	Mean	+/- SD	Median (2019)
How many OR's does your Department cover each day Monday- Friday?	47.2	21	43(39)
• During COVID	32.5	20	29
How many Non-OR/Off Site locations does your Department cover each day Monday-Friday?	15.7	10.5	13(12)
• During COVID	11.5	9.67	7.0
How many OB deliveries with anesthesia involvement does your Department have each year?	2,160	1,389	1,870(2,666)
• During COVID	1,115	789	898

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National Clinical Coverage During COVID

How many faculty do you have on each of these services per day on average, Monday-Friday in the daytime?	Mean	+/-SD	Median (2019)
OR	33.4	15.8	29.3(26.4)
OB	1.9	1.37	1.5(1)
ICU	2.5	1.71	2.3(2)
Acute Pain	1.6	1.1	1.0(1)
Pain Clinic	3.6	2.56	3(3)
Pre-Op Clinic	1.1	0.62	1.0(1)
Total	44.1	19.3	42.8

How many faculty do you have on each of these services per day on average, Monday-Friday in the daytime?	Mean	+/-SD	Median
OR	26.6	15.2	22.0
OB	1.9	1.45	1.5
ICU	3.9	3.89	3.0
Acute Pain	1.5	0.91	1.0
Pain Clinic	3.2	2.39	3.0
Pre-Op Clinic	1.1	0.74	1.0
Total	38.2	18.5	34.0

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ASA Units	Mean	+/- SD	90%	75%	50%	25%
< 51 (N = 13)	487,436	202,897	850,815	613,509	487,972	299,973
52-98 (N = 29)	776,795	269,731	1,283,870	957,757	659,321	612,551
99+ (N = 19)	1,164,791	272,167	1,514,285	1,384,372	1,140,679	992,774

Units Billed

ICU wRVU	Mean	+/- SD	90%	75%	50%	25%
< 51 (N = 13)	12,073	15,772	-	23,641	3,979	965
52-98 (N = 29)	24,617	21,295	65,644	39,600	17,514	8,972
99+ (N = 19)	48,419	22,132	81,835	68,940	40,408	32,800

wRVU Billed

Pain wRVU	Mean	+/- SD	90%	75%	50%	25%
< 51 (N = 13)	12,469	9,687	-	14,994	10,483	7,209
52-98 (N = 29)	23,514	15,673	50,833	30,730	20,356	11,378
99+ (N = 19)	38,354	20,864	68,707	61,131	33,368	22,237

wRVU Billed

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Number of Units Billed/FTE	Mean	+/- SD	Median
ASA (Base and Time) units billed for anesthesia service	11,920	3,823	11,006
Work units in ICUs (wRVUs)	384	297	346
Units for Pain (wRVUs)	354	225	336
Any other billed services	157	123	154

Number of Units Billed/FTE – Pre-COVID July 1, 2019-February 29, 2020	Mean	+/- SD	Median
ASA (Base and Time) units billed for anesthesia service	8,296	2,894	7,911
Work units in ICUs (wRVUs)	257	198	20
Units for Pain (wRVUs)	270	171	264
Any other billed services	112	87	117

Number of Units Billed/FTE – During COVID March 1, 2020-June 30, 2020	Mean	+/- SD	Median
ASA (Base and Time) units billed for anesthesia service	3,163	1,181	3,040
Work units in ICUs (wRVUs)	138	104	125
Units for Pain (wRVUs)	89	61	71
Any other billed services	45	35	43

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Billing – Collection Mean Summary	Mean	+/-SD	Median
ASA (Base and Time) units billed for anesthesia service	37,267,455	25,235,335	30,341,255
Work units in ICUs (wRVUs)	1,920,034	1,582,092	1,916,272
Units for Pain (wRVUs)	2,290,864	1,611,041	1,872,620
Any other billed services	1,042,355	951,834	970,565

Pre-COVID July 1, 2019 – February 29, 2020	Mean	+/- SD	Median
ASA (Base and Time) units billed for anesthesia service	27,608,344	18,681,537	21,773,570
Work units in ICUs (wRVUs)	1,307,017	1,066,931	1,196,966
Units for Pain (wRVUs)	1,760,033	1,320,059	1,367,007
Any other billed services	737,525	700,049	656,899

During COVID March 1, 2020 – June 30, 2020	Mean	+/-SD	Median
ASA (Base and Time) units billed for anesthesia service	10,341,076	7,488,164	8,448,262
Work units in ICUs (wRVUs)	725,690	631,525	651,748
Units for Pain (wRVUs)	612,221	468,339	526,685
Any other billed services	296,657	279,911	295,285

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Billing collection per unit value	Mean (dollars)	+/- SD	Median (dollars)
ASA (Base and Time) units billed for anesthesia service	\$46.00 (\$58.89)	\$31.37	\$37.25 (\$38.48)
Work units in ICUs (wRVUs)	\$68.41 (\$72.45)	\$40.79	\$58.16 (\$57.75)
Units for Pain (wRVUs)	\$92.36 (\$87.90)	\$58.14	\$79.79 (\$81.00)
Any other billed services	\$77.90 (\$85.16)	\$58.14	\$79.91 (\$78.17)

Pre-COVID Unit Value July 1, 2019 – February 29, 2020	Mean	+/- SD	Median
ASA (Base and Time) units billed for anesthesia service	\$46.70	\$31.21	\$37.18
Work units in ICUs (wRVUs)	\$72.12	\$45.61	\$58.29
Units for Pain (wRVUs)	\$91.49	\$57.57	\$77.63
Any other billed services	\$78.69	\$59.77	\$76.81

During COVID Unit Value March 1, 2020 – June 30, 2020	Mean	+/- SD	Median
ASA (Base and Time) units billed for anesthesia service	\$47.36	\$33.00	\$36.59
Work units in ICUs (wRVUs)	\$72.81	\$46.83	\$58.88
Units for Pain (wRVUs)	\$98.30	\$65.16	\$82.73
Any other billed services	\$78.20	\$59.93	\$80.01

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Average Collections						
ASA Units	Mean	+/- SD	90%	75%	50%	25%
< 51 (N = 13)	\$31,855,551	\$28,519,953	\$81,589,186	\$67,467,491	\$13,730,141	\$10,850,212
52-98 (N = 29)	\$31,529,596	\$27,335,691	\$40,853,063	\$30,429,263	\$25,527,450	\$19,901,231
99+ (N = 19)	\$49,158,448	\$14,158,515	\$68,307,354	\$60,870,325	\$48,256,217	\$35,130,676

ICU wRVU	Mean	+/- SD	90%	75%	50%	25%
< 51 (N = 13)	\$717,200	\$976,202	\$2,282,941	\$1,822,446	\$259,098	\$81,356
52-98 (N = 29)	\$1,512,761	\$1,358,553	\$3,667,767	\$2,071,595	\$1,271,096	\$382,546
99+ (N = 19)	\$3,065,538	\$1,451,701	\$5,417,187	\$3,938,465	\$2,608,835	\$1,958,219

Pain wRVU	Mean	+/- SD	90%	75%	50%	25%
< 51 (N = 13)	\$1,227,817	\$854,062	\$2,892,673	\$1,602,141	\$1,123,935	\$708,183
52-98 (N = 29)	\$2,010,149	\$1,492,607	\$4,366,481	\$2,877,505	\$1,740,269	\$903,965
99+ (N = 19)	\$3,137,374	\$1,662,415	\$5,822,157	\$4,826,225	\$2,943,837	\$1,664,175

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Average Unit Value Collected						
ASA Units	Mean	+/- SD	90%	75%	50%	25%
< 51 (N = 13)	\$61.75	\$52.35	\$146.77	\$125.27	\$33.18	\$27.15
52-98 (N = 29)	\$40.43	\$25.98	\$64.13	\$40.67	\$33.67	\$29.32
99+ (N = 19)	\$43.73	\$12.96	\$60.66	\$56.30	\$44.24	\$32.32

ICU wRVU	Mean	+/- SD	90%	75%	50%	25%
< 51 (N = 13)	\$84.97	\$57.98	-	\$147.38	\$76.12	\$40.42
52-98 (N = 29)	\$64.50	\$46.63	\$100.36	\$61.59	\$54.00	\$43.98
99+ (N = 19)	\$66.99	\$17.44	\$91.95	\$77.52	\$68.94	\$57.90

Pain wRVU	Mean	+/- SD	90%	75%	50%	25%
< 51 (N = 13)	\$121.44	\$89.57	-	\$198.45	\$104.83	\$58.51
52-98 (N = 29)	\$84.91	\$61.25	\$158.09	\$86.14	\$73.36	\$58.09
99+ (N = 19)	\$91.11	\$30.52	\$142.79	\$106.92	\$84.44	\$69.37

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National Collection / FTE	Mean	25%
ASA Units	\$ 549,522 (\$596,491)	\$ 328,416
ICU Units	\$ 24,074 (\$33,361)	\$ 7,563
Pain Units	\$ 30,760 (\$45,809)	\$ 15,183
Other	\$ 14,997 (\$17,295)	\$ 1,780

National Collection / FTE – Pre COVID July 1, 2019 – February 29, 2020	Mean	25%
ASA Units	\$ 392,729	\$ 217,643
ICU Units	\$ 16,935	\$ 5,797
Pain Units	\$ 23,322	\$ 10,325
Other	\$ 10,495	\$ 1,189

National Collection / FTE – During COVID March 1, 2020 – June 30, 2020	Mean	25%
ASA Units	\$ 151,670	\$ 79,832
ICU Units	\$ 9,048	\$ 2,754
Pain Units	\$ 8,039	\$ 3,884
Other	\$ 4,212	\$ 462

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Total Support	25%	Median	75%
Total Support	\$ 9,996,186	\$ 20,483,435 (\$13,334,863)	\$ 28,604,756
Total Support per FTE	\$ 173,998	\$ 300,950 (\$219,409)	\$ 385,535

Mean National Institutional Support		
Total Support/FTE	Year	Mean
	2020	\$ 307,359
	2019	\$ 247,686
	2018	\$ 224,091
	2017	\$ 183,712
	2016	\$ 190,584
	2015	\$ 191,912
	2014	\$ 196,441
	2013	\$ 181,000

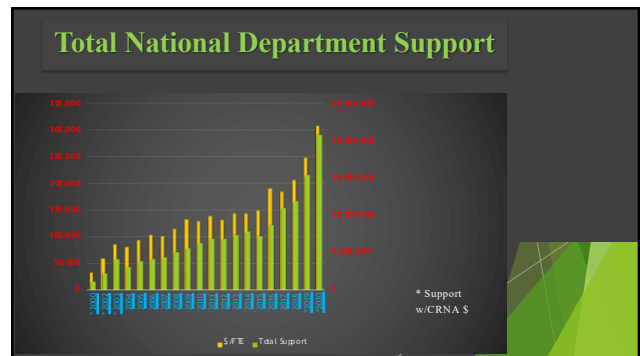
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National Institutional Support						
Institutional Support	Mean	+/- SD	25%	Median	75%	
	\$ 20,783,747	\$ 14,527,351	\$ 9,996,186	\$ 20,483,435	\$ 28,604,756	
Institutional Support / FTE	\$ 307,359	\$ 204,354	\$ 173,998	\$ 300,950	\$ 385,535	

Institutional Support by size						
Dollars	Mean	+/- SD	90%	75%	50%	25%
< 51 (N=13)	\$11,668,690	\$8,707,944	\$29,268,964	\$14,846,317	\$10,592,688	\$5,851,225
52-98 (N=30)	\$21,410,249	\$14,923,879	\$42,982,182	\$28,650,687	\$20,509,342	\$9,760,759
99+ (N=20)	\$25,768,781	\$14,737,991	\$43,411,551	\$33,177,506	\$23,728,761	\$15,628,545

National Institutional Support per FTE						
Dollars	Mean	+/- SD	90%	75%	50%	25%
< 51 (N=13)	\$352,665	\$202,241	\$677,491	\$489,280	\$371,517	\$186,588
52-98 (N=30)	\$347,326	\$238,762	\$769,971	\$408,650	\$330,460	\$172,888
99+ (N=20)	\$217,960	\$105,303	\$373,679	\$311,513	\$214,922	\$109,440

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CRNA/AA Economics			
Total Billable Hours per Year – CRNA/AA	25%	Median	75%
Hours per year	726	1,261	2,088

Average Cost per CRNA/AA (Salary plus Benefits)	25%	Median	75%
Dollars per year	\$214,102	\$239,400	\$267,464

Average Cost per CRNA/AA Per ASA Unit	25%	Median	75%
Dollars per unit	\$19.52	\$33.66	\$53.90

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Average Cost (Salary plus Benefits) per CRNA/AA, as of June 30, 2020	Dollars	Mean	+/- SD	90%	75%	50%	25%
< 51 (N = 13)	\$187,683	\$66,505	\$247,440	\$232,411	\$206,000	\$171,250	
52-98 (N = 29)	\$249,054	\$39,425	\$280,000	\$270,149	\$253,460	\$222,036	
99+ (N = 19)	\$270,341	\$76,649	\$394,174	\$287,468	\$245,735	\$228,578	

Dollars	Mean	+/- SD	90%	75%	50%	25%
< 51 (N = 13)	\$37.07	\$37.82	\$113.09	\$58.37	\$29.32	\$0.32
52-98 (N = 29)	\$39.22	\$34.93	\$72.84	\$54.46	\$33.81	\$14.34
99+ (N = 19)	\$37.76	\$19.25	\$69.46	\$56.71	\$32.60	\$26.55

What is the average total cost (salary plus benefits) per CRNA/AA per ASA Unit, as of June 30, 2020?

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SAAA 2020 Total Compensation (Clinical Anesthesiology and Pain Faculty)

Compensation	25%	Median (2019)	75%
Instructor	\$217,798	\$322,799 <small>(\$128,750)</small>	\$380,470
Assistant Professor	\$352,965	\$378,437 <small>(\$373,980)</small>	\$411,449
Associate Professor	\$388,389	\$413,341 <small>(\$406,025)</small>	\$447,259
Professor	\$407,062	\$429,247 <small>(\$426,868)</small>	\$466,850
Non-Academic Clinical	\$157,770	\$347,467 <small>(\$340,564)</small>	\$454,365
Chair	\$565,684	\$614,536 <small>(\$626,063)</small>	\$684,973

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Additional Compensation

Compensation	Fringe			Retirement		
	25%	Median	75%	25%	Median	75%
Instructor	\$0	\$12,722	\$43,219	\$0	\$0	\$0
Assistant Professor	\$34,837	\$53,578	\$71,773	\$0	\$0	\$22,742
Associate Professor	\$35,872	\$58,206	\$76,276	\$0	\$0	\$23,941
Professor	\$34,730	\$61,435	\$86,458	\$0	\$0	\$20,683
Non-Academic Clinical	\$0	\$0	\$12,510	\$0	\$0	\$0
Chair	\$37,013	\$76,324	\$110,720	\$0	\$0	\$28,150

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Average Fringe/Pension/Retirement

Compensation	25%	Median	75%
Instructor	\$0	\$26,311	\$57,177
Assistant Professor	\$51,763	\$69,073	\$78,977
Associate Professor	\$54,751	\$71,895	\$84,855
Professor	\$59,256	\$75,167	\$88,285
Non-Academic Clinical	\$0	\$0	\$20,265
Chair	\$62,134	\$93,408	\$124,169

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Pain Faculty Total Compensation

Compensation	25%	Median	75%
Instructor	\$261,589	\$325,000	\$367,982
Assistant Professor	\$346,351	\$377,862	\$411,878
Associate Professor	\$381,410	\$416,223	\$496,222
Professor	\$355,180	\$417,516	\$499,655
Non-Academic Clinical	-	-	-
Chair	-	-	-

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Pain Additional Compensation

Compensation	Fringe			Retirement		
	25%	Median	75%	25%	Median	75%
Instructor	\$0	\$0	\$0	\$0	\$0	\$0
Assistant Professor	\$25,618	\$50,947	\$68,734	\$0	\$0	\$29,470
Associate Professor	\$0	\$40,108	\$71,397	\$0	\$0	\$0
Professor	\$0	\$0	\$63,295	\$0	\$0	\$0
Non-Academic Clinical	\$0	\$0	\$0	\$0	\$0	\$0
Chair	\$0	\$0	\$0	\$0	\$0	\$0

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Pain Fringe/Pension/Retirement

Compensation	25%	Median	75%
Instructor	\$0	\$0	\$0
Assistant Professor	\$43,140	\$61,171	\$76,511
Associate Professor	\$0	\$53,685	\$76,690
Professor	\$0	\$0	\$64,499
Non-Academic Clinical	\$0	\$0	\$0
Chair	\$0	\$0	\$0

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Observations of 2020 Data

- ▶ Academic Anesthesiology was impacted by the pandemic!
- ▶ Overall, number of core residency programs and graduates has increased over the last five years.
- ▶ Greatest growth in the average Department was in the category of Faculty performing ASA Unit Production.
- ▶ OB Deliveries were down nationally. In contrast, a trend toward dedicated OB only coverage.

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Summary of 2020 Submissions

In General, COVID,

- ▶ Decreased OR sites of service by 20% - 25%.
- ▶ Had the greatest impact on NORA sites within medium size Departments.
- ▶ Decreased OR Staffing by approximately 15% with the greatest impact on large Departments.
- ▶ Increased ICU Staffing with the greatest impact on large Departments.

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Summary of 2020 Submissions

- ▶ Institutional support and Institutional support/FTE were at an all time high with the **largest** year over year change.
- ▶ Institutional Support/FTE was highest in the small Departments.
- ▶ ASA Units billed per FTE was down year over year
- ▶ Surprisingly, w/RVUs in the ICU were not increased to the extent I anticipated.
- ▶ National Collection per FTE for ASA units, ICU units, Pain units, and other were all decreased.

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Summary of 2020 Submissions

- ▶ Collections per ASA unit were decreased
- ▶ Trend toward increasing total sites of coverage by CRNA/AA
- ▶ CRNA/AA cost per ASA unit and total cost of CRNA/AA was smallest in the small Departments.
- ▶ Faculty compensation is flat!!! **Don't be fooled.**

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Questions?

Contact: Chardenay.Bagsby@utsouthwestern.edu
Charles.Whitten@utsouthwestern.edu

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