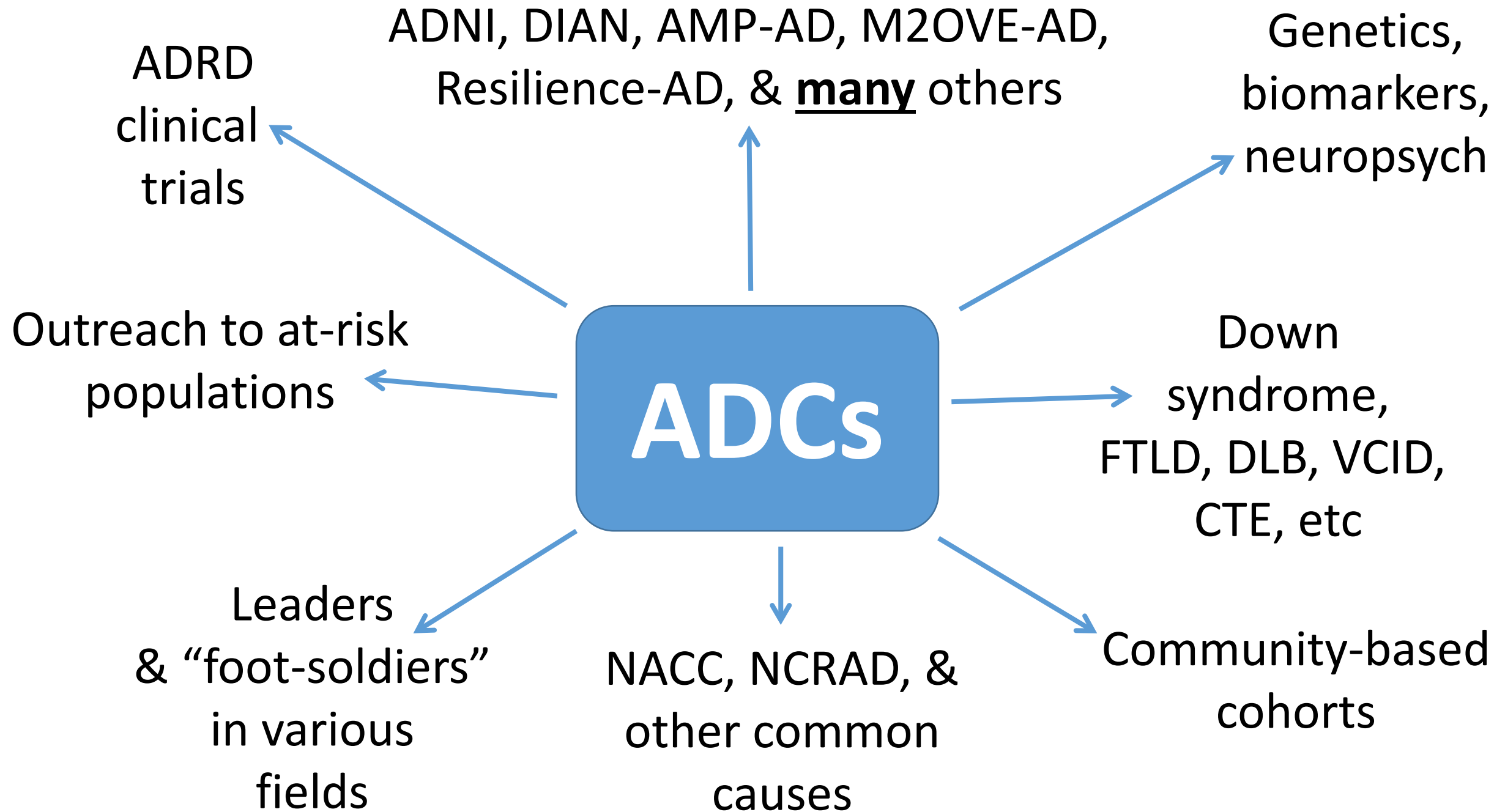


ADCs

do

a lot



ADCs

do

a lot

Some specific examples

Table 4. Sites Donating Brains to ADNI for Neuropathologic Assessment and Tissue Banking for Future Research.

Site	Site Name	Autopsies
33	University of Kansas, KS	12
11	Washington University School of Medicine, MO	8
32	Emory University, GA	7
23	University of Kentucky, KY	6
27	University of Rochester Medical College, NY	6
127	University of Wisconsin, WI	5
116	University of California, Davis, CA	4
14	Rush University Medical Center, IL	4
31	University of Texas Southwestern Medical Center, TX	3
24	University of Pittsburgh, PA	3
123	Dent Neurologic Institute, NY	3
114	Case Western Reserve University, OH	3
29	University of California, Irvine, CA	3
3	University of Southern California, CA	3
99	Banner Sun Health Research Institute, AZ	3
5	University of California, San Diego, CA	3
141	Rhode Island Hospital, RI	3
98	Stanford University School of Medicine, CA	3
73	University of California, San Francisco, CA	3
41	Yale University School of Medicine, CT	3
2	Oregon Health Sciences University, OR	3
126	SJHC London Ontario Canada	3
941	Butler Hospital, RI	3
131	Albany Medical College, NY	3
129	Banner Alzheimer's Institute, AZ	3
37	Indiana University, IN	3
16	Wien Center for Clinical Research, FL	3
6	University of Michigan, MI	3
82	Georgetown University, DC	1

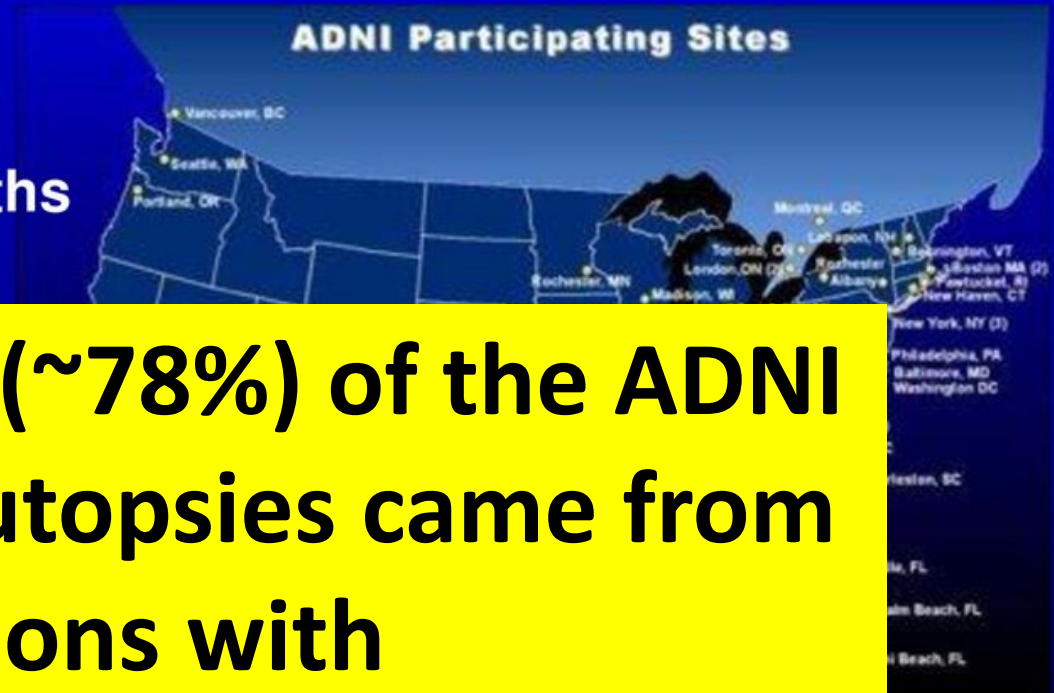
Thanks to Dr. Rick Perrin

ADNI

D progression

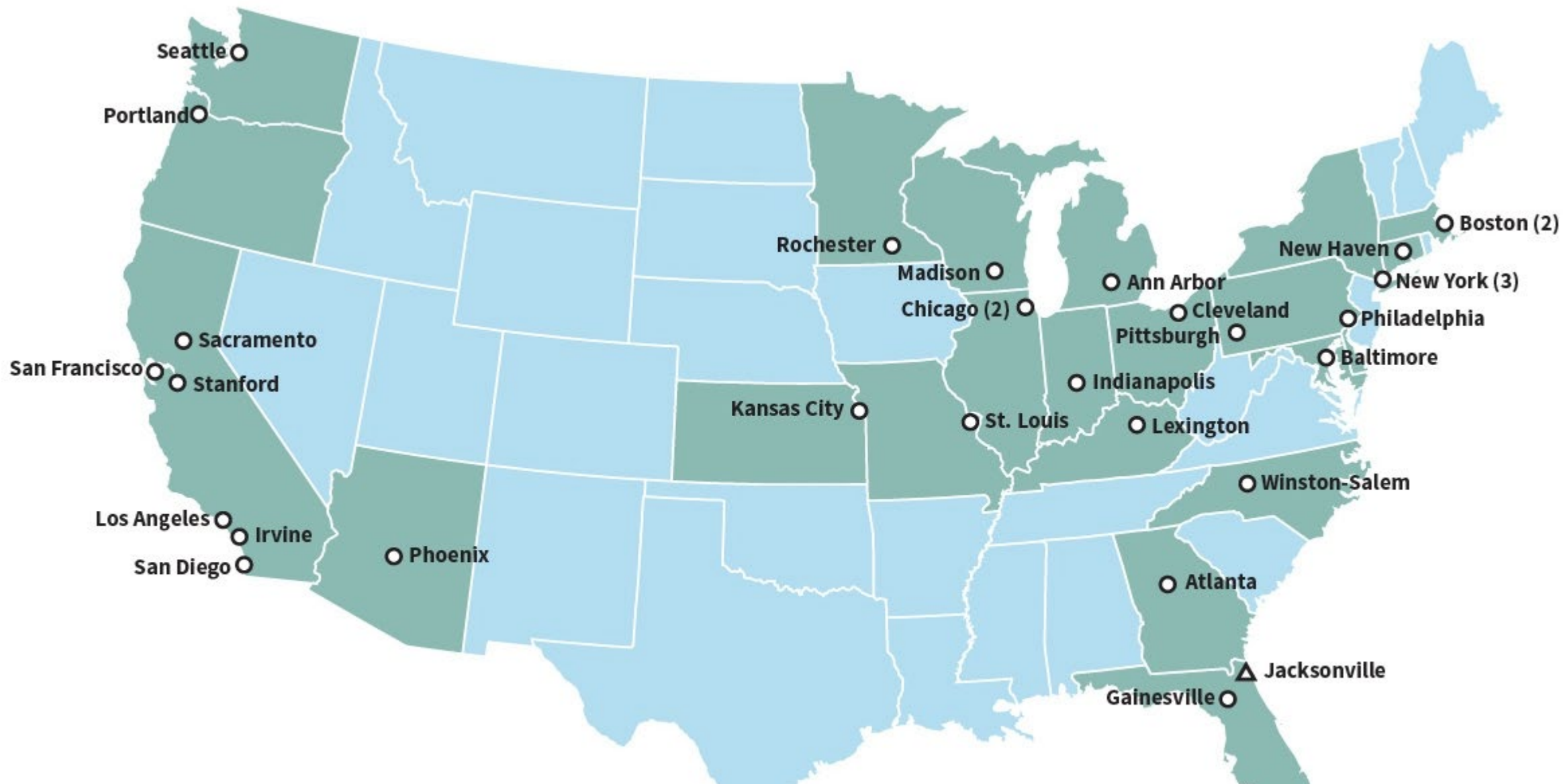
4 yrs

6 months



~73/94 (~78%) of the ADNI brain autopsies came from institutions with ADC Neuropath Core infrastructure in place.

se:



Many/most of the AD Centers follow clinic-based cohorts

Community-based cohorts with brain autopsy:
strong interconnections with existing ADRCs



ACT

Portland

Nun Study



Rochester



ROS-MAP

Madison

Chicago

Ann Arbor

Cleveland

Pittsburgh



FBDP

New Haven

ON

Philadelphia

Baltimore



HAAS

Sacramento

San Francisco

Stanford



BRAiNS

Indianapolis

St. Louis

Washington

Winston-Salem



UCI90+

Los Angeles

Irvine

Phoenix

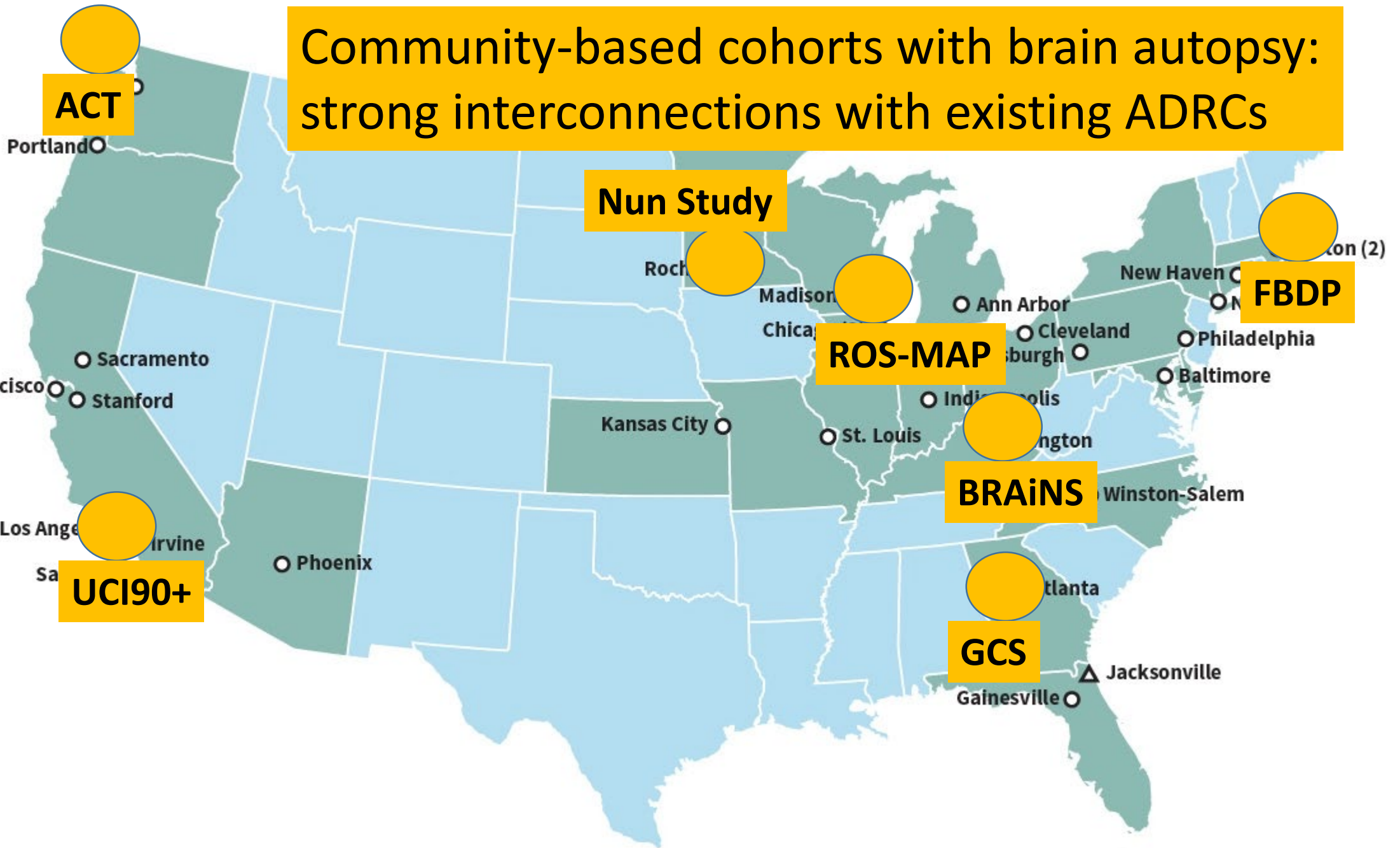


GCS

Atlanta

Jacksonville

Gainesville

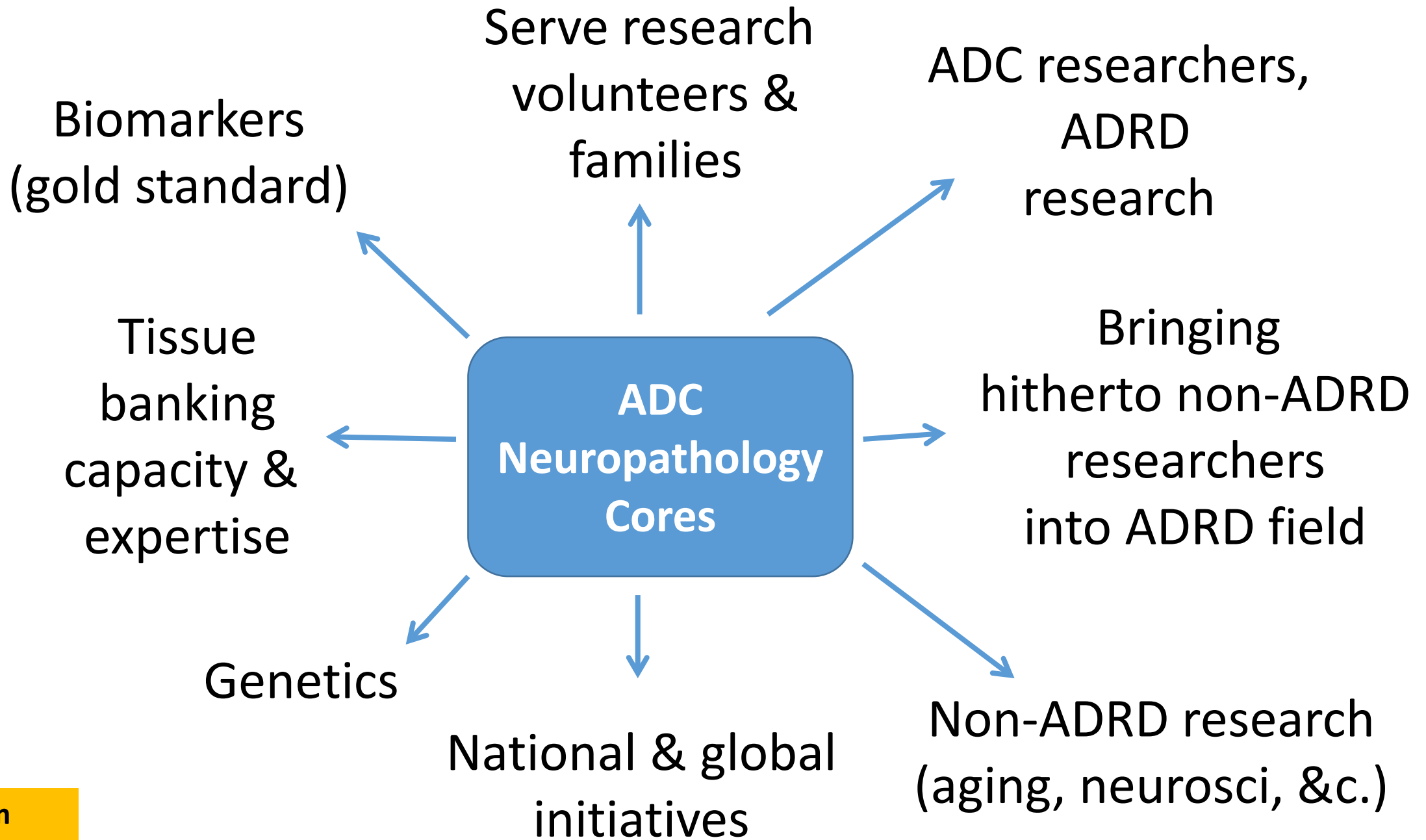


GENETICS

Alzheimer's Disease Sequencing Project (ADSP):
sample sizes of late-onset Alzheimer's disease (LOAD) case-control studies

ADCs provided a lot (never enough!) of well-phenotyped AD cases and controls for genetic studies

Consortium	Study	Cases		Controls	
		n	Age range	n	Age range
ADGC		4,966	40-99+	3,209	42-99+
	ACT	273	69-89	996	68-89
	ADC	2,417	60-90+	839	64-90+
	CHAP	27	68-90+	204	78-90+
	EFIGA	160	59-90+	171	42-90+
	GDF	111	59-90+	96	77-90+
	NIA-LOAD	364	37-90+	111	78-90+
	MAP	132	71-90+	283	72-90+
	MAYO	250	60-87	99	78-90+
	MAYO PD	181	59-89	14	79-90+
	MIA	316	56-88	15	78-89
	MIRAGE	0	-	20	74-90+
	NCRAD	160	58-90+	0	-
	RAS	46	56-88	0	-
	ROS	144	63-90+	207	67-90+
	TARCC	132	60-90+	12	80-89
	TOR	9	40-84	0	-
	VAN	210	60-90+	26	79-90+
	WHICAP	34	73-90+	116	78-90+
CHARGE		805	60-99+	1,927	61-99+
	ARIC	39	67-89	18	77-85
	ASPS	121	60-89	5	78-86
	CHS	251	68-90+	583	76-90+
	ERF	45	60-88	0	-
	FHS	126	65-90+	455	61-90+
	RS	223	61-90+	866	76-90+



How many annual biosample requests?

ADC Requests	non-ADC Requests	Number of samples	ADC vs. non-ADC Requests
Do not know	Do not know		
Few	None		
3			
3	3	276 frozen, 1558 blocks	Approximately Equal
3	15		Non-ADC
5	13	1414	Non-ADC
4-6	2-4		Approximately Equal
4	1-2	Dozens per request	Approximately Equal
<10	Very few		ADC
10	40		Non-ADC
10	17	2623 over 2 years	Non-ADC
10	20		Non-ADC
10-15	10-15		Approximately Equal
12-24	100's		Non-ADC
15	15	Few to 100's per request	Approximately Equal
~15			
20-30	120-150		Non-ADC
30	31		Approximately Equal
42	9		ADC
50	20		ADC
>50			>6000
Too many	Too many		
60-80 per year	25-40%		ADC
~100	10%		ADC
Several 100	Several 100		

**>>10,000 (?)
biosamples provided
for ADRD and other
research around
the world EVERY YEAR
from ADC NP Cores**

CONSENSUS PAPER

National Institute on Aging–Alzheimer’s Association guidelines for the neuropathologic assessment of Alzheimer’s disease: a practical approach

Thomas J. Montine · Creighton H. Phelps · Thomas G. Beach · Eileen H. Bigio · Nigel J. Cairns · Dennis W. Dickson · Charles Duyckaerts · Matthew P. Frosch · Eliezer Masliah · Suzanne S. Mirra · Peter T. Nelson · Julie A. Schneider · Dietmar Rudolf Thal · John Q. Trojanowski · Harry V. Vinters · Bradley T. Hyman

ADC workers help build consensus on diagnoses and classification in areas of clinical diagnoses, biomarkers, neuropathology, &c.

TABLE 1. Number of Neuropathologic Parameters Collected Over Time

Data Collection Instrument	Year of Implementation	Neuropathology Parameters Assessed
Minimum Data Set	1984	2
Neuropathology Form, version 1	2001	33
Neuropathology Form, version 9	2008	43
Neuropathology Form, version 10	2014	91

(NACC NP data)

NACC data productivity

NACC has evolved!

Articles in press or published:

Abstracts presented or published:

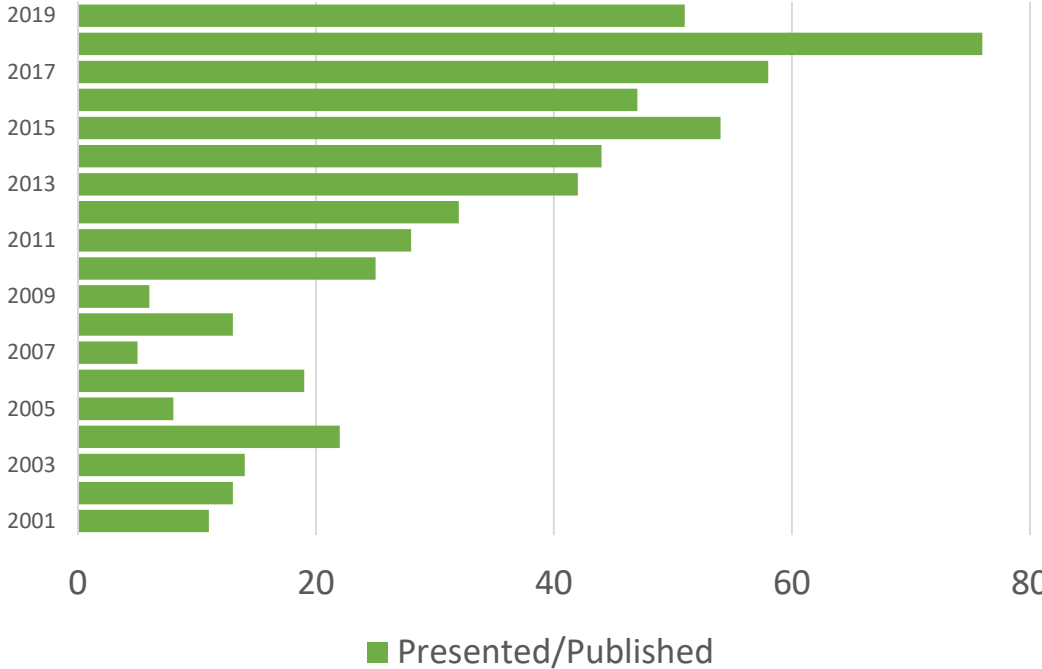
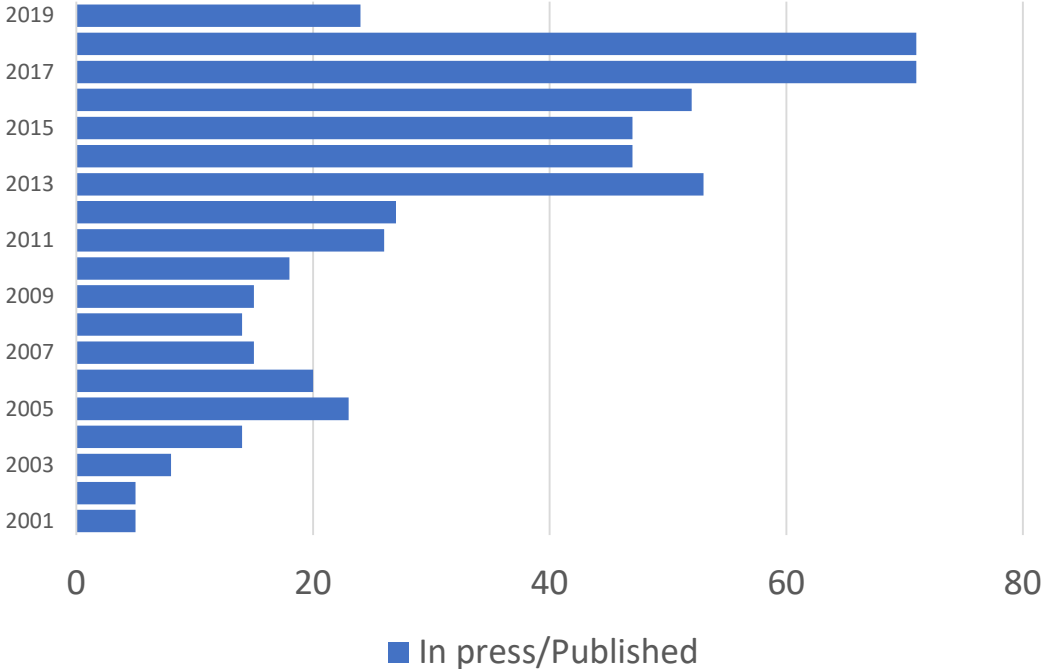
TOTALS

568

555

ARTICLES

ABSTRACTS



As of 9/27/19, there are an additional 41 articles and 10 abstracts submitted.

Alzheimer's Clinical Trial Consortium (ACTC):

~27/35 sites
have ADRCs

2020

2021

ACTC Steering Committee Sites

The ACTC network consists of 35 sites in 24 states:

ACTC Network Site	Principal Investigator	City	State
Banner Alzheimer's Institute	William Burke, MD	Phoenix	AZ
Banner Sun Health Research Institute (SHRI)	Edward Zamrini, MD	Sun City	AZ
Brigham and Women's Hospital	Gad Marshall, MD	Boston	MA
Butler Hospital Memory and Aging Center	Stephen Salloway, MD	Providence	RI
Case Western Reserve University	Alan Lerner, MD	Beachwood	OH
Cleveland Clinic Lou Ruvo Center for Brain Health	Marwan Sabbagh, MD	Las Vegas	NV
Columbia University Medical Center	Karen Bell, MD	New York	NY
Emory University School of Medicine	Ihab Hajjar, MD, MS	Atlanta	GA
Georgetown University	Raymond Scott Turner, MD, PhD	Washington	DC
Howard University	Thomas Obisesan, MD, MPH	Washington	DC
Indiana University	Martin Farlow, MD	Indianapolis	IN
Johns Hopkins University	Paul Rosenberg, MD	Baltimore	MD

Clinical trials at ADCs

2019 progress report (2018 data):

23 ADCs included information about the number of participants enrolled in clinical trials.

The total number of participants enrolled in clinical trials across the 23 Centers who reported this information was **6,055**.

In total, the 23 Centers that reported enrollment information reported **375** total (NOT non-overlapping) therapeutic trials.

Thanks to
Dr. Nina Silverberg
Dr. Cerise Elliott
Grayson Donley

ADCs

**Thanks,
NIH &
NIA!**