

Regina Carney, M.D.
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Independent Medical Examination
In the Matter of: Judge Pauline Newman

Introduction and Reason for Evaluation and Opinion

My name is Dr. Regina Carney. I am an adult forensic psychiatrist employed full-time by the Miami Veteran's Administration Medical Center, and working independently as a consultant on legal cases involving individuals with known or suspected psychiatric conditions. My credentials are more fully described on the curriculum vitae attached hereto as Exhibit 1 I have published the articles and chapters listed on Exhibit "A" hereto, focusing on cognitive disorders including Alzheimer's Disease and other dementias. I have testified as an expert witness during the past 4 years at trial or at deposition in the case listed in Exhibit 1.

I received my B.S. degree in biology from Duke University and my M.D. from Stony Brook University Medical Center in New York. I completed my residency in General Psychiatry at Vanderbilt University Medical Center in Nashville, Tennessee and completed a fellowship in forensic psychiatry at the University of Miami Miller School of Medicine in Miami, Florida. Previously, I served in the following positions: 1) Inpatient Staff Psychiatrist for the Mental Health and Behavioral Science Service at the Bruce W. Carter VA Medical Center; 2) Supervising Attending Physician for the Adult Outpatient Psychiatry Clinic at the University of Miami Miller School of Medicine; 3) Medical Director for the Miami Dade Forensic Alternative Center at the University of Miami Miller School of Medicine; and 4) Assistant Professor at the University of Miami Miller School of Medicine.

I am board-certified in both Adult Psychiatry and Forensic Psychiatry by the American Board of Psychiatry and Neurology. Attached as Exhibit A is my current CV. Dr. Gregory Dolin, a Senior Litigation Counsel with the New Civil Liberties Alliance and an attorney for Judge Newman, retained me to review and evaluate Judge Pauline Newman, a 96-year-old Judge in the Federal Circuit Court of Appeals, who lives in Washington, D.C. The fees for my services are borne by Judge Newman and not NCLA.

The findings of this preliminary report are based in part on a three-hour clinical evaluation of Judge Newman performed by me on August 25, 2023, including administration of The Modified Mini-Mental State Examination (3-MS).

Other records reviewed and considered in the opinion include:

- 1) Primary Care Medical Records from One Medical Group for Judge Pauline Newman, dated 02/26/2021-06/14/2023
- 2) (Enclosed within above) Cardiology Medical Records from Scott Shapiro, MD, PhD, including an Echocardiogram performed 05/26/2023
- 3) Statement of Clinical Impression of Ted L Rothstein, MD, Neurologist, summarizing Clinical Evaluation and Findings from Examination dated 06/21/2023

- 3) Publicly available proceedings at: <https://cafc.uscourts.gov/home/the-court/notices-announcements/>
- 4) Law360 Article by Andrew Michaels. "Judge Newman's Recent Dissents Show She Is Fit For Service," (06/06/2023)
- 5) Social Science Research Network Manuscript by Ron D. Katznelson, Ph.D. "Is There a Campaign to Silence Dissent at the Federal Circuit? (August 28, 2023)."
- 6) Description of duties of a United States Circuit Judge

Informed Consent

Judge Newman was informed that a confidential doctor-patient relationship did not exist due to the nature of the evaluation process, and that although an opinion would be rendered, medical treatment would not be provided. She agreed to pay the associated fees for this evaluation. The contract and fee structure were reviewed. Notably, Judge Newman carefully considered the contract and autonomously commented on the open-ended nature of the arrangement. She requested and her attorney executed an addendum to ensure costs beyond a reasonable, specific sum would be mutually agreed upon before being incurred. Judge Newman was informed that a report of the results of the evaluation would be provided to the U.S. Court of Appeals for the Federal Circuit in regard to the current investigation. Judge Newman indicated that she understood this information and agreed to undergo the evaluation. She provided written consent for disclosure of information to and from the non-public sources named in the records reviewed.

History of Present Complaint

Judge Newman presented for this evaluation on August 25, 2023 in association with an ongoing complaint and action filed with the U.S. Court of Appeals by Chief Judge Kimberley Moore, under the Judicial Conduct and Disability Act. The complaint filed by Chief Judge Moore states that concerns exist within the court that Judge Newman "has engaged in conduct prejudicial to the effective and expeditious administration of the business of the courts" and/or "is unable to discharge all the duties of office by reason of mental or physical disability." The complaint detailed allegations of decreased work output with significant and habitual delays in "processing and resolution of cases" (resulting in re-assignment of some cases), an episode of fainting during a hearing followed by Judge Newman's inability to ambulate independently, and potential "impairment of cognitive abilities (i.e., attention, focus, confusion and memory) that render Judge Newman unable to function effectively in discharging case-related and administrative duties. It has been stated that Judge Newman routinely makes statements in open court and during deliberative proceedings that demonstrate a clear lack of awareness over the issues in the cases." There was also an allegation of "inappropriate behavior in managing staff" and a disclosure of sensitive medical information to staff.

Judge Newman was suspended from hearing further cases beginning in April of 2023, "pending resolution of this investigation."

Evaluation and Observations

Judge Pauline Newman arrived 30 minutes early for the evaluation. She was professionally dressed, appropriate for the weather (mentioning it was likely to rain), and her grooming and hygiene were unremarkable, with no obvious areas of deficit. Demeanor was calm and cooperative. She had eyeglasses

that she wore for reading tasks but removed in conversation. She spoke fluently and attended well to the interview, handling changes in topic with agility. Her speech was notable for an expanded vocabulary consistent with her lifetime work in law. She was careful to clarify any terms that might have been unfamiliar to the interviewer; for example, she indicated that her judicial assistant functioned “in effect, as my secretary” until the interviewer indicated familiarity with the term “J.A.,” whereupon she used that term going forward.

Interactively, Judge Newman warmed to the interview, and provided full and detailed responses. Judge Newman was able to articulate and respond to the concerns raised in a collected manner. She had no specific recollection of a negative event or experience that might have given rise to the complaint. She was aware that her intellectual abilities and personal medical fitness were being questioned, and stated, “If I’m deluding myself, I’d be glad to know that.” When the prospect of a voluntary cognitive evaluation during the interview was mentioned, she frowned and opined, “it’s totally improper and inappropriate for my colleagues to put me through these tests. When people are being evaluated, you eventually get to questions that cannot be answered. My experience with my colleagues is that whatever the break-point is, then they point out where you could not answer. There is also a totally unscrupulous media that misrepresents the results.” The voluntary nature of the cognitive evaluation was reiterated, and the matter was agreed to be re-considered at the end of the interview.

Occupational History and Recent Events

Judge Newman provided a detailed social, educational, and occupational history that is abbreviated here for expediency. She recalled becoming a federal judge in 1984 at the request of President Ronald Reagan, from whom she received a personal phone call offering the role. At the time, she has been working for 30 years in a senior role in the patent system. In regard to the judgeship offer, she stated, “it wasn’t what I was looking for, but the court had been formed just a few years before. In regard to the politics, I had no idea. I got a call and said I’d be willing.” Judge Newman expressed that she finds her work intellectually and philosophically engaging, and enjoys it immensely. She remarked, “it’s an extraordinary position; it’s very difficult work, but it’s full of satisfaction for doing something for the nation. Doing some justice.” She noted, “I do speak out about what I think. I know very well I’m not popular with my peers. I think one of the reasons I’m in trouble is when I think they’re wrong, I tell them. The Supreme Court usually then says I’m right - that’s a reassurance.”

With regard to productivity and quality of her opinions, Judge Newman expressed that she felt “nothing has changed. I’m still learning things.” She agreed that human aging was generally associated with some natural slowing of work production and physical skills, particularly at extreme ages. However, she also noted that “the work does not require a 20-year old’s peak [performance]. I see some things more clearly due to my experience.” She referenced the statistical review of her work output published by Ron Katznelson (listed in records reviewed section of this evaluation) in this vein.

Judge Newman characterized herself as a generally strong-willed and outspoken individual, even when her opinions were not in line with others. She noted, “they are saying I’m grouchy and my staff have been leaving. I’ve been arguing with the IT staff because they took my [secretary’s] computer two or three months ago.” She also noted that “all of the affidavits saying my behavior is inappropriate have been in the past few months, since this complaint was filed. I am not physically disabled, and I’m still writing opinions. If I thought I was slipping, I would quit.”

Judge Newman expressed understanding that individuals experiencing cognitive decline often exhibit impaired insight into their deficits. She was open to reflection on the particular threat to one's identity when a highly distinguished career—one requiring intellectual prowess and fine attention to detail and context—is brought into question by the prospect of cognitive decline. Unrelated to this discussion, but brought up at a different point in the evaluation, Judge Newman indicated that she was aware that her cataracts were impairing her vision. She noted that she had voluntarily allowed her driver's license to expire as she felt this condition made it unsafe for her to drive.

Medical History

Judge Newman was able to recount her own medical history accurately, including “a pacemaker due to what they call sick sinus syndrome, around 2018,” a fractured right wrist a few months ago, [REDACTED] [REDACTED] She stated that outside of the surgery to implant the pacemaker, she has had no other surgeries. [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

She denied episodes of confusion or getting lost. She denied any instances of seizures, traumatic brain injury, or noting loss of memory. She recalled a single event of syncope in April of 2023, “I think of dehydration. I was not admitted.”

She denied having balance problems. She explained that she fractured her wrist while sprinting to take a photo of cardinals seen outside her apartment, where she lives alone.

In terms of past psychiatric history, she reported “none! To my amazement, even in this turmoil—well perhaps that's the fatal flaw—it's not getting to me.” She stated that her mood remains upbeat (“maybe some good will come of this”), and her sleep is sufficient and restorative. She denies any personal history of anxiety, depression, mania, psychosis, or misuse of alcohol or other substances, and denied any family history of the same. Judge Newman reported that her mother had lived to be well into her late 90s with no cognitive difficulties.

Current Function in Independent Activities of Daily Living

Judge Newman lives alone in a two-story apartment in Washington, D.C. She has no significant other or children, but stays in contact with her sister's family and her friends. She remarked that she has been grateful to be a generally very healthy individual. She walks around the city for transportation. She reported that during the COVID public health emergency, she was advised to avoid large crowds due to her advanced age, and thus requested assistance with getting food. However, she stated that she herself prepares her own food. Since the announcement of the end of the public health emergency she has resumed going to the grocery store.

She stated that she has employed an individual to assist her with cleaning her apartment for many years; “I'm not much of a homemaker.” She pays her own bills, and at the initiation of this evaluation, produced a check that she filled out accurately and completely for the retainer fee.

Cognitive Evaluation

Given Judge Newman's advanced educational attainment and exceptional verbal fluency, the possibility of some degree of successful concealment of an underlying cognitive defect was examined. A quantitative examination of cognition was thus performed at the end of the interview. The Modified Mini-Mental Status Exam (3-MS) was administered; this test was chosen specifically to avoid re-testing ("learning") effects related to the recently administered Montreal Cognitive Assessment (MOCA). Having personally administered the 3-MS several hundreds of times to individuals of varying cognitive abilities, my experience is that the examination usually requires 20 to 30 minutes to complete. The 3-MS is given in a highly standardized manner, with scripted prompts for the items. It is scored on a 100-point scale.

Judge Newman was able to read, write with her right hand, and reply appropriately to complete the examination. Judge Newman completed the 3-MS in 11 minutes, with a final score of 98 out of 100. She missed 2 points for generating only eight four-legged animals in 20 seconds, out of a possible 10. She was dismayed to hear of this result and scolded herself for not thinking of barnyard animals as a category. She scored perfectly on the word recall items, retaining all 3 words after both immediate and delayed time periods. The original 3-MS scoresheet is attached as Exhibit 1.

Summary and Opinion:

In summary this is a fluent, engaging, strong-willed, highly accomplished and unusually cognitively intact 96-year-old woman with chronic medical issues that appear well-controlled at the current time, with no evidence of current substantial medical, psychiatric, or cognitive disability. She is ambulatory, provides a complete and accurate personal, social, occupational, and medical history, and is fully oriented to time, place, date, situation and the nature of the current investigation. She reports no history of, or current, psychiatric or cognitive issues including anxiety, depression, or substance use disorders. She appears to show remarkable resilience; while she noted feeling "defensive" about the investigation, she did not note persistently anxious or depressed mood. She expressed a positive worldview, and chatted extemporaneously with the interviewer regarding a recent advance in the treatment of alcoholism that she had read about.

In my medical and professional opinion, Judge Newman demonstrated no substantial emotional, medical, or psychiatric disability that would interfere with continuation of her longstanding duties as a Judge in the U.S. Court of Appeals.

Sincerely,

/s/

Regina Carney, M.D.

Diplomate, American Board of Psychiatry and Neurology

Diplomate, Forensic Psychiatry, American Board of Psychiatry and Neurology

Associate Program Director, Forensic Psychiatry Fellowship

Voluntary Assistant Professor, Department of Psychiatry and Behavioral Sciences

Leonard M. Miller School of Medicine at the University of Miami Adjunct Assistant Professor

Alpha Omega Alpha Teaching Faculty

Herbert Wertheim College of Medicine at Florida International University

Medical Director of Inpatient Psychiatric Services (09/2018-09/2022)

Medical Director of Outpatient Substance Use Disorder Clinic (09/2022-current)

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Exhibit 1
to the
Report of Independent
Medical Examination
of Pauline Newman
by
Regina M. Carney, M.D.

THE MODIFIED MINI-MENTAL STATE EXAMINATION (3MS)

Center: Family #: Individual #: Individual's Name: Judge Pauline Newbenger man

Date of Exam: 08/25/2023 (Friday) Examiner: Regina Carney, MD

Now, I would like to ask you some questions to check your memory and concentration. Some of the questions may be easy and some will be harder. Take your time if you need to. We can skip over questions if you don't understand them. Just relax and do your best.

START TIME 11:47:16

- | | | |
|----|--|-----------------------|
| 1. | Who is the president of the United States now? | CORRECT..... <u>1</u> |
| | RECORD: <u>President Biden</u> | INCORRECT.....0 |
| | | REFUSED.....7 |
| 2. | Who was the president before him? <u>transliteration out (outwors)</u> | CORRECT..... <u>1</u> |
| | RECORD: <u>The Infamous Trump</u> | INCORRECT.....0 |
| | | REFUSED.....7 |
| 3. | Who is the Vice President of the United States now? | CORRECT..... <u>1</u> |
| | RECORD: <u>Kamal a Harris</u> | INCORRECT.....0 |
| | | REFUSED.....7 |
| 4. | Who was the Vice President before him? <u>her</u> | CORRECT..... <u>1</u> |
| | RECORD: <u>the Infamous Pence</u> | INCORRECT.....0 |
| | | REFUSED.....7 |
| 5. | Who is the governor of (your state) now? | CORRECT..... <u>1</u> |
| | <u>We do not have a gov. in DC.</u> | INCORRECT.....0 |
| | RECORD: <u>How about Florida? what de San tin</u> | REFUSED.....7 |
| 6. | There are 3 words on this card that I would like you to remember. Please say the words aloud while you read them. Then I will take the card away, and have you repeat all 3 words. | SCORE (0-3) <u>3</u> |
| | | REFUSED.....7 |

SHOW WORDS AND HAVE RESPONDENT READ. CORRECT (HIM/HER) IF (HE/SHE) MISREADS. TAKE CARD AWAY. Now what were those three words? HAVE RESPONDENT REPEAT. IF THERE ARE ERRORS, CONTINUE WITH ADDITIONAL TRIALS (UP TO 3 TRIALS).

NUMBER OF TRIALS NEEDED

SCORE FIRST TRY. REPEAT WORDS FOR THREE TRIALS ONLY.

	TRIAL #1	TRIAL #2	TRIAL #3
SHIRT	<u>✓</u>	<u>✓</u>	<u>✓</u>
NICKEL	_____	_____	_____
HONESTY	_____	_____	_____

**** BE SURE TO SAY: Remember the 3 words because later I will ask you to repeat them.

CHECK WHEN REMINDER IS GIVEN

7. Now please count from 1 to 5.
ASSIST ONLY ONCE IF NEEDED.

DOES NOT COMPREHEND TASK SCORE 0 ON
BACKWARD TASK AND GOTO ITEM 8

RECORD: ✓ ✓ ✓ ✓ ✓
1 2 3 4 5

Now I would like you to count backwards from 5 to 1.

RECORD: ✓ ✓ ✓ ✓ ✓
5 4 3 2 1

CORRECT..... 2
1 OR 2 ERRORS..... 1
≥3 ERRORS/CAN'T DO..... 0
REFUSED..... 7

8. Please spell the word "World."
ASSIST ONLY ONCE IF NEEDED.

DOES NOT COMPREHEND TASK SCORE 0 ON
BACKWARD TASK AND GO TO ITEM 9

RECORD: ✓ ✓ ✓ ✓ ✓
W O R L D

Now please spell "World" backwards.

RECORD: ✓ ✓ ✓ ✓ ✓
D L R O W

SCORE NO. OF LETTERS IN CORRECT
POSITION..... 5
REFUSED..... 7

9. What were the three words that I asked you to remember? (SHIRT, NICKEL, HONESTY)
IF THE SUBJECT DOES NOT GIVE ALL CORRECT ANSWERS, PROMPT AS NEEDED:

RECORD: <u>✓</u> (SHIRT)	RECORD: <u>✓</u> (NICKEL)	RECORD: <u>✓</u> (HONESTY)
A) SPONTANEOUS RECALL 3	B) SPONTANEOUS RECALL 3	C) SPONTANEOUS RECALL 3
1) One of the words was something you wear.	1) One of the words was some money.	1) One of the words was a good personal quality or virtue.
RECORD 2	RECORD 2	RECORD 2
2) SHOW CARD. HAVE S. READ AND MAKE SELECTION. SHOES, SHIRT, SOCKS 1	2) SHOW CARD. HAVE S. READ AND MAKE SELECTION. PENNY, NICKEL, DOLLAR 1	2) SHOW CARD. HAVE S. READ AND MAKE SELECTION. HONESTY, CHARITY, MODESTY 1
CIRCLE WORD.	CIRCLE WORD.	CIRCLE WORD.
3) IF STILL INCORRECT RESPONSE, PROVIDE CORRECT ANSWER (shirt).	3) IF STILL INCORRECT RESPONSE, PROVIDE CORRECT ANSWER (nickel).	3) IF STILL INCORRECT RESPONSE, PROVIDE CORRECT ANSWER (honesty).
NO RECALL/CAN'T DO 0	NO RECALL/CAN'T DO 0	NO RECALL/CAN'T DO 0
REFUSED 7	REFUSED 7	REFUSED 7

SCORE FOR SHIRT 3
SCORE FOR NICKEL 3
SCORE FOR HONESTY 3

ORIENTATION SECTION (ITEMS 10-18)

- | | |
|--|--|
| <p>10. What year is it?</p> <p>RECORD: <u>2023</u></p> | <p>CORRECT.....(3)</p> <p>MISSED BY 1 YEAR.....1</p> <p>INCORRECT/CAN'T DO.....0</p> <p>REFUSED.....7</p> |
| <p>11. What is the season of the year?</p> <p>RECORD: <u>Summertime</u></p> | <p>CORRECT WITHIN A WEEK.....(3)</p> <p>MISSED BY 1 MONTH.....2</p> <p>INCORRECT BUT NAMES A SEASON.....1</p> <p>INCORRECT/CAN'T DO.....0</p> <p>REFUSED.....7</p> |
| <p>12. What day of the week is it?</p> <p>RECORD: <u>Friday</u></p> | <p>CORRECT.....(3)</p> <p>MISSED BY 1 DAY.....1</p> <p>INCORRECT/CAN'T DO.....0</p> <p>REFUSED.....7</p> |
| <p>13. What month is it?</p> <p>RECORD: <u>August</u></p> | <p>CORRECT.....(3)</p> <p>INCORRECT BUT WITHIN 3 DAYS.....2</p> <p>MISSED BY 1 MONTH.....1</p> <p>INCORRECT/CAN'T DO.....0</p> <p>REFUSED.....7</p> |
| <p>14. What is today's date?</p> <p>RECORD: <u>25th</u></p> | <p>CORRECT.....(3)</p> <p>MISSED BY 1 OR 2 DAYS.....2</p> <p>MISSED BY 3-5 DAYS.....1</p> <p>INCORRECT/CAN'T DO.....0</p> <p>REFUSED.....7</p> |
| <p>15. What state are we in?</p> <p><i>we are not in a state</i></p> <p>RECORD: <u>Can you tell me a nearby</u></p> | <p>CORRECT.....(2)</p> <p>INCORRECT/CAN'T DO.....0</p> <p>REFUSED.....7</p> |
| <p>16. What county are we in?</p> <p><i>state? Virginia</i></p> <p>RECORD: <u>Can you tell me a</u></p> <p><i>nearby county? Montgomery Co, MD</i></p> | <p>CORRECT.....(1)</p> <p>INCORRECT/CAN'T DO.....0</p> <p>REFUSED.....7</p> |
| <p>17. What town are we in? <i>Washington DC</i></p> <p>IF S. DOES NOT ANSWER, PROMPT AS NEEDED:</p> <p>What is the nearest town?</p> <p>What town do you consider to live in?</p> <p>What is the town on your mailing address?</p> <p>RECORD: _____</p> | <p>CORRECT.....(1)</p> <p>INCORRECT/CAN'T DO.....0</p> <p>REFUSED.....7</p> |
| <p>18. Are we in a church, a home or an office?</p> <p>RECORD: <u>office</u></p> | <p>CORRECT.....(1)</p> <p>INCORRECT/CAN'T DO.....0</p> <p>REFUSED.....7</p> |

IF SUBJECT IS BLIND, TAP SUBJECT FOR ITEMS 19-23, AND SAY "I am going to tap you and I'd like you to tell me the name of the body part that I tap."

19. POINT TO YOUR FOREHEAD. CORRECT..... 6
 What is this called? INCORRECT/CAN'T DO.....0
 REFUSED7

RECORD: forehead

20. POINT TO YOUR CHIN. CORRECT..... 1
 What is this called? INCORRECT/CAN'T DO.....0
 REFUSED7

RECORD: chin

21. POINT TO YOUR SHOULDER. CORRECT..... 1
 What is this called? INCORRECT/CAN'T DO.....0
 REFUSED7

RECORD: elbow → Shoulder

22. POINT TO YOUR ELBOW. CORRECT..... 1
 What is this called? INCORRECT/CAN'T DO.....0
 REFUSED7

RECORD: knuckle

23. POINT TO YOUR KNUCKLE CORRECT..... 1
 What is this called? INCORRECT/CAN'T DO.....0
 REFUSED7

RECORD: _____

24. Now I am going to give you a category and I want you to name as many things as you can that come from that category. For example, if I said "fruit," you would say "orange, apple, or banana." Can you name another kind of fruit? RECORD RESPONSE.

grape

Now I have another category and it is animals. Please name as many four-legged animals as you can. You will have 20 seconds. START TIMER. TELL SUBJECT, "Begin now". ALLOW 20 SECONDS. IF NO RESPONSE IN 10 SECONDS, REPEAT THE QUESTION ONCE, RECORD; ALLOW ANOTHER 10 SECONDS, THEN GO TO ITEM 25.

SCORE.....(0-10) 08
 REFUSED97

<u>dog</u>	<u>deer</u>	_____	_____
<u>cat</u>	<u>leopard</u>	_____	_____
<u>lion</u>	_____	_____	_____
<u>tiger</u>	_____	_____	_____
<u>panther</u>	_____	_____	_____
<u>rhinoceros</u>	_____	_____	_____

32. HAND S. A PENCIL AND FOLDED SHEET. Please write a sentence on this page. ALLOW 1 MINUTE, AND ANOTHER 30 SECONDS AFTER PROMPTING (IF NECESSARY). PROMPT IF S. WRITES INCOMPLETE SENTENCE: Write the sentence, "The band played and the crowd cheered."

LEGIBLE, CORRECT SENTENCE 5
 LEGIBLE SENTENCE WITH ERROR(S) 4
 LEGIBLE, CORRECT SENTENCE AFTER PROMPT 3
 LEGIBLE SENTENCE WITH ERROR(S) AFTER PROMPT 2
 WRITES NAME OR LEGIBLE, INCOMPLETE SENTENCE AFTER PROMPT 1
 ILLEGIBLE/CAN'T DO 0
 REFUSED 7

33. SHOW S. SHEET WITH DRAWING. Here is a drawing. Please copy the drawing on the same paper. POINT TO BOTTOM OF THE PAGE BELOW DOTTED LINE. ALLOW 1 MINUTE FOR COPYING.

SCORE EACH PENTAGON L R
 5 SIDES 4 4
 1 UNEQUAL SIDE 3 3
 OTHER CLOSED FIGURE 2 2
 2 OR MORE LINES 1 1
 CAN'T DO 0
 REFUSED 7

INTERSECTION
 4 CORNERS 2
 NOT A 4 CORNER ENCLOSURE 1
 NONE/CAN'T DO 0
 REFUSED 7

34. What were the three words that I asked you to remember (SHIRT, NICKEL, HONESTY)? IF THE SUBJECT DOES NOT GIVE ALL CORRECT ANSWERS, PROMPT AS NEEDED:

RECORD: _____ ✓ (SHIRT) _____ ✓ (NICKEL) _____ ✓ (HONESTY)

A) SPONTANEOUS RECALL 3 B) SPONTANEOUS RECALL 3 C) SPONTANEOUS RECALL 3

1) One of the words was something you wear.

RECORD _____ 2

2) SHOW CARD. HAVE S. READ AND MAKE SELECTION. SHOES, SHIRT, SOCKS 1
 CIRCLE WORD.

3) IF STILL INCORRECT RESPONSE, PROVIDE CORRECT ANSWER (shirt).

NO RECALL/CAN'T DO 0
 REFUSED 7

1) One of the words was some money.

RECORD _____ 2

2) SHOW CARD. HAVE S. READ AND MAKE SELECTION. PENNY, NICKEL, DOLLAR 1
 CIRCLE WORD.

3) IF STILL INCORRECT RESPONSE, PROVIDE CORRECT ANSWER (nickel).

NO RECALL/CAN'T DO 0
 REFUSED 7

1) One of the words was a good personal quality or virtue.

RECORD _____ 2

2) SHOW CARD. HAVE S. READ AND MAKE SELECTION. HONESTY, CHARITY, MODESTY 1
 CIRCLE WORD.

3) IF STILL INCORRECT RESPONSE, PROVIDE CORRECT ANSWER (honesty).

NO RECALL/CAN'T DO 0
 REFUSED 7

SCORE FOR SHIRT
 SCORE FOR NICKEL
 SCORE FOR HONESTY

END TIME :

NOTES:

Some questions were improvised due to Washington DC (not being located in a state, or having a governor.) Subject was able to transition to state from which examiner traveled, with ease.

Category Fluency - 8 of 10 animals listed in 20 seconds.

Cognitive function appears ~~intact~~^{intact} based on speed and accuracy of responsive responses, in context of extended qualitative interview given same day.

Ryan Conway
ms

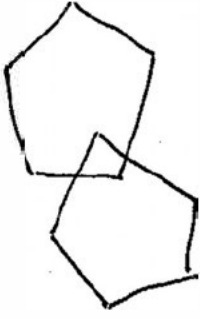
	3MS Score
Page 1 Total:	<u>8</u> / 8
Page 2 Total:	<u>16</u> / 16
Page 3 Total:	<u>20</u> / 20
Page 4 Total:	<u>13</u> / 15
Page 5 Total:	<u>17</u> / 17
Page 6 Total:	<u>24</u> / 24
Total/Raw Score:	<u>98</u> / 100
Education Adjusted Score:	_____

SHIRT

NICKEL

HONESTY

CLOSE YOUR EYES



It looks like rain.

ALZHEIMER DISEASE CLINICAL DEMENTIA RATING (CDR)

Center: Family#: Individual#: Individual's name:

Exam Date: Examiner:

Evaluation by: In Person Telephone Medical Records
 Reconstructed? Yes No Unknown

Impairment Level and CDR Score (0, 0.5, 1, 2, 3)						
	None 0	Questionable 0.5	Mild 1	Moderate 2	Severe 3	Score:
Memory	No memory loss or slight inconsistent forgetfulness	Consistent slight forgetfulness; partial recollection of events; "benign" forgetfulness	Moderate memory loss; more marked for recent events; defect interferes with everyday activities	Severe memory loss; only highly learned material retained; new material rapidly lost	Severe memory loss; only fragments remain	
Orientation	Fully Oriented	Fully oriented except for slight difficulty with time relationships	Moderate difficulty with time relationships; oriented for place at examination; may have geographic disorientation elsewhere	Severe difficulty with time relationships; usually disoriented to time, often to place	Oriented to person only	
Judgment & Problem Solving	Solves everyday problems & handles business & financial affairs well; judgment good in relation to past performance	Slight impairment in solving problems, similarities, & differences not observed	Moderate difficulty in handling problems, similarities, and differences; social judgment usually maintained	Severely impaired in handling problems, similarities, and differences; social judgment usually impaired	Unable to make judgments or solve problems	
Community Affairs	Independent function at usual level in job, shopping, volunteer & social groups	Slight impairment in these activities	Unable to function independently at these activities although may still be engaged in some; appears normal to casual inspection	No pretense of independent function outside home; appears well enough to be taken to functions outside a family home	No pretense of independent function outside home; appears too ill to be taken to functions outside the home	
Home & Hobbies	Life at home, hobbies, and intellectual interests well maintained See: understandable forum	Life at home, hobbies, and intellectual interests impaired slightly forum	Mild but definite impairment of function at home; more difficult chores abandoned; more complicated hobbies and interests abandoned	Only simple chores preserved; very restricted interests, poorly maintained	No significant function in home	
Personal Care	Fully capable of self care well dressed, appropriate grooming and attire, asked for restroom	Fully capable of self-care	Needs prompting	Requires assistance in dressing, hygiene, keeping of personal effects	Requires much help with personal care; frequent incontinence	
					Global CDR:	0

Comments:
 AOC: **not apparent**
 DEPRESSION/STROKE HISTORY: **declines entirely**
 CHRONOLOGICAL HISTORY OF DECLINE: (PLEASE CONTINUE IN THE BACK) **history is per investigation, had a wrist fracture (nonoperative 08/2023)**

Exhibit 2
to the
Report of Independent
Medical Examination
of Pauline Newman
by
Regina M. Carney, M.D.

**REGINA MARIA CARNEY, M.D.
CURRICULUM VITAE**

Date Prepared: August 24, 2023

I. PERSONAL

Name: REGINA MARIA CARNEY, M.D.
Personal Phone: (615) 636-5792
E-mail Address: rcarney0305@gmail.com
Current Position: Medical Director, Inpatient Psychiatry

II. HIGHER EDUCATION

Institution:	Degree:	Date:
Department of Psychiatry and Behavioral Sciences Jackson Health System/ University of Miami Miller School of Medicine Miami, Florida	Fellowship, Forensic Psychiatry	10/2011-08/2012
Department of Psychiatry Vanderbilt University Medical Center Nashville, Tennessee	Residency, General Psychiatry	07/2007-07/2011

Departments of Internal Medicine and Pediatrics Chandler Medical Center University of Kentucky Lexington, Kentucky (Moved to Kentucky, attended resident orientation	Intern, Internal Medicine-Pediatrics	07/2003-12/2003 06/2003)
Stony Brook University Medical Center Stony Brook, New York	M.D. With Recognition in Research	08/1999-05/2003
Duke University Durham, North Carolina	B.S., Biology Minors in Chemistry and Spanish	08/1994-05/1998
Highland High School Highland, New York	High School Degree With Valedictory Honors	08/1990-06/1994

Medical Licensure and Board Certification Status:

Florida Medical License		01/2012-01/2024
American Board of Psychiatry and Neurology Adult Psychiatry Board Certification		09/2014-12/2024
American Board of Psychiatry and Neurology Forensic Psychiatry Board Certification		09/2017-12/2027
Certified Florida Adult Forensic Examiner (Criminal Court Evaluations)		
Basic Life Support for Healthcare Providers		expires 10/2023

III. EXPERIENCE

09/2022 – present	Medical Director Outpatient Substance Abuse Clinic	Medical Director
09/2018 – 09/2022	Medical Director, Acute Inpatient Psychiatric Unit (4AB)	
08/2015 – 08/2018	Staff Psychiatrist, Acute Inpatient Psychiatric Unit (4AB)	
	Mental Health and Behavioral Science Service Bruce W. Carter VA Medical Center Miami, Florida	
07/2019 – present	Associate Program Training Director Forensic Psychiatry Fellowship Department of Psychiatry and Behavioral Sciences University of Miami Miller School of Medicine Miami, Florida	
09/2012 – 08/2015	Assistant Professor Medical Director, Miami Dade Forensic Alternative Center	

Supervising Attending Physician, Adult Outpatient Psychiatry Clinic
Department of Psychiatry and Behavioral Sciences
University of Miami Miller School of Medicine
Miami, Florida

07/2011 – 05/2016 *Genomic Convergence in Alzheimer Disease
Alzheimer Disease Sequencing Project*
Associate Scientist
John P. Hussman Institute for Human Genomics
University of Miami Miller School of Medicine
Miami, Florida

07/2009 – 06/2011 *Metabolic Dysregulation in Major Depression: Dyslipidemia,
Inflammation, and Oxidative Stress*
Resident Research Project
Faculty Mentor and Primary Investigator: Richard C. Shelton, M.D.
Vanderbilt University Medical Center

01/2004 – 06/2007 *Genomic Convergence in Alzheimer Disease*
Post-doctoral Fellowship
Center for Human Genetics
Duke University Medical Center

06/1998 – 07/1999 *Genetics of Parkinson Disease*
Clinical Research Coordinator
Center for Human Genetics
Duke University Medical Center

IV. PUBLICATIONS

JOURNAL PUBLICATIONS

Refereed Journals:

1. Rajabli F, Benchek P, Tosto G, [...], Naj AC. Multi-ancestry genome-wide meta-analysis of 56,241 individuals identifies LRRC4C, LHX5-AS1 and nominates ancestry-specific loci PTPRK, GRB14, and KIAA0825 as novel risk loci for Alzheimer disease: the Alzheimer Disease Genetics Consortium. 2023 July. doi: 10.1101/2023.07.06.23292311.
2. Cukier HN, Duarte CL, Laverde-Paz MJ, Simon SA, Van Booven DJ, Miyares AT, Whitehead PL, Hamilton-Nelson KL, Adams LD, **Carney RM**, Cuccaro ML, Vance JM, Pericak-Vance MA, Griswold AJ, Dykxhoorn DM. An Alzheimer's disease risk variant in TTC3 modifies the actin cytoskeleton organization and the PI3K-Akt signaling pathway in

iPSC-derived forebrain neurons. 2023 July. *Neurobiology of Aging*. doi:
10.1016/j.neurobiolaging.2023.07.007

3. Heath L, Earls JC, Magis AT, Kornilov SA, Lovejoy JC, Funk CC, Rappaport N, Logsdon BA, Mangravite LM, Kunkle BW, Martin ER, Naj AC, Ertekin-Taner N, Golde TE, Hood L, Price ND, **Alzheimer's Disease Genetics Consortium**. Manifestations of Alzheimer's disease genetic risk in the blood are evident in a multiomic analysis in healthy adults aged 18 to 90. *Scientific Reports*. 2022 April; 12(1):6117. doi: 10.1038/s41598-022-09825-2
4. Bellenguez C, Küçükali F, Jansen IE, [...], Lambert JC. New insights into the genetic etiology of Alzheimer's disease and related dementias. *Nature Genetics*. 2022 April; 54(4):1-25. doi: 10.1038/s41588-022-01024-z.
5. Kunkle B, Schmidt M, Klein H-U, [...], Kukull WA. Novel Alzheimer Disease Risk Loci and Pathways in African American Individuals Using the African Genome Resources Panel: A Meta-analysis. *JAMA Neurology*. 2020 October; 78(1). doi: 10.1001/jamaneurol.2020.3536.
6. Reiman EM, Arboleda-Velasquez JF, Quiroz YT, Huentelman MJ, Beach TG, Caselli RJ, Chen Y, Su Y, Myers AJ, Hardy J, Paul Vonsattel J, Younkin SG, Bennett DA, De Jager PL, Larson EB, Crane PK, Keene CD, Kamboh MI, Kofler JK, Duque L, Gilbert JR, Gwirtsman HE, Buxbaum JD, Dickson DW, Frosch MP, Ghetti BF, Lunetta KL, Wang LS, Hyman BT, Kukull WA, Foroud T, Haines JL, Mayeux RP, Pericak-Vance MA, Schneider JA, Trojanowski JQ, Farrer LA, Schellenberg GD, Beecham GW, Montine TJ, Jun GR; **Alzheimer's Disease Genetics Consortium**. Exceptionally low likelihood of Alzheimer's dementia in APOE2 homozygotes from a 5,000-person neuropathological study. *Nature Communications*. 2020 February; 11(1):667. doi: 10.1038/s41467-019-14279-8.
7. Ma Y, Jun GR, Chung J, Zhang X, Kunkle BW, Naj AC, White CC, Bennett DA, De Jager PL; **Alzheimer's Disease Genetics Consortium**, Mayeux R, Haines JL, Pericak-Vance MA, Schellenberg GD, Farrer LA, Lunetta KL. CpG-related SNPs in the MS4A region have a dose-dependent effect on risk of late-onset Alzheimer disease. *Aging Cell*. 2019 Aug;18(4):e12964. doi: 10.1111/accel.12964. Epub 2019 May 29.
8. Kunkle BW, Grenier-Boley B, Sims R, Bis JC, Damotte V, Naj AC, Boland A, Vronskaya M, van der Lee SJ, Amlie-Wolf A, Bellenguez C, Frizatti A, Chouraki V, Martin ER, Sleegers K, Badarinarayan N, Jakobsdottir J, Hamilton-Nelson KL, Moreno-Grau S, Olosa R, Raybould R, Chen Y, Kuzma AB, Hiltunen M, Morgan T, Ahmad S, Vardarajan BN, Epelbaum J, Hoffmann P, Boada M, Beecham GW, Garnier JG, Harold D, Fitzpatrick AL, Valladares O, Moutet ML, Gerrish A, Smith AV, Qu L, Bacq D, Denning N, Jian X, Zhao Y, Del Zompo M, Fox NC, Choi SH, Mateo I, Hughes JT, Adams HH, Malamon J, Sanchez-Garcia F, Patel Y, Brody JA, Dombroski BA, Naranjo MCD, Daniilidou M, Eiriksdottir G, Mukherjee S, Wallon D, Uphill J, Aspelund T, Cantwell LB, Garzia F, Galimberti D, Hofer

E, Butkiewicz M, Fin B, Scarpini E, Sarnowski C, Bush WS, Meslage S, Kornhuber J, White CC, Song Y, Barber RC, Engelborghs S, Sordon S, Voijnovic D, Adams PM, Vandenberghe R, Mayhaus M, Cupples LA, Albert MS, De Deyn PP, Gu W, Himali JJ, Beekly D, Squassina A, Hartmann AM, Orellana A, Blacker D, Rodriguez-Rodriguez E, Lovestone S, Garcia ME, Doody RS, Munoz-Fernandez C, Sussams R, Lin H, Fairchild TJ, Benito YA, Holmes C, Karamujić-Čomić H, Frosch MP, Thonberg H, Maier W, Roshchupkin G, Ghatti B, Giedraitis V, Kawalia A, Li S, Huebinger RM, Kilander L, Moebus S, Hernández I, Kamboh MI, Brundin R, Turton J, Yang Q, Katz MJ, Concari L, Lord J, Beiser AS, Keene CD, Helisalmi S, Kloszewska I, Kukull WA, Koivisto AM, Lynch A, Tarraga L, Larson EB, Haapasalo A, Lawlor B, Mosley TH, Lipton RB, Solfrizzi V, Gill M, Longstreth WT Jr, Montine TJ, Frisardi V, Diez-Fairen M, Rivadeneira F, Petersen RC, Deramecourt V, Alvarez I, Salani F, Ciaramella A, Boerwinkle E, Reiman EM, Fievet N, Rotter JI, Reisch JS, Hanon O, Cupidi C, Andre Uitterlinden AG, Royall DR, Dufouil C, Maletta RG, de Rojas I, Sano M, Brice A, Cecchetti R, George-Hyslop PS, Ritchie K, Tsolaki M, Tsuang DW, Dubois B, Craig D, Wu CK, Soininen H, Avramidou D, Albin RL, Fratiglioni L, Germanou A, Apostolova LG, Keller L, Koutroumani M, Arnold SE, Panza F, Gkatzima O, Asthana S, Hannequin D, Whitehead P, Atwood CS, Caffarra P, Hampel H, Quintela I, Carracedo Á, Lannfelt L, Rubinsztein DC, Barnes LL, Pasquier F, Frölich L, Barral S, McGuinness B, Beach TG, Johnston JA, Becker JT, Passmore P, Bigio EH, Schott JM, Bird TD, Warren JD, Boeve BF, Lupton MK, Bowen JD, Proitsi P, Boxer A, Powell JF, Burke JR, Kauwe JSK, Burns JM, Mancuso M, Buxbaum JD, Bonuccelli U, Cairns NJ, McQuillin A, Cao C, Livingston G, Carlson CS, Bass NJ, Carlsson CM, Hardy J, **Carney RM**, Bras J, Carrasquillo MM, Guerreiro R, Allen M, Chui HC, Fisher E, Masullo C, Crocco EA, DeCarli C, Bisceglia G, Dick M, Ma L, Duara R, Graff-Radford NR, Evans DA, Hodges A, Faber KM, Scherer M, Fallon KB, Riemenschneider M, Fardo DW, Heun R, Farlow MR, Kölsch H, Ferris S, Leber M, Foroud TM, Heuser I, Galasko DR, Giegling I, Gearing M, Hüll M, Geschwind DH, Gilbert JR, Morris J, Green RC, Mayo K, Growdon JH, Feulner T, Hamilton RL, Harrell LE, Drichel D, Honig LS, Cushion TD, Huentelman MJ, Hollingworth P, Huette CM, Hyman BT, Marshall R, Jarvik GP, Meggy A, Abner E, Menzies GE, Jin LW, Leonenko G, Real LM, Jun GR, Baldwin CT, Grozeva D, Karydas A, Russo G, Kaye JA, Kim R, Jessen F, Kowall NW, Vellas B, Kramer JH, Vardy E, LaFerla FM, Jöckel KH, Lah JJ, Dichgans M, Leverenz JB, Mann D, Levey AI, Pickering-Brown S, Lieberman AP, Klopp N, Lunetta KL, Wichmann HE, Lyketsos CG, Morgan K, Marson DC, Brown K, Martiniuk F, Medway C, Mash DC, Nöthen MM, Masliah E, Hooper NM, McCormick WC, Daniele A, McCurry SM, Bayer A, McDavid AN, Gallacher J, McKee AC, van den Bussche H, Mesulam M, Brayne C, Miller BL, Riedel-Heller S, Miller CA, Miller JW, Al-Chalabi A, Morris JC, Shaw CE, Myers AJ, Wiltfang J, O'Bryant S, Olichney JM, Alvarez V, Parisi JE, Singleton AB, Paulson HL, Collinge J, Perry WR, Mead S, Peskind E, Cribbs DH, Rossor M, Pierce A, Ryan NS, Poon WW, Nacmias B, Potter H, Sorbi S, Quinn JF, Sacchinelli E, Raj A, Spalletta G, Raskind M, Caltagirone C, Bossù P, Orfei MD, Reisberg B, Clarke R, Reitz C, Smith AD, Ringman JM, Warden D, Roberson ED, Wilcock G, Rogaeva E, Bruni AC, Rosen HJ, Gallo M, Rosenberg RN, Ben-Shlomo Y, Sager MA, Mecocci P, Saykin AJ, Pastor P, Cuccaro ML, Vance JM, Schneider JA, Schneider LS, Slifer S, Seeley WW, Smith

AG, Sonnen JA, Spina S, Stern RA, Swerdlow RH, Tang M, Tanzi RE, Trojanowski JQ, Troncoso JC, Van Deerlin VM, Van Eldik LJ, Vinters HV, Vonsattel JP, Weintraub S, Welsh-Bohmer KA, Wilhelmsen KC, Williamson J, Wingo TS, Woltjer RL, Wright CB, Yu CE, Yu L, Saba Y, Pilotto A, Bullido MJ, Peters O, Crane PK, Bennett D, Bosco P, Coto E, Boccardi V, De Jager PL, Lleo A, Warner N, Lopez OL, Ingelsson M, Deloukas P, Cruchaga C, Graff C, Gwilliam R, Fornage M, Goate AM, Sanchez-Juan P, Kehoe PG, Amin N, Ertekin-Taner N, Berr C, Debette S, Love S, Launer LJ, Younkin SG, Dartigues JF, Corcoran C, Ikram MA, Dickson DW, Nicolas G, Champion D, Tschanz J, Schmidt H, Hakonarson H, Clarimon J, Munger R, Schmidt R, Farrer LA, Van Broeckhoven C, C O'Donovan M, DeStefano AL, Jones L, Haines JL, Deleuze JF, Owen MJ, Gudnason V, Mayeux R, Escott-Price V, Psaty BM, Ramirez A, Wang LS, Ruiz A, van Duijn CM, Holmans PA, Seshadri S, Williams J, Amouyel P, Schellenberg GD, Lambert JC, Pericak-Vance MA; Alzheimer Disease Genetics Consortium (ADGC); European Alzheimer's Disease Initiative (EADI); Cohorts for Heart and Aging Research in Genomic Epidemiology Consortium (CHARGE); Genetic and Environmental Risk in AD/Defining Genetic, Polygenic and Environmental Risk for Alzheimer's Disease Consortium (GERAD/PERADES). Genetic meta-analysis of diagnosed Alzheimer's disease identifies new risk loci and implicates A β , tau, immunity and lipid processing. *Nat Genet.* 2019 Mar;51(3):414-430. doi: 10.1038/s41588-019-0358-2. Epub 2019 Feb 28.

9. Chauhan G, Adams HHH, Satizabal CL, Bis JC, Teumer A, Sargurupremraj M, Hofer E, Trompet S, Hilal S, Smith AV, Jian X, Malik R, Traylor M, Pulit SL, Amouyel P, Mazoyer B, Zhu YC, Kaffashian S, Schilling S, Beecham GW, Montine TJ, Schellenberg GD, Kjartansson O, Gudnason V, Knopman DS, Griswold ME, Windham BG, Gottesman RF, Mosley TH, Schmidt R, Saba Y, Schmidt H, Takeuchi F, Yamaguchi S, Nabika T, Kato N, Rajan KB, Aggarwal NT, De Jager PL, Evans DA, Psaty BM, Rotter JI, Rice K, Lopez OL, Liao J, Chen C, Cheng CY, Wong TY, Ikram MK, van der Lee SJ, Amin N, Chouraki V, DeStefano AL, Aparicio HJ, Romero JR, Maillard P, DeCarli C, Wardlaw JM, Hernández MDCV, Luciano M, Liewald D, Deary IJ, Starr JM, Bastin ME, Muñoz Maniega S, Slagboom PE, Beekman M, Deelen J, Uh HW, Lemmens R, Brodaty H, Wright MJ, Ames D, Boncoraglio GB, Hopewell JC, Beecham AH, Blanton SH, Wright CB, Sacco RL, Wen W, Thalamuthu A, Armstrong NJ, Chong E, Schofield PR, Kwok JB, van der Grond J, Stott DJ, Ford I, Jukema JW, Vernooij MW, Hofman A, Uitterlinden AG, van der Lugt A, Wittfeld K, Grabe HJ, Hosten N, von Sarnowski B, Völker U, Levi C, Jimenez-Conde J, Sharma P, Sudlow CLM, Rosand J, Woo D, Cole JW, Meschia JF, Slowik A, Thijs V, Lindgren A, Melander O, Grewal RP, Rundek T, Rexrode K, Rothwell PM, Arnett DK, Jern C, Johnson JA, Benavente OR, Wassertheil-Smoller S, Lee JM, Wong Q, Mitchell BD, Rich SS, McArdle PF, Geerlings MI, van der Graaf Y, de Bakker PIW, Asselbergs FW, Srikanth V, Thomson R, McWhirter R, Moran C, Callisaya M, Phan T, Rutten-Jacobs LCA, Bevan S, Tzourio C, Mather KA, Sachdev PS, van Duijn CM, Worrall BB, Dichgans M, Kittner SJ, Markus HS, Ikram MA, Fornage M, Launer LJ, Seshadri S, Longstreth WT Jr, Debette S; Stroke Genetics Network (SiGN), the International Stroke Genetics Consortium (ISGC), METASTROKE, **Alzheimer's Disease Genetics Consortium (ADGC)**, and the Neurology

Working Group of the Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium. Genetic and lifestyle risk factors for MRI-defined brain infarcts in a population-based setting. *Neurology*. 2019 Jan 16;92(5):e486-503. doi: 10.1212/WNL.0000000000006851. Online ahead of print. PMID: 30651383

10. Cukier HN, Kunkle BK, Hamilton KL, Rolati S, Kohli MA, Whitehead PL, Jaworski J, Vance JM, Cuccaro ML, **Carney RM**, Gilbert JR, Farrer LA, Martin ER, Beecham GW, Haines JL, Pericak-Vance MA. Exome Sequencing of Extended Families with Alzheimer's Disease Identifies Novel Genes Implicated in Cell Immunity and Neuronal Function. *J Alzheimers Dis Parkinsonism*. 2017 Aug;7(4). pii: 355. doi: 10.4172/2161-0460.1000355. Epub 2017 Jul 31.
11. Kunkle BW, Vardarajan BN, Naj AC, Whitehead PL, Rolati S, Slifer S, **Carney RM**, Cuccaro ML, Vance JM, Gilbert JR, Wang LS, Farrer LA, Reitz C, Haines JL, Beecham GW, Martin ER, Schellenberg GD, Mayeux RP, Pericak-Vance MA. Early-Onset Alzheimer Disease and Candidate Risk Genes Involved in Endolysosomal Transport. *JAMA Neurol*. 2017 Sep 1;74(9):1113-1122. doi: 10.1001/jamaneurol.2017.1518
12. Sims R, van der Lee SJ, Naj AC, Bellenguez C, Badarinarayan N, Jakobsdottir J, Kunkle BW, Boland A, Raybould R, Bis JC, Martin ER, Grenier-Boley B, Heilmann-Heimbach S, Chouraki V, Kuzma AB, Sleegers K, Vronskaya M, Ruiz A, Graham RR, Olsos R, Hoffmann P, Grove ML, Vardarajan BN, Hiltunen M, Nöthen MM, White CC, Hamilton-Nelson KL, Epelbaum J, Maier W, Choi SH, Beecham GW, Dulary C, Herms S, Smith AV, Funk CC, Derbois C, Forstner AJ, Ahmad S, Li H, Bacq D, Harold D, Satizabal CL, Valladares O, Squassina A, Thomas R, Brody JA, Qu L, Sánchez-Juan P, Morgan T, Wolters FJ, Zhao Y, Garcia FS, Denning N, Fornage M, Malamon J, Naranjo MCD, Majounie E, Mosley TH, Dombroski B, Wallon D, Lupton MK, Dupuis J, Whitehead P, Fratiglioni L, Medway C, Jian X, Mukherjee S, Keller L, Brown K, Lin H, Cantwell LB, Panza F, McGuinness B, Moreno-Grau S, Burgess JD, Solfrizzi V, Proitsi P, Adams HH, Allen M, Seripa D, Pastor P, Cupples LA, Price ND, Hannequin D, Frank-García A, Levy D, Chakrabarty P, Caffarra P, Giegling I, Beiser AS, Giedraitis V, Hampel H, Garcia ME, Wang X, Lannfelt L, Mecocci P, Eiriksdottir G, Crane PK, Pasquier F, Boccardi V, Henández I, Barber RC, Scherer M, Tarraga L, Adams PM, Leber M, Chen Y, Albert MS, Riedel-Heller S, Emilsson V, Beekly D, Braae A, Schmidt R, Blacker D, Masullo C, Schmidt H, Doody RS, Spalletta G, Jr WTL, Fairchild TJ, Bossù P, Lopez OL, Frosch MP, Sacchinelli E, Ghetti B, Yang Q, Huebinger RM, Jessen F, Li S, Kamboh MI, Morris J, Sotolongo-Grau O, Katz MJ, Corcoran C, Dunstan M, Braddel A, Thomas C, Meggy A, Marshall R, Gerrish A, Chapman J, Aguilar M, Taylor S, Hill M, Fairén MD, Hodges A, Vellas B, Soininen H, Kloszewska I, Daniilidou M, Uphill J, Patel Y, Hughes JT, Lord J, Turton J, Hartmann AM, Cecchetti R, Fenoglio C, Serpente M, Arcaro M, Caltagirone C, Orfei MD, Ciaramella A, Pichler S, Mayhaus M, Gu W, Lleó A, Fortea J, Blesa R, Barber IS, Brookes K, Cupidi C, Maletta RG, Carrell D, Sorbi S, Moebus S, Urbano M, Pilotto A, Kornhuber J, Bosco P, Todd S, Craig D, Johnston J, Gill M, Lawlor B, Lynch A, Fox NC, Hardy J; ARUK

Consortium, Albin RL, Apostolova LG, Arnold SE, Asthana S, Atwood CS, Baldwin CT, Barnes LL, Barral S, Beach TG, Becker JT, Bigio EH, Bird TD, Boeve BF, Bowen JD, Boxer A, Burke JR, Burns JM, Buxbaum JD, Cairns NJ, Cao C, Carlson CS, Carlsson CM, **Carney RM**, Carrasquillo MM, Carroll SL, Diaz CC, Chui HC, Clark DG, Cribbs DH, Crocco EA, DeCarli C, Dick M, Duara R, Evans DA, Faber KM, Fallon KB, Fardo DW, Farlow MR, Ferris S, Foroud TM, Galasko DR, Gearing M, Geschwind DH, Gilbert JR, Graff-Radford NR, Green RC, Growdon JH, Hamilton RL, Harrell LE, Honig LS, Huentelman MJ, Hulette CM, Hyman BT, Jarvik GP, Abner E, Jin LW, Jun G, Karydas A, Kaye JA, Kim R, Kowall NW, Kramer JH, LaFerla FM, Lah JJ, Leverenz JB, Levey AI, Li G, Lieberman AP, Lunetta KL, Lyketsos CG, Marson DC, Martiniuk F, Mash DC, Masliah E, McCormick WC, McCurry SM, McDavid AN, McKee AC, Mesulam M, Miller BL, Miller CA, Miller JW, Morris JC, Murrell JR, Myers AJ, O'Bryant S, Olichney JM, Pankratz VS, Parisi JE, Paulson HL, Perry W, Peskind E, Pierce A, Poon WW, Potter H, Quinn JF, Raj A, Raskind M, Reisberg B, Reitz C, Ringman JM, Roberson ED, Rogaeva E, Rosen HJ, Rosenberg RN, Sager MA, Saykin AJ, Schneider JA, Schneider LS, Seeley WW, Smith AG, Sonnen JA, Spina S, Stern RA, Swerdlow RH, Tanzi RE, Thornton-Wells TA, Trojanowski JQ, Troncoso JC, Van Deerlin VM, Van Eldik LJ, Vinters HV, Vonsattel JP, Weintraub S, Welsh-Bohmer KA, Wilhelmsen KC, Williamson J, Wingo TS, Woltjer RL, Wright CB, Yu CE, Yu L, Garzia F, Golamaully F, Septier G, Engelborghs S, Vandenberghe R, De Deyn PP, Fernandez CM, Benito YA, Thonberg H, Forsell C, Lilius L, Kinhult-Ståhlbom A, Kilander L, Brundin R, Concari L, Helisalmi S, Koivisto AM, Haapasalo A, Dermecourt V, Fievet N, Hanon O, Dufouil C, Brice A, Ritchie K, Dubois B, Himali JJ, Keene CD, Tschanz J, Fitzpatrick AL, Kukull WA, Norton M, Aspelund T, Larson EB, Munger R, Rotter JI, Lipton RB, Bullido MJ, Hofman A, Montine TJ, Coto E, Boerwinkle E, Petersen RC, Alvarez V, Rivadeneira F, Reiman EM, Gallo M, O'Donnell CJ, Reisch JS, Bruni AC, Royall DR, Dichgans M, Sano M, Galimberti D, St George-Hyslop P, Scarpini E, Tsuang DW, Mancuso M, Bonuccelli U, Winslow AR, Daniele A, Wu CK; GERAD/PERADES, CHARGE, ADGC, EADI, Peters O, Nacmias B, Riemenschneider M, Heun R, Brayne C, Rubinsztein DC, Bras J, Guerreiro R, Al-Chalabi A, Shaw CE, Collinge J, Mann D, Tsolaki M, Clarimón J, Sussams R, Lovestone S, O'Donovan MC, Owen MJ, Behrens TW, Mead S, Goate AM, Uitterlinden AG, Holmes C, Cruchaga C, Ingelsson M, Bennett DA, Powell J, Golde TE, Graff C, De Jager PL, Morgan K, Ertekin-Taner N, Combarros O, Psaty BM, Passmore P, Younkin SG, Berr C, Gudnason V, Rujescu D, Dickson DW, Dartigues JF, DeStefano AL, Ortega-Cubero S, Hakonarson H, Champion D, Boada M, Kauwe JK, Farrer LA, Van Broeckhoven C, Ikram MA, Jones L, Haines JL, Tzourio C, Launer LJ, Escott-Price V, Mayeux R, Deleuze JF, Amin N, Holmans PA, Pericak-Vance MA, Amouyel P, van Duijn CM, Ramirez A, Wang LS, Lambert JC, Seshadri S, Williams J, Schellenberg GD. Rare coding variants in *PLCG2*, *ABI3*, and *TREM2* implicate microglial-mediated innate immunity in Alzheimer's disease. *Nat Genet.* 2017 Sep;49(9):1373-1384. doi: 10.1038/ng.3916. Epub 2017 Jul 17. PMID: 28714976

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52. Coppola G, Chinnathambi S, Lee JJ, Dombroski BA, Baker MC, Soto-Ortolaza AI, Lee SE, Klein E, Huang AY, Sears R, Lane JR, Karydas AM, Kenet RO, Biernat J, Wang LS, Cotman CW, Decarli CS, Levey AI, Ringman JM, Mendez MF, Chui HC, Le Ber I, Brice A, Lupton MK, Preza E, Lovestone S, Powell J, Graff-Radford N, Petersen RC, Boeve BF, Lippa CF, Bigio EH, Mackenzie I, Finger E, Kertesz A, Caselli RJ, Gearing M, Juncos JL, Ghetti B, Spina S, Bordelon YM, Tourtellotte WW, Frosch MP, Vonsattel JP, Zarow C, Beach TG, Albin RL, Lieberman AP, Lee VM, Trojanowski JQ, Van Deerlin VM, Bird TD, Galasko DR, Masliah E, White CL, Troncoso JC, Hannequin D, Boxer AL, Geschwind MD, Kumar S, Mandelkow EM, Wszolek ZK, Uitti RJ, Dickson DW, Haines JL, Mayeux R, Pericak-Vance MA, Farrer LA; **Alzheimer's Disease Genetics Consortium**, Ross OA, Rademakers R, Schellenberg GD, Miller BL, Mandelkow E, Geschwind DH. Evidence for a role of the rare p.A152T variant in MAPT in increasing the risk for FTD-spectrum and Alzheimer's diseases. *Hum Mol Genet.* 21(15):3500-12. 2012.
53. **Carney RM**, Shelton RC. Agomelatine for the treatment of major depressive disorder. *Expert Opin Pharmacother.* 12(15):2411-9. 2011.
54. Naj AC, Jun G, Beecham GW, Wang L, Vardarajan BN, Buross J, Gallins PJ, Buxbaum JD, Carlson CS, Crane PK, Larson EB, Bird TD, Boeve BF, Graff-Radford NR, De Jager PL, Evans D, Schneider JA, Carrasquillo MM, Ertekin-Taner N, Younkin SG, Cruchaga C, Kauwe JSK, Nowotny P, Kramer P, Hardy J, Huentelman MJ, Myers AJ, Barmada MM, Demirci FY, Baldwin CT, Green RC, Rogaeva E, St George-Hyslop P, **Alzheimer Disease Genetics Consortium**, Cantwell LB, Dombroski BA, Beekly D, Lunetta KL, Martin ER, Kamboh MI, Saykin AJ, Reiman EM, Bennett DA, Morris JC, Montine TJ, Goate AM, Blacker D, Tsuang DW, Hakonarson H, Kukull WA, Foroud TM, Haines JL, Mayeux R, Pericak-Vance MA, Farrer LA, Schellenberg GD. Common variants in MS4A4/MS4A6E, CD2AP, CD33 and EPHA1 are associated with late-onset Alzheimer's disease. *Nat Genet.* 43(5):436-41. 2011.
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confirms CR1, CLU, and PICALM as Alzheimer disease risk loci and reveals interactions with APOE genotypes. *Arch Neurol* 67(12):1473-84. 2010.

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57. **Carney RM**, Slifer MA, Lin PI, Gaskell PC, Scott WK, Potocky CF, Hulette CM, Welsh-Bohmer KA, Schmechel DE, Vance JM, Pericak-Vance MA. Longitudinal follow-up of late-onset Alzheimer disease families. *Am J Med Genet B Neuropsychiatr Genet.* 147B(5):571-8. 2008.
58. Liang X, Schnetz-Boutaud N, Bartlett J, Allen MJ, Gwirtsman H, Schmechel DE, **Carney RM**, Gilbert JR, Pericak-Vance MA, Haines JL. No association between SNP rs498055 on chromosome 10 and late-onset Alzheimer disease in multiple datasets. *Ann Hum Genet.* 72(Pt 1):141-4. 2008.
59. Liang X, Martin ER, Schnetz-Boutaud N, Bartlett J, Anderson B, Züchner S, Gwirtsman H, Schmechel D, **Carney R**, Gilbert JR, Pericak-Vance MA, Haines JL. Effect of heterogeneity on the chromosome 10 risk in late-onset Alzheimer disease. *Hum Mutat.* 28(11):1065-73. 2007.
60. Liang X, Schnetz-Boutaud N, Bartlett J, Anderson BM, Gwirtsman H, Schmechel D, **Carney R**, Gilbert JR, Pericak-Vance MA, Haines JL. Association analysis of genetic polymorphisms in the CDC2 gene with late-onset Alzheimer disease. *Dement Geriatr Cogn Disord.* 23(2):126-32. 2007.
61. **Carney RM**, Wolpert CM, Ravan SA, Shahbazian M, Ashley-Koch A, Cuccaro ML, Vance JM, Pericak-Vance MA. Identification of MeCP2 mutations in a series of females with autistic disorder. *Pediatr Neurol.* 28(3):205-11. 2003.

Non-Refereed Journals:

1. Fernandez C, Levitt EJ, **Carney RM**. Acute onset of psychosis and personality changes in a woman with newly identified lung malignancy and urinary tract infection: A case report. *Florida Medical Student Research Journal.* 2020 April.

ABSTRACTS:

1. Healey J, Salinas J, Bryant C, Cortes E, Sabbag S, **Carney R**, Padilla V. Severe Adverse Events Committee (SAVE): Findings of a Pilot Project for Resident Safety. 2020 Annual Meeting, American Psychiatric Association, Philadelphia, PA, April 25 – 29, 2020.

2. **Carney RM**, Kunkle BW, Whitehead PL, Vardarajan B, Mayeux RP, Gilbert JR, Haines JL, Pericak-Vance MA. Known and novel mutations in SORL1, PSEN1, and PSEN2 genes are found in multiplex Alzheimer's disease families with varying age of onset and pathological presentations. 12th International Conference on Alzheimer's & Parkinson's Diseases (AD/PD 2015), Nice, France. March 18 – 22, 2015.
3. **Carney RM**, Kohli MA, Kunkle B, Martin ER, Beecham GW, Gilbert J, Pericak-Vance MA. Clinical characteristics of late onset Alzheimer disease in an extended family with a missense variant in TTC3. Alzheimer's Association International Conference on Alzheimer's Disease (AAIC 2014), Copenhagen, Denmark. 2014.
4. Kohli MA, John-Williams K, Rajbhandary R, Naj A, Whitehead P, Hamilton K, **Carney RM**, Wright C, Crocco E, Gwirtsman HE, Lang R, Beecham G, Martin ER, Gilbert J, Benatar M, Small GW, Mash D, Byrd G, Haines JL, Pericak-Vance MA, Züchner S. Large repeat expansions in the C9ORF72 gene contribute to a spectrum of neurodegenerative disorders including Alzheimer disease. American Society of Human Genetics Annual Meeting, San Francisco, CA, 2012.
5. **Carney RM**, Kohli MA, Naj AC, Beecham GW, Hamilton KL, Haines JL, Gilbert JR, Züchner S, Pericak-Vance MA. Parkinsonian symptoms and lack of prominent frontal atrophy in a family with early-onset dementia and the MAPT R406W mutation. Alzheimer's Association International Conference on Alzheimer's Disease (AAIC 2012), Vancouver, British Columbia, Canada. 2012.
6. Beecham GW, Slifer MA, Martin ER, Li Y-J, **Carney RM**, Gilbert JR, Haines JL, Pericak-Vance MA. Genomic convergence of late-onset Alzheimer disease candidate genes. Alzheimer's Association International Conference on Alzheimer's Disease (ICAD 2008), McCormick Place, Chicago, IL. 2008.
7. Beecham G, Martin E, Li Y-J, **Carney RM**, Slifer M, Gilbert J, Haines J, Pericak-Vance MA. Genome-wide association for late-onset Alzheimer disease (LOAD) confirms risk locus on chromosome 12. American Society for Human Genetics Annual Meeting, San Diego, CA. 2007.
8. Turner SD, Liang X, Martin ER, Schnetz-Boutaud N, Bartlett J, Anderson BM, Züchner S, Gwirtsman H, Schmechel D, **Carney R**, Gilbert J, Pericak-Vance MA, Haines JL. Examination of sortilin-related receptor SORL1 in late-onset Alzheimer disease. American Society for Human Genetics Annual Meeting, San Diego, CA. 2007.
9. **Carney RM**, Gaskell PC, Scott WK, Slifer MA, Hulette CM, Welsh-Bohmer KA, Schmechel DE, Vance JM, Pericak-Vance MA. Clinical follow-up of multiplex late-onset Alzheimer disease families. American Society for Human Genetics Annual Meeting, Salt Lake City, UT. 2005.

10. Cuccaro M, Donnelly S, Cope H, Wolpert C, **Carney R**, Abramson R, Hall A, Wright H, Gilbert J, Pericak-Vance MA. Autism in African American (AA) families: phenotypic findings. American Society for Human Genetics Annual Meeting, Salt Lake City, UT. 2005.
11. **Carney RM**, Vance JM, Dancel RD, Wolpert CM, DeLong GR, McClain C, von Wendt L, Gilbert JR, Donnelly SL, Ravan SA, Abel HL, Abramson RK, Wright HH, Zoghbi HY, Cuccaro ML, Pericak-Vance MA. Screening for MECP2 mutations in females with autistic disorder. 10th International Congress of Human Genetics, Vienna, Austria. 2001.
12. Ashley-Koch A, **Carney RM**, Dancel RD, Wolpert CM, DeLong GR, Donnelly SL, Ravan SA, Abel HL, Abramson RK, Wright HH, Zoghbi HY, Cuccaro ML, Gilbert JR, Vance JM, Pericak-Vance MA, Identification of MECP2 mutations in two females with autistic disorder. International Meeting for Autism Research (IMFAR), San Diego, CA. 2001.

V. PROFESSIONAL

Development Courses:

Virtual Aspiring Supervisors Program (vASP). 12 week course, with didactic, interactive, and reflective modules using the Office of Personnel Management (OPM) Leadership Competency Model and the VA Leadership Development Framework at the First Line Supervisor level. Completed June, 2021.

Media Appearances:

“¿Que Sucede en La Mente de Ariel Castro?” Interview for Expert Commentary, Primer Impacto (Spanish language primetime newshow), Univision, May 15, 2013.

Professional Presentations:

“The Future of Alzheimer: The Role of Genomics.” Opening Presentation; Alzheimer’s Association, Southeast Florida Chapter; Regional Education Conference, FIU Kovens Conference Center, North Miami, Florida, May 15, 2014.

“Psychiatric and Judicial Collaboration: Working to Address the Overrepresentation of Justice-Involved People with Mental Disorders.” Workshop; American Psychiatric Association; 167th Annual Meeting, New York, New York, May 3, 2014.

“Alzheimer’s Disease and African-Americans.” Presentation and panel; First Annual *Legacy* Black Healthcare Symposium, Miami, Florida, December 3, 2013.

“Identifying Places to Make Connections between the Courts and the Community.” Panel; Judicial-Psychiatric Leadership Forum. APA Institute on Psychiatric Services; Judges’ Leadership Initiative for Criminal Justice and Behavioral Health/Psychiatric Leadership Group for Criminal Justice, Philadelphia, Pennsylvania, October 13, 2013.

Teaching Achievements and Activities:

Faculty Resident Supervisor to:

- 2022-2023: Kendyl Stewart, MD (PGY-3)
- 2021-2022: Jessica Healey, MD (PGY-4), Amy Waters, MD (PGY-4), Kristi Wintermeyer, MD (PGY-5), Natalie Martinez Sosa (PGY-5)
- 2020-2021: Jessica Healey, MD (PGY-3), Amy Waters, MD (PGY-3), Julie Guzzardi, MD (PGY-5)
- 2019-2020: Ghaith Shukri, MD (PGY-1), Connie Spelius Perez, MD (PGY-1), Ahmed Valdes, MD (PGY-1), Dennis Valerstein, MD (PGY-1), Mousa Botros, MD (PGY-5), Lisa Oliveri, MD (PGY-5)
- 2018-2019: Gregory Hutton, MD (PGY-3), Durim Bozhdaraj, MD (PGY-5)
- 2017-2018: Elizabeth Perkins, MD (PGY-2), Matthew Stark, MD (PGY-2), Francis Smith (PGY-5)
- 2016-2017: Michelle Benitez, MD (PGY-5), Lance Amols, MD (PGY-5)
- 2015-2016: Eva Diaz, MD (PGY-3); Sana Qureshi, MD (PGY-5/Forensic Fellow)
- 2014-2015: Stephanie Friedman, MD (PGY-2)
- 2013-2014: Aly Diaz de Villegas, MD (PGY-2)
- 2012-2013: Suraya Kawadry, MD (PGY-2)

Faculty Research Mentor to Dr. Sana Qureshi, PGY-4, Department of Psychiatry and Behavioral Sciences, University of Miami Miller School of Medicine, Miami, Florida. “Outcomes of Treatment at the Miami-Dade Forensic Alternative Center versus State Hospitalization.” Winner, Best Resident Research Poster, June 2015.

“Chronic Suicidality.” Faculty Discussant with Drs. Shumaia Rahman and Joshua Delaney, PGY-2, Morbidity and Mortality (M&M) Conference, Department of Psychiatry and Behavioral Sciences, University of Miami Miller School of Medicine, Miami, Florida, February 20, 2019.

“ECT—Clinical Use and Legal Issues.” Faculty Discussant with Drs. Areej Alfaraj and Elizabeth Perkins, PGY-2, Morbidity and Mortality (M&M) Conference, Department of Psychiatry and Behavioral Sciences, University of Miami Miller School of Medicine, Miami, Florida, February 14, 2018.

“Management of a Patient Making Threats of Mass Murder.” Faculty Discussant with Dr. Matthew Stark, PGY-2, Morbidity and Mortality (M&M) Conference, Department of Psychiatry and Behavioral Sciences, University of Miami Miller School of Medicine, Miami, Florida, August 2, 2017.

“Inpatient Assault Against Staff.” Faculty Discussant with Dr. Samantha Saltz, PGY-2, Morbidity and Mortality (M&M) Conference, Department of Psychiatry and Behavioral Sciences, University of Miami Miller School of Medicine, Miami, Florida, January 28, 2015.

Faculty Project Advisor to Award Recipient Ms. Shawntira Johnson, University of Miami Miller School of Medicine MS-III, Diverse Medical Scholars Program, United Health Foundation/National Medical Fellowships, for a service project on the Miami-Dade Forensic Alternative Center at Jackson Behavioral Health Hospital, January – May 2014.

“Competency and Capacity.” Instructor, PGY-4 Core Curriculum in Forensic Psychiatry, Department of Psychiatry and Behavioral Sciences, University of Miami Miller School of Medicine, Miami, Florida, 2013-present.

“Violence Against Staff by Psychiatric Inpatients.” Faculty Discussant, Ethics Rounds, Department of Psychiatry and Behavioral Sciences, University of Miami Miller School of Medicine, Miami, Florida, October 13, 2013.

“Suicide.” Instructor, Summer Scholars Program (for Miami area high school students), Coordinated by Ana Campo, MD, through the Department of Psychiatry and Behavioral Sciences, University of Miami Miller School of Medicine, Miami, Florida, 2013-2016.

"Advanced Psychopharmacological Approaches to Mood and Anxiety Disorders: A Consultation Case Series." Grand Rounds, Department of Psychiatry, Vanderbilt University Medical Center, Nashville, Tennessee, June 23, 2011.

Committees:

PGY-1 Milestones and Promotion Committee, Department of Psychiatry and Behavioral Sciences, University of Miami Miller School of Medicine, Miami, Florida, 2015-2022.

PGY-3 Milestones and Promotion Committee, Department of Psychiatry and Behavioral Sciences, University of Miami Miller School of Medicine, Miami, Florida, 2013-2015.

Ad Hoc Committee on Florida Guardianship; Florida Medical Association’s Council on Healthy Floridians, March 2013-present.

Honors:

1. Four Time Most Outstanding Faculty Teaching Award: Miami VA Department of Mental Health and Behavioral Sciences. Selected by PGY-1 through PGY-4 Psychiatry Residents, Department of Psychiatry and Behavioral Sciences, University of Miami Miller School of Medicine, Miami, Florida, 2018-2020, 2022.
2. Three-time Award for Excellence in Teaching: Outstanding Voluntary Faculty in an Inpatient Setting. Florida International University Herbert Wertheim College of Medicine, Department of Psychiatry and Behavioral Health. consecutive award winner, 2016-2017, 2022.

3. Travel Fellowship Award, Alzheimer's Association International Conference, July 14-19, 2012, Vancouver, British Columbia, Canada.
4. Fellowship Travel Award, Workshop on Clinical Trials in Psychopharmacology, American Society of Clinical Psychopharmacology, April 27 - 29, 2010, New York, New York.
5. Medical Degree with Distinction in Research, Stony Brook University School of Medicine, 2003.
6. Howard Hughes Undergraduate Research Award, Duke University, 1998.