HAI PET-tle Royale 2026

Jan 13-14 2026

Presented by:
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Mayo Clinic

HAI Quizmaster, 2026

slido

Multiple choice poll

HAI Quiz 2026 (1/30)

0 9 8

The first edition of HAI was held in:

Miami

Boston

San Juan

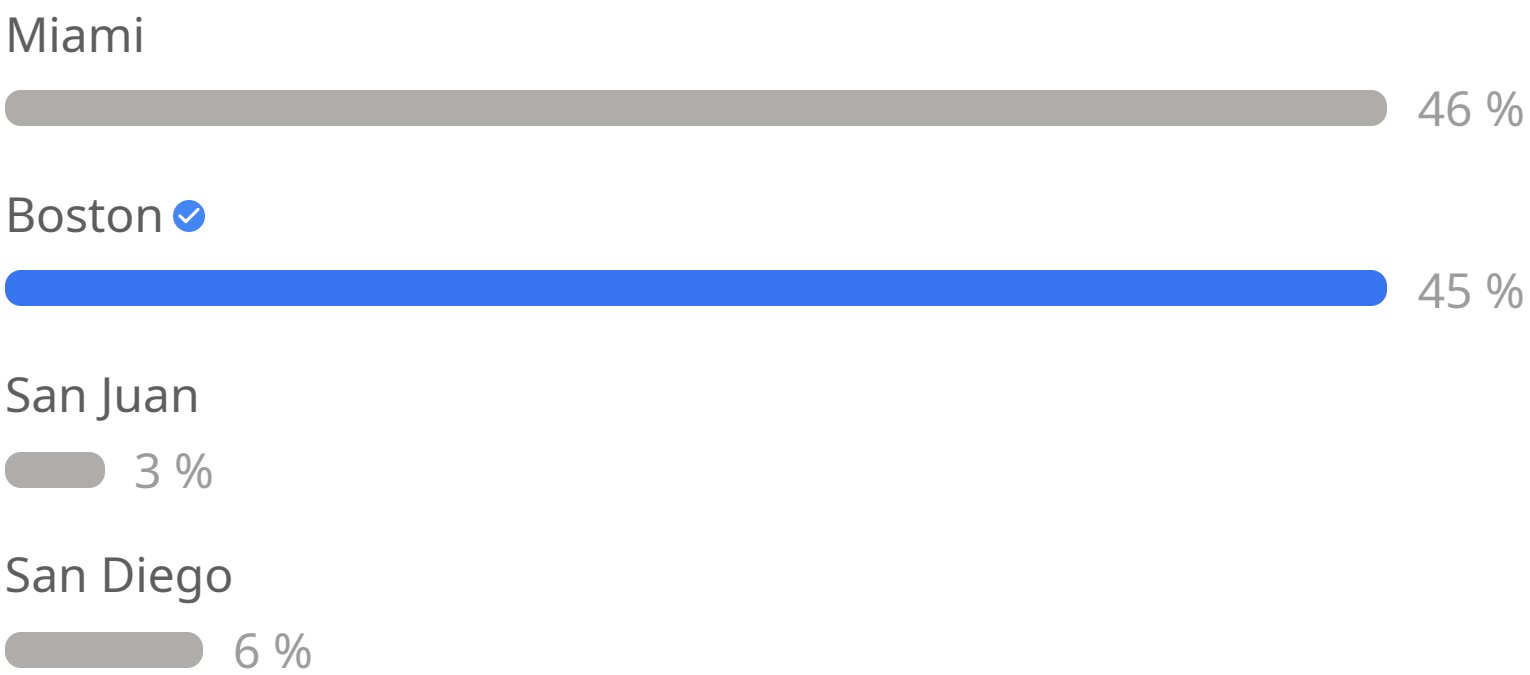
San Diego

Multiple choice poll

HAI Quiz 2026 (1/30)

0 9 8

The first edition of HAI was held in:



From: https://hai.worldeventsforum.com/past_editions/

Multiple choice poll

HAI Quiz 2026 (2/30)

109

T/F: Centiloid values are always between 0 and 100

True

False

Multiple choice poll

HAI Quiz 2026 (2/30)

109

T/F: Centiloid values are always between 0 and 100

True

11 %

False

89 %

0 and 100 CL are *mean* values of their respective anchor groups. Scans frequently have values above and below those means.

Multiple choice poll

HAI Quiz 2026 (3/30)

1 1 1

In session 1, which of Renaud's fruits was most dodgy?

Banana🍌

Pineapple🍍

Coconuts🥥

Peach🍑

Eggplant🍆

Multiple choice poll

HAI Quiz 2026 (3/30)

1 1 1

In session 1, which of Renaud's fruits was most dodgy?

Banana🍌

3 %

Pineapple🍍

2 %

Coconuts🥥

88 %

Peach🍑

0 %

Eggplant🍆

7 %

In session 1, Renaud La Joie presented results from de-identified ADNI sites denoted by fruits, and some had "dodgy" scans. It was a highly memorable part of the session.

HAI Quiz 2026 (4/30)

1 1 0

Which is the earliest name for Flortaucipir:

[18F] AV-1451

[18F] T-807

[18F] AV-45

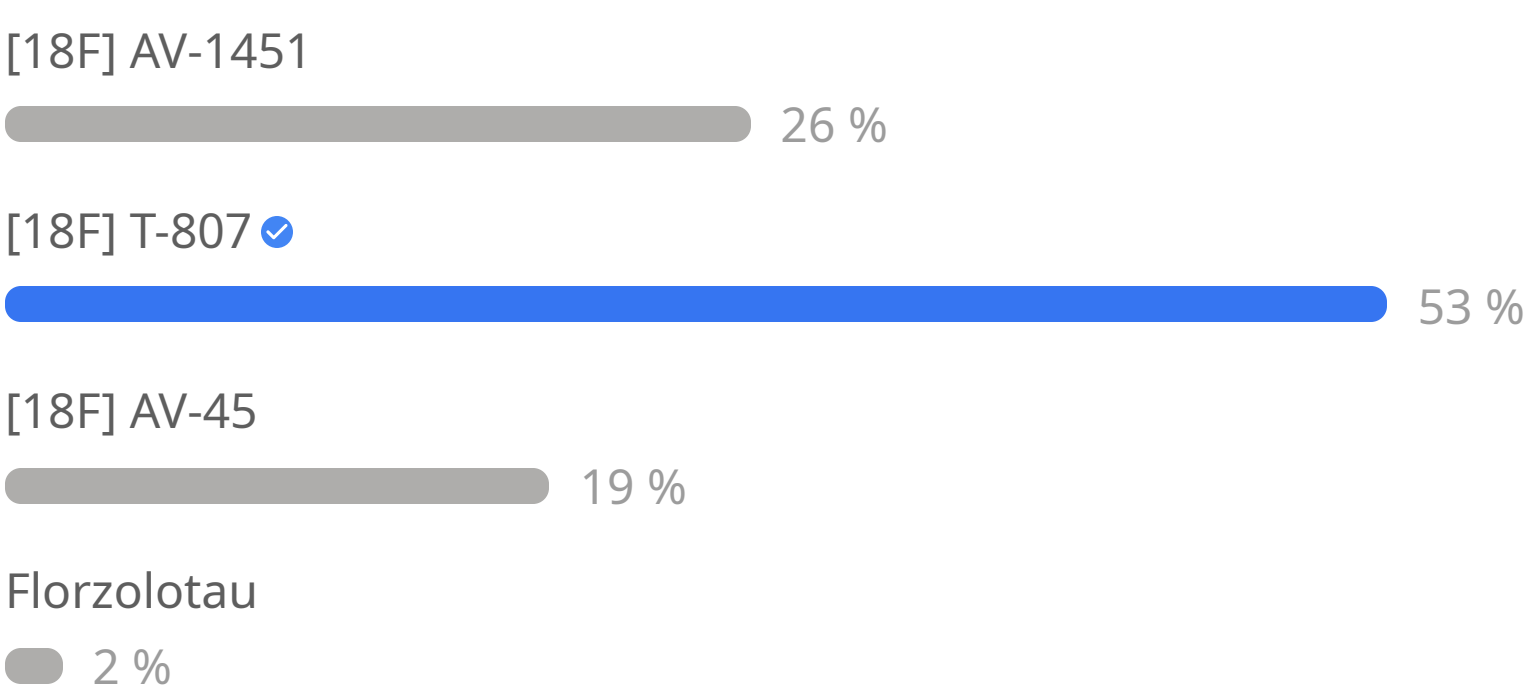
Florzolotau

Multiple choice poll

HAI Quiz 2026 (4/30)

1 1 0

Which is the earliest name for Flortaucipir:



Multiple choice poll

HAI Quiz 2026 (5/30)

1 1 4

CSF or Plasma p-tau217 is most correlated with:

Tau PET

Amyloid PET

Neurodegeneration

Multiple choice poll

HAI Quiz 2026 (5/30)

1 1 4

CSF or Plasma p-tau217 is most correlated with:

Retrospective:
This can vary depending on the cohort, but p-tau 217 is used primarily as a marker of amyloid more than tau.

HAI Quiz 2026 (6/30)

1 1 2

From session 2, among tau PET harmonization schemes:

CenTauR is linear and Unitau is nonlinear

CenTauR is nonlinear and Unitau is linear

Both schemes are linear

Both schemes are nonlinear

Multiple choice poll

HAI Quiz 2026 (6/30)

1 1 2

From session 2, among tau PET harmonization schemes:

CenTauR is linear and Unitau is nonlinear ✓

58 %

CenTauR is nonlinear and Unitau is linear

21 %

Both schemes are linear

8 %

Both schemes are nonlinear

13 %

Multiple choice poll

HAI Quiz 2026 (7/30)

0 8 8

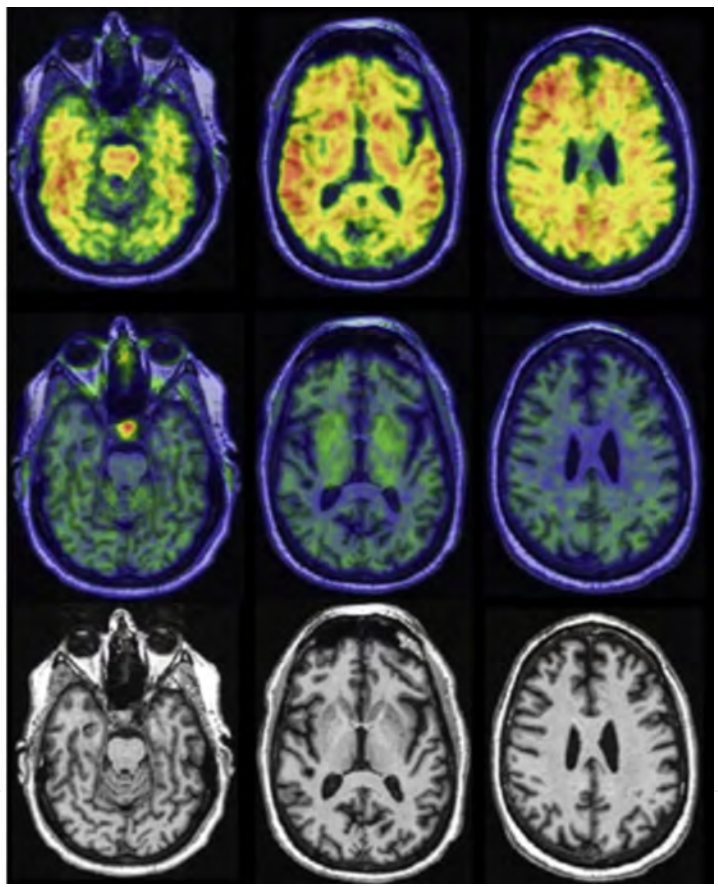
Which ATN stage is shown here?

A-T-(N)-

A+T-(N)-

A+T+(N)-

A+T+(N)+



Multiple choice poll

HAI Quiz 2026 (7/30)

0 8 8

Which ATN stage is shown here?

A-T-(N)-

6 %

A+T-(N)- ✓

76 %

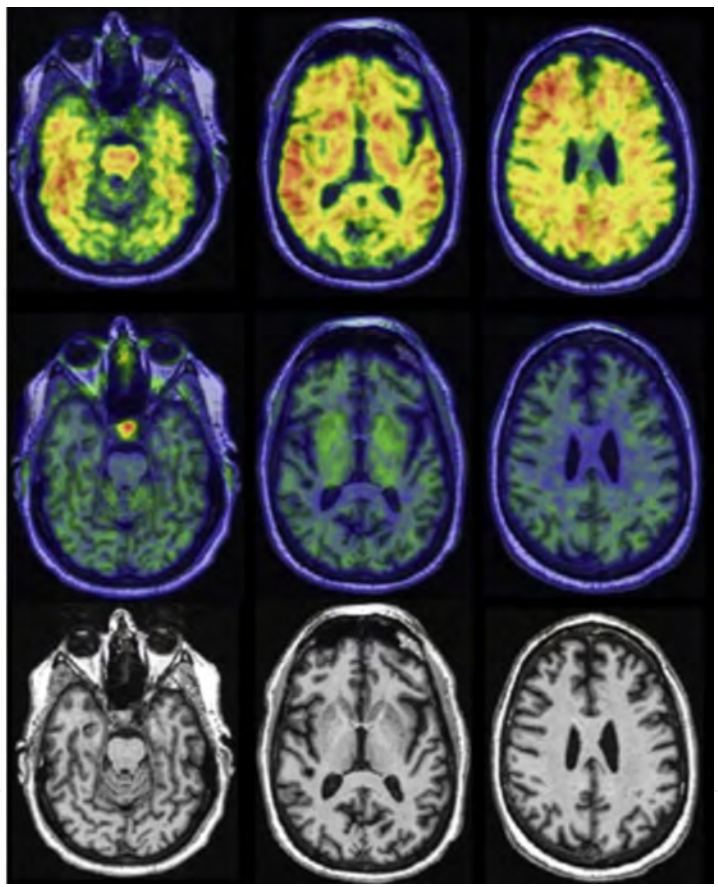
A+T+(N)-

9 %

A+T+(N)+

9 %

Image Source



Multiple choice poll

HAI Quiz 2026 (8/30)

1 1 4

Which is not a Tau PET tracer:

AV-1451

NAV4694

MK-6240

GTP-1

PI-2620

RO-948

Multiple choice poll

HAI Quiz 2026 (8/30)

1 1 4

Which is not a Tau PET tracer:

AV-1451

3 %

NAV4694

68 %

MK-6240

0 %

GTP-1

22 %

PI-2620

3 %

RO-948

4 %

Multiple choice poll

HAI Quiz 2026 (9/30)

1 0 0

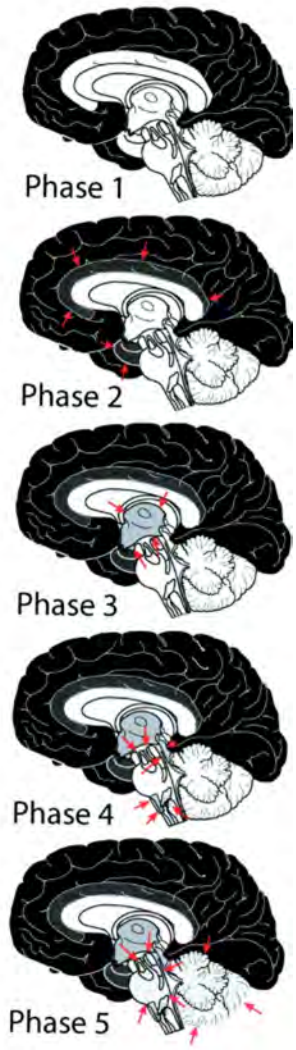
This figure depicts:

Braak staging

ATN Staging

Jack curves

Thal staging



Multiple choice poll

HAI Quiz 2026 (9/30)

1 0 0

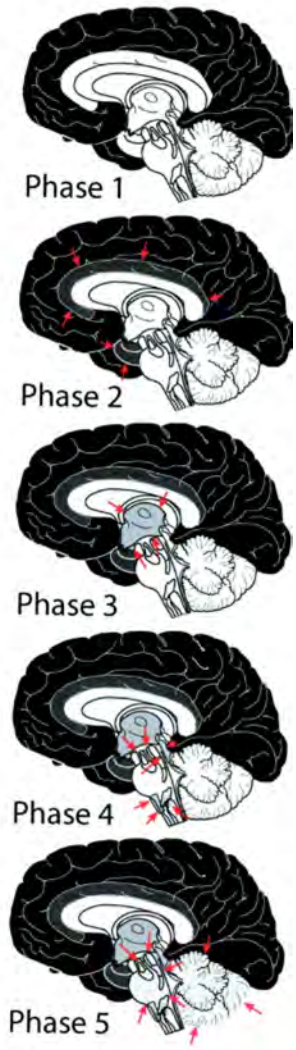
This figure depicts:

Braak staging
16 %

ATN Staging
3 %

Jack curves
1 %

Thal staging
80 %



Note: Dr. Thal was an HAI keynote speaker on this day, showing these images
Image source: https://www.neurology.org/doi/full/10.1212/WNL.58.12.1791

HAI Quiz 2026 (10/30)

107

Alois Alzheimer wrote his doctoral thesis on:

Auguste Deter

The structure of amyloid plaques

Epilepsy

Earwax

Multiple choice poll

HAI Quiz 2026 (10/30)

107

Alois Alzheimer wrote his doctoral thesis on:

Source: https://pmc.ncbi.nlm.nih.gov/articles/PMC8095522/

This was the "hardest" question of the quiz, with only 3 players answering correctly.

Multiple choice poll

HAI Quiz 2026 (11/30)

115

In the Alz. Assoc. AD criteria, FDG PET is a marker of:

Amyloid

Tau

Neurodegeneration

Vascular disease

Multiple choice poll

HAI Quiz 2026 (11/30)

115

In the Alz. Assoc. AD criteria, FDG PET is a marker of:

Amyloid

3 %

Tau

3 %

Neurodegeneration

83 %

Vascular disease

10 %

Multiple choice poll

HAI Quiz 2026 (12/30)

117

ARIA stands for:

Alzheimer's-Related Imaging Anomaly

Amyloid-Related Imaging Abnormality

Amyloid-Related Inflammation at Autopsy

Alzheimer's-Related Inflammation Abnormality

Multiple choice poll

HAI Quiz 2026 (12/30)

1 1 7

ARIA stands for:

Alzheimer's-Related Imaging Anomaly

1 %

Amyloid-Related Imaging Abnormality ✓

96 %

Amyloid-Related Inflammation at Autopsy

1 %

Alzheimer's-Related Inflammation Abnormality

3 %

Retrospective: This was the "easiest" question of the quiz, with 96% correct.

Multiple choice poll

HAI Quiz 2026 (13/30)

1 1 5

Which is not a stage of tau tangles?

pre-tangles

young tangles 👶

mature tangles 👴

ghost tangles 👻

Multiple choice poll

HAI Quiz 2026 (13/30)

1 1 5

Which is not a stage of tau tangles?

pre-tangles

2 %

young tangles 👶

85 %

mature tangles 👴

2 %

ghost tangles 👻

11 %

Multiple choice poll

HAI Quiz 2026 (14/30)

1 1 0

Which is a common acquisition time window for PIB PET:

50-70 minutes post-injection

80-120 minutes post-injection

60-90 minutes post-injection

70-90 minutes post-injection

Multiple choice poll

HAI Quiz 2026 (14/30)

1 1 0

Which is a common acquisition time window for PIB PET:

50-70 minutes post-injection ✓

61 %

80-120 minutes post-injection

4 %

60-90 minutes post-injection

26 %

70-90 minutes post-injection

9 %

Multiple choice poll

HAI Quiz 2026 (15/30)

1 0 7

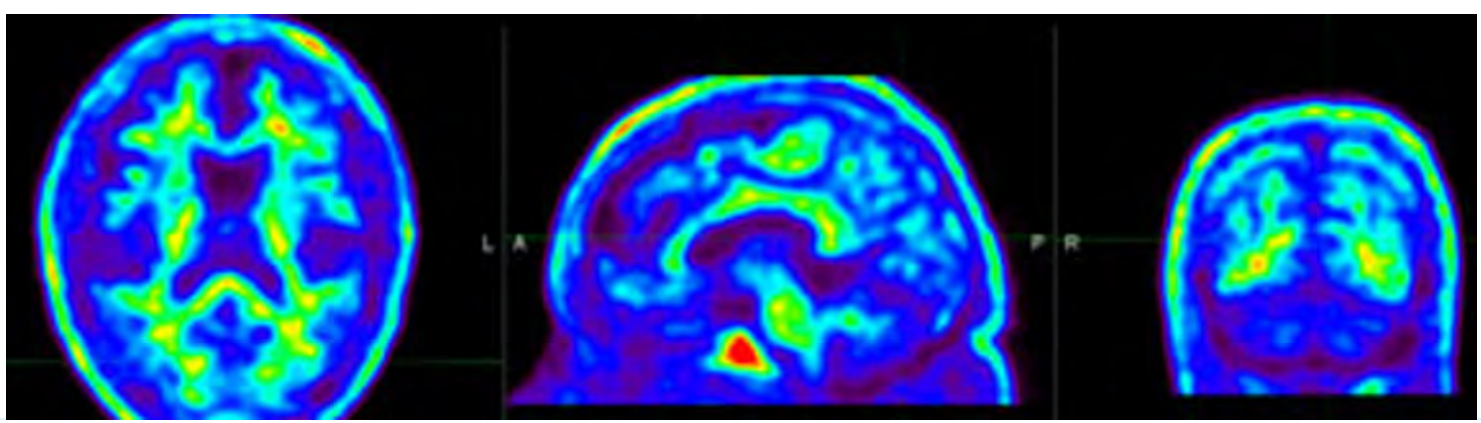
This amyloid PET scan should be read as:

Positive

Negative

unreadable: corrupted by motion

A mislabeled tau PET scan



Multiple choice poll

HAI Quiz 2026 (15/30)

1 0 7

This amyloid PET scan should be read as:

Positive

8 %

Negative

72 %

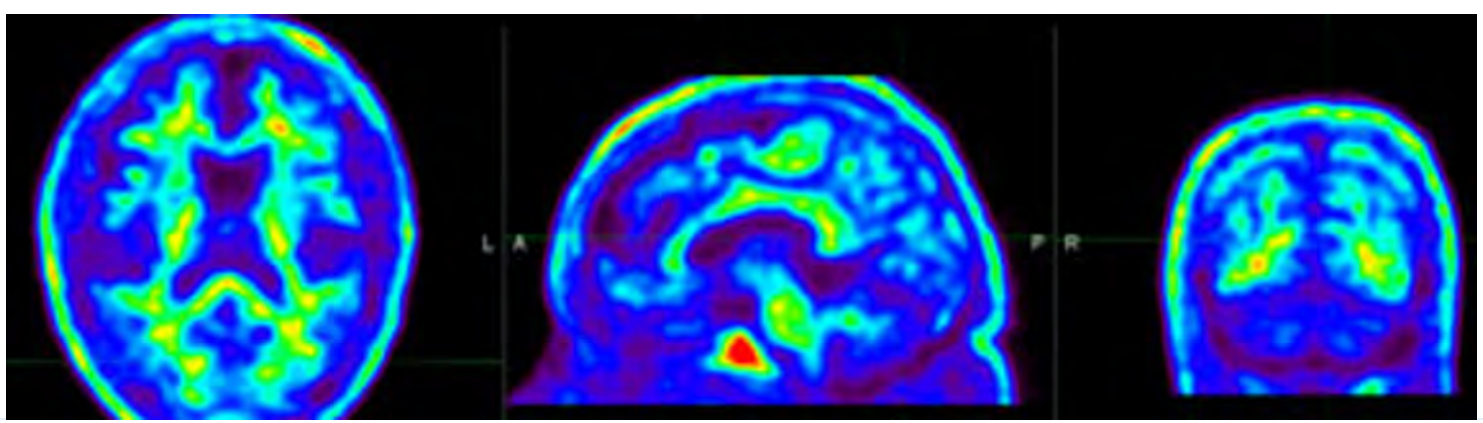
unreadable: corrupted by motion

10 %

A mislabeled tau PET scan

9 %

Image Source



HAI Quiz 2026 (16/30)

0 9 0

Which is a common region of off-target binding for MK-6240?

Basal ganglia

Mengines

Choroid plexus

White matter

Multiple choice poll

HAI Quiz 2026 (16/30)

0 9 0

Which is a common region of off-target binding for MK-6240?

Basal ganglia

6 %

Mengines

68 %

Choroid plexus

21 %

White matter

6 %

Multiple choice poll

HAI Quiz 2026 (17/30)

0 9 1

Which is a common region of off-target binding for Flortaucipir?

meninges

cerebellum

supratentorial white matter

basal ganglia

Multiple choice poll

HAI Quiz 2026 (17/30)

0 9 1

Which is a common region of off-target binding for Flortaucipir?

meninges

10 %

cerebellum

4 %

supratentorial white matter

13 %

basal ganglia

73 %

Multiple choice poll

HAI Quiz 2026 (18/30)

075

Which protein has been the scourge of all tau and a-syn tracers, most often blamed for off-target binding?

TSPO

MAO-A

MAO-B

TDP-43

NfL

Multiple choice poll

HAI Quiz 2026 (18/30)

0 7 5

Which protein has been the scourge of all tau and a-syn tracers, most often blamed for off-target binding?

Multiple choice poll

HAI Quiz 2026 (19/30)

0 9 5

Plasma GFAP is used as a measure of:

Neuroinflammation

Tau

Neurodegeneration

Amyloid

Multiple choice poll

HAI Quiz 2026 (19/30)

0 9 5

Plasma GFAP is used as a measure of:

Neuroinflammation ✓

93 %

Tau

1 %

Neurodegeneration

6 %

Amyloid

0 %

HAI Quiz 2026 (20/30)

0 6 9

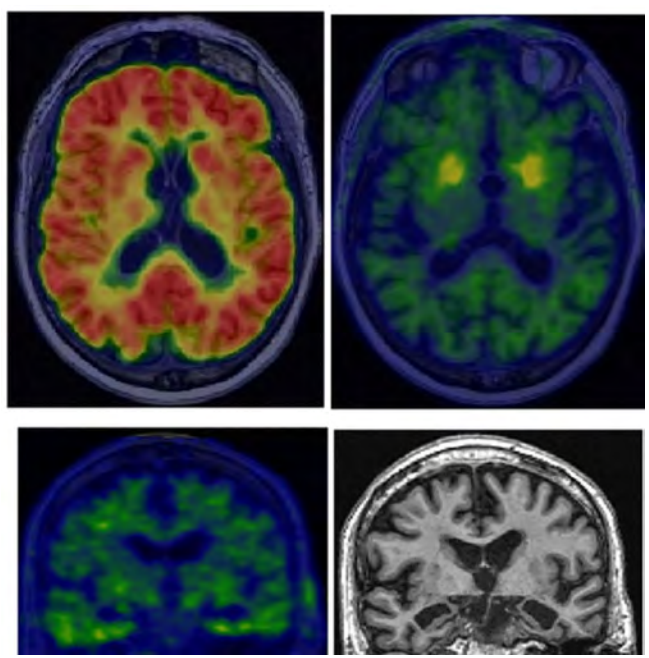
89M with progressive amnestic dementia. Most likely DX?

AD

TDP43/LATE

Vascular dementia

DLB



Multiple choice poll

HAI Quiz 2026 (20/30)

0 6 9

89M with progressive amnestic dementia. Most likely DX?

AD

41 %

TDP43/LATE

49 %

Vascular dementia

6 %

DLB

4 %

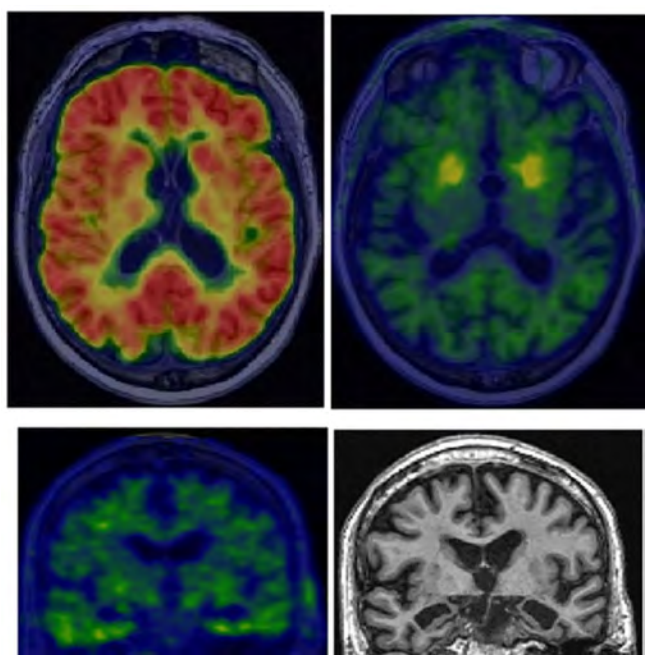


Image source

Retrospective:
This person has both LATE and AD pathology, but their symptoms can be attributed primarily to TDP43/LATE.
I should have worded that more clearly.

HAI Quiz 2026 (21/30)

0 7 6

This meeting has largely agreed that PET-based Braak ROIs:

Accurately reflect Braak staging at autopsy

Are consistently more sensitive and higher than Braak staging at autopsy

Are consistently less sensitive and lower than Braak staging at autopsy

Multiple choice poll

HAI Quiz 2026 (21/30)

0 7 6

This meeting has largely agreed that PET-based Braak ROIs:

Accurately reflect Braak staging at autopsy

8 %

Are consistently more sensitive and higher than Braak staging at autopsy

5 %

Are consistently less sensitive and lower than Braak staging at autopsy

87 %

HAI Quiz 2026 (22/30)

0 5 6

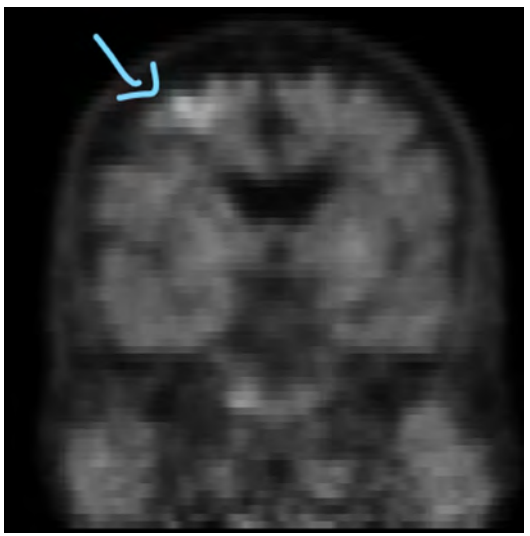
This focal FTP signal surrounding a hypointense area was caused by:

Off-target binding related to TDP-43

On-target binding to AD-related tau

Off-target binding related to a cortical infarct

Motion / attenuation correction artifact



Multiple choice poll

HAI Quiz 2026 (22/30)

0 5 6

This focal FTP signal surrounding a hypointense area was caused by:

Off-target binding related to TDP-43

5 %

On-target binding to AD-related tau

9 %

Off-target binding related to a cortical infarct

79 %

Motion / attenuation correction artifact

7 %

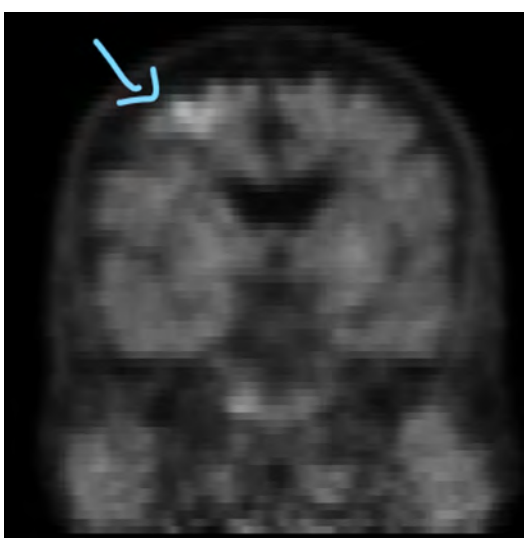


Image from Mayo Clinic

Multiple choice poll

HAI Quiz 2026 (23/30)

0 8 5

In May 2025, the FDA approved the first plasma marker for detection of amyloid plaques, based on:

Aβ42/40

pTau217

pTau217/Aβ42

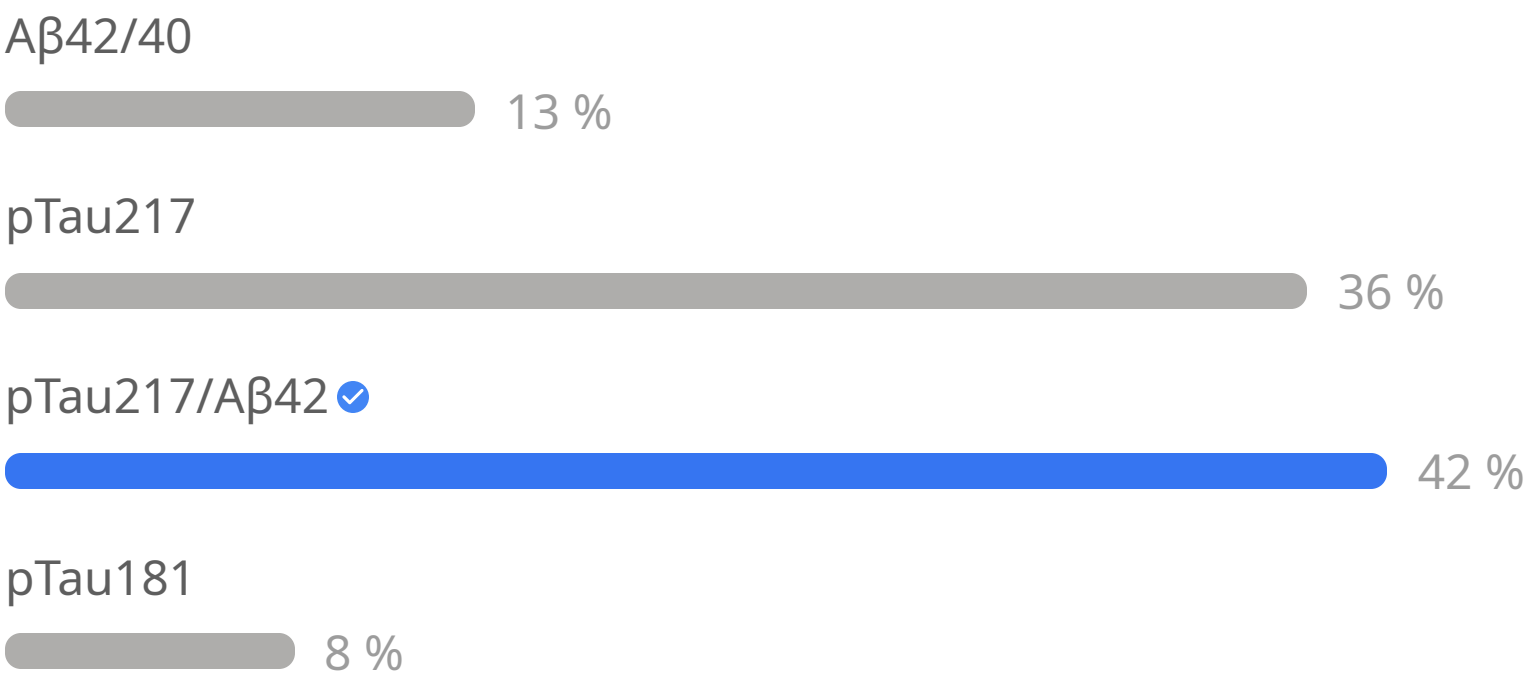
pTau181

Multiple choice poll

HAI Quiz 2026 (23/30)

0 8 5

In May 2025, the FDA approved the first plasma marker for detection of amyloid plaques, based on:



This was the second "hardest" question of the quiz, referring to the Fujirebio Lumipulse test
Source:
https://www.fda.gov/news-events/press-announcements/fda-clears-first-blood-test-used-diagnosing-alzheimers-disease

Multiple choice poll

HAI Quiz 2026 (24/30)

0 8 1

Approved anti-amyloid therapeutics typically have what effect on MRI gray matter volume and cortical thickness?

Increase

Decrease

No change

Increase gray matter volume but reduce cortical thickness

Multiple choice poll

HAI Quiz 2026 (24/30)

0 8 1

Approved anti-amyloid therapeutics typically have what effect on MRI gray matter volume and cortical thickness?

Increase

15 %

Decrease ✓

69 %

No change

6 %

Increase gray matter volume but reduce cortical thickness

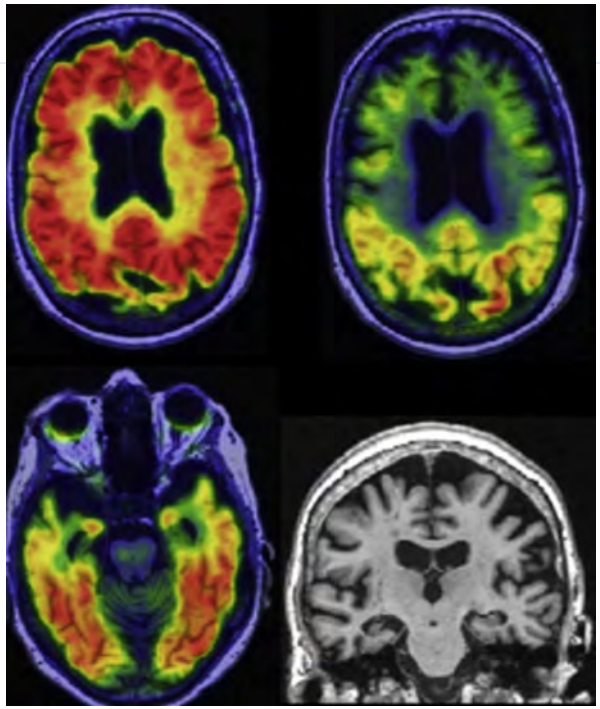
10 %

Multiple choice poll

HAI Quiz 2026 (25/30)

0 8 5

Which ATN stage is shown here?



A-T-(N)-

A+T-(N)-

A+T+(N)-

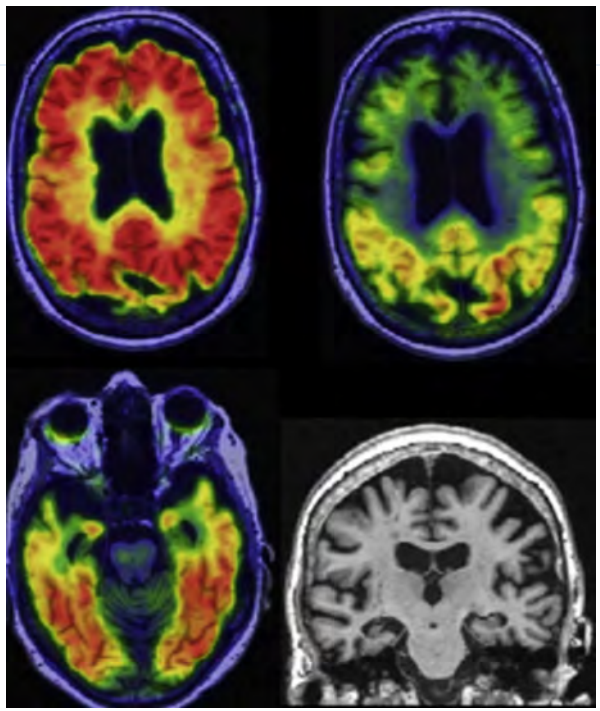
A+T+(N)+

Multiple choice poll

HAI Quiz 2026 (25/30)

0 8 5

Which ATN stage is shown here?



A-T-(N)-

0 %

A+T-(N)-

1 %

A+T+(N)-

21 %

A+T+(N)+

78 %

Source:
https://alz-journals.onlinelibrary.wiley.com/doi/full/10.1016/j.jalz.2018.02.018

HAI Quiz 2026 (26/30)

0 7 8

The primary purpose of the CT scan in PET-CT is to help correct for:

Motion

Signal attenuation

Partial volume effects

Head size / TIV

Multiple choice poll

HAI Quiz 2026 (26/30)

0 7 8

The primary purpose of the CT scan in PET-CT is to help correct for:

Motion

6 %

Signal attenuation

67 %

Partial volume effects

15 %

Head size / TIV

12 %

HAI Quiz 2026 (27/30)

0 8 0

Autoradiography is a process to measure:

spatial autocorrelation of PET scans

correlation over time in dynamic scans

tracer binding in tissue samples

point spread function / scanner resolution

Multiple choice poll

HAI Quiz 2026 (27/30)

0 8 0

Autoradiography is a process to measure:

spatial autocorrelation of PET scans

6 %

correlation over time in dynamic scans

3 %

tracer binding in tissue samples

89 %

point spread function / scanner resolution

3 %

Multiple choice poll

HAI Quiz 2026 (28/30)

0 7 3

In the keynote, which network architecture was considered the most recent and most advanced?

GAN

LAN

Transformer

U-Net

CNN

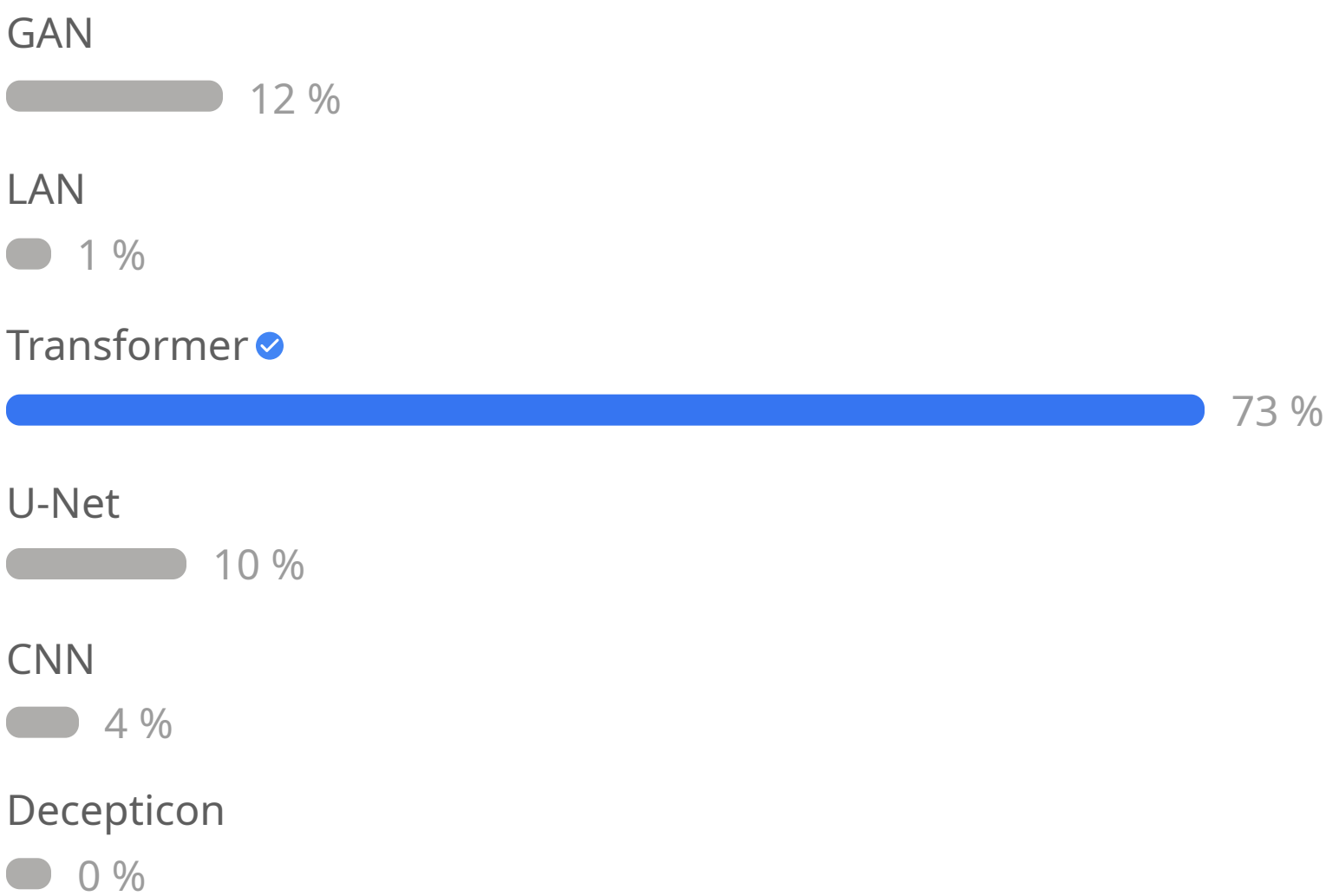
Decepticon

Multiple choice poll

HAI Quiz 2026 (28/30)

0 7 3

In the keynote, which network architecture was considered the most recent and most advanced?



HAI Quiz 2026 (29/30)

0 6 2

An abnormal CSF or plasma AB42/40 level associated with amyloid plaques is:

abnormally high

abnormally low

in a mid-range, neither abnormally high or low

AB42/40 is actually a nonspecific marker of neurodegeneration

Multiple choice poll

HAI Quiz 2026 (29/30)

0 6 2

An abnormal CSF or plasma AB42/40 level associated with amyloid plaques is:

abnormally high

18 %

abnormally low

77 %

in a mid-range, neither abnormally high or low

3 %

AB42/40 is actually a nonspecific marker of neurodegeneration

2 %

HAI Quiz 2026 (30/30)

0 4 7

Which is true of Flortaucipir in-vivo in non-AD pathologies, at the group level

Binds strongly in GM to all tauopathies

Weakly elevated in GM for non-AD tauopathies only

Weakly elevated in juxtacortical WM for both 4-R tau and TDP-43

Weakly elevated in juxtacortical WM for 4-R tau but not TDP-43

Multiple choice poll

HAI Quiz 2026 (30/30)

0 4 7

Which is true of Flortaucipir in-vivo in non-AD pathologies, at the group level

Binds strongly in GM to all tauopathies

9 %

Weakly elevated in GM for non-AD tauopathies only

38 %

Weakly elevated in juxtacortical WM for both 4-R tau and TDP-43

45 %

Weakly elevated in juxtacortical WM for 4-R tau but not TDP-43

9 %

Retrospective:
I did not give nearly enough time for this question, and I was still reading it when the time ended.

Top 25 Players

User Name	Rank	Score	Max Score	Milliseconds
Dexter Jagust (Renaud La Joie)	1	27	30	172072
Tobey Betthauser	2	27	30	215059
Konstantinos Chiotis	3	27	30	265058
Petrice	4	26	30	265949
Seb Roemer	5	26	30	305265
Chris Rowe	6	26	30	349886
P Lao	7	25	30	257717
Quentin Finn	8	25	30	286278
Jessie	9	25	30	303333
Nico Franzmeier	10	24	30	204766
Gemma Salvadó	11	24	30	278354
Christina Moloney	12	24	30	318790
Arnaud Charil	13	23	30	234338
Praveen Honhar	14	23	30	240640
Heidi	15	23	30	258727
Melissa Murray	16	23	30	269963
Mike Devous's Spirit	17	23	30	281280
Alexa Pichet Binette	18	23	30	298484
Blond Devil	19	23	30	338729
Karine Provost	20	22	30	221132
Samuel Lockhart	21	22	30	224259
David Soleimani-Meigooni	22	22	30	281356
Ganna Blazhenets	23	21	30	230849
Michelle Farrell	24	21	30	267757
Cashew M. Flores	25	21	30	286413