UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

FORM	8-K
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CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934 Date of Report (Date of earliest event reported): January 8, 2021

Athira Pharma, Inc.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation) 001-39503

(Commission File Number) 45-3368487 (IRS Employer Identification No.)

18706 North Creek Parkway, Suite 104 Bothell, WA 98011

(Address of principal executive offices, including zip code)

(206) 221-8112

(Registrant's telephone number, including area code)

4000 Mason Road, Suite 300 Seattle, WA 98195

(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the

following provisions (see General Instruction A.2. below):	•	
☐ Written communications pursuant to Rule 425 under the Secu	urities Act (17 CFR 230.425)	
□ Soliciting material pursuant to Rule 14a-12 under the Exchan	ige Act (17 CFR 240.14a-12)	
☐ Pre-commencement communications pursuant to Rule 14d-20	(b) under the Exchange Act (17 CFR 24	40.14d-2(b))
☐ Pre-commencement communications pursuant to Rule 13e-4((c) under the Exchange Act (17 CFR 24	40.13e-4(c))
Securities registered pursuant to Section 12(b) of the Act:		
Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.0001 par value per share	ATHA	The Nasdaq Stock Market LLC (The Nasdaq Global Select Market)
		(The Nasaaq Global Select Market)
ndicate by check mark whether the registrant is an emerging grov	wth company as defined in Rule 405 of	the Securities Act of 1933 (§ 230.405 of this
chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§	240.12b-2 of this chapter).	
Emerging Growth Company		
f an emerging growth company, indicate by check mark if the registr inancial accounting standards provided pursuant to Section 13(a) of		ansition period for complying with any new or revise

Item 5.02 Departure of Directors or Certain Officers; Election of Directors; Appointment of Certain Officers; Compensatory Arrangements of Certain Officers.

On January 8, 2021, the compensation committee (the "Committee") of the board of directors (the "Board") of Athira Pharma, Inc. (the "Company") approved 2020 bonus payments for the Company's executive officers as set forth in the table below. The Committee approved the bonus payments in recognition of the executive team's achievements in 2020, including the advancement of the Company's product candidates and completion of certain financing and other corporate objectives.

Name	Title	202	0 Bonus
Dr. Leen Kawas	President and Chief Executive Officer	\$	357,000
Ms. Glenna Mileson	Chief Financial Officer	\$	215,600
Dr. Hans Moebius	Chief Medical Officer	\$	190,120
Dr. Mark Litton	Chief Operating Officer	\$	172,000
Dr. Kevin Church	Vice President of Discovery	\$	57,500

Item 7.01 Regulation FD Disclosure.

Commencing on or after January 11, 2021, members of the Company's management will be providing a corporate update to analysts and investors through a series of one-on-one meetings.

The information in Item 7.01 of this Current Report on Form 8-K, including the slides to be used in such one-on-one meetings attached as Exhibit 99.1 hereto, are being furnished and not filed pursuant to Item 7.01 of Form 8-K. Such information shall not be deemed to be "filed" for purposes of Section 18 of the Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section, and shall not be deemed to be incorporated by reference into any of the Company's filings under the Securities Act of 1933, as amended, or the Exchange Act whether made before or after the date hereof and regardless of any general incorporation language in such filings, except to the extent expressly set forth by specific reference in such a filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit No.	Description
99.1	Athira Pharma, Inc. Presentation Slides

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Athira Pharma, Inc.

Date: January 11, 2021 By: /s/ Leen Kawas

Leen Kawas

President and Chief Executive Officer





Restoring Lives by Advancing Bold Therapies

Corporate Presentation, January 2021

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Disclaimer



This presentation and the accompanying oral commentary contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. These forward-looking statements are based on our management's beliefs and assumptions and on information currently evaluate to our management. Forward-looking statements are inherently subject to risks and uncertainties, some of which cannot be predicted or quantified. In some cases, you can identify forward-looking statements by terminology such as "may," "will," "sould," "could," "expect," "plan," anticipate," "believe," "estimate," "predict," intend," "potential," "would," "cordinue," "angoing" or the negative of these terms or other comparable terminology. Forward-looking statements include all statements other than statements of historical fact contained in this presentation, including information concerning our future financial performance, business plans and objectives, timing and success of our planned development activities, our ability to obtain regulatory approval, the potential therepseutic benefits and connomic value of our product candidates, potential growth opportunities, competitive position, industry environment and potential market opportunities, and the impact of the COVID-19 pandemic on our business and operations.

Forward-looking statements are subject to known and unknown risks, uncertainties, assumptions and other factors. It is not possible for our management to predict all risks, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements we may make. These factors, together with those first or exception of actions of factors, and exception of factors and exception of factors, and exception of factors are contained in greater detail in our filings with the Securities and Exchange Commission ("SEC") may cause our actual results, performance or achievements to differ materially and adversely from those anticipated or implied by our forward-looking statements.

In addition, statements that "we believe" and similar statements reflect our beliefs and opinions on the relevant subject. These statements are based upon information available to us as of the date of this presentation, and although we believe such information forms a reasonable basis for such statements, such information may be limited or incomplete, and our statements should not be read to indicate that we have conducted a thorough inquiry into, or review of, all potentially available relevant information. These statements are inherently uncertain and readers are cautioned not to unduly rely upon these statements. Furthermore, if our forward-looking statements prove to be inaccurate, the inaccuracy may be material. In light of the significant uncertainties in these forward-looking statements, you should not regard these statements as a representation or warrantly by us or any other person that we will achieve our objectives and plans in any specified time frame, or at all. We undertake no obligation to publicly update any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.

By attending or receiving this presentation you acknowledge that you will be solely responsible for your own assessment of the market and our market position and that you will conduct your own analysis and be solely responsible for forming your own view of the potential future performance of our business.

This presentation contains estimates, projections and other information concerning market, industry and other data. We obtained this data from our own internal estimates and research and from academic and industry research, publications, surveys, and studies conducted by third parties, including governmental agencies. These data involve a number of assumptions and limitations, are subject to risks and uncertainties, and are subject to change based on various factors, including those discussed in our fillings with the SEC. These and other use results to differ materially from those expressed in the estimates made by the independent parties and by us. While we believe such information is generally reliable, we have not independently verified any third-party information.

This presentation concerns drug candidates that are under clinical investigation and which have not yet been approved for marketing by the U.S. Food and Drug Administration. The drug candidates are currently limited by federal law to investigational use, and no representation is made as to their safety or effectiveness for the purposes for which they are being investigated.

We announce material information to the public through a variety of means, including flings with the SEC, press releases, public conference calls, our website (www.athira.com/), our investor relations website (investors.athira.com/), and our news site (investors.athira.com/), and cur news site (investors.athira.com/). We use these channels, as well as social media, including our Twitter account (genthrapharmanic), to communicate with investors and the public about Afrira, our products, and other matters. Therefore, we encourage investors, the media, and others interested in Afrira to review the information we make public in these locations, as such information could be dearned to be material information.



Pipeline focused on regeneration of neuronal damage in CNS and peripheral diseases to restore function

ATH-1017 LEAD INDICATION:

Alzheimer's disease

POTENTIAL FOLLOW-ON INDICATIONS:

Parkinson's dementia, ALS, MS, neuropathy, and neuropsychiatric (additional compounds in

Lead asset ATH-1017 in potentially pivotal Phase 2/3 clinical trial

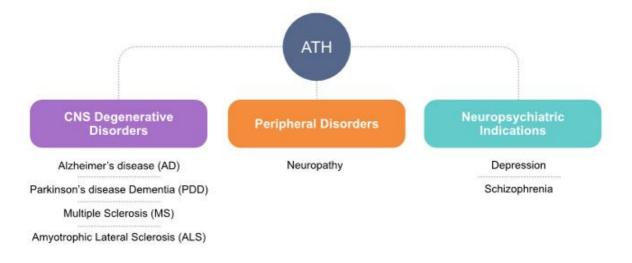
- LIFT-AD trial initiated in Sept. 2020
- ACT-AD trial initiated in Nov. 2020
- · Phase 1a/b results
 - Encouraging data in AD subjects (double blind study)
 - Rapid improvement in EEG/ERP P300 latency
 - Supports CNS penetration and target engagement
 - Generally well-tolerated

Efficient clinical development strategy

- · Cost and time efficient clinical trials
- Established regulatory pathway (4 marketed drugs for AD)
- · Designed for faster timeline for data readout

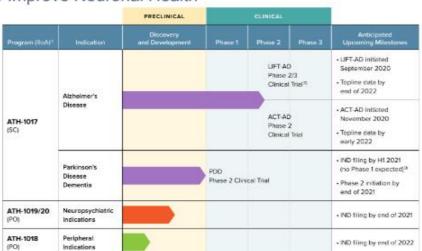
ATH Compounds Have Therapeutic Potential in a Broad Range of Clinical Applications





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Current Development Stage of ATH Compounds and Discovery Research .XALhira Programs to Improve Neuronal Health



(1) RoA: route of administration; SC: subcutaneous; PO: oral.

(2) ATH-1017 for AD is moving from Phase 1b to a Phase 2/3 clinical trial that may provide pivotal data in support of registration based on discussions with FDA.

(3) We plan to initiate a Phase 2 clinical trial in PDD based on results from Phase 1a and 1b clinical trials in AD with ATH-1017. A second IND for PDD can cross-reference the already active IND for AD. It is not required that we repeat any studies or trials that are applicable across the two indications for the second IND for PDD, including a Phase 1 clinical trial.

Athira's Target, HGF/MET, is a Vital Neuronal Growth Factor that Promotes Neuronal Health and Regeneration



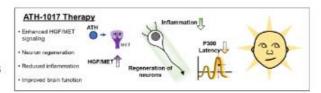


Stable expression in healthy CNS Neuronal MET expression is reduced in Alzheimer's

Beneficial impacts on multiple systems

Alzheimer's Disease

- Alleviation of Aβ-induced cognitive impairment
- · Prevention of onset of Parkinson's disease
- · Prolongs life span in a transgenic mouse model of ALS
- Improved learning and memory dysfunction of microsphere-embolized rats



"Historically termed

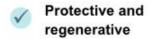
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Promoting the HGF/MET Neurotrophic System has been Shown to have Multiple Downstream Beneficial Effects



Acute and Sustained Effects on Synaptic and Network Function

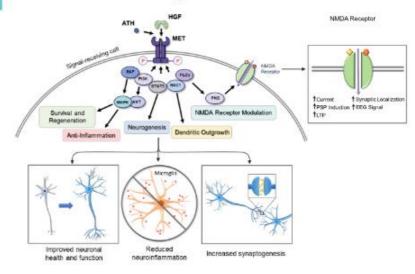
Fast-acting positive modulator



Procognitive (Symptomatic)

EEG biomarker

ATH Platform Is Designed to Enhance HGF/MET





Lead Program: ATH-1017 – Dementia

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ATH-1017 Program Summary





Initiation of LIFT-AD trial in September 2020 and ACT-AD trial in November 2020



Completed nonclinical GLP long term toxicology and safety pharmacology studies; Phase 2/3 trial initiated



In Phase 1a/b trial ATH-1017 was generally well-tolerated with no serious adverse events (SAEs)



Data showing ERP P300, a functional measure that is highly correlated with cognition, improved with treatment (p<0.05)

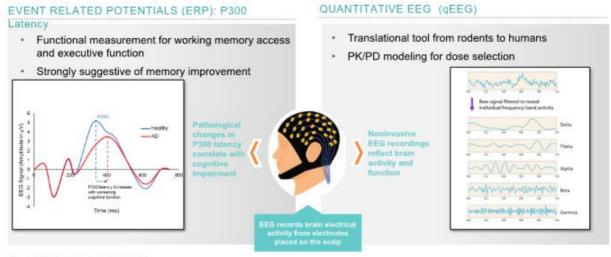


PK/PD modeling defined active dose range for potentially pivotal LIFT-AD trial and ACT-AD trial (20-90 mg, OD)

Clinical Development Plan Includes Predictive Measures of Cognitive Improvement and Translatable Tools to Guide Dose Selection

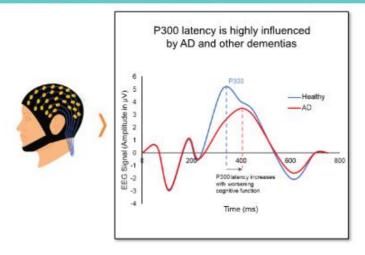


EEG measures electrical activity from firing neurons in the brain



P300 Latency as a Functional Measure of Working Memory Processing Speed that Highly Correlates with Cognition





- Recording brain activity while a subject is presented with a task reveals neural activity related to cognitive processing
- Time to peak positive wave response (following an external stimulus) is ~300 ms
- Approved therapies have demonstrated parallel improvement in P300 latency and cognition

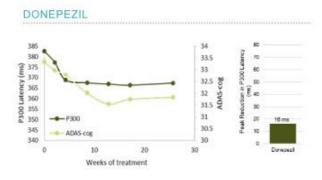
Athira utilized P300 Latency in its ATH-1017 Phase 1 clinical trial as a predictive measure of cognition

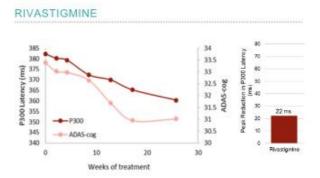
Changes in P300 Latency Correlate with Cognitive Outcomes with Treatment of Approved Therapies in AD Subjects



Previously published results support the correlation of P300 latency and cognition in AD subjects

- Donepezil and Rivastigmine
- Improvement in cognition (ADAS-cog ↓) is correlated with reduction in P300 latency





Note: Results from donepezii and rivastigmine adapted from Thumas et al., 2001.

ATH-1017 Treatment Improved P300 Latency in AD Subjects-CTAD 2019 Athira

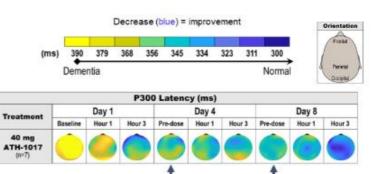


- · ATH-1017 40 mg
- · (SC, OD, 8 days, n=7)

ERP OBSERVATIONS

ERP analysis to date suggests treatment effects on P300 latency

· Gradual decrease in latency over time in the treated group (n=7)



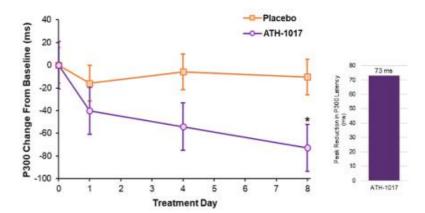
Decreased latency on pre-dose recordings (arrows) taken 24 hours after the last dose on the previous day, indicates sustained improvement

ATH-1017 Treatment Improved P300 Latency in AD Subjects-CTAD 2019 Athira



P300 Latency: AD Subject ATH-1017 Treated and AD Subject Placebo

- · Group averages of AD subjects receiving ATH-1017 (n=7) demonstrate decreased P300 over time
 - Significant change from baseline observed on Day 8
- · AD subjects receiving placebo (n=4) had no consistent change from baseline to study end



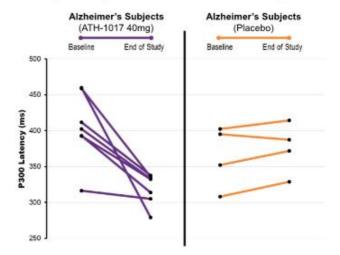
Note: P309 data from FZ, CZ, and PZ electrodes, Data plotted as mean +/- SE.. *p<0.05 with MMRM.

ATH-1017 Treatment Improved P300 Latency in AD Subjects-CTAD 2019 Athira



- · Every AD subject receiving ATH-1017 had a level of improvement in P300 latency
- · AD patients receiving placebo had no consistent response from baseline to end of study

P300 Latency: AD Subject ATH-1017 Treated and AD Subject Placebo



Note: P300 data from FZ, CZ, and PZ electrodes. 15 O Athira Pharma, Inc. All Rights Reserved.

Studies Suggest Changes in P300 Latency Have Been Predictive of Changes in Cognition



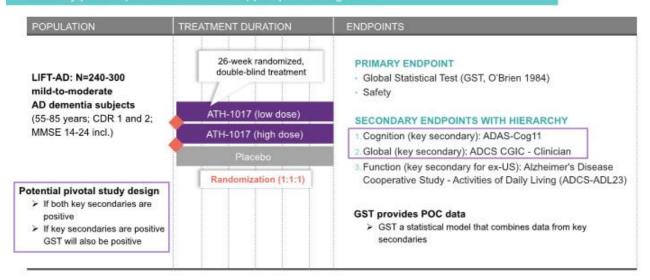
Previously published results support the correlation of P300 latency and cognition in AD subjects

Treatment	nent P300 Latency Change in Population Cognitive Effect P300 Latency Population Effect		Cognitive Effect	Summary				
Donepezil	Improved	(16) ms	AD	Improved	P300 latency and cognition both improved in mild-to-moderate AD, though improvements were modest.			
Rivastigmine	Improved	(22) ms	AD	Improved	P300 latency and cognition both improved in mild-to-moderate AD, though improvements were modest.			
Memantine	Improved	(15) ms	AD	Improved	P300 latency and cognition both improved in moderate to severe AD, though improvements were modest.			
Scopolamine	Worsened	50 ms	Healthy	Worsened	Scopolamine offers a counter example, P300 latency increases while cognitive performance is reduced.			

Note: Results from done pezil and rivestigmine adapted from Thomas of al., 2001; results from memaritine adapted from Salfach et al., 2011; and results from scopolamine adapted from Polifer et al., 2000.



Trial may provide pivotal evidence to support product registration

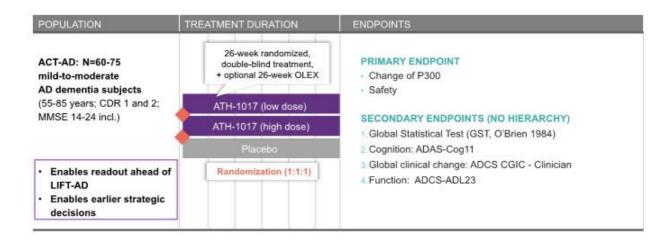


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ACt^{AD} ATH-1017 Phase 2 Trial for AD Initiated in Nov-2020





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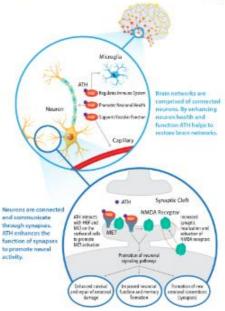
ATH-1019/20 - Neuropsychiatric Indications

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ATH Small Molecules Enhance HGF/MET Activity



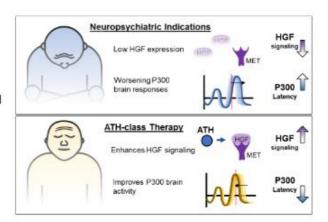
- · ATH small molecules promote HGF/MET, which has the potential to promote multiple beneficial effects and improve neuronal function
- Activity can apply to promote nerve cell health in several indications
- Improvement of neuronal health and function may be relevant to several neuropsychiatric indications



Rationale for Targeting HGF/MET for Neuropsychiatric Indications



- Preclinical studies demonstrate enhancing HGF/MET activity has anti-depressant and anxiolytic effects in rodents
 - Isogawa et al., 2005; Wakatsuki et al., 2007
- Clinical trials show an association between reduced HGF/MET expression levels and depression/anxiety
 - Russo, 2010; Ciuculete et al., 2019; Ramsey et al., 2016
- Neuropsychiatric patients often exhibit worsened P300 latency, a marker of impaired cognitive processing
- ATH activity has the potential to rescue HGF/MET signaling, promote neuronal health and function, and restore P300 latency and cognitive function



Novel ATH Potential Candidates

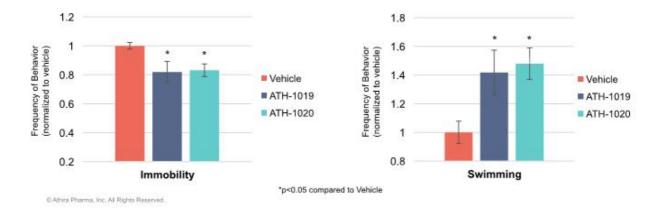


- ATH-1019 and ATH-1020 are in development as potential candidates for neuropsychiatric indications, including depression, anxiety, and potentially schizophrenia
 - Activate HGF/MET
 - Orally bioavailable
 - Distribute to the brain
 - Neuroactive in animal models
 - Procognitive effects in scopolamine-induced amnesia model of dementia in rats
 - Anti-depressant activity in forced swim test in rats
 - Selection of lead candidate and specific indication(s) following further development

ATH-1019 and ATH-1020 Demonstrated Anti-Depressant Effects in Animal Models



- Treatment with ATH-1019 and ATH-1020 led to significant improvement from depressive -like behaviors in the rat forced swim model of depression
 - ATH-1019 and ATH-1020 were delivered orally



ATH-1019/20 Potential Product Profile







INDICATIONS

Neuropsychiatric disorders





DELIVERY MODE

Oral





MOA

Small molecule agonist of HGF/MET

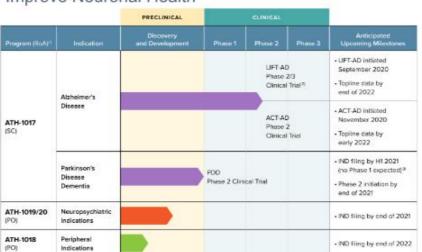




REGIMEN

Targeting once per day

Current Development Stage of ATH Compounds and Discovery Research .XALhira Programs to Improve Neuronal Health



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Thank you!

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Appendix

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ATH-1017 Phase 1a/b Trial Overview



Phase 1 - Active INC

- Randomized, placebo-controlled, double-blinded, single-ascending dose (Part A) and multiple-ascending dose (Part B) (SC, OD)
- Safety, pharmacokinetics, and pharmacodynamics measures, i.e., qEEG/ERP

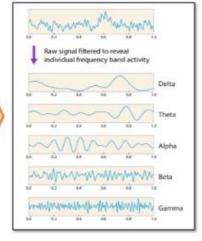
				Treatment Day								
STUDY	POPULATION	DOSE	D1	D2	D3	D4	D5	D6	D7	D8	D9	STATUS
Part A: single-dose SAD	48 healthy young (6:2 active vs. placebo)	2-90 mg (6 doses)	0000									Complete
Part B: multiple-dose (9 days)	24 healthy elderly (6:2)	20 mg 40 mg 60 mg	0 0 0	0 0 0	000	0	0	0 0 0	0 0 0	0	0 0	Complete
MAD	5 healthy elderly (4:1)	80 mg	•	•	•	•	•	•	•	•	•	
	11 AD subjects (7:4), 5 male, 6 female; baseline mini mental scale examination = 18.7 ±6.4	40 mg	•	•	•	•	•	•	•	•	•	Complete

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EEG as a Translatable Measure of Functional Recovery in the Brain







- . EEG captures electrical activity in the brain and displays these electrical impulses as waves
- Gamma waves are the faster, higher frequency waves associated with learning, memory and higher cognitive functions
- Gamma power is reduced in AD patients
- A shift from low to high frequency bands is indicative of network recovery

Athira utilized qEEG in its ATH-1017 Phase 1 clinical trial as a measure of CNS penetration and target engagement

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ATH-1017 Increased the Levels of the High Frequency Gamma Power Across all Treated Cohorts- CTAD 2019



Phase 1a

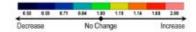
ATH-1017: single dose EEG, 1-hour post-dose

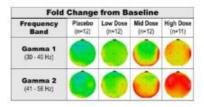
- Placebo, n=12
- Low doses pooled (2 & 6 mg), n=12
- Mid doses pooled (20 & 40 mg), n=12
- High doses pooled (60 & 90 mg), n=11
- Gamma † at 20, 40, 60, 90 mg (>50%)
 - Dose-dependent increase
 - Statistically significant at 90 mg (n=6)
- · Indicate CNS penetration and target engagement

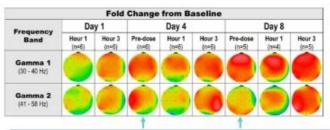
Phase 1b

Phase 1b qEEG in Healthy Elderly and AD Subjects

 Increased gamma power observed in healthy elderly and AD subjects treated with ATH-1017 in the MAD study







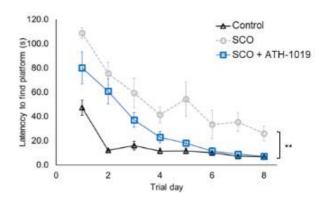
Increased gamma power on pre-dose recordings (arrows) taken 24 hours after the last dose on the previous day, indicates sustained improvement

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ATH-1019 Demonstrated Procognitive Activity in Animal Models



- · Oral delivery of ATH-1019 significantly improved performance of rats in the Morris water maze test of spatial memory
 - Scopolamine (SCO) treatment blocks spatial memory formation
 - ATH-1019 treatment reversed the effects of scopolamine, indicating procognitive activity



**p<0.01 SCO + ATH-1019 compared to SCO alone