## Design and Rationale of cAPPricorn-1, a Phase 2 Study of Mivelsiran in Patients with Cerebral Amyloid Angiopathy

**Jin-Moo Lee**<sup>1</sup>, Ellis S. van Etten<sup>2</sup>, Matthijs J. P. van Osch<sup>2</sup>, Catharina J. M. Klijn<sup>3</sup>, Alexandre Sostelly<sup>4</sup>, Sasikiran Goteti<sup>4</sup>, Farshid Sepehrband<sup>5</sup>, Andreja Avbersek<sup>5</sup>, Robert W. Deering<sup>4</sup>, Neal S. Parikh<sup>4</sup>, Steven M. Greenberg<sup>6</sup>

<sup>1</sup>Washington University School of Medicine, St. Louis, MO, USA; <sup>2</sup>Leiden University Medical Center, Leiden, Netherlands; <sup>3</sup>Department of Neurology, Donders Institute for Brain, Cognition, and Behaviour, Radboud University Medical Centre, Nijmegen, Netherlands; <sup>4</sup>Alnylam Pharmaceuticals, Inc., Cambridge, MA, USA; <sup>5</sup>Regeneron Pharmaceuticals, Inc., Tarrytown, NY, USA; <sup>6</sup>Harvard Medical School, Massachusetts General Hospital, Boston, MA, USA

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### **Disclosures**

#### Presenter: Jin-Moo Lee, MD, PhD

Conflict	Disclosure
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#### **Mivelsiran:**

Mivelsiran is an investigational drug being studied for the treatment of cerebral amyloid angiopathy and Alzheimer's disease. Mivelsiran is not approved by any health authority, and the safety and efficacy of mivelsiran have not been established.

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## CAA and AD are Distinct but Related Diseases Linked by $A\beta$

## In CAA, Progressive Aβ Accumulation Leads to Vascular Disease, Debilitating Strokes, and Cognitive Decline

- Cerebral amyloid angiopathy (CAA) is characterized by progressive deposition of Aβ in cerebral blood vessels<sup>1</sup>
- Manifestations include intracerebral hemorrhage, lobar microbleeds, and cortical superficial siderosis<sup>1</sup>
- CAA is often comorbid with Alzheimer's disease (AD), but also independently contributes to cognitive decline<sup>2</sup>
- Although CAA is most often sporadic, aggressive hereditary forms exist (e.g., Dutch-type)<sup>1,3,4</sup>
- There are no disease-modifying therapies for CAA<sup>5</sup>
  - Patients with a high number of lesions suggestive of CAA were excluded from AD clinical trials of antibody-based therapies targeting Aβ due to increased risk of intracerebral hemorrhage<sup>6–8</sup>



Amyloid PET<sup>10,a</sup>

MRI<sup>9,a</sup>

<sup>a</sup>Available through Creative Commons Attribution License, image labels added.

Aß, amyloid beta; AD, Alzheimer's disease; CAA, cerebral amyloid angiopathy; MRI, magnetic resonance imaging; PET, positron emission tomography.

1. Kozberg MG et al. Int J Stroke 2021;16:356–69. 2. Boyle PA et al. Neurology 2015;85:1930–6. 3. Chatterjee P et al. J Alzheimers Dis 2021;79:895–903. 4. Biffi A, Greenberg SM J Clin Neurol 2011;7:1–9. 5. Cozza M et al. J Neurol Sci 2023;454:120866. 6. Cummings J et al. J Prev Alz Dis 2023;3:362–77. 7. van Dyck CH et al. N Engl J Med 2023;388:Suppl. 8. Mintun MA et al. N Engl J Med 2021;384:Suppl. 9. Vilela P, Wiesmann M. Nontraumatic Intracranial Hemorrhage. In: Hodler J et al., editors. Diseases of the Brain, Head and Neck, Spine 2020–23. electronic: IDKD Springer Series. Springer; 2020. 10. Chang Y et al. Front Neurosci 2020;14:745.

## Aβ Precursor Protein (APP) is the Source of Aβ

#### Aβ is Derived from APP and is Deposited in Vessels

- APP is a transmembrane protein that is cleaved to produce a variety of peptides, including  $A\beta^1$
- Vascular amyloid deposits are largely composed of Aβ40, and parenchymal plaques are mostly comprised of Aβ42<sup>2,3</sup>

#### **APP is a Genetically Validated Target for CAA**

- APP variants are associated with hereditary CAA<sup>2</sup>
  - Dutch-type, Iowa-type, and Italian-type variants cause early, aggressive forms of CAA with varying degrees of cognitive impairment and ICH<sup>3</sup>
- Having more than two copies of the APP gene can also result in early-onset CAA<sup>3,4</sup>
  - CAA pathology is seen in patients with trisomy 21, where the chromosome carrying APP is present in three copies<sup>5,6</sup>
  - No disease characteristics are seen in people with partial trisomy 21 who do not have increased APP copies<sup>7</sup>

#### Lowering APP expression may reduce Aß accumulation and downstream clinical consequences of CAA<sup>9</sup>

#### **APP Structure**<sup>8,a</sup>



<sup>&</sup>lt;sup>a</sup>Available through Creative Commons Attribution License.

Aβ, amyloid beta; Aβ40, Aβ peptide length 40 amino acids; Aβ42, Aβ peptide length 42 amino acids; APP, Aβ precursor protein; CAA, cerebral amyloid angiopathy; ICH, intracerebral hemorrhage.

<sup>1.</sup> O'Brien RJ, Wong PC Annu Rev Neurosci 2011;34:185–204. 2. Greenberg SM et al. Nat Rev Neurol 2020;16:30–42. 3. Biffi A, Greenberg SM J Clin Neurol 2011;7:1–9. 4. Grangeon L et al. Neurol Genet 2021;7:e609. 5. Cabrejo L et al. Brain 2006;129:2966–76. 6. Head E et al. Acta Neuropathol Commun 2017;5:93. 7. Doran E et al. J Alzheimers Dis 2017;56:459–70. 8. Goodsell DS and the Protein Data Bank [online] 2006. Available from: https://pdb101.rcsb.org/motm/79 (Accessed October 15, 2024). 9. Sirisi S et al. Alzheimers Res Ther 2024;16:144.

## **RNA Interference Harnesses an Endogenous Process to Lower Expression of Disease-Associated Proteins Such as APP**

- RNA interference (RNAi) is a natural process that regulates gene expression<sup>1</sup>
- Synthetic small interfering RNAs (siRNAs) are designed to specifically degrade mRNA encoding a diseaseassociated protein<sup>2,3</sup>
- RNAi works catalytically, repeatedly reducing target protein expression while leaving DNA intact<sup>2,3</sup>





<sup>a</sup>Image created by Alnylam Pharmaceuticals from data published in Jadhav et al. 2024<sup>3</sup>

Aß, amyloid beta; APP, Aß precursor protein; mRNA, messenger RNA; RISC, RNA-induced silencing complex; RNAi, RNA interference; siRNA, small interfering RNA.

1. Niemietz C et al. Molecules 2015;20:17944–75. 2. Ranasinghe R et al. Br J Pharmacol 2023;180:2697–720. 3. Jadhav V et al. Nature Biotechnol 2024;42:394–405.

## Intrathecal Delivery of C16-Conjugated siRNA Enables CNS Targeting in Preclinical Models, Supporting Clinical Development

• In preclinical models, intrathecally administered C16-conjugated siRNA enabled distribution throughout the CNS and durable target engagement in the deep brain,<sup>1</sup> supporting development of an investigational RNAi therapeutic



## Biodistribution with Unconjugated versus C16-Conjugated siRNA<sup>1</sup>



24-hour after a single IT dose in rats Red color denotes anti-siRNA antibody

# APP mRNA Expression Lowered Throughout Spine and Brain<sup>2</sup>

3 months after a single IT dose in NHPs

#### Mivelsiran is the first C16-conjugated siRNA to enter Phase 1 and Phase 2 development

Aβ, amyloid beta; APP, Aβ precursor protein; C16, 2'-O-hexadecyl; CNS, central nervous system; h, hour; IT, intrathecal; mRNA, messenger RNA; NHP, non-human primate; SE, standard error; siRNA, small interfering RNA. 1. Brown KM *et al.* Nat Biotechnol 2022;40:1500–08. 2. Kurz J *et al.* Oral presentation presented at the Alzheimer's & Parkinson's Diseases Conference (ADPD), March 28–April 1, 2023, Gothenburg, Sweden.

## Mivelsiran is an Investigational RNAi Therapeutic Designed to Reduce APP Production in the CNS

**Mivelsiran is Being Evaluated in AD and in CAA** 



Aβ, amyloid beta; AD, Alzheimer's disease; APP, Aβ precursor protein; CAA, cerebral amyloid angiopathy; CNS, central nervous system; RNAi, RNA interference.

1. ClinicalTrials.gov. NCT05231785. Available from: https://clinicaltrials.gov/study/NCT05231785 (Accessed Oct 15, 2024). 2. ClinicalTrials.gov. NCT06393712. Available from: https://clinicaltrials.gov/study/NCT06393712 (Accessed Oct 15, 2024).

## Single Doses of Mivelsiran Reduced CSF sAPPβ and Aβ40 in a Phase 1 Study of Patients With Early-Onset AD<sup>a,1</sup>



## Mivelsiran has shown robust and durable reductions of amyloidogenic proteins in early-onset AD, supporting its further evaluation in CAA<sup>1,2</sup>

NCT05231785. Data shown as of August 2, 2024. a Similar reductions were observed for CSF sAPPα and Aβ42 levels.<sup>1</sup>

Aβ, amyloid beta; Aβ40, Aβ peptide length 40 amino acids; AD, Alzheimer's disease; CAA, cerebral amyloid angiopathy; CSF, cerebrospinal fluid; sAPP, soluble Aβ precursor protein; SE, standard error.

1. Deering R et al. Oral Presentation at the International Cerebral Amyloid Angiopathy (ICAA) Conference, October 15–17, 2024, Munich, Germany. 2. Kozberg MG et al. Int J Stroke 2021;16:356–69.

## Phase 1 Safety Profile in Patients with Early-Onset AD Supports Continued Development of Mivelsiran<sup>1</sup>

Patients with events	Mivelsiran 25 mg or placebo (N=6, PY=6.9)	Mivelsiran 35 mg or placebo (N=8, PY=4.8)	Mivelsiran 50 mg or placebo (N=8, PY=7.6)	Mivelsiran 75 mg or placebo (N=14, PY=13.5)
Time from randomization, months, mean (SD)	13.89 (1.46)	7.27 (0.79)	11.45 (3.66)	11.60 (2.86)
At least one AE, n (%)	6 (100.0)	8 (100.0)	7 (87.5)	14 (100.0)
Related to study drug	0	0	1 (12.5)	2 (14.3)
Related to LP	4 (66.7)	7 (87.5)	6 (75.0)	7 (50.0)
At least one moderate AE, n (%)	4 (66.7)	4 (50.0)	5 (62.5)	10 (71.4)
At least one severe AE, n (%)	0	0	0	1 (7.1) <sup>a</sup>
At least one serious AE, n (%)	0	0	0	1 (7.1) <sup>a</sup>
Deaths, n (%)	0	0	0	1 (7.1) <sup>a</sup>

- Most adverse events were mild or moderate in severity and nonserious
- AEs deemed related to study drug were reported in three patients; all events resolved
  - Post-LP headache (n=3), post-LP nausea (n=1), post-LP vomiting (n=1), post-LP neck pain (n=1), vomiting due to LP (n=1), and lymphocytopenia (n=1)
- One serious and severe AE of acute pancreatitis deemed unrelated to the study drug was fatal

NCT05231785. Data shown as of April 18, 2024. <sup>a</sup>One AE of acute pancreatitis.

AD, Alzheimer's disease; AE, adverse event; LP, lumbar puncture; PY, patient-years; SD, standard deviation.

<sup>1.</sup> Deering R et al. Oral Presentation at the International Cerebral Amyloid Angiopathy (ICAA) Conference, October 15–17, 2024, Munich, Germany.

### **Mivelsiran Phase 1 and Phase 2 Development Overview**



AD, Alzheimer's disease; CAA, cerebral amyloid angiopathy.

1. ClinicalTrials.gov. NCT05231785. Available from: https://clinicaltrials.gov/study/NCT05231785 (Accessed Oct 15, 2024). 2. ClinicalTrials.gov. NCT06393712. Available from: https://clinicaltrials.gov/study/NCT06393712 (Accessed Oct 15, 2024).

## cAPPricorn-1 is a Phase 2 Study Evaluating Mivelsiran in Patients with Sporadic or Hereditary CAA





#### Sporadic CAA

#### Rationale:

- High prevalence, later onset
- Significant unmet need to reduce risk of hemorrhagic progression associated with CAA

#### **Key Inclusion Criteria**

- ✓ Age ≥50 years
- Probable CAA diagnosis (Boston criteria v2.0 with adaptations)

#### **Key Inclusion Criteria (All Patients)**

- ✓ Able to complete MRI
- ✓ BMI ≥18 and ≤34 kg/m<sup>2</sup>

#### **Key Exclusion Criteria**

- Moderate or severe Alzheimer's disease (CDR global score 2.0 or 3.0) or severe cognitive impairment (MMSE <22)
- History of previous ICH with onset <90 days prior to randomization
- Any treatment with amyloid-targeting antibody

#### NCT06393712

A\$\beta\$, amyloid beta; APP, A\$\beta\$ precursor protein; BMI, body mass index; CAA, cerebral amyloid angiopathy; CDR, clinical dementia rating; ICH, intracerebral hemorrhage; MMSE, Mini Mental State Examination; MRI, magnetic resonance imaging.

### Dutch-type CAA

#### **Rationale:**

**\*\*\*** 

- Rapidly progressive, genetically defined
- Earlier onset with fewer comorbidities
- Presymptomatic patients
- Well-characterized natural history

#### **Key Inclusion Criteria**

- ✓ Age ≥30 years
- ✓ Known E693Q APP gene variant
- ✓ Able to tolerate lumbar puncture
- ✓ Supportive psychosocial circumstances

## cAPPricorn-1 Study Design

#### Phase 2 Multiple-Dose Study Evaluating Efficacy, Safety, and Pharmacodynamics





## cAPPricorn-1 will Evaluate Complementary Hemorrhagic and Non-Hemorrhagic Outcome Measures



Efficacy will be Assessed up to 24 Months and Safety up to 48 Months

Measure	Description	
Hemorrhagic disease progression	Annualized rate of new lobar cerebral microbleeds on MRI	Primary Endpoint <sup>a</sup>
	Novel global rank endpoint integrating clinical and imaging findings	-j
	Change in the total CAA small vessel disease score on MRI	
	Incidence of new cerebral hemorrhagic lesions	
Vascular physiology	Change in cerebrovascular vasoreactivity on BOLD-fMRI	
Non-hemorrhagic disease progression	Incidence of white matter hyperintensities on MRI	
Pharmacodynamics	Change in CSF sAPPα concentration	
	Change in CSF sAPPβ concentration	
Safety	Frequency of adverse events	

NCT06393712. Changes in outcomes are measured from baseline. Imaging endpoints will be determined by blinded, centrally adjudicated MRI. <sup>a</sup>The primary endpoint will be formally analyzed in the sporadic CAA cohort only. Aβ, amyloid beta; BOLD-fMRI, blood-oxygenation-level-dependent functional MRI; CAA, cerebral amyloid angiopathy; CSF, cerebrospinal fluid; MRI, magnetic resonance imaging; OLE, open-label extension; sAPP, soluble Aβ precursor protein. A Phase 2 Multiple-Dose Study Evaluating Efficacy, Safety, and Pharmacodynamics of **Mivelsiran in Patients with CAA** 

#### Study Population (N~200) **Sporadic CAA Cohort Sporadic** • Probable CAA (Boston v2.0 CAA R with adaptations) **Cohort**<sup>a</sup> **Mivelsiran IT** Mivelsiran IT Placebo IT **Dutch-type** CAA APP variant **Cohort**<sup>a</sup> **Double-Blind Period** Moderate or severe stage AD Screening or severe CI Previous ICH with onset <90</li> D -60 BL M24 days prior to randomization Other protocol-defined inclusion and exclusion criteria apply

NCT06393712. a Sporadic and Dutch-type CAA cohorts will be analyzed separately.

## cAPPricorn-1 Overall Study Design

- Age ≥50 years

#### **Dutch-type CAA Cohort**

- Age ≥30 years
- Documented E693Q

#### Key Exclusion (both cohorts)



Frequency of adverse events

**Outcome Measures**<sup>a</sup> **Primary endpoint** Annualized rate of new lobar

**cAPPricorn-1** 

cerebral microbleeds

Safety follow-up

M42

**Optional OLE** 

#### Select secondary endpoints

- Global rank endpoint
- Hemorrhagic disease progression
- Vascular reactivity
- Non-hemorrhagic disease progression

AB, amyloid beta; AD, Alzheimer's disease; APP, AB precursor protein; BL, baseline; CAA, cerebral amyloid angiopathy; CI, cognitive impairment; CSF, cerebrospinal fluid; D, day; ICH, intracerebral hemorrhage; IT, intrathecal; M, month; OLE, openlabel extension; PD, pharmacodynamics; R, randomization; sAPP, soluble APP.

## Summary

For US HCPs Only Scan to View Congress Material Presented

> For non-US HCPs, please contact edinfo@ainylam.co



- CAA is characterized by cerebrovascular deposition of Aβ and is commonly comorbid with AD<sup>1,2</sup>
  - CAA increases the risk of hemorrhagic strokes and independently contributes to progressive cognitive decline<sup>1,2</sup>
- No disease-modifying therapies exist for CAA,<sup>3</sup> and Aβ-targeting antibody therapies for AD may increase risk of ICH in CAA<sup>4</sup>
- Mivelsiran is an investigational RNAi therapeutic designed to reduce APP production, thereby reducing downstream Aβ accumulation and potentially slowing CAA progression
- Interim Phase 1 results in early-onset AD demonstrate an encouraging safety profile and robust, durable reductions in APP CSF biomarkers<sup>5,6</sup>
- The Phase 2 cAPPricorn-1 study is assessing the efficacy, safety, and pharmacodynamics of mivelsiran in patients with CAA<sup>7</sup>
  - The study has initiated in select memory clinic and stroke care settings in Canada, Switzerland, the USA, and the UK, with additional sites planned pending regulatory and ethical reviews

#### Interested investigators and referring physicians may visit ClinicalTrials.gov NCT06393712

If you are seeking additional scientific information related to Alnylam therapeutics, US HCPs may visit the Alnylam US Medical Affairs website at RNAiScience.com. Non-US HCPs should contact <u>medinfo@alnylam.com</u>. Aβ, amyloid beta; AD, Alzheimer's disease; APP, Aβ precursor protein; CAA, cerebral amyloid angiopathy; CSF, cerebrospinal fluid; HCP, healthcare professional; ICH, intracerebral hemorrhage; RNAi, RNA interference. 1. Kozberg MG *et al. Int J Stroke* 2021;16:356–69. 2. Boyle PA *et al. Neurology* 2015;85:1930–6. 3. Cozza M *et al. J Neurol Sci* 2023;454:120866. 4. Greenberg S *et al. Nat Rev Neurol* 2020;16:30–42. 5 ClinicalTrials.gov. NCT05231785. Available from: https://clinicaltrials.gov/study/NCT05231785 (Accessed Oct 15, 2024). 6. Deering R *et al.* Oral Presentation at the International Cerebral Amyloid Angiopathy (ICAA) Conference, October 15–17, 2024, Munich, Germany. 7. ClinicalTrials.gov. NCT06393712. Available from: https://clinicaltrials.gov/study/NCT06393712 (Accessed Oct 15, 2024).

Thank you to the patients, their families, investigators, study staff, collaborators, and the Global Steering Committee for their support and participation in the ongoing cAPPricorn-1 study

## Back Up

### **RNAi and ASO Therapeutics are Distinct Classes of Medicine<sup>1</sup>**



ASO, antisense oligonucleotide; mRNA, messenger RNA; RISC, RNA-induced silencing complex; RNAi, RNA interference; RNase, ribonuclease; siRNA, small interfering RNA.

1. Damase TR et al. Front Bioeng Biotechnol 2021;9:628137. 2. Gareri C et al. J Clin Med 2022;11:3884. 3. Chery J Postdoc J 2016;4:35–50. 4. MacLeod AR, Crooke ST. J Clin Pharmacol 2017:57(Suppl 10):S43–S59. 5. DeVos SL, Miller TM. Neurotherapeutics 2013;10:486–97. 6. Vickers AT, Crooke ST Nucl Acids Res 2015;43:8955–63. 7. Gardin A et al. J Hepatol 2022;76:1392–409. 8. Debacker AJ et al. Mol Ther 2020;28:1759–71. 9. Jadhav V et al. Nature Biotechnol 2024;42:394–405. 10. Collotta D et al. Front Pharmacol 2023;14:1304342.

## Mivelsiran is an Investigational RNAi Therapeutic Designed to Reduce APP Production in the CNS

- Intrathecally administered C16conjugated siRNA enables cellular uptake in the CNS<sup>1</sup>
- Reducing production of APP is expected to lower Aβ peptide levels<sup>2</sup>
- Accordingly, mivelsiran may:
  - Reduce intracellular (in AD)<sup>3</sup> and extracellular (in AD and CAA)<sup>3,4</sup> drivers of disease pathology
  - Enable natural clearance of Aβ aggregates
  - Avoid direct interaction with vascular amyloid or immuno-active Aβ clearance, reducing risk of ARIA
  - Stabilize or improve clinical manifestations of AD and CAA

#### **Therapeutic Hypothesis of Mivelsiran in CAA**



Aβ, amyloid beta; AD, Alzheimer's disease; AICD, APP intracellular domain; APP, Aβ precursor protein; ARIA, amyloid-related imaging abnormalities; β-CTF, C-terminal fragment beta; C16, 2'-O-hexadecyl; CAA, cerebral amyloid angiopathy; CNS, central nervous system; mRNA, messenger RNA; p3, p3 peptide; RNAi, RNA interference; sAPP, soluble APP; siRNA, small interfering RNA.

1. Brown KM et al. Nat Biotechnol 2022;40:1500–8. 2. Deering R et al. Oral Presentation at the International Cerebral Amyloid Angiopathy (ICAA) Conference, October 15–17, 2024, Munich, Germany. 3. Hampel H et al. Mol Psychiatry 2021;26:5481–503. 4. Biffi A, Greenberg SM J Clin Neurol 2011;7:1–9.

## A Phase 1 Study Evaluating Safety and Efficacy of Single Ascending Doses of Mivelsiran in Early-Onset AD<sup>1</sup>

An Ongoing, Double-Blind, Placebo-Controlled Study



- Patients were evaluated through Month 6 with additional follow-up of up to 6 months for drug washout
- Baseline characteristics and safety data are reported in pooled cohorts of mivelsiran and placebo to preserve blinding

NCT05231785. Enrollment initiated with the 25 mg cohort and then the 75 mg cohort, in each of which, 6 patients were randomized 2:1. Further dose exploration occurred through enrollment of cohorts randomized in a 3:1 ratio. aSymptom onset at <65 years of age.

Aβ, amyloid beta; Aβ40, Aβ peptide length 40 amino acids; Aβ42, Aβ peptide length 42 amino acids; AD, Alzheimer's disease; AE, adverse event; CDR, Clinical Dementia Rating; CSF, cerebrospinal fluid; IT, intrathecally; MMSE, Mini-Mental State Examination; PD, pharmacodynamics; PET, positron emission tomography; PK, pharmacokinetics; sAPP, soluble Aβ precursor protein.

1. Deering R et al. Oral Presentation at the International Cerebral Amyloid Angiopathy (ICAA) Conference, October 15–17, 2024, Munich, Germany.

## Single Doses of Mivelsiran Reduced CSF sAPPα and Aβ42 in a Phase 1 Study of Patients With Early-Onset AD<sup>1</sup>



Mivelsiran has shown robust and durable reductions of APP cleavage products in early-onset AD, supporting its further evaluation in CAA<sup>1,2</sup>

NCT05231785. Data shown as of August 2, 2024.

Aβ, amyloid beta; Aβ42, Aβ peptide length 42 amino acids; AD, Alzheimer's disease; CAA, cerebral amyloid angiopathy; CSF, cerebrospinal fluid; sAPP, soluble Aβ precursor protein; SE, standard error.

1. Deering R et al. Oral Presentation at the International Cerebral Amyloid Angiopathy (ICAA) Conference, October 15–17, 2024, Munich, Germany. 2. Kozberg MG et al. Int J Stroke 2021;16:356–69.