Research and Development Day Presentation

April 2024



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- 01 Introduction to Speakers
- 02 Corporate Overview
- 03 OPMD Clinical and Pathophysiological Overview
- 04 BB-301: Mechanism of Action and Clinical Development Program
- 05 VFSS and Subject-Reported Outcome Measures
- 06 Preliminary BB-301 Phase 1b Clinical Data Summary
- 07 Upcoming Milestones

Research and Development Day Agenda



Professional Biography:

Bernard Brais, MDCM, PhD

Professor, Department of Neurology and Neurosurgery, Montreal Neurological Institute, McGill University Health Centre

Bernard Brais, MDCM, PhD, Professor, Department of Neurology and Neurosurgery at Montreal Neurological Institute (MNI), McGill University Health Centre (MGH, MNH) is Director of the Rare Neurological Diseases Group. He completed his MDCM, neurology residency and PhD at McGill. He is also trained as a historian of neurosciences and genetics. His research largely focuses on the genetic basis of neurogenetic disorders with founder effects in Quebec, with an increasing focus on disorders with ataxic manifestations such as Autosomal Recessive Spastic Ataxia of Charlevoix-Saguenay (ARSACS). Since 2007, he has headed a team of researchers on ARSACS. Dr. Brais has played important roles in identifying causal genes for Oculopharyngeal muscular dystrophy (OPMD), Hereditary Sensory and Autonomic Neuropathy type II (HSANII), Limb Girdle Muscular Dystrophy with Quadriceps atrophy (LGMD2L), Pol III-related leukodystrophies, and ZAK congenital myopathy.

Disclosures: Clinical advisor and consultant to Benitec Biopharma Inc



Professional Biography:

Emily Plowman, PhD, CCC-SLP, FASHA Professor, Department of Otolaryngology - Head and Neck Surgery, The Ohio State University College of

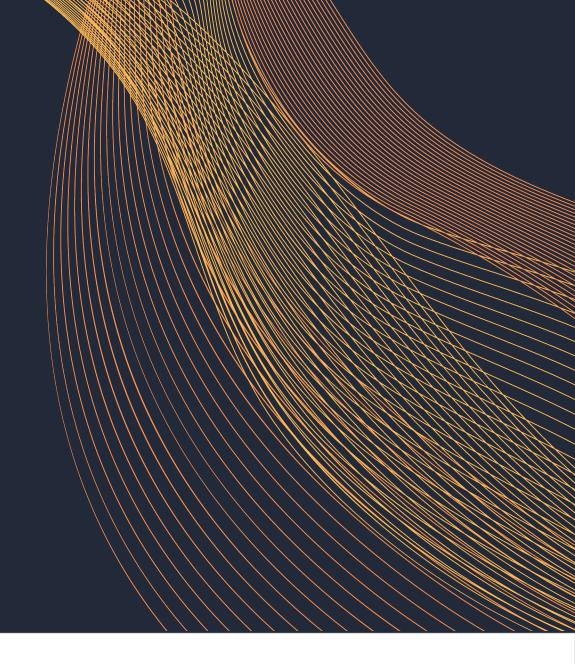
Medicine

Emily Plowman, PhD, CCC-SLP, FASHA, Professor, Department of Otolaryngology -Head and Neck Surgery, The Ohio State University College of Medicine is Director of the Aerodigestive Research Core across its two sites at the Ohio State University and University of Florida and Director of the Wexner Medical Center Dysphagia Program. She is an internationally recognized expert in the field of dysphagia who has held uninterrupted funding from the National Institutes of Health (NIH) since commencing her academic career in 2009. Her current research at OSU and UF are supported by the National Institute of Aging, National Institute of Nursing Research, National Institute of Cancer, Department of Defense, and the ALS Association. Dr. Plowman has authored over 85 peer-reviewed scientific manuscripts, given over 600 lectures worldwide, and obtained over 30 external research grants. In addition to her own research, Dr. Plowman is passionate about mentoring the future generation of clinician scientists and her mentorship efforts were recently recognized by the National Institutes of Health with the NINDS Story Landis Award for Outstanding Mentorship by a Neuroscientist (2022) and the University of Florida Doctoral Mentor of the Year award (2021). She was inducted into the American Speech and Hearing Association as a Fellow in 2022 and was elected to be the incoming President of the international Dysphagia Research Society for 2026.

Disclosures: Clinical advisor and consultant to Benitec Biopharma Inc



Benitec Corporate Overview Jerel A. Banks, MD, PhD





Corporate Highlights



Novel Technology Platform

- Benitec's DNA-directed RNA interference (ddRNAi) platform combines gene therapy with RNA interference (RNAi) to simultaneously silence & replace disease-causing genes permanently, following a single administration
- Platform has application in diseases that cannot be treated with gene silencing or gene therapy alone



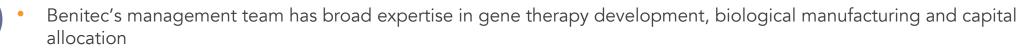
Lead Asset Entered Clinical Evaluation in Orphan Disease in November 2023

- BB-301 is being developed to treat dysphagia (difficulty swallowing) in subjects with Oculopharyngeal Muscular Dystrophy (OPMD). There are no therapies approved for the treatment of OPMD. The estimated prevalence in the US, Europe, Canada & Israel is 15k subjects.
- Compelling preclinical data demonstrated complete restoration of muscle function in vivo via a murine disease model
- The Investigational New Drug (IND) application for BB-301 was approved to proceed by the FDA in June 2023, and the first study subject was safely dosed in the BB-301 Phase 1b/2a clinical trial (NCT06185673) in November 2023

Significant Near-Term Milestones

Preliminary clinical safety data and clinical efficacy data for the BB-301 Phase 1b/2a clinical trial are expected in 2024

Seasoned Management Team





Experienced and Efficient Management



Jerel A. Banks, MD, PhD

CEO & Executive Chairman Healthcare investment professional with over 15 years of experience Former Vice president & co-portfolio manager at Franklin Templeton Investments M.D., Ph.D. Brown University; A.B. Princeton University



Megan Boston

Executive Director

CEO & managing director of multiple ASX-listed entities Chartered Accountant with over 20 years of experience Held senior executive roles at various banking institutions in risk and compliance as well as PricewaterhouseCoopers



Claudia Kloth, PhD

SVP of Manufacturing

Over 20 years of cGMP manufacturing & process development experience in therapeutics Led process development group at Lonza Viral Therapeutics Developed, optimized, and transferred robust viral-based products (Ad5, AAV, lentivirus) to cGMP manufacturing Guided process transfer & validation activities of Yervoy (BMY)







ullı Bristol Myers Squibb[™]





Oculopharyngeal Muscular Dystrophy: Clinical and Pathophysiological Overview

Bernard Brais, MDCM, PhD



OPMD: A Chronic, Progressive Disease With No Approved Therapeutics

- Oculopharyngeal muscular dystrophy (OPMD) is an autosomal dominant, chronic, myopathic disorder characterized by ptosis (drooping of the upper eyelid) and progressive dysphagia (loss of the ability to swallow) due to impairment of the muscles of the eyelids and throat.
- Typical age of onset in the 40s-50s, and affects approximately 15k adults in the US, Canada, Europe and Israel.
- Progressive dysphagia increases the risks of severe malnutrition and potentially life-threatening aspiration pneumonia.
- In OPMD, a genetic mutation results in trinucleotide repeat expansion within exon 1 of PABPN1 producing an expanded polyalanine tract at the N-terminal end of the PABPN1 protein:

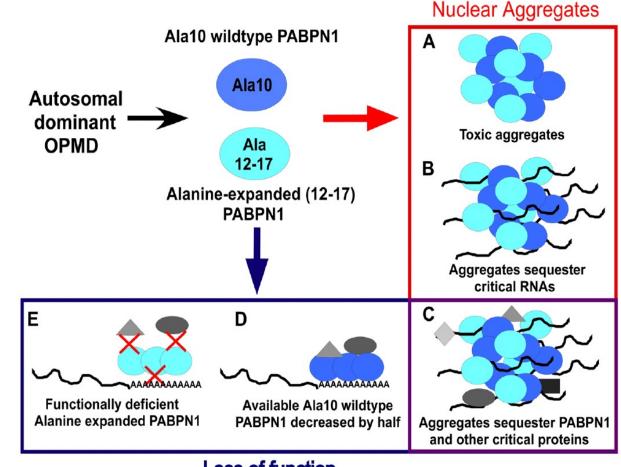
Wildtype: ATG (GCG)₆ -----(GCA)₃ GCG GGG GCT GCG...

OPMD Mutant: ATG (GCG)₆ (GCN)₁₋₇ (GCA)₃ GCG GGG GCT GCG...



Models for OPMD Pathogenesis

- Currently two general models are used to explain how alanine-expanded PABPN1 confers muscle pathology in autosomal dominant OPMD where patients have one normal and one mutant allele of PABPN1
- One model suggests that nuclear aggregates cause disease (right column, outlined in red)
- A second model suggests that loss of PABPN1 function (bottom row, outlined in blue) underlies pathology



Loss of function



Key Epidemiological Estimates for OPMD:

At Least 15k adults in the United States, Canada, Europe and Israel

- OPMD has a global distribution and has been diagnosed in at least 33 countries
- The estimated prevalence in Western countries is 1:100,000
- Large patient cohorts exist in the United States (e.g., the University of New Mexico Patient Data-Base comprises several hundred subjects)
- Literature-based prevalence estimate for Europe is 1:100,000
- Literature-based prevalence estimate for the French-Canadian population is 1:1,000
- Literature-based prevalence estimates for Bukhara Jews in Israel is 1:600

	Estimated	OPMD	Estimated OPMD
Country/Province/Region	Population	Prevalence Estimate	Patient Population
United States	333,000,000	0.00001	3,330
Quebec	8,500,000	0.001	8,500
Europe	742,000,000	0.00001	7,420



Abu-Baker et al, 2007; Raz et al, 2014

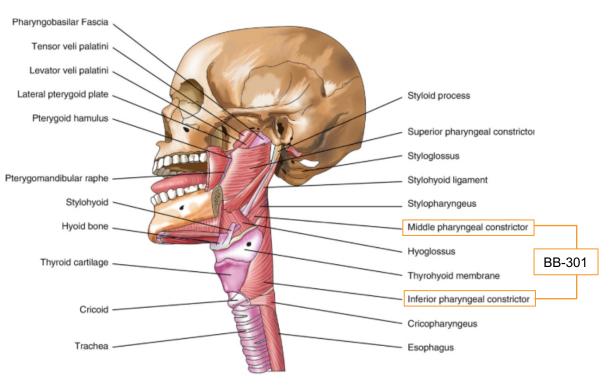
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Swallowing Overview

Normal vs. Disordered Swallowing

- Under normal conditions, a food bolus leaves the oral cavity and is able to traverse the length of the pharynx, en route to the esophagus, via the propulsive activity of the coordinated constriction of the superior, middle, and inferior pharyngeal constrictor muscles
- As the food bolus nears the opening of the upper esophagus, the subsequent relaxation of the cricopharyngeal muscle allows the bolus to enter the esophagus and travel to the stomach
- In OPMD, the pharyngeal constrictor muscles are weakened and atrophic and, as a result, are unable to consistently exert the level of force required to support the propulsion of the food bolus that defines the normal swallowing process

Anatomical Structures of the Pharynx



Muscles Of Pharyngx: Lateral view



OPMD: Onset and Progression

- More frequent choking
- Prolonged mealtime
- Avoidance of specific foods (e.g., rice, chicken, toast, etc.)
- Drooping eyelids that are often asymmetrical at disease onset
- Absence of limb weakness at disease onset



OPMD: Clinical Presentation

- A retrospective chart review was conducted at the Saguenay Neuromuscular Clinic (Quebec, Canada)
- All health record of patients with an OPMD diagnosis were screened to identify patients who met inclusion criteria
- Patients were excluded if another neurological or musculoskeletal disorder was present that could impact the evolution of the disease
- Dysphagia was present in 96.6% of subjects
- Pharyngeal pooling of thickened secretions was present in 74.1% of subjects
- Dysphagia worsens over time and, as a result, patients can develop malnutrition and aspiration pneumonia which can lead to death

Briss	on, JD, Muscle & Nerve, 2020	
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ABLE 1 Population charac	teristics (n = 333)
Characteristics	n (%)
Sex	
Male	166 (49.8)
Female	167 (50.2)
Transmission (n = 321)	
Paternal	167 (52.0)
Maternal	154 (48.0)
PABN1 test source	
Patient	254 (76.3)
Family member	80 (23.7)
First degree	56 (16.8)
Second degree	16 (4.8)
Third degree	5 (1.5)
Fourth degree	3 (0.9)
Ptosis (n = 332)	
Present	321 (96.7)
Absent	11 (3.3)
Dysphagia (n = 329)	
Present	318 (96.6)
Absent	11 (3.4)
Lower limb proximal weakness (n = 331)	
Present	287 (86.7)
Absent	44 (13.3)
Fatigue (n = 250)	
Present	220 (88.0)
Absent	30 (12.0)
Dysphonia	
Present	168 (50.5)
Absent	165 (49.5)
Pharyngeal pooling of thickened	secretions (n = 220)
Present	163 (74.1)
Absent	57 (25.9)

OPMD: Clinical Presentation (continued)

Median age at symptom onset as reported by the subject:

- Dysphagia onset at 54 years of age
- Pharyngeal pooling of thickened secretions onset at 66 years of age

		Age at symponset (years	
Symptom	N ^a	Median	Range
Ptosis ^b	261	54	40-77
Dysphagia ^b	272	54	38-77
Lower limb proximal weakness ^b	199	58	41-77
Fatigue ^c	219	64	39-85
Dysphonia ^c	165	65	43-83
Pharyngeal pooling of thickened secretions ^c	161	66	51-85

^aNumber of data for each symptom.

^bAge of symptom onset as reported by the patient.

^cAge of the patient when symptom was first recorded in the medical record.



OPMD: Clinical Presentation (continued)

Subjects may present with:

- Ptosis (drooping of the upper eyelid) and dysphagia (difficulty swallowing) together
- Ptosis, followed by dysphagia (median of 3.0 years following initial presentation of ptosis)
- Dysphagia, followed by ptosis (median of 5.0 years following initial presentation of dysphagia)

First symptom	Age, median (range), years	Latency before onset of a second symptom (ptosis or dysphagia), median (range), years	Latency before onset of proximal weakness, median (range), years
Ptosis	52.0 (40-71), n = 99	3.0 (1-19)	7.0 (0-21), n = 65
Dysphagia	50.0 (38–65), n = 81	5.0 (1-20)	6.0 (0-25), n = 50
Ptosis and dysphagia	53.5 (40–77), n = 46	_	4.0 (0-21), n = 28



OPMD: Clinical Complications and Causes of Death

Approximately one third of subjects had respiratory diagnoses listed as the cause of death:

- Impaired swallowing (dysphagia) can lead to aspiration pneumonia
- Pneumonia can result from the aspiration of food and/or liquid
- Pneumonia can also result from the aspiration of thickened pharyngeal secretions

	n (%)
Diseases of the respiratory system	34 (31.5%)
Aspiration pneumonia	18 (16.7%)
Influenza or pneumonia of unspecified etiology	12 (11.1%)
Other respiratory disease	3 (2.8%)
Chronic lower respiratory disease	1 (0.9%)
Neoplasms	19 (17.6%)
Diseases of the circulatory system	9 (8.3%)
Heart failure	5 (4.6%)
Cardiac problem	3 (2.8%)
Cerebrovascular disease	1 (0.9%)
Others	9 (8.3%)
Hip fracture complications	3 (2.8%)
OPMD not otherwise specified	2 (1.9%)
Malnutrition	1 (0.9%)
Suicide	1 (0.9%)
Hepatic cirrhosis	1 (0.9%)
Urinary tract infection	1 (0.9%)
Unknown	37 (34.3%)
Total	108 (100%)

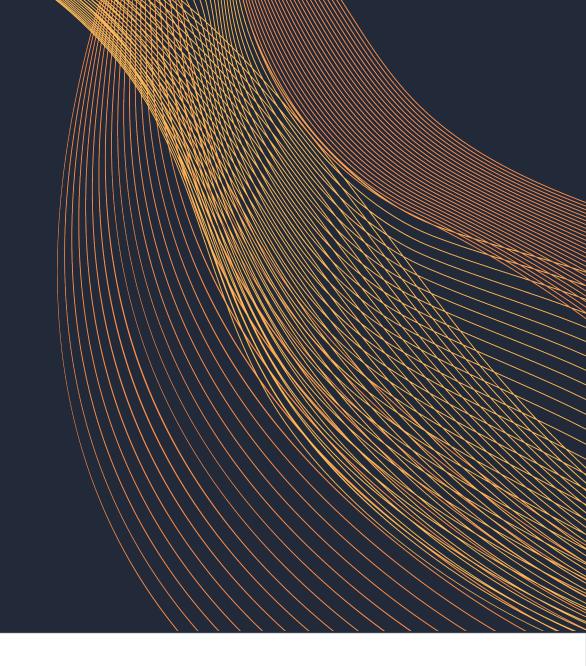
Clinical Management of Dysphagia

- Nutritional recommendations including adaptations
- Surgical Interventions for moderate to severe dysphagia:
 - Cricopharyngeal muscle paralysis with botulinum toxin injection (temporary effect in some patients, requires repeated administration)
 - Cricopharyngeal muscle dilation (temporary effect, requires repeated application)
 - Cricopharyngeal myotomy (clinical/subject-reported outcomes suggest temporary delay of disease progression)
- In all cases the pharyngeal constrictor muscles continue to atrophy, leading to progressive loss of pharyngeal propulsion/clearance of food and liquid into the esophagus



BB-301: Mechanism of Action and Clinical Development Program

Jerel A. Banks, MD, PhD





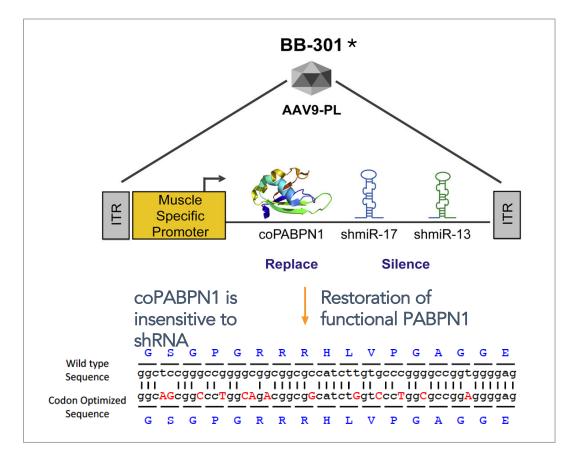
BB-301 Construct Design and Mechanism of Action



BB-301 Simultaneously Silences Mutant PABPN1 & Delivers Wildtype PABPN1 To Restore Normal Myocyte Function

PABPN1 in OPMD

- PABPN1 is a ubiquitous protein that controls the length of mRNA poly(A) tails, mRNA export from the nucleus & alternative poly(A) site usage
- The PABPN1 mutant protein underlying OPMD is aggregation prone due to an N-terminal expanded poly-alanine tract of up to 18 contiguous alanine residues, and drives the formation of intranuclear inclusions (INIs) in the myocytes
- INIs also sequester wildtype PABPN1 and may contribute to the "loss of function" phenotype associated with OPMD





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ddRNAi Platform Enables Both Permanent Silencing AND Replacement of Mutated Genes in the Target Tissue

LIMITATIONS OF CURRENT siRNA TECHNOLOGIES:

Requires repeated administration

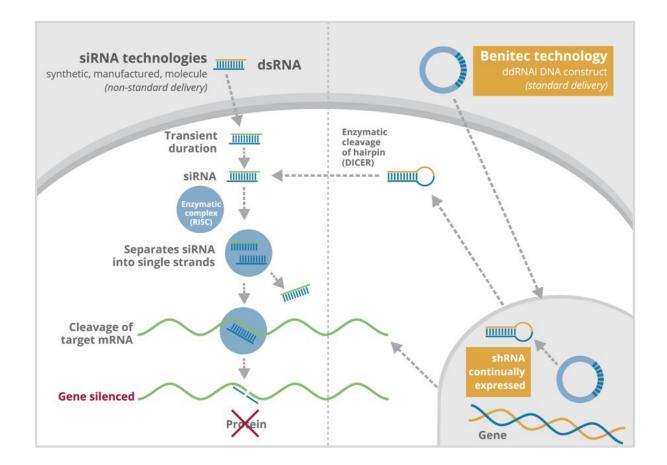
Enables only transient silencing of mutated gene

Silencing capacity restricted to a single gene

ADVANTAGES OF THE ddRNAi PLATFORM:

Long-term therapeutic potential from a single administration Constant, steady-state levels of shRNA expression enables permanent silencing of mutated gene Provides permanent expression of wildtype gene where activity is necessary for function or viability

Silence a single gene or multiple genes simultaneously





BB-301 Silenced and Replaced PABPN1 Over a Broad Range of Doses in the A17 Mouse Model of OPMD

Varying levels of inhibition of PABPN1 expression, when coupled with partial replacement of wildtype PABPN1, significantly:

- Reduced INIs
- Increased muscle force generation
- Corrected disease phenotype

		"Silence"	"Replace"
BB-301 Dose (vg)		Inhibition of PABPN1	coPABPN1 Expression
7.50 x 10 ¹¹	Phase 1b Cohort 3 Analog	86%	63%
2.50 x 10 ¹¹	Phase 1b Cohort 2 Analog	75%	26%
5.00 x 10 ¹⁰	Phase 1b Cohort 1 Analog	31%	2%
1.00 x 10 ¹⁰		32%	1%
2.00 x 10 ⁹		14%	0%
4.00×10^{8}		0%	0%

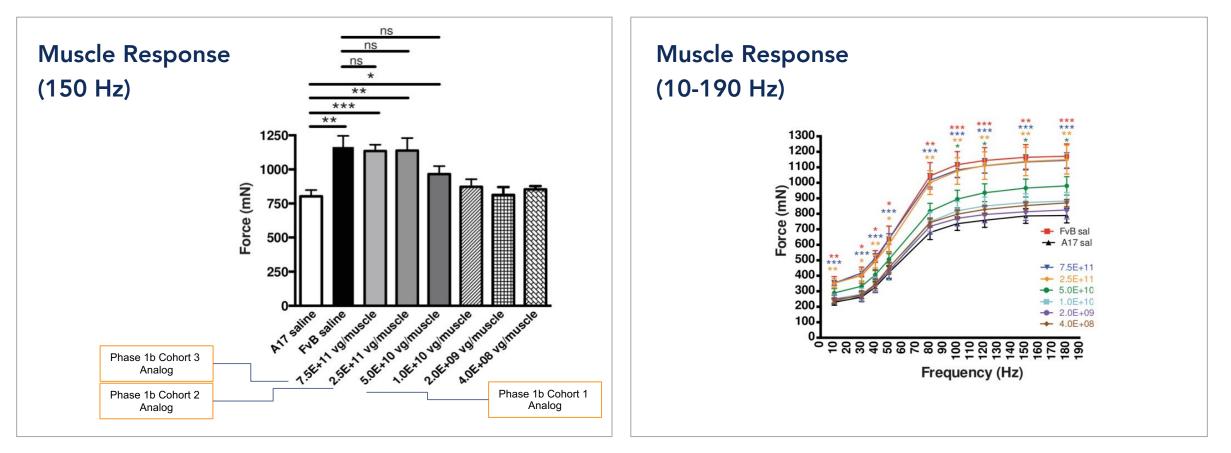
PABPN1 inhibition levels of ≥31% led to complete resolution of OPMD disease symptoms and correction of histological hallmarks

Data from Strings-Ufombah, et al., Molecular Therapy: Nucleic Acids, Vol. 24, 67-78, June 2021 VG = Viral Genomes



BB-301 Restored Muscle Strength to Wildtype Levels in A17 Model

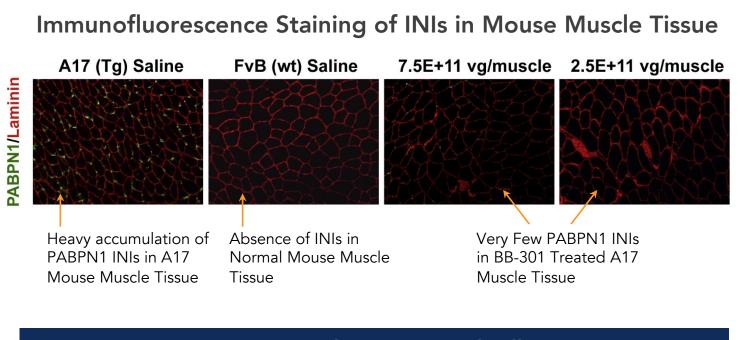
At 14-weeks post intramuscular administration of BB-301, statistically significant improvements in muscle strength and complete phenotypic correction were achieved at doses \geq 5.00 x 1010 vg



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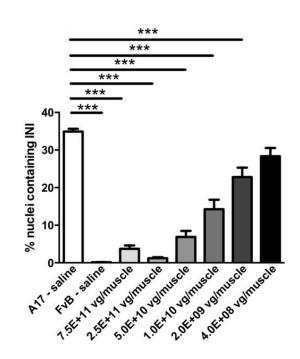


Dose-Dependent Resolution of INIs in Injected Muscles of A17 Mouse Model of OPMD



At higher doses, BB-301 eliminated nearly all PABPN1 INIs in A17 Mouse Muscle Tissue 14 weeks after intramuscular administration

Quantitative Analysis of INIs in Mouse Muscle Tissue





Data from Strings-Ufombah, et al., Molecular Therapy: Nucleic Acids, Vol. 24, 67-78, June 2021

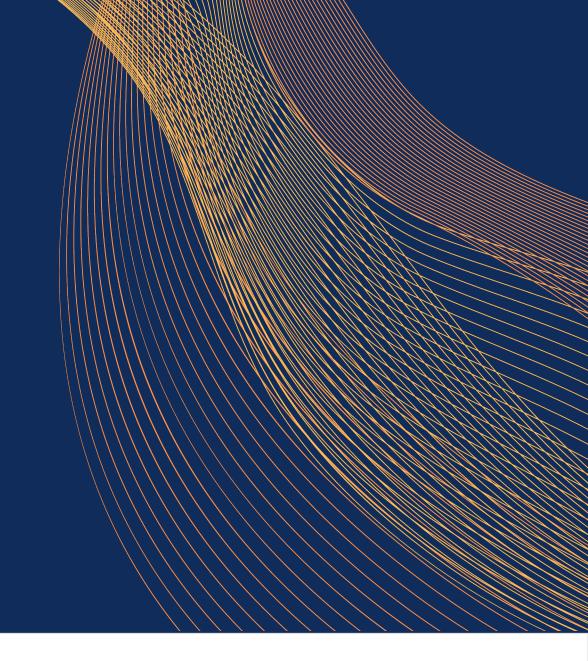
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The Rationale for BB-301 in OPMD

- In OPMD, the pharyngeal constrictor muscles are weakened and atrophic and, as a result, are unable to consistently exert the level of force required to support the propulsion of the food and liquid bolus
- In the preclinical efficacy studies for BB-301 carried out in the A17 mouse model, direct intramuscular injection of BB-301 facilitated increases in muscle cross-sectional area, increases in muscle mass, and increases in muscle force generating capacity relative to untreated A17 mice
- In the Beagle dog BB-301 dosing studies, intramuscular injections of BB-301 into the pharyngeal constrictor muscles supported dose-dependent tissue transduction, transgene expression, and target gene knockdown in the injected muscles
- Restoration of muscle fiber size and muscle force generating capacity in the weakened and atrophic pharyngeal constrictor muscles of OPMD patients following BB-301 administration would be expected to meaningfully enhance the ability of the pharyngeal constrictor muscles to support food bolus propulsion through the pharynx and towards the esophagus, reducing dysphagia in OPMD patients



BB-301 Clinical Development Program

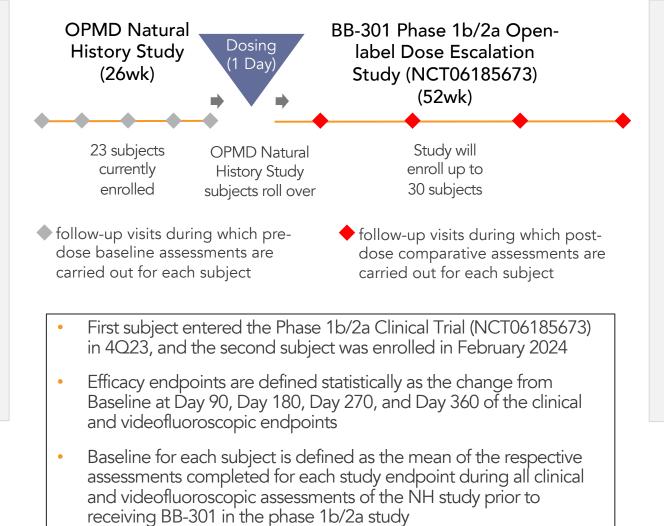




BB-301 Clinical Development Program and Key Efficacy Assessments

Characterization of OPMD subject disposition at baseline assessing:

- Rates of progression of dysphagia via quantitative radiographic measures of swallowing efficiency and pharyngeal constrictor muscle function (using Videofluoroscopic Swallowing Studies (VFSS)), and subjectreported oropharyngeal dysphagia
- 23 subjects enrolled as of January 2024



Endpoints

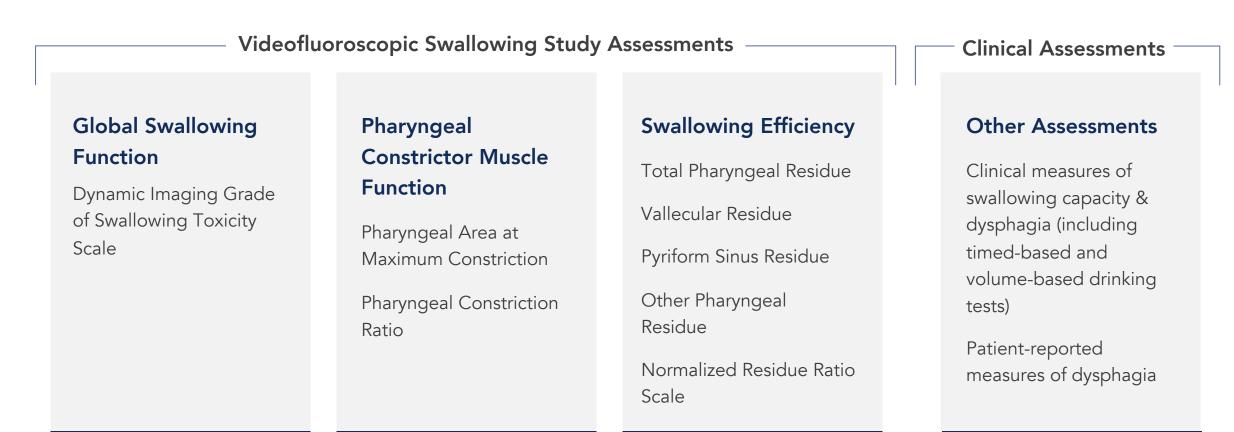
• **Primary:** Safety and tolerability

Secondary: VFSS measures of pharyngeal constrictor muscle function, swallowing efficiency, and subjectreported oropharyngeal dysphagia as compared to analogous assessments completed during the OPMD Natural History Study

• 2 subjects enrolled as of February 2024



Outcome Measures for the OPMD Natural History Study and the BB-301 Phase 1b/2a Clinical Study (NCT06185673)



Videofluoroscopic Swallowing Studies and Subject-Reported Outcome Measures: Clinical and Methodological Overview

Emily Plowman, PhD, CCC-SLP, FASHA



Key Videofluoroscopic and Subject-Reported Endpoints

The primary and secondary outcome measures for the OPMD Natural History Study and the BB-301 Phase 1b/2a Clinical Study (NCT06185673) facilitate serial characterization of:

- Pharyngeal Constrictor Muscle Function
- Swallowing Efficiency
- Subject-Reported Oropharyngeal Dysphagia

Swallowing tasks employed during the conduct of the VFSS are effort independent

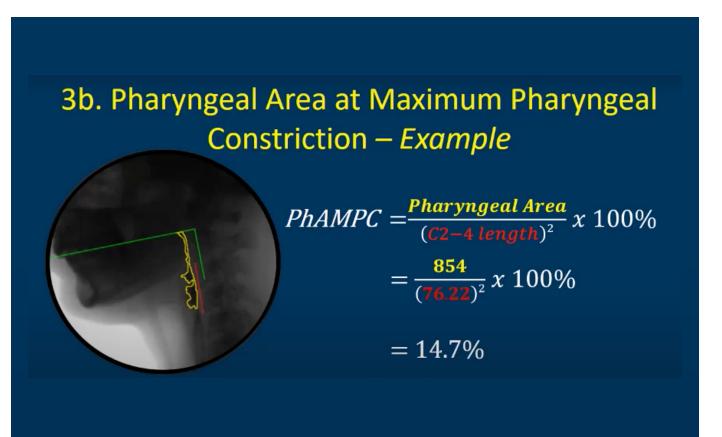
Videofluoroscopic swallowing studies are employed to complete several of the analyses outlined above, and the imaging results are reviewed and rated via a standardized, blinded process

- Blinded central review of the respective fluoroscopic images by multiple independent Speech Language Pathologists is used for all assessments
- Individual reviewers are assigned fluoroscopic studies to review and rate in a blinded manner (i.e., no knowledge of the other rater's scores, subject ID, task, consistency, volume, time point)
- The ratings are completed in full, and discrepancies are resolved during a consensus meeting



Pharyngeal Constrictor Muscle Function: PhAMPC

Pharyngeal constrictor muscle function as estimated by PhAMPC:



- C2-C4 length act as an anatomical scalar
- "Pharyngeal Area" measurement comprises the area of visible airspace or bolus at maximal constriction
- Measurement (yellow) occurs on the frame of tightest constriction of the pharyngeal lumen during the swallow
- Normal PhAMPC values span the range of 0% to 2.2% for the characteristic food and liquids that are evaluated in the swallowing tasks discussed in this presentation
- On the final follow-up visit prior to receiving BB-301, the first subject enrolled in the phase 1b study presented with PhAMPC values in the range of 15.8% to 24.2%



Swallowing Efficiency: Total Pharyngeal Residue

Swallowing Efficiency as measured by Total Pharyngeal Residue:



- C2-C4 length act as an anatomical scalar
- "Total Pharyngeal Residue" measurement comprises the amount of material remaining in the pharynx after the first swallow of the bolus
- Measurement (yellow, green, and blue) occurs on the first frame showing pyriform sinuses at lowest position
- Normal Total Pharyngeal Residue values should be close to zero
- On the final follow-up visit prior to receiving BB-301, the first subject enrolled in the phase 1b study presented with Total Pharyngeal Residue values in the range of 7.7% to 22.5%



Steele, C., et al. ASHA 2019 Convention Session on the ASPEKT C Method of Videofluoroscopy Analysis
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Subject-Reported Oropharyngeal Dysphagia: Sydney Swallow Questionnaire (SSQ)

Subject-reported oropharyngeal dysphagia as assessed by the SSQ:

- The SSQ is a self-report inventory assessing subjective symptoms of oropharyngeal dysphagia with strong content, construct, discriminant, and predictive validity and test-retest reliability in a range of patient populations
- The SSQ is a 17-item questionnaire which was developed to measure symptomatic severity of oral-pharyngeal dysphagia as reported by the affected subject
- The questionnaire uses a 100-mm long visual analogue scale for all but 1 question
- Possible scores range from 0 to 1700, with higher scores indicating greater swallowing difficulty
- Healthy Subjects without dysphagia present with a mean score of 59.0
- On the final follow-up visit prior to receiving BB-301, the first subject enrolled in the phase 1b study presented with an SSQ score of 1264

Szczesniak, M., et al, Dysphagia, 201435 ©2024 Benitec Biopharma | All Rights Reserved

4.	How much difficulty do you have swallowing <u>SOFT</u> (eg: mornays, scrambled egg, mashed potato)	foods?
	NO DIFFICULTY AT ALL	UNABLE TO SWALLOW AT ALL
5.	How much difficulty do you have swallowing <u>HARD</u> (eg: steak, raw fruit, raw vegetables)	foods?
	NO DIFFICULTY AT ALL	UNABLE TO SWALLOW AT ALL
6.	How much difficulty do you have swallowing <u>DRY</u> fo (eg: bread, biscuits, nuts)	oods?
	NO DIFFICULTY AT ALL	UNABLE TO SWALLOW AT ALL
12.	How long does it take you to eat an average meal ? Please <u>TICK ONE.</u> Less than 15 minutes About 15-30 minutes About 30-45 minutes About 45-60 minutes More than 60 minutes Unable to swallow at all	

Clinically Meaningful Improvements

Clinically meaningful improvement over the course of the BB-301 clinical development program will be defined by:

 Improvements in Subject-Reported Outcome assessments (i.e., reductions in the Sydney Swallow Questionnaire ["SSQ"] Scores) post BB-301 dose and Reductions in Total Pharyngeal Residue (i.e., reductions in the total food or liquid material remaining in the pharynx at the completion of swallowing) post BB-301 dose

Specific attention will be given to the following:

- Improvements in Subject-Reported Outcome assessments (i.e., SSQ Scores) post BB-301 dose that are
 accompanied by similar improvements in videofluoroscopic swallowing study assessments (i.e., reductions in
 PhAMPC% and/or reductions in Total Pharyngeal Residue across one or more consistencies of liquid and/or
 solid food)
- Improvements in the results of individual outcome measures post BB-301 dose as compared to the results of the analogous assessments conducted at Visit 1 of the OPMD Natural History Study (i.e., 6 to 12 months prior to the receipt of BB-301)



Preliminary BB-301 Phase 1b Clinical Data Summary for the First Subject (Day 90)

Jerel A. Banks, MD, PhD



Key Questions for Subject 1 of the Phase 1b Study

Subject 1 experienced disease progression during their enrollment in the Natural History Study

In this regard, several critical questions emerged with respect to the potential impact of BB-301:

- Would BB-301 slow progression, halt, or improve dysphagia in this study subject?
- Would the current, low dose of BB-301 be sufficiently biologically active to facilitate a benefit in this study subject? Would this benefit be visible at the first follow-up assessments conducted at Day 90 post-dose?
- Would BB-301 cause any Serious Adverse Events?

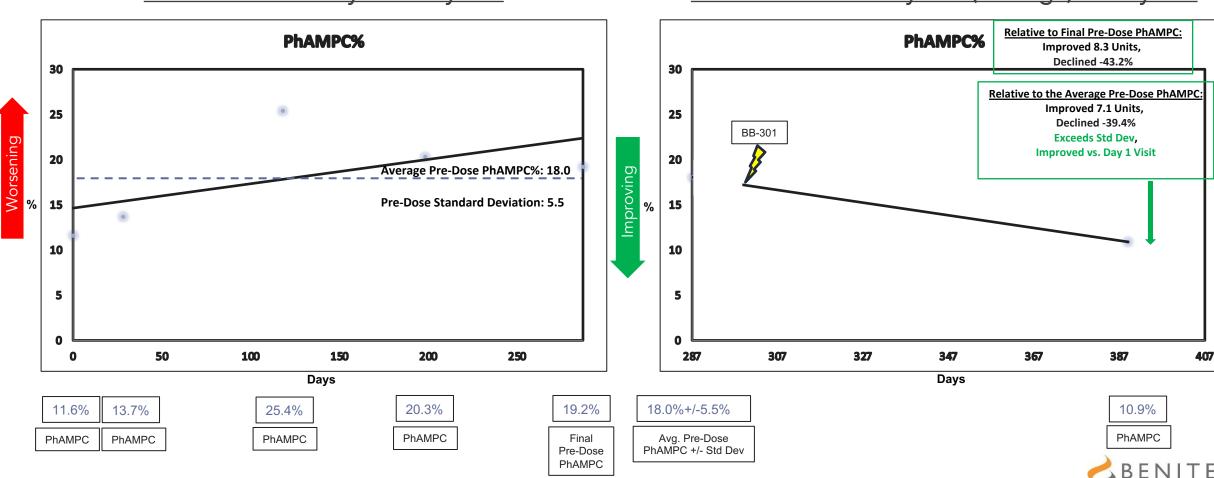


VFSS: PhAMPC Results



PhAMPC: Solid Food (Declines Below SD and NH Study Screening Visit at Day 0)

BB-301 administered on Day 296 (as designated by the yellow bolt)



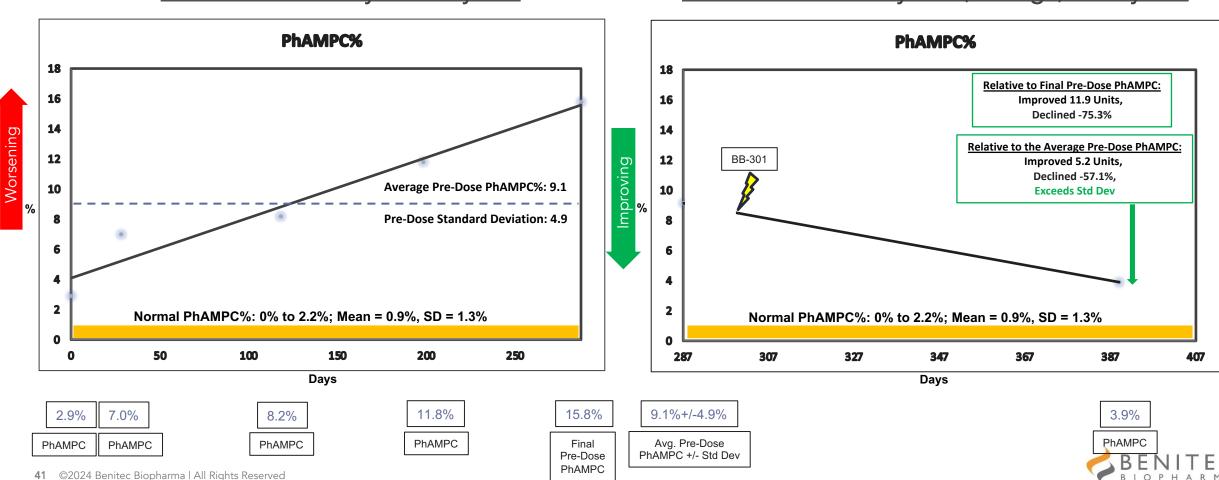
Pre-Dose VFSS: Day 0 to Day 287

Post-Dose VFSS: Day 287 (Average) to Day 389

silencing genes for life

PhAMPC: Thin Liquid, 5 mL (Declines Below SD Post-Dose)

BB-301 administered on Day 296 (as designated by the yellow bolt)



Pre-Dose VFSS: Day 0 to Day 287

Post-Dose VFSS: Day 287 (Average) to Day 389

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PhAMPC: Moderately Thick Liquid

BB-301 administered on Day 296 (as designated by the yellow bolt)

PhAMPC% PhAMPC% 35 35 **Relative to Final Pre-Dose PhAMPC:** Improved 7.5 Units, 30 30 Declined -33.6% Worsening % BB-301 25 25 **Relative to the Average Pre-Dose PhAMPC:** Improved 5.2 Units, Average Pre-Dose PhAMPC%: 20.0 Improving Declined -26.0% 20 20 % Pre-Dose Standard Deviation: 9.1 15 15 10 10 5 5 Normal PhAMPC%: 0% to 1.8%; Mean = 0.8%, SD = 1.0% Normal PhAMPC%: 0% to 1.8%; Mean = 0.8%, SD = 1.0% 0 0 250 0 50 100 150 200 287 307 327 347 367 387 407 Days Days 20.0%+/-9.1% 8.2% 14.7% 22.6% 32.4% 22.3% 14.8% PhAMPC PhAMPC Final Avg. Pre-Dose PhAMPC PhAMPC PhAMPC Pre-Dose PhAMPC +/- Std Dev PhAMPC

Pre-Dose VFSS: Day 0 to Day 287

Post-Dose VFSS: Day 287 (Average) to Day 389

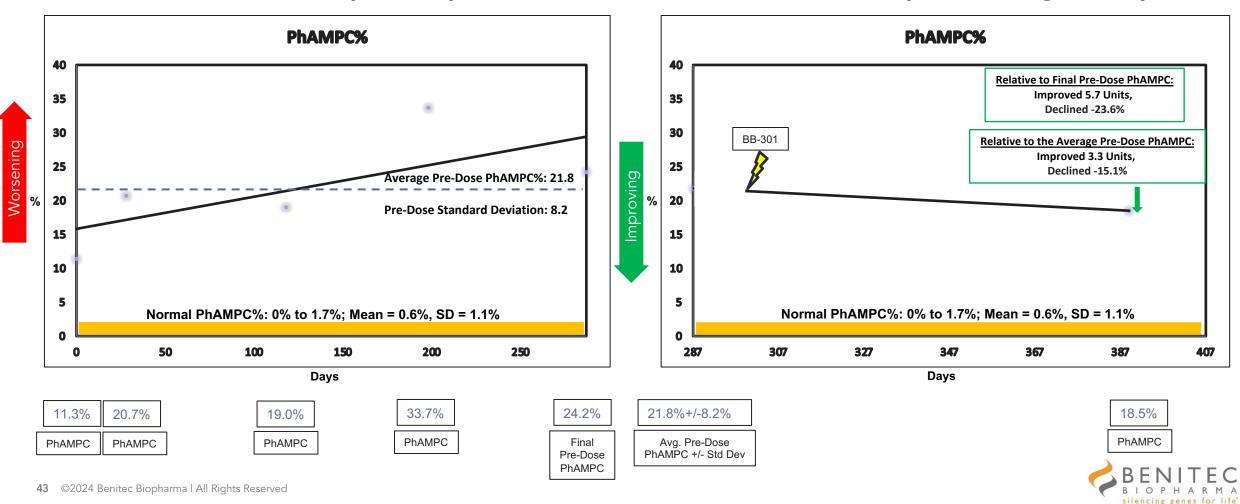
silencing genes for

PhAMPC: Extremely Thick Liquid

Pre-Dose VFSS: Day 0 to Day 287

BB-301 administered on Day 296 (as designated by the yellow bolt)

Post-Dose VFSS: Day 287 (Average) to Day 389



Improvement was Observed Across all PhAMPC Assessments

Average Pre-Dose PhAMPC Values vs. Day 90 PhAMPC Values					
Radiograp	hic Assessments of Pharyngea	I Area at Maximum Constriction to D	etermine Pharyngeal Constrictor Muscle Function During Swallowing		
	OPMD Natural History Study	Phase 1b/2a BB-301 Dosing Study			
	Pre-Dose Period	Post-Dose Period			
Barium-Containing	Average PhAMPC	Day 90 PhAMPC	Improvement in Pharyngeal Closure		
Food Items	During Swallowing	During Swallowing	During Swallowing After BB-301 Dose		
Thin Liquid	9.1	3.9	5.2 Units (-57.1%)		
Moderately Thick Liquid	20.0	14.8	5.2 Units (-26.0%)		
Extremely Thick Liquid	21.8	18.5	3.3 Units (-15.1%)		
Solid Food	18.0	10.9	7.1 Units (-39.4%)		

Final Pre-Dose PhAMPC Values vs. Day 90 PhAMPC Values

Radiographic Assessments of Pharyngeal Area at Maximum Constriction to Determine Pharyngeal Constrictor Muscle Function During Swallowing

	OPMD Natural History Study	Phase 1b/2a BB-301 Dosing Study	
	Pre-Dose Period	Post-Dose Period	
Barium-Containing	Final Pre-Dose PhAMPC	Day 90 PhAMPC	Improvement in Pharyngeal Closure
Food Items	During Swallowing	During Swallowing	During Swallowing After BB-301 Dose
Thin Liquid	15.8	3.9	11.9 Units (-75.3%)
Moderately Thick Liquid	22.3	14.8	7.5 Units (-33.6%)
Extremely Thick Liquid	24.2	18.5	5.7 Units (-23.6%)
Solid Food	19.2	10.9	8.3 Units (-43.2%)

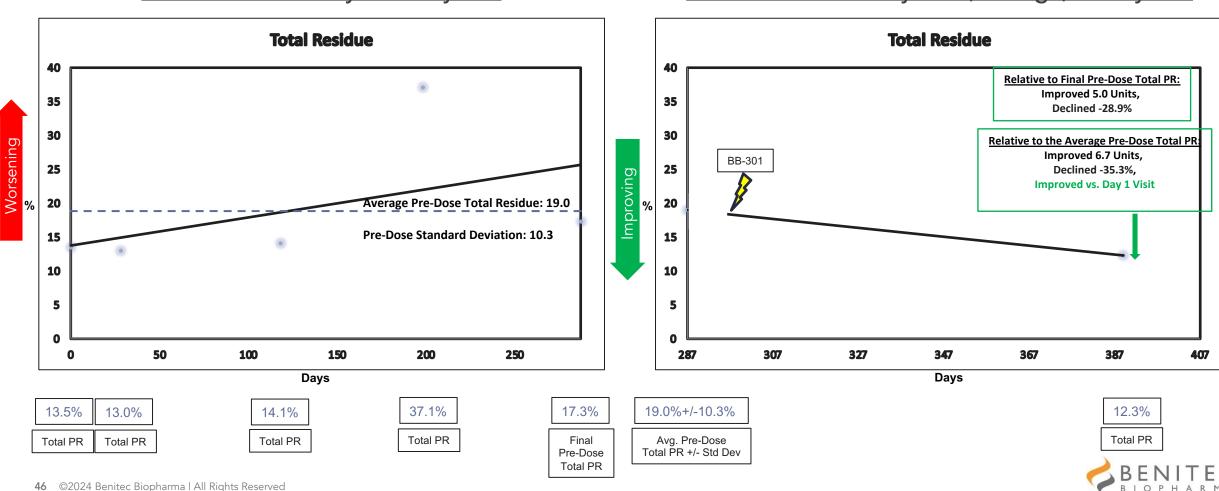


VFSS: Total Pharyngeal Residue Results



Total Pharyngeal Residue: Solid Food (Declines Below NH Study *Screening Visit at Day 0*)

BB-301 administered on Day 296 (as designated by the yellow bolt)



Pre-Dose VFSS: Day 0 to Day 287

Post-Dose VFSS: Day 287 (Average) to Day 389

silencing genes for

Total Pharyngeal Residue: Thin Liquid, 5 mL (Declines Below SD and NH Study Screening Visit at Day 0)

Total Residue Total Residue Relative to Final Pre-Dose Total PR: 9 9 Improved 6.8 Units, Declined -88.3% 8 8 Relative to the Average Pre-Dose Total PR: 7 7 Improved 4.0 Units, Worsening % Declined -81.6% BB-301 6 6 **Exceeds Std Dev.** Improving Improved vs. Day 1 Visit Average Pre-Dose Total Residue: 4.9 5 5 % **Pre-Dose Standard Deviation: 2.2** 4 3 3 2 2 1 1 0 0 50 100 150 200 250 287 307 327 347 367 387 0 407 Days Days 4.9%+/-2.2% 2.6% 5.7% 2.6% 5.9% 7.7% 0.9% Total PR Total PR Total PR Final Avg. Pre-Dose Total PR Total PR Total PR +/- Std Dev Pre-Dose Total PR

Pre-Dose VFSS: Day 0 to Day 287

BB-301 administered on Day 296 (as designated by the yellow bolt)

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Post-Dose VFSS: Day 287 (Average) to Day 389

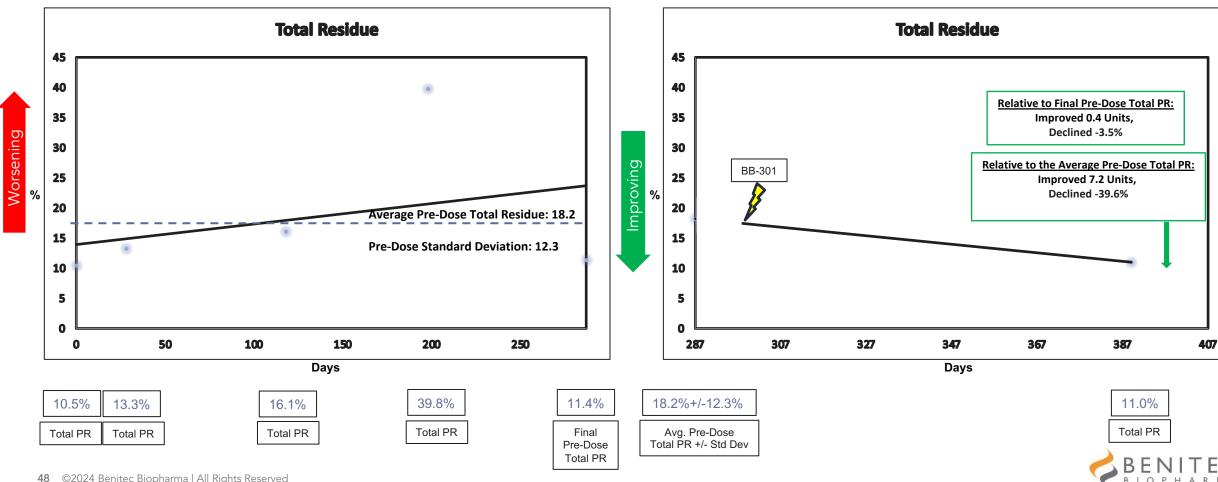
Total Pharyngeal Residue: Moderately Thick Liquid

Pre-Dose VFSS: Day 0 to Day 287

BB-301 administered on Day 296 (as designated by the yellow bolt)

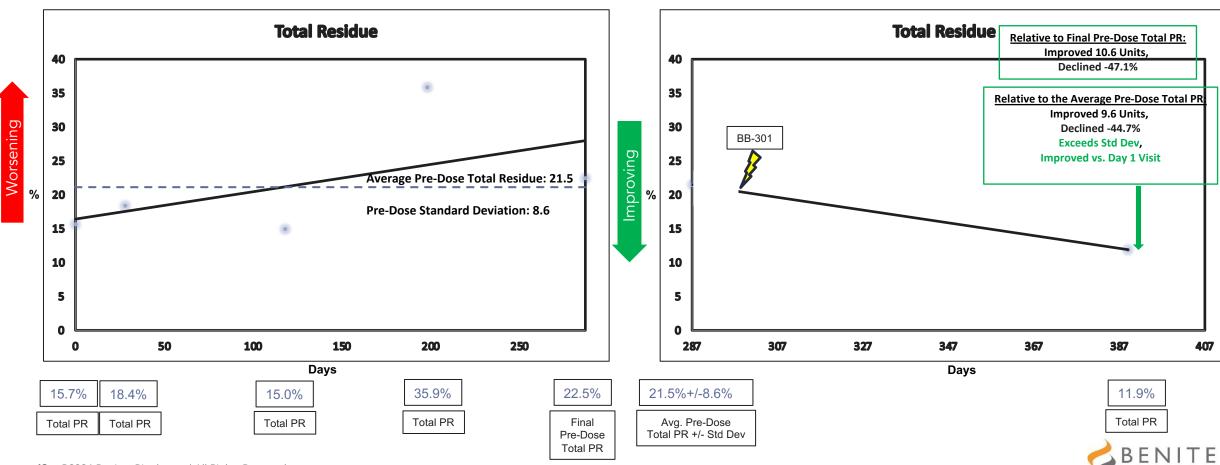
Post-Dose VFSS: Day 287 (Average) to Day 389

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Total Pharyngeal Residue: Extremely Thick Liquid (Declines Below SD and NH Study Screening Visit at Day 0)

BB-301 administered on Day 296 (as designated by the yellow bolt)



Pre-Dose VFSS: Day 0 to Day 287

Post-Dose VFSS: Day 287 (Average) to Day 389

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Improvement was Observed Across all Total Pharyngeal Residue Assessments

Average Pre-Dose Total Pharyngeal Residue Values vs. Day 90 Total Pharyngeal Residue Values					
<u>Radiog</u>	raphic Assessments of Pharyng	geal Residue (i.e., food or liquid mate	erial) Remaining Post-Swallow to Determine Swallowing Efficiency		
	OPMD Natural History Study	Phase 1b/2a BB-301 Dosing Study			
	Pre-Dose Period Post-Dose Period				
Barium-Containing	Average Pharyngeal Residue	Day 90 Pharyngeal Residue	Reduction in Post-Swallow		
Food Items	Remaining Post-Swallow	Remaining Post-Swallow	Pharyngeal Residue After BB-301 Dose		
Thin Liquid	4.9	0.9	4.0 Units (-81.6%)		
Moderately Thick Liquid	18.2	11.0	7.2 Units (-39.6%)		
Extremely Thick Liquid	21.5	11.9	9.6 Units (-44.7%)		
Solid Food	19.0	12.3	6.7 Units (-35.3%)		

Final Pre-Dose Total Pharyngeal Residue Values vs. Day 90 Total Pharyngeal Residue Values

Radiographic Assessments of Pharyngeal Residue (i.e., food or liquid material) Remaining Post-Swallow to Determine Swallowing Efficiency

	OPMD Natural History Study	Phase 1b/2a BB-301 Dosing Study	
	Pre-Dose Period	Post-Dose Period	
Barium-Containing	Final Pre-Dose Pharyngeal	Day 90 Pharyngeal Residue	Reduction in Post-Swallow
Food Items	Residue Remaining Post-Swallow	Remaining Post-Swallow	Pharyngeal Residue After BB-301 Dose
Thin Liquid	7.7	0.9	6.8 Units (-88.3%)
Moderately Thick Liquid	11.4	11.0	0.4 Units (-3.5%)
Extremely Thick Liquid	22.5	11.9	10.6 Units (-47.1%)
Solid Food	17.3	12.3	5.0 Units (-28.9%)



Cold Water Timed Drinking Test (CWDT) Results

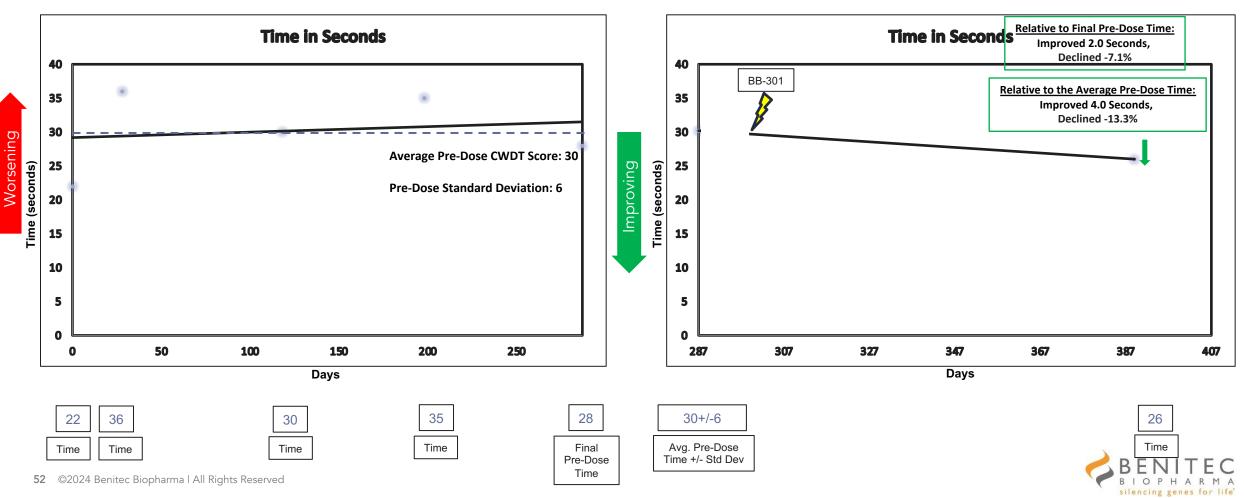


Timed Drinking Test: CWDT

Pre-Dose Results: Day 0 to Day 287

BB-301 administered on Day 296 (as designated by the yellow bolt)

Post-Dose VFSS: Day 287 (Average) to Day 389



Improvement was Observed for the CWDT Assessment

Average Pre-Dose CWDT Values vs. Day 90 CWDT Values

	Cold Water Timed D	<u> Prinking Test: Time in Seconds the Su</u>
	OPMD Natural History Study	Phase 1b/2a BB-301 Dosing Study
	Pre-Dose Period	Post-Dose Period
Barium-Containing	Average Time (sec) Recorded	Day 90 Time (sec) Recorded
Food Items	for the Study Subject	for the Study Subject
Thin Liquid	30	26

Final Pre-Dose CWDT Values vs. Day 90 CWDT Values				
<u>Co</u>	Cold Water Timed Drinking Test: Time in Seconds the Subject Requires to Consume 80 mL of Cold Water			
OPMD Natural History Study Phase 1b/2a BB-301 Dosing Study				
	Pre-Dose Period	Post-Dose Period		
Barium-Containing	Final Pre-Dose Time (sec) Recorded	Day 90 Time (sec) Recorded	Reduction in Total Drinking Time (sec)	
Food Items	for the Study Subject	for the Study Subject	After BB-301 Dose	
Thin Liquid	28	26	2.0 Seconds (-7.1%)	



SSQ Results

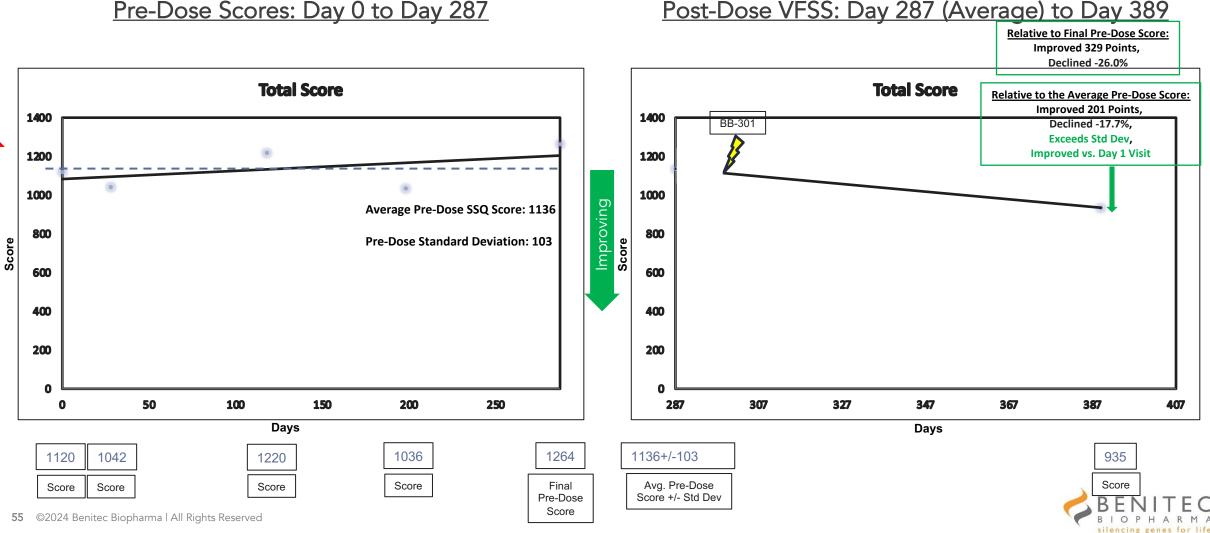


Subject Reported Outcomes: SSQ (Declines Below SD) and NH Study Screening Visit at Day 0)

Pre-Dose Scores: Day 0 to Day 287

Worsening

BB-301 administered on Day 296 (as designated by the yellow bolt)



Improvement was Observed for the SSQ Assessment

Average Pre-Dose SSQ Scores vs. Day 90 SSQ Scores

Subject Reported Outome Measure: Sydney Swallow Questionnaire or "SSQ" (17-Question Self-Report Inventory Assessing Subjective Symptoms of Oropharyngeal Dysphagia)

Reduction in SSQ Score <u>After BB-301 Dose</u> 201 Points (-17.7%)

OPMD Natural History Study Phase 1b/2a BB-301 Dosing Study

Pre-Dose Period	Post-Dose Period
Average SSQ Score for	Day 90 SSQ Score
the Study Subject	for the Study Subject
1,136	935
	ll

Final Pre-Dose SSQ Scores vs. Day 90 SSQ Scores

Subject Reported Outome Measure: SSQ (17-Question Self-Report Inventory Assessing Subjective Symptoms of Oropharyngeal Dysphagia)

OPMD Natural History Study	Phase 1b/2a BB-301 Dosing Study	
Pre-Dose Period	Post-Dose Period	
Final Pre-Dose SSQ Score for <u>the Study Subject</u>	Day 90 SSQ Score for the Study Subject	Reduction in SSQ Score <u>After BB-301 Dose</u>
1,264	935	329 Points (-26.0%)



Clinically Meaningful Improvements

Clinically meaningful improvement over the course of the BB-301 clinical development program will be defined by:

 Improvements in Subject-Reported Outcome assessments (i.e., reductions in the Sydney Swallow Questionnaire ["SSQ"] Scores) post BB-301 dose and Reductions in Total Pharyngeal Residue (i.e., reductions in the total food or liquid material remaining in the pharynx at the completion of swallowing) post BB-301 dose

Specific attention will be given to the following:

- Improvements in Subject-Reported Outcome assessments (i.e., SSQ Scores) post BB-301 dose that are
 accompanied by similar improvements in videofluoroscopic swallowing study assessments (i.e., reductions in
 PhAMPC% and/or reductions in Total Pharyngeal Residue across one or more consistencies of liquid and/or
 solid food)
- Improvements in the results of individual outcome measures post BB-301 dose as compared to the results of the analogous assessments conducted at Visit 1 of the OPMD Natural History Study (i.e., 6 to 12 months prior to the receipt of BB-301)



Our Learnings for Subject 1 of the Phase 1b Study

Subject 1 experienced disease progression during their enrollment in the Natural History Study

After dosing:

- BB-301 slowed improved dysphagia in this study subject
- The current, low dose of BB-301 was sufficiently biologically active to facilitate a benefit in this study subject and these benefits were visible at the first follow-up assessments conducted at Day 90 post-dose
- BB-301 did not cause any Serious Adverse Events



Improvement was Observed Across All Assessments

Radiographic Assessments of Pharyngeal Area at Maximum Constriction to Determine Pharyngeal Constrictor Muscle Function During Swallowing				
	OPMD Natural History Study	Phase 1b/2a BB-301 Dosing Study		
	Pre-Dose Period	Post-Dose Period		
Barium-Containing	Average PhAMPC	Day 90 PhAMPC	Improvement in Pharyngeal Closure	
Food Items	During Swallowing	During Swallowing	During Swallowing After BB-301 Dose	
Thin Liquid	9.1	3.9	5.2 Units (-57.1%)	
Moderately Thick Liquid	20.0	14.8	5.2 Units (-26.0%)	
Extremely Thick Liquid	21.8	18.5	3.3 Units (-15.1%)	
Solid Food	18.0	10.9	7.1 Units (-39.4%)	
Radios	raphic Assessments of Pharyng	eal Residue (i.e., food or liquid mate	erial) Remaining Post-Swallow to Determine Swallowing Efficiency	
	OPMD Natural History Study	Phase 1b/2a BB-301 Dosing Study		
	Pre-Dose Period	Post-Dose Period		
Barium-Containing	Average Pharyngeal Residue	Day 90 Pharyngeal Residue	Reduction in Post-Swallow	
Food Items	Remaining Post-Swallow	Remaining Post-Swallow	Pharyngeal Residue After BB-301 Dose	
Thin Liquid	4.9	0.9	4.0 Units (-81.6%)	
Moderately Thick Liquid	18.2	11.0	7.2 Units (-39.6%)	
Extremely Thick Liquid	21.5	11.9	9.6 Units (-44.7%)	
Solid Food	19.0	12.3	6.7 Units (-35.3%)	
Subject Reported Outon	ne Measure: Sydney Swallow Q	uestionnaire or "SSQ" (17-Question S	Self-Report Inventory Assessing Subjective Symptoms of Oropharyngeal Dysphagia)	
	OPMD Natural History Study	Phase 1b/2a BB-301 Dosing Study		
	Pre-Dose Period	Post-Dose Period		
	Average SSQ Score for	Day 90 SSQ Score	Reduction in SSQ Score	
	the Study Subject	for the Study Subject	After BB-301 Dose	
	1,136	935	201 Points (-17.7%)	
	Cold Water Timed D	<u> Drinking Test: Time in Seconds the Su</u>	ubject Requires to Consume 80 mL of Cold Water	
	OPMD Natural History Study	Phase 1b/2a BB-301 Dosing Study		
	Pre-Dose Period	Post-Dose Period		
Barium-Containing	Average Time (sec) Recorded	Day 90 Time (sec) Recorded	Reduction in Total Drinking Time (sec)	
Food Items	for the Study Subject	for the Study Subject	After BB-301 Dose	
Thin Liquid	30	26	4.0 Seconds (-13.3%)	



Improvement was Observed Across all Assessments

Radiographic Assessme	nts of Pharyngeal Area at Maximum C	onstriction to Determine Pharyngeal	Constrictor Muscle Function During Swallowing
	OPMD Natural History Study	Phase 1b/2a BB-301 Dosing Study	
	Pre-Dose Period	Post-Dose Period	
Barium-Containing	Final Pre-Dose PhAMPC	Day 90 PhAMPC	Improvement in Pharyngeal Closure
Food Items	During Swallowing	During Swallowing	During Swallowing After BB-301 Dose
Thin Liquid	15.8	3.9	11.9 Units (-75.3%)
Moderately Thick Liquid	22.3	14.8	7.5 Units (-33.6%)
Extremely Thick Liquid	24.2	18.5	5.7 Units (-23.6%)
Solid Food	19.2	10.9	8.3 Units (-43.2%)
Radiographic Assessn	nents of Pharyngeal Residue (i.e., food	or liquid material) Remaining Post-	Swallow to Determine Swallowing Efficiency
	OPMD Natural History Study	Phase 1b/2a BB-301 Dosing Study	
	Pre-Dose Period	Post-Dose Period	
Barium-Containing	Final Pre-Dose Pharyngeal	Day 90 Pharyngeal Residue	Reduction in Post-Swallow
Food Items	Residue Remaining Post-Swallow	Remaining Post-Swallow	Pharyngeal Residue After BB-301 Dose
Thin Liquid	7.7	0.9	6.8 Units (-88.3%)
Moderately Thick Liquid	11.4	11.0	0.4 Units (-3.5%)
Extremely Thick Liquid	22.5	11.9	10.6 Units (-47.1%)
Solid Food	17.3	12.3	5.0 Units (-28.9%)
Subject Reported Ou	tome Measure: SSQ (17-Question Self	-Report Inventory Assessing Subjecti	ve Symptoms of Oropharyngeal Dysphagia)
	OPMD Natural History Study	Phase 1b/2a BB-301 Dosing Study	
	Pre-Dose Period	Post-Dose Period	
	Final Pre-Dose SSQ Score for	Day 90 SSQ Score	Reduction in SSQ Score
	the Study Subject	for the Study Subject	After BB-301 Dose
	1,264	935	329 Points (-26.0%)
Col	d Water Timed Drinking Test: Time in		isume 80 mL of Cold Water
	OPMD Natural History Study	Phase 1b/2a BB-301 Dosing Study	
	Pre-Dose Period	Post-Dose Period	
Barium-Containing	Final Pre-Dose Time (sec) Recorded	Day 90 Time (sec) Recorded	Reduction in Total Drinking Time (sec)
Food Items	for the Study Subject	for the Study Subject	After BB-301 Dose
Thin Liquid	28	26	2.0 Seconds (-7.1%)



Preliminary Observations and Conclusions for Subject 1

- Subject 1 experienced progressive worsening of dysphagia during the pre-dose period as demonstrated by the videofluoroscopic swallowing study (VFSS) results, the cold water timed drink test results, and the subject-reported outcome results
- Following the administration of BB-301, at the Day 90 time-point, Subject 1 demonstrated improvements in key clinical and videofluoroscopic assessments as compared to the average pre-dose assessments
- The most significant VFSS improvements at Day 90 were observed for swallowing tasks centered on the evaluation of pharyngeal constrictor muscle function and swallowing efficiency in the context of the consumption of:
 - Solid foods (e.g., crackers)
 - Thick, non-solid foods (e.g., yogurt or pudding)
 - Thin liquids
- The VFSS improvements observed for pharyngeal constrictor muscle function and swallowing efficiency in the context of the consumption of thin liquids, solid foods (e.g., crackers) and thick, non-solid foods (e.g., yogurt or pudding) correlated with a significant improvement in the key subject-reported outcome measure (i.e., Sydney Swallow Questionnaire) indicating an improvement in swallowing function as reported by Subject 1



Clinical Safety Update for the BB-301 Phase 1b/2a Clinical Study (NCT06185673)

- The benign safety profile for Subject 1 (the first Study Subject dosed with BB-301) remains unchanged from that which has been reviewed by the Data Safety Monitoring Board
- During the first week following the administration of BB-301, Subject 1 experienced heartburn
- The heartburn was attributed to the prophylactic corticosteroids that are administered per Protocol to each Study Subject for Day -1 (the day preceding BB-301 dosing), Day 1 (the day of BB-301 dosing), and the 56 days following dosing
- The heartburn was managed with a short course of prescription medication, and the heartburn resolved over the following three days
- The use of a prescription medication to alleviate the heartburn renders the heartburn a Grade 2 Adverse Event



Clinical Safety Update for the BB-301 Phase 1b/2a Clinical Study (NCT06185673), Continued

- During the first week following the administration of BB-301, Subject 2 (the second Study Subject dosed with BB-301) experienced heartburn
- The heartburn was attributed to the prophylactic corticosteroids that are administered per Protocol to each Study Subject for Day -1 (the day preceding BB-301 dosing), Day 1 (the day of BB-301 dosing), and the 56 days following dosing
- The heartburn was managed prophylactically with a prescription medication over a 14-day period
- The use of a prescription medication to alleviate the heartburn renders the heartburn a Grade 2 Adverse Event (see **Figure 1**)

The clinical seve	erity of an AE will be graded using the NCI CTCAE v5.0.
Grade 1	Mild; asymptomatic or mild symptoms; clinical or diagnostic observations only; intervention not indicated.
Grade 2	Moderate; minimal, local or noninvasive intervention indicated; limiting age appropriate instrumental activities of daily living (ADL).
Grade 3	Severe or medically significant but not immediately life-threatening; hospitalization or prolongation of hospitalization indicated; disabling; limiting self-care ADL.
Grade 4	Life-threatening consequences; urgent intervention indicated.
Grade 5	Death related to AE.

Figure 1



Clinical Safety Update for the BB-301 Phase 1b/2a Clinical Study (NCT06185673), Continued

- According to the Phase 1b/2a Study Protocol, any Grade 2 Adverse Event not resolving within 14 days, assessed to be possibly related to the investigational product (see Figure 2) is characterized as a Dose Limiting Toxicity (DLT) and requires the expansion of the size of a Cohort from 3 Subjects to 6 Subjects
- In this regard, the 14-day prophylactic management of the subject's heartburn with a prescription medication triggers the expansion of the size of the Cohort 1 from 3 Subjects to 6 Subjects

Not related	An AE with sufficient evidence to accept that there is no causal relationship to study drug administration and/or study procedure (e.g., no temporal relationship to drug administration, because the drug was administered after onset of event; investigation shows that the drug was not administered; another cause was proven.)	
Unlikely related	An AE, including laboratory test abnormality, with a temporal relationship to study drug administration and/or study procedure that makes a causal relationship improbable, and in which other drugs, events, or underlying disease provide plausible explanations.	
Potentially related	An AE with a reasonable time sequence to administration of the study drug and/or study procedure, but that could also be explained by concurrent disease or other drugs or events.	
Probably related	An AE with evidence to suggest a causal relationship, and the influence of other factors is unlikely. The clinical event, including an abnormal laboratory test result, occurs within a reasonable time after administration of the study drug or study procedure, is unlikely to be attributed to concurrent disease, other drugs or chemicals, or other event.	
Definitely related	An AE occurring in a plausible time relationship to study drug administration and that cannot be explained by a concurrent disease or other drugs or events.	
		1

Figure 2



Upcoming Milestones

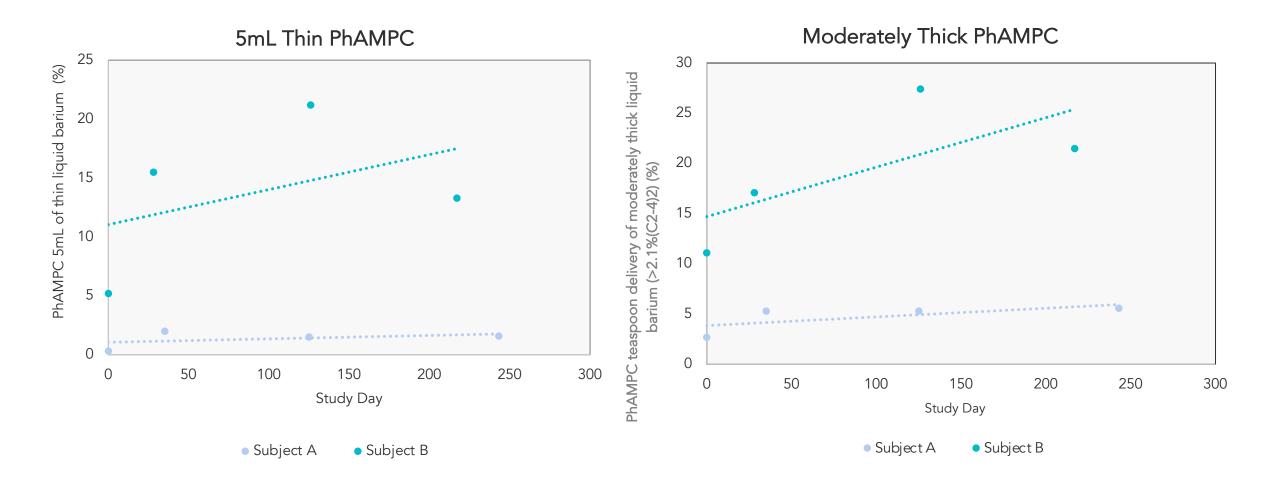
- Updates on additional subjects are anticipated later in 2024
- Updates on additional subjects at higher doses, and with longer durations of follow-up, are anticipated in 2025
- By year-end 2025, Benitec would potentially have clinical follow-up data for multiple study subjects for up to 12 months in Dose Cohort 1 and up to 9 months in Dose Cohort 2
- If clinical safety and efficacy data continue to evolve favorably over the first two dose cohorts, then, by early 2026 Benitec would plan to review the clinical data set with the FDA and inquire about plans for a pivotal study



Appendix

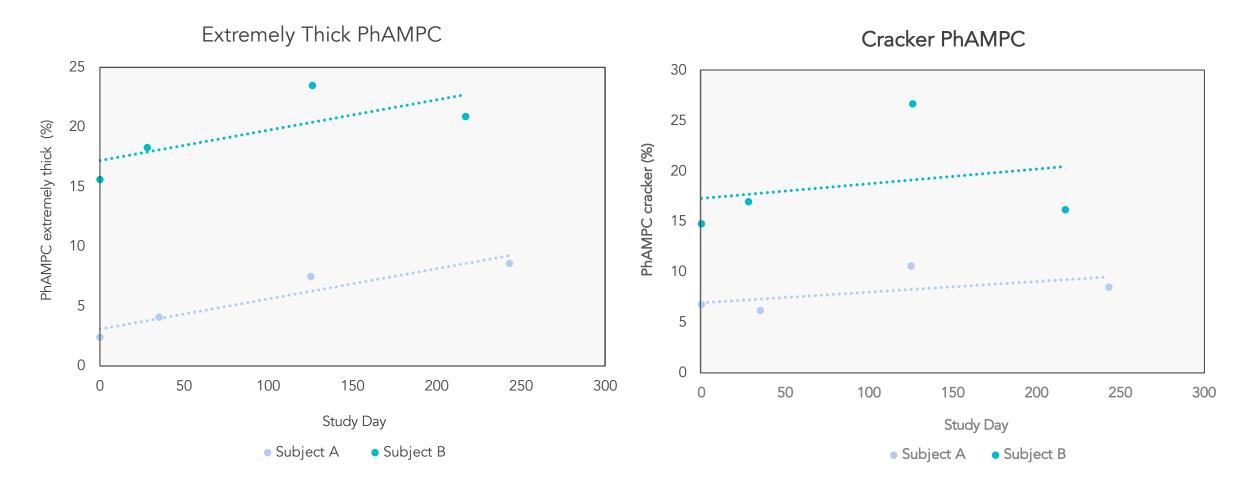


PhAMPC Natural History Assessments for Other Enrolled Subjects



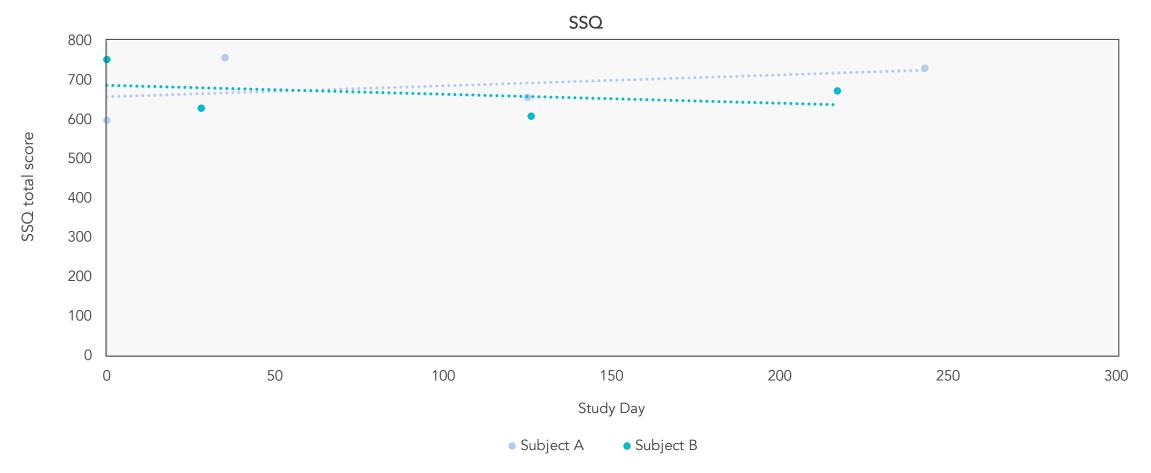


PhAMPC Natural History Assessments for Other Enrolled Subjects



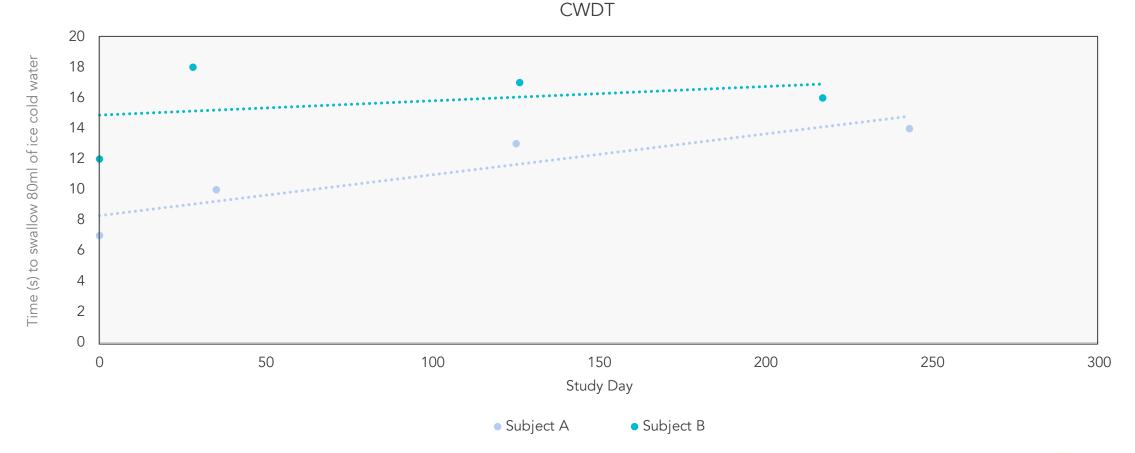


Sydney Swallow Questionnaire Natural History Assessments for Other Enrolled Subjects





Cold Water Timed Drinking Test Natural History Assessments for Other Enrolled Subjects





For additional information contact: Irina Koffler LifeSci Advisors, LLC 917-734-7387 ikoffler@lifesciadvisors.com

