# WWW.CUREVCP.ORG

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# 2021 ANNUAL REPORT







1 in 10

AMERICANS

30 million

IN USA

400 million

GLOBALLY ARE AFFECTED
BY RARE DISEASE



RARE DISEASES
IMPACT MORE
PEOPLE THAN
CANCER & AIDS
COMBINED



65%
OF RARE DISEASES ARE ASSOCIATED WITH A REDUCED LIFESPAN



95%
OF ALL RARE DISEASES DO
NOT HAVE A SINGLE FDA
APPROVED DRUG

**TREATMENT** 

Data courtesy of Global Genes



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# THANK YOU ALL PARTICIPANTS IN OUR STUDIES!







### **CEO LETTER**

During our historic VCP Scientific Conference in September 2021, numerous presentations from pre-clinical researchers were presented on the functional understanding of VCP. During one of the last presentations, one of the researchers commented, "perhaps we shouldn't be talking about all the things that VCP does, but rather what VCP doesn't do?" Everyone laughed, but the comment smacked me in the face of how little is still understood about what the valosin-containing protein regulates and facilitates within our bodies and how to best address our disease gene mutation.

As a patient myself, I understand the urgency for speed in research. Our goal at Cure VCP Disease remains to let the scientists do their work, and be available to encourage and provide resources to optimize their work. We hosted the VCP Scientific Conference for this exact reason, to



Lindsay Alfano, PI at Nationwide with Nathan Peck

encourage the sharing of knowledge about VCP and collaboration among the research community. We are driving collaborations between institutions and industry as well as pressing scientific studies faster.

Nowhere was that more evident than our groundbreaking VCP Natural History Study with Nationwide Children's Hospital in Columbus, Ohio. Once the contract was signed, in less than one month, we were up and running with patients enrolled and traveling to Columbus. We have already entered the sixth month measurement period for that study and though the study has another six months to go, we are already learning unique things about the progression of VCP disease.

We didn't stop there though! A big topic in the rare disease community is sensitivity of measures in clinical trials. We would hate to see a therapeutic work, but not be able to measure the effectiveness in a rapid enough timeframe. That is why we have partnered with Casimir, a company started by concerned parents of Duchenne Muscular Dystrophy patients. With their leadership, we have started a second study that will run in parallel with the Nationwide Study to learn even more about the progression of VCP disease as well as compare and



Meeting for dinner with University of California, Irvine research team

contrast the measures' outcomes and observations between the two studies.

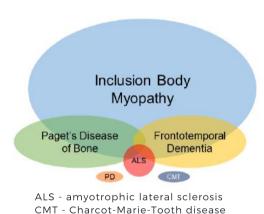
We were also excited that our successful work was recognized by the Chan Zuckerberg Institute's Rare As One Project. In November, it was announced that we would receive a funding grant of \$600,000, over a 3-year period to support Cure VCP Disease in the advancement of an international, patient-led collaborative research network in VCP disease. We are excited for big things in 2022!

With Hope,

Nathan Peck

# ABOUT CURE VCP DISEASE

This annual report aims to share some of our significant accomplishments for Cure VCP Disease in 2021. During a continued global pandemic, we have had an active and productive year towards driving collaborative research, increasing patient identification, and providing educational opportunities for the VCP disease community.



PD - Parkinson's disease

### **ABOUT VCP DISEASE**

VCP (Valosin containing protein, p97 gene) disease is a rare genetic mutation affecting 500-2,000 patients globally. Also known as IBMPFD and MSP1, the disease is autosomal dominant (meaning that a patient has a 50% chance of passing to offspring), adult-onset and can affect any combination of a patient's muscular, nervous and skeletal systems. Symptoms usually present in a patient's late 30's to early 40's. The disease is fatal and no treatments exist for the muscular and nervous system diseases.

# CURE VCP DISEASE MISSION (EST. 2018)

Cure VCP Disease, Inc. was formed in 2018 to cure diseases related to valosin-containing protein (VCP) associated multisystem proteinopathy (MSP), also known as IBMPFD (Inclusion Body Myopathy, Early Onset Paget's Disease of Bone and Frontotemporal Dementia). The disease can affect any combination of a patient's muscles, bones, and brain. The specific objectives of our organization are to:

- provide global education and awareness of VCP disease;
- develop and maintain a global patient registry of VCP disease patients;
- develop and maintain a fundraising vehicle;
- collaborate with other global organizations and groups;
- sponsor, fund, host and participate in events and activities that promote efforts to advance treatments and cures for VCP disease.



# CURE VCP DISEASE LEADERSHIP TEAM

We are entirely volunteer-led and count on patients, care partners, family, friends, and the generous time of scientists and researchers to advance our mission.

# **Board of Directors**



CEO Nathan Peck Americus, Georgia



Secretary Amy Casey Cedar Rapids, Iowa



Treasurer Allison Peck Americus, Georgia



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# **Medical Advisory Board**



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### WHY PARTICIPATE IN NATURAL HISTORY STUDIES?



Having a way to measure the effectiveness of future drugs is essential for future drug development. Natural history studies facilitate better disease understanding and develop a pathway for a cure.

# TYPES OF NATURAL HISTORY STUDIES

### RETROSPECTIVE

Retrospective studies look backwards at patients' medical histories.



Patients' medical record collection

- Free to patients
- Free to researchers

# PROSPECTIVE

Prospective studies aim to understand the progression of the disease and are normally conducted over a period of 12 to 36 months.



Annual patient reported outcome measures

- Started in 2018
- Global
- Free to patients
- Free to researchers



Muscular outcome measures

- Using validated measures
- 12-month study
- In-clinic & remote
- Global
- Free to patients



Muscular outcome measures

- 12-month study
- Remote only
- USA only
- Free to patients





### **ENROLLED VCP DISEASE PATIENTS**

### **ELIGIBLE COUNTRIES**

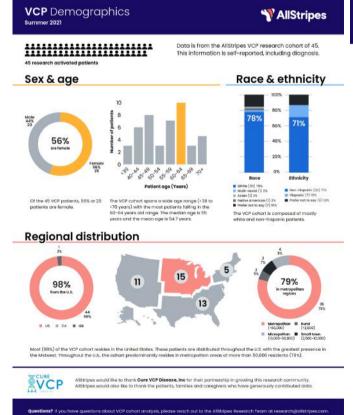
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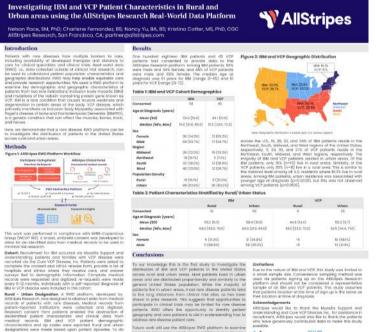


### **ABOUT ALLSTRIPES**

AllStripes is a healthcare technology company dedicated to unlocking new treatments for people with rare diseases. AllStripes has developed a technology platform that generates regulatory-ready evidence to accelerate rare disease research and drug development, as well as a patient application that empowers patients and families to securely participate in treatment research online and benefit from their own medical data.

In 2021, AllStripes became a Public Benefit Corporation (PBC), with a stated purpose to drive forward research for the rare disease community and create technology to break down research silos. A PBC is a company that weighs social good in its business decision-making.





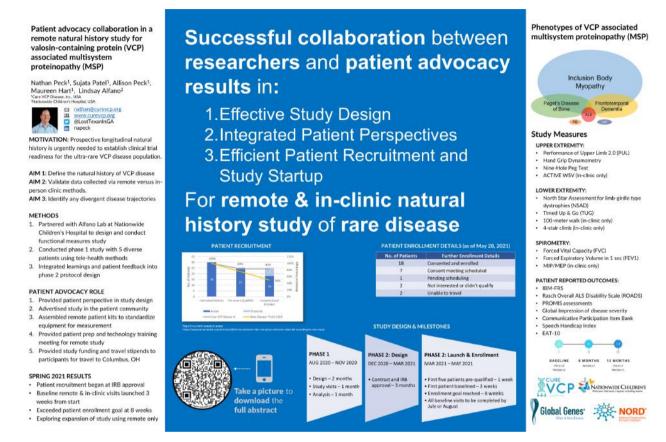
To view posters, go to: <a href="https://www.curevcp.org/allstripes">https://www.curevcp.org/allstripes</a> and scroll down to posters

**AllStripes Demographic Reports** 

# NATIONWIDE CHILDREN'S HOSPITAL NATURAL HISTORY STUDY - IN-CLINIC & REMOTE

### PROJECT GOAL

To study diagnosed VCP patients and understand the type and rate of degradation over a 12-month period. Evaluate if conducting measures remotely shows any a statistical difference than by conducting measures in-clinic.



Poster presented at Global Genes Rare Drug Development Symposium and NORD Rare Diseases and Orphan Products Breakthrough Summit. To zoom poster, go to:

<a href="https://bit.ly/2021naturalhistoryposter">https://bit.ly/2021naturalhistoryposter</a>

### OUTCOMES

- Cure VCP Disease is providing travel stipends to help participants with travel to Columbus, Ohio for the in-clinic study.
- We have now opened the study to remote only VCP patients to encourage higher participation.
- Results will be published within 12 months upon the conclusion of the study in July 2022.

### FINANCIALS

TOTAL PROJECT COST FOR 35 PATIENTS

\$165,000

FOR 12 MONTHS (PROJECT STARTED IN MAR 2021)



# CASIMIR HOME-BASED STUDY - VCP VIDEO ASSESSMENT





### PROJECT GOAL

To determine whether a VCP Video Assessment (VVA) would detect noticeable patient change over a shorter period of time than other proposed outcomes. In other words: is there a concrete advantage to pursuing this approach for trial design? This data could also be valuable for other rare diseases.

# **PROJECT DESIGN**

Cure VCP Disease has contracted with Casimir (https://casimirtrials.com/) to perform a novel study to assess disease progression over time using video assessments with up to 25 VCP patients. Patients will submit videos of how they do everyday activities, like taking off a shirt or standing up from a couch. The advantage to this approach is that patients can be assessed from the comfort of their own home, and these customized measures may be more sensitive to distinct changes than other performance measures commonly used in clinical trials. A certified rater will assess each video using a customized multiple point scorecard. The VVA will take place at four time points; baseline, week 1, month 6 and month 12. Because no travel is involved to participate, burden to the patient is minimal and our home-bound patients can be included in future clinical trials. This project started in October 2021.

# **ABOUT CASIMIR**



Casimir is a Contract Research Organization that develops novel outcomes for decentralized and hybrid trials in order to better understand disease progression and treatment benefit. Their creative protocols were vital in the approval of EXONDYS51, the first FDA-approved treatment for Duchenne Muscular Dystrophy. Because Casimir scorecards are more granular than what's quantified in traditional outcome measure scorecards, there is a possibility that more granular patient changes could be missed. Casimir designs and runs rigorous decentralized and hybrid studies designed to address the needs of regulators, payers, and patients.

### FINANCIALS

TOTAL PROJECT COST FOR 25 PATIENTS

\$76,425

### FOR 12 MONTHS (PROJECT STARTED IN OCT 2021)

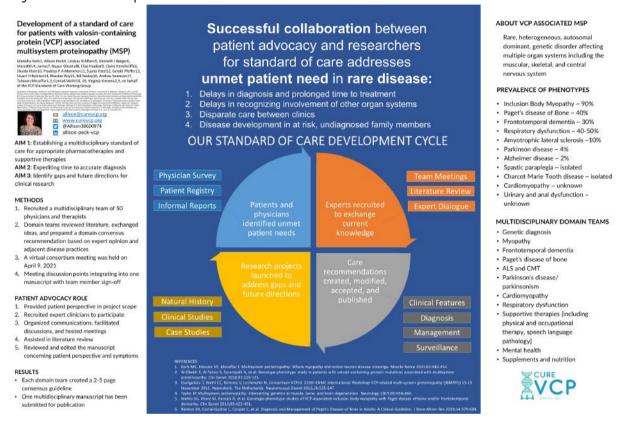
The burden of VCP disease is severe, and there are no approved treatments for VCP disease. VCP disease is a slowly progressing disease with the typical patient losing the ability to walk 5-10 years after diagnosis. VCP disease may affect a person's muscles, nerves, bones, and brain, but the disease will present differently between patients. For these reasons, it is unknown if measured change could be detected in one year with existing validated measures for other diseases (such as ALS, inclusion body myositis, limb-girdle muscular dystrophy scales).



### DEVELOPMENT OF A VCP STANDARD OF CARE

### PROJECT GOAL

To establish a multidisciplinary care guidelines to educate the VCP clinical and patient communities for appropriate pharmacotherapies and supportive therapies. Benefits also include expediting time-to-accurate diagnosis as well as improving the quality of care for patients.



Poster presented at NORD Rare Diseases and Orphan Products Breakthrough Summit. To zoom poster, go to: <a href="https://bit.ly/SOCVCPPoster">https://bit.ly/SOCVCPPoster</a>

PARTICIPATING CLINICIANS

50+

PARTICIPATING COUNTRIES

7

DOMAINS ADDRESSED 10 CLINICIANS VOLUNTEERED THEIR TIME

### OUTCOMES

A manuscript has been submitted to a medical journal that will reach a global medical audience. Next steps include the development of a summary patient guide that patients can provide to their doctor to increase awareness of VCP disease, expedite diagnosis, and foster better understanding of the type of care VCP disease patients require.





The VCP Scientific Conference was an international virtual meeting held on September 9-10, 2021. This multidisciplinary and collaborative conference created a forum for experts and trainees to share scientific knowledge and discuss future research directions. Hosted by Cure VCP Disease, this conference was the first VCP focused scientific meeting since the European Neuromuscular Commission (ENMC) meeting in 2015.



### **OBJECTIVES:**

- Share scientific findings
- Develop young investigators
- Discuss research strategies
- Identify gaps and barriers so that therapies may be developed for VCP patients

To view all conference videos, go to: https://bit.ly/2021vcpconferencevideos

REGISTERED PARTICIPANTS

157

POSTER PRESENTERS 28

COUNTRIES REPRESENTED

9

**SPEAKERS** 

**26** 

# OUTCOMES

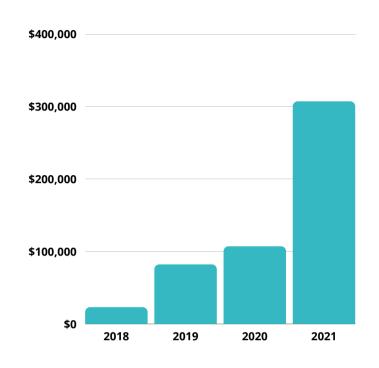
In early 2022, a summary of the VCP Scientific Conference will be published for global scientific review. This will increase awareness of VCP disease and grow engagement and involvement. Cure VCP Disease will restart monthly VCP Focus Group meetings with participants.

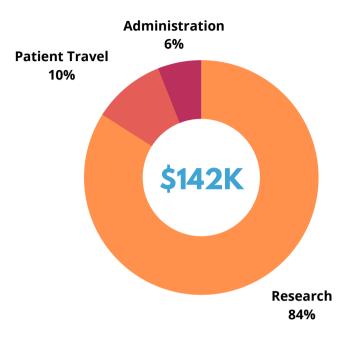


# AMOUNT RAISED BY YEAR

# **2021 EXPENDITURES**

Reporting as of December 21, 2021





# **2021 GRANTS RECEIVED**





\$200K

YEAR 1 FOR CAPACITY BUILDING



\$5K

CONDUCTING COMMUNITY
EDUCATION OF RARE DISEASE
LEGISLATIVE EFFORTS



\$5K

**Monumental News:** Cure VCP Disease was one of 20 patient-driven rare disease organizations (out of 200) selected to join the Rare As One Network. The funding grant of \$600,000, over a 3-year period, will support Cure VCP Disease in the advancement of an international, patient-led collaborative research network in VCP disease, strengthen organizational capacity, convene the community, and align patients and researchers towards shared priorities.

Read more at: <a href="https://chanzuckerberg.com/newsroom/czi-awards-13-million-to-patient-led-organizations-advancing-rare-disease-research/">https://chanzuckerberg.com/newsroom/czi-awards-13-million-to-patient-led-organizations-advancing-rare-disease-research/</a>



# **DGETHER WE CAN MAKE A DIFFERENCE** CCELERATING PROGRESS

# Accomplishments - 2021

	- VCP Scientific Conference	- Webinar with Shawna	Mills	<ul> <li>Poster presentations at</li> </ul>	GG Advocacy Summit	- 30 <sup>th</sup> & 31 <sup>st</sup> online	Happy Hours	_
•	- Speaker at Rare Drug	Development Symposium	- Speaker at Living Rare, Living	Strong Conference	- Webinar with Shannon von	Felden	- 26 <sup>th</sup> & 27 <sup>th</sup> online Happy Hours	Webinar with Jon
		- Participate (@ Kare	Across America	- MIDA Science & Clinical	Conterence	- Healx Webinar	- 20"" & 21st online	Happy Hours - We

- Start of Casimir NHS - Webinar with Sujata

Announcement

· CZI Rare As One

