Negative Reaction Positive Action



Research, Education, Action, with Covid-19, Therapeutics

REACT®

About Us

Patient-Led collaborative dedicated to providing physical, emotional, and financial support for individuals suffering lasting side-effects after Covid vaccines.





Financial Support





Care Fund

Independently funded

Up to \$10k awarded to Covid vaccineinjured Americans.

Uncovered medical expenses



Over \$800k Raised

100% donations to Care Fund go to Covid vaccine-injured



Physical Support

Building a network with compassionate providers, researchers and volunteers.





Care Networks

NEW -Covid vaccine injury provider network.

Mental Health & Provider Network



Research

Independent Grant Program

Research is critical to helping find answers that US NIH will not find with "infection-related research."



Education

Patient education webinars

Provider
Education &
Virtual Rounds

Emotional Support



Our Community

We represent well over 30,000 American Covid vaccine-injured housed in social media-based support groups with global partnerships expanding this reach.

Censorship challenges

Focus areas -support for injured and bereaved.



Hope For Humanity

Advocacy Program

RNs and Social Workers

Digital system to connect injured individuals with providers, social support programs and legal teams.

React Research





"There's just this complete dearth of data." - Dr. Susan Cheng, Science Magazine



Published Studies

Current published lit, includes epidemiological studies and 3400+ case reports. **Covid.CrossTX.com**



Patient-Led Surveys and

Collaboratives Help us find the cure. Reviewing the symptoms and treatments can pave the path to solutions.



Upcoming Research

Future research grant program dependent on independent funding





Patient-Led Surveys

508-1000+ Survey Participants

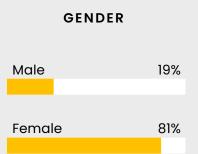


SURVEY 1: First Year - Covid Vaccine Persistent Symptoms Review

SURVEY 2: One Year – Covid Vaccine Outcomes and Symptoms Progression

SURVEY 3: Two Years – Covid Vaccine **Symptom Clusters & Treatment Outcomes**

NOW RECRUITING







Most frequent age range reported is 35-50 years of age

Complimentary Datasets

REACTI9 PATIENT DATA LOOKS SIMILAR TO MANY OTHER DATASETS FROM PATIENTS REPORTING GLOBALLY.

REACT19

LINK TO SURVEY DATA

81% Female Age: 35-45 **PVS - Germany**

LINK TO SURVEY DATA

76% Female Age: 30-45 Gov and Drug Company Reporting Systems

Independent Patient Analyses

Published Case Reports and Series Pfizer P. Market Analysis

LINK TO ANALYSIS

83% Female Age: 31-50

W.H.O. Vigibase



V-Safe Database

LINK TO DATABASE

73% Female Age: 31-50

Medical History

Previous Vaccine Reaction?



Prior to Covid vaccination,

have you ever reacted to

any previous vaccine you

had received?

NO - 94%

History of Covid Infection



Have you ever

had a positive

Covid infection?

NO - 76%

Pre-Existing Conditions

Do you have

any **pre-existing**

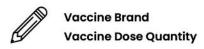
health

conditions?

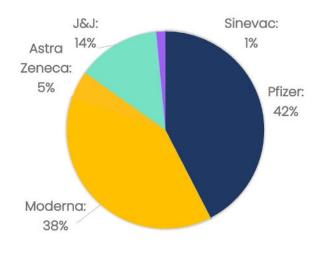
NO - 42%



Patient-Led Surveys

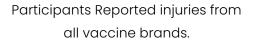


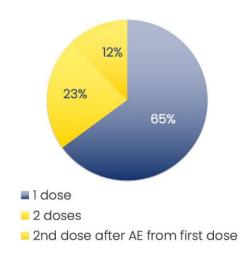
ıantity



Vaccine Brand

Participants Reported injuries from all vaccine brands.





Vaccine Dose

Vaccine Dose

Patient-Led Surveys

Symptoms



Symptom Onset

Symptom Quantity

Symptom Timeline

20

The average number of symptoms reported

0-5 Days

72% of participants reported symptoms began in first 5 days.





52% of participants reported their **symptoms never improved.**

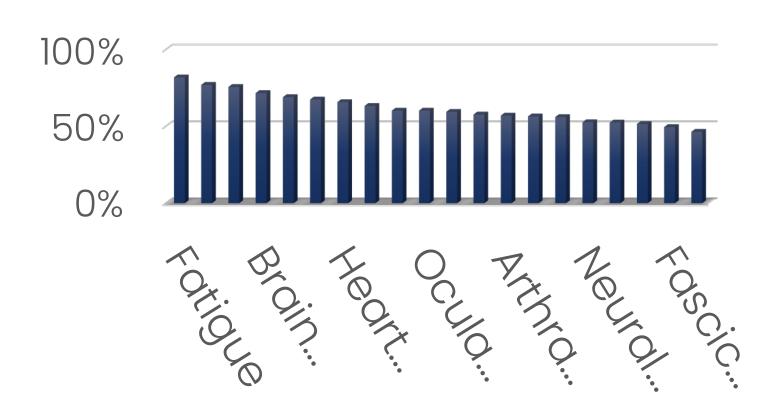


Top Reported Symptoms

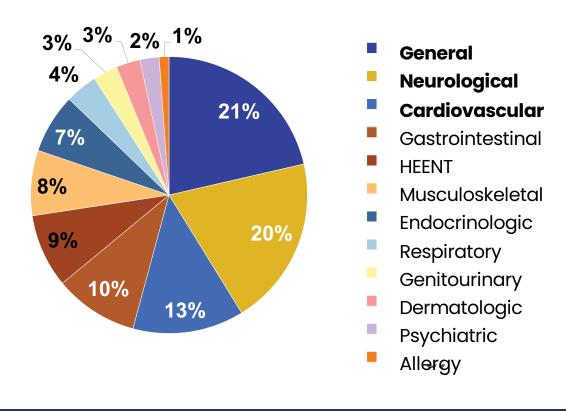
General		Neurological		Cardiovascular		Gastrointestinal		Genitourinary	
Fatigue	82%	Brain Fog	72%	Heart Palpitations	66%	Bowel Problems	44%	Urinary Incontinence	37%
Exercise Intolerance	77%	Paraesthesia	69%	Tachycardia	56%	Abdominal Pain	41%	Menstrual Disorder	20%
Sleep Disorders	76%	Neuralgia	53%	Edema Extremities	52%	Nausea	39%		
Dizziness/Vertigo	67%	Headaches	52%	Hyper/Hypotension	44%	Heartburn	36%	Dermatology	
Muscle Weakness	63%	Fasciculations	49%	Varicose Veins	19%	Flatulence	24%	Skin Problems	30%
Chills	36%	Tremors	46%	Raynaud's Phenomenon	11%	Melena	8%	Alopecia	27%
Lymphadenopathy	29%	Amnesia	46%			Jaundice	5%		
		Paralysis	8%					Psychiatric	
		Seizures	3%	Endocrinologic		HEENT		Anxiety	45%
Musculoskeletal				Adrenaline Surges	58%	Ocular Problems	60%		
Myalgia	60%	Respiratory		Increased Thirst	35%	Tinnitus/ Hyperacusis	59%	Allergies	
Arthralgia	57%	Dyspnoea	56%	Heat Intolerance	34%	Dry Mouth	31%	New Food Allergies	17%
Muscle Atrophy	36%	Cough	19%	Dist. in Glucose Levels	13%	Sore Throat	22%	Anaphylaxis	6%



Top 20 Symptoms



System Classes



System Clusters

0.9

0.8

0.7

0.6

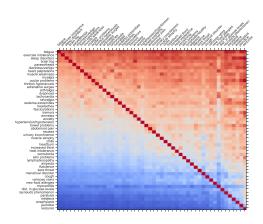
0.5

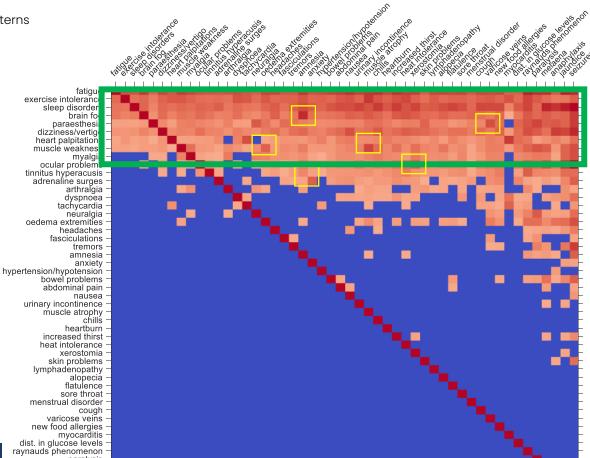
- 0.4

0.3

Zero anything below 0.7 to spot clear patterns

- Top 10 symptoms are very often reported with any of the other symptoms
- Symptoms that affect the same organ/system are often coupled together





Patient-Led Surveys

Symptom Relief

70 60 50 40 30 20 10 Painful Reuropathy Parasthesias Head Pressure Pain Internal Vibration's Muscle Twitching shakiness Joint Muscle Pain Blured Vision Diziness Mumbness Hearthsues Anxiety Insomia

If you could eliminate one symptom which one would it be?

23% - Neuropathy





Symptom Relief

453 Participants - Prelim Analysis



Top 50 Most Common Treatments



Prelim Analysis

Treatments scored by benefit vs. adverse effect / tolerance. Most common treatments with N > 56.

Lowest Scoring Most Common Reported Therapies

- -4 Intense exercise
- -3 **Graded exercise therapy**
- -2 Light exercise
- -1 Antibiotics

Highest Scoring Most Common Reported Therapies

- 1 Pacing Strategies
- 2 Anti-inflammatory Diet
- 3 Prayer
- 4 Brain retraining
- 5 Gluten free diet
- 6 Low histamine diet
- 7 LDN
- 8 Avoiding exercise
- 9 HBOT <=1.5 ATA & >1.5 ATA
- 10 Meditation
- 11 Ivermectin
- 12 Benzodiazepines
- 13 Zyrtec
- 14 Magnesium
- 15 Pepcid
- 16 Intermittent fasting
- 17 Probiotics prebiotics
- 18 Plant based/Vegan diet



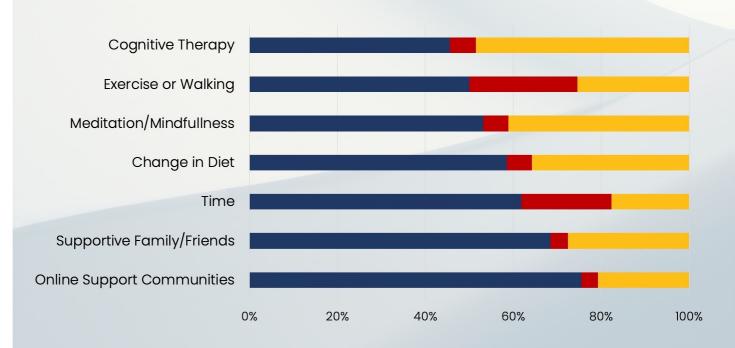
Symptom Relief

Emotional Wellbeing

- Helped
- Stayed The Same
- Worsened



How did the following interventions affect your mental health conditions as a result of your Covid vaccine injury?



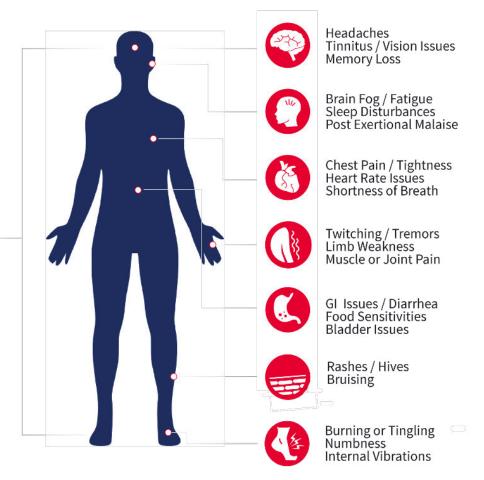


ost Covid Vaccine Syndrome



Common Diagnoses

Inflammation Pericarditis Myocarditis Dysautonomia Neuropathy Autoimmunity POTS (Postural Orthostatic Tachycardia Syndrome) Guillian Barre Syndrome Transverse Myelitis Stroke / Clots ME/CFS CIDP **MCAS**

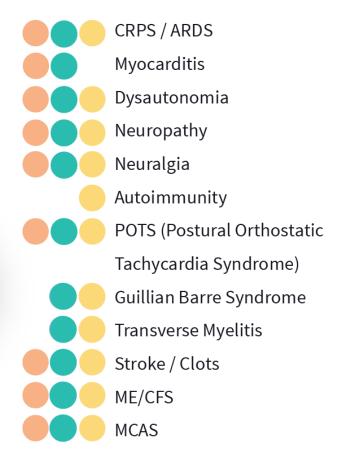


Mechanisms & Diagnoses —

COMMON DIAGNOSES

Allergic Auto-Immune Inflammation

Multiple mechanisms and multiple system involvement create challenges to identify diagnoses and therapeutics.



Clinical Considerations

Possible Etiology

IT'S IMPORTANT TO REMEMBER THAT THESE ISSUES ARE NOT EXCLUSIVE TO ONE MECHANISM OF ACTION, MANY MECHANISMS ARE AT PLAY AND OVERLAP IS OFTEN FOUND IN FACH PATIENT.

TOP 6 TESTS:

- 1 SFN Skin Biopsy Test
- 2 Autonomic Testing / Tilt-Table
- 3 Autoantibodies: TS-HDS, FGFR3, ACE 2, MAS 1, Alpha 1
- 4 Elevated Histamine / Histamine Intolerance
- 5 Cardiovascular: Echocardiogram, troponin, d-dimer, BNP, cardiac MRI with contrast
- 6 Inflammation / MIS-V: C-reactive protein (CRP), erythrocyte sedimentation rate (ESR), fibrinogen, procalcitonin, d-dimer, ferritin, lactic acid dehydrogenase (LDH), or

Diagnostics Guide

Link To Guide

SECTION 1 (of 13): BLOOD TESTS

ANA

D-Dimer

*Not including more specific blood work for neurology, auto-immunity and cardiovascular. See those in sections 2-4

**Attempt to have PCP order labs in this section during your first visit:

BNP (Brain natriuretic peptide)	Heart inflammation - myocarditis				
Complement 3, Complement 4 (C3, C4)	A non-specific autoimmune marker initially often tested before more advanced testing.				
Complement Total 50 (CH50)	Measur prot rh				
Complete Blood Count (CBC w/ Diff)	Find the positives				
Comprehensive Metabolic Panel (CMP)	The broad spectrum of symptoms and multiple system involvement, makes				
Copper	for a difficult pathway for				
C-Reactive Protein (CRP)	diagnosis and treatment.				
Erythrocyte Sedimentation Rate (Sed Rate-ESR)	Inflam				

Find the positives

Negative result does NOT rule out auto-immunity

Run D-dimer especially if there are signs or symptoms of blood clotting. Note that D. dimor tosts can fluctuate and in the absence of



Identifying Safety Signals

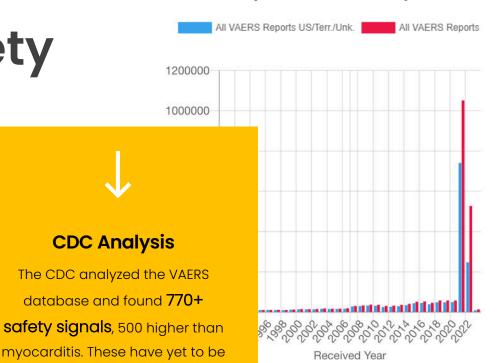
Credit: Joshua Guetzkow, PhD

CDC's Analysis of VAERS Reports for mRNA COVID Vaccines Cardiovascular Neurological Thrombo-embolic Pulmonary Menstrual Death Hemorrhagic Gastrointenstinal Hematological Immunological Cancer - 10,000 20,000 30,000 40,000 50,000 60,000 70,000

Number of Adverse Events Reported

Major Categories of Adverse Event Safety Signals from

All Reports to VAERS by Year



[OpenVAERS.com]

CDC VAERS Analysis

disclosed to the public. [Analysis]

VAERS Reports

HOW RARE IS IT?



VA Comparative Safety Analysis

3.1% of 450k veterans received a **neurological** dx after Covid vaccination. An additional 3.4% received **hematology**, and 2.6% had **arrythmia**. [Source]

"Vaccine" Vol 40 (9/2022)

Dr. Joseph Fraiman et. al analyzed Covid vaccine phase 3 clinical trial data and found **1 in 800** suffered a serious adverse event. [Source]





V-Safe Database

7.7% of V-Safe Participants sought medical care after vaccination. 21-33% were unable to participate in work, school or daily activities. [Source]

Published Literature

MIS-V Multisystem Inflammatory Syndrome

01.

32+ CASE REPORTS

Systemic inflammation can occur after the initial onset of the reaction. **Studies are HERE**

02.

MIS-V OCCURS IN TEENS AND YOUNG ADULTS

Like in Covid19, the vast majority of fatal and serious cases of MIS-V are found in teens and young adults.

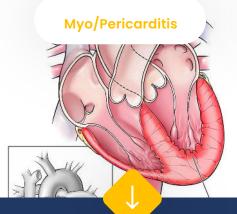
03

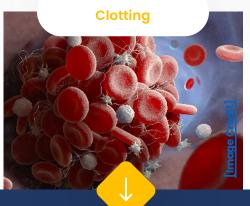
MIS-V CAN BE FATAL

Early recognition and treatment is critical.

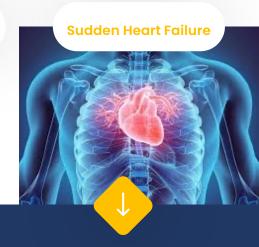
REACTI9 AND OUR PARTNERS
URGENTLY REQUEST THE
AGENCIES RECOGNIZE MIS-V, TO
PROTECT THE YOUNGEST WHO
ARE AT GREATEST RISK.

Cardiovascular Complications









Myo Studies **HERE**

Acknowledged side effect. Can leave permanent damage.

Emerging Understanding

Agencies are beginning to look. Micro-Clotting also a concern.

Damage & Weakening of the Endothelium

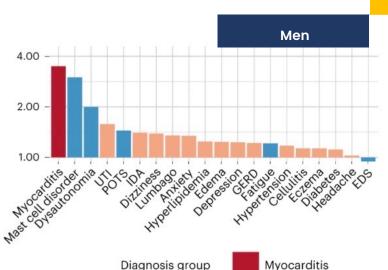
Damage and
weakened
endothelium in acute

Root Cause Unknown

More investigation is needed. 2 Studies: [Study 1] [Study 2]

Cardio & Neuro Research

POTS Study. Nature

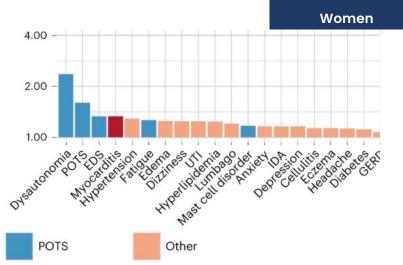




Men vs. Women

"We found that the five conditions with the highest postvaccination odds of new diagnoses were myocarditis, dysautonomia, POTS, mast cell activation syndrome and urinary tract infection (UTI).

Women were more likely to be diagnosed with Dysautomomia and POTS than myocarditis." [Analysis]





Early Intervention

"...However, the rapidity of approval, and history of prior vaccination regimens resulting in neurological and other complications, creates concern surrounding widespread vaccination. ...

"A number of neurological complications of these vaccines are now being reported in the most comprehensive registry, the Vaccine Adverse Events Reporting System (VAERS) database. These include **strokes**, **cranial neuropathies including Bell's palsy, tinnitus and trigeminal neuralgia**, **peripheral neuropathies**, **dysautonomia**, **acute disseminated encephalomyelitis**, **transverse myelitis and AIDP** .. however, it is too early to know the true incidence and risk factors for these complications. They are thought to be **immune mediated and early recognition and treatment with immunomodulatory therapies might be**





"Neurology"

Published 10/2021 [Source]

"Prior studies have shed light on the likelihood of neurological complications following vaccination. These data can be difficult to interpret and are often seen as controversial, suffering from potential reporting bias and lack of clear causality, but illustrate theoretical concerns for both patients and physicians and must be acknowledged."

Current Research

02.

React19 Mitochondria Study

Mito dysfunction with injured vs controls.

04.

Long-haul Vaccine Survey

Dr. Harriet Carroll

Yale - Kindred Study

Dr. Harlan Krumholz and Dr. Akiko Iwasaki **Univ. of Marburg**

Symptoms Survey
Post Vac

Syndrome Group

Honored to work with our current and previous research partners

Other notable partnerships:

University of Arizona

UCSF

Mayo Clinic



Independent research is key to find effective therapeutics and more clues.

Provider Education

Future Research

Several independent researchers are ready to launch key studies. However we need your help to fund these essential studies.



Genomics Study

100-500 genetic samples from vaccine-injured. Compare to 100k control samples

Goal: Identify any potential predisposition to injury.



Bio-Markers Study

90 participants, specific biomarkers.

Goal: Identify similar positive labs, classify syndromes, find potential tests for vaccine-injury.



MRI Study

Multiple brain MRIs to be evaluated.

Goal: Look for common abnormalities in these MRIs of post vaccine patients



Thank You

www.react19.org/get-involved