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# COVID Vaccine Research 2.1

## Scientific Publications & Case Reports

Collection of peer reviewed case reports and studies citing adverse effects post COVID vaccination.



### Research Primer: How to Read and Understand Research

“Critically” reading a research paper is a vitally important skill. The primary goal when you read a research paper, is to understand the scientific contribution/s the author/s are making to a particular subject or area of medicine.

Sometimes papers are complex and may require reading it numerous times to capture all the important components. This can be especially true of more complex research based on randomized controlled trials or systematic reviews.

There are many ways to tackle reading research articles. For most in a hurry this may be simply skipping to the end to look for the “ultimate” conclusions. While certainly an expeditious approach, the reader will miss out on the entire process which led to that conclusion.

Understanding the process is vital as it can help determine the “weight” or “validity” of the conclusion drawn. Let’s take a simplistic example. A study was conducted recently, and the conclusion was drawn that those eating a single apple a day were less likely to see doctor when followed over a period of 1 year. Now based solely on reading the conclusion, some may simply accept this as fact and rush out to eat an apple a day. Doing a deeper dive into the article, we find that the population studied was only 100 people and the system to track whether indeed they ate an apple every day was based solely on self-report. Knowing this information helps us to judge the “power” of the study.

There are many different approaches to reading a paper, but in general, following 3 easy steps may assist you getting more out of your reading.



## STEP1. First browse over the paper

Most research papers are divided into standard sections:

- Title
- Abstract
- Introduction
- Headings of sections and sub-sections
- Statistical methods used, mathematical and data content
- Conclusion
- References

During the first review you should be able to determine what type of research paper it is:

- systematic review
- review article
- randomized control trial
- qualitative vs quantitative
- observational study
- animal vs human study
- study protocol

You can google each type of study to better understand the type of research approach taken by the author/s. You should also be able to determine if the paper and its conclusions are pertinent to you and your interests.

At this stage you should determine if the conclusions made are valid. Are the statistical methods used reliable (this may require further education in research), and are they applicable to the research methodology.

## Step 2. Read the paper

Reading a research paper must be a critical process. Do not assume the authors are always correct. Be a skeptic in your approach – apply a keen eye to all research. Critical reading involves asking appropriate questions.

Here are some questions you should ask yourself when critically reading a paper:

- Is the study attempting to solve a problem?
- Are they solving the right problem?
- Are there other solutions the authors do not seem to have considered?
- What are the limitations of the solution (including limitations the authors might not have noticed or admitted)?
- Are the assumptions the authors make reasonable?
- Is the logic of the paper clear and justifiable, given the assumptions, or is there a flaw in the reasoning?
- If the authors present data, did they gather the right data to substantiate their argument?
- Did they gather and interpret the data in the correct manner?
- Would other data or other means of collection of data be more compelling?
- Are the results or ideas generalizable to wider populations?
- Are there improvements that might make important differences?

During the reading, it might be helpful to make notes. Take liberty to highlight any key points made by the authors, and look for the key data such as:

- population size
- sample size
- inclusion and exclusion criteria



- limitations
- data collection methods used

You may need to read the paper several times to fully understand what the authors are trying to determine.

### Step 3. Compare the paper

Most importantly, **never “put all your eggs into one research basket.”** Once you have read and understand the paper, you should attempt to compare it to similar papers.

It is vital to note that making decisions, especially health decisions, based on one study can sometimes lead to more harm than good. Evidence-based medicine makes attempts to take many studies (sometimes over numerous years) to draw a conclusion on whether a treatment is appropriate.

## Peer-Reviewed Publications:

### Neuro:

#### General

Spectrum of neurological complications following COVID-19 vaccination:

<https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC8557950/>

Covid Vaccines are not free of Neurologic side effects:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8206845/>

Intracranial aneurysm rupture within 3 days of receiving mRNA vaccination: 3 case reports:

<https://pubmed.ncbi.nlm.nih.gov/35509565/>

Cerebrovascular complications of COVID-19 and COVID-19 vaccination:

<https://pubmed.ncbi.nlm.nih.gov/35420916/>

COVID-19 mRNA vaccination leading to CNS inflammation: a case series

[https://link.springer.com/article/10.1007/s00415-021-10780-7?fbclid=IwAR1WlozzELtGyD\\_DttkLNZFMcl3yW6iBW9C0v8uRyiYtTulzRvKVPE\\_xYko](https://link.springer.com/article/10.1007/s00415-021-10780-7?fbclid=IwAR1WlozzELtGyD_DttkLNZFMcl3yW6iBW9C0v8uRyiYtTulzRvKVPE_xYko)

A systematic review of cases of CNS demyelination following COVID-19 vaccination:

<https://pubmed.ncbi.nlm.nih.gov/34839149/>

Spectrum of neuroimaging findings in post-covid-19 vaccination: a case series and review of the literature: <https://pubmed.ncbi.nlm.nih.gov/34842783/>

Neurologic autoimmune diseases following vaccinations: <https://pubmed.ncbi.nlm.nih.gov/34668274/>

New-onset autoimmune phenomena post COVID-19 vaccination: <https://pubmed.ncbi.nlm.nih.gov/34957554/>

Neurologic side effects of COVID-19 vaccinations: <https://pubmed.ncbi.nlm.nih.gov/34750810/>

Rebuttal about Functional Neurologic Disorders and Vaccination:

[https://onlinelibrary.wiley.com/doi/full/10.1002/ana.26160?fbclid=IwAR3C-QQc-ZDEDoCu0fWNQuVYzvbC3qYHGekCaicU5-l\\_bOUz4N52jl1wj0](https://onlinelibrary.wiley.com/doi/full/10.1002/ana.26160?fbclid=IwAR3C-QQc-ZDEDoCu0fWNQuVYzvbC3qYHGekCaicU5-l_bOUz4N52jl1wj0)



Neurologic safety monitoring of COVID-19 vaccines, lessons learned from the past to inform the present:

<https://pubmed.ncbi.nlm.nih.gov/34475124/>

Neurological side effects after first dose AstraZeneca and COVID-19 infection:

<https://pubmed.ncbi.nlm.nih.gov/34697502/>

Combined central and peripheral demyelination with Anti-neurofascin155 IgG following AstraZeneca:

<https://pubmed.ncbi.nlm.nih.gov/35107062/>

## Neuropathy

Small fiber neuropathy and POTS following Moderna and Pfizer vaccination (**NIH publication**):

<https://www.medrxiv.org/content/10.1101/2022.05.16.22274439v1?fbclid=IwAR3bhFglz5CRfS4zFd1QAP0bvIuk7XDXq7fDQxZwTYj0lzPE9C32IXDGqd4>

Small fiber neuropathy: <https://onlinelibrary.wiley.com/doi/10.1002/mus.27251...>

COVID-19 vaccinations may not only be complicated by GBS but also by distal small fiber neuropathy:

<https://pubmed.ncbi.nlm.nih.gov/34525410/>

Possible mechanisms of neuropathies associated with covid-19 vaccination:

<https://pubmed.ncbi.nlm.nih.gov/35119106/>

Acute inflammatory neuropathies with COVID-19 vaccines: subgroup disproportionality analysis in Vigibase:

<https://pubmed.ncbi.nlm.nih.gov/34579259/>

Polyneuropathy in a 43yoF following Pfizer:

<https://pubmed.ncbi.nlm.nih.gov/35753790/>

Recrudescence of severe polyneuropathy after receiving Pfizer vaccine in a patient with a history of eosinophilic granulomatosis with polyangiitis: <https://pubmed.ncbi.nlm.nih.gov/35487626/>

## POTS:

POTS following Pfizer: <https://www.cureus.com/articles/56242-a-case-of-postural-orthostatic-tachycardia-syndrome-secondary-to-the-messenger-rna-covid-19-vaccine>

Postural orthostatic tachycardia syndrome after mRNA COVID-19

vaccine: <https://link.springer.com/article/10.1007/s10286-022-00880-3> <https://pubmed.ncbi.nlm.nih.gov/35870086/>

Autonomic dysfunction post-inoculation with ChAdOx1 nCoV-19 vaccine

<https://academic.oup.com/ehjcr/article/5/12/ytab472/6444985>

## Neuralgia - Trigeminal, Amyotrophy:

Trigeminal neuritis after Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34870807/>

Trigeminal Neuralgia and cervical radiculitis after Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34155020/>

Neuralgic amyotrophy following mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34347105/>

Amyotrophic neuralgia secondary to AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34330677/>

Neuralgic amyotrophy of the lumbosacral plexus following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34816739/>



Parsonage-Turner syndrome following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34559695/>

Parsonage-Turner syndrome in a 43yoM after COVID-19 vaccination: <https://pubmed.ncbi.nlm.nih.gov/34936579/>

2 cases of Parsonage Turner Syndrome following Moderna and Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34402669/>

Parsonage—Turner syndrome following Astra Zeneca: a case report and review of the literature: <https://pubmed.ncbi.nlm.nih.gov/34903275/>

## Transverse Myelitis:

36yoM with transverse myelitis following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/33787891/>

Acute Myelitis following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34392078/>

67yoF with transverse myelitis following Moderna 1st dose: <https://pubmed.ncbi.nlm.nih.gov/34482455/>

70yoM with acute autoimmune transverse myelitis following Moderna: <https://pubmed.ncbi.nlm.nih.gov/34941191/>

Longitudinal extensive transverse myelitis following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34507942/>

Longitudinal extensive transverse myelitis in a 25yoF following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34641797/>

Longitudinal extensive transverse myelitis following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34182207/>

Acute transverse myelitis following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34684047/>

Transverse Myelitis and Bells Palsy after J&J vaccination: <https://pubmed.ncbi.nlm.nih.gov/34458035/>

Acute transverse myelitis in 43 patients post AstraZeneca Vaccination: <https://pubmed.ncbi.nlm.nih.gov/33981305/>

MOG-antibody associated longitudinal extensive myelitis after AstraZeneca in a 59yoM: <https://pubmed.ncbi.nlm.nih.gov/34931927/>

MOG antibody associated disease (38yoM) and transverse myelitis (39yoF) following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35755241/>

## GBS:

12 cases of GBS and 4 cases of CIDP following COVID-19 vaccination in the UK: <https://pubmed.ncbi.nlm.nih.gov/34786740/>

24 cases of GBS following COVID-19 vaccination: <https://pubmed.ncbi.nlm.nih.gov/34967005/>

Sensory GBS in a 16yoF following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35097156/>

Sensory ataxic GBS with immunoglobulin G anti-GM1 antibodies following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34871447/>

AstraZeneca and GBS: analysis using National Immunoglobulin Database: <https://pubmed.ncbi.nlm.nih.gov/35180300/>

GBS following Johnson and Johnson: <https://www.onlinescientificresearch.com/articles/the-development-of-guillain-barre-syndrome-subsequent-to-administration-of-ad26cov2s-vaccine.pdf>

GBS following 2nd dose of Pfizer:, electromyoneurography and laboratory findings: <https://pubmed.ncbi.nlm.nih.gov/34347563/>



- 3 cases of GBS in Alberta following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/35747886/>
- GBS in a 23yoM following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35528113/>
- Sensory ataxic GBS in a 80yoM following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35342134/>
- GBS in a 58yoF with rapid onset and autonomic dysfunction following 1st dose Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35401916/>
- GBS in a 80yoM following Moderna: <https://pubmed.ncbi.nlm.nih.gov/35441015/>
- GBS in a 25yoF following 2nd dose of Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34346014/>
- GBS following Pfizer in a 42yoM : <https://pubmed.ncbi.nlm.nih.gov/34779385/>
- GBS in a 42yoF following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34567447/>
- GBS in a 61yoM following Moderna: <https://pubmed.ncbi.nlm.nih.gov/34484780/>
- GBS in a 65yoM liver transplant patient following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34431208/>
- GBS in a 67yoM following 1st dose of Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34796417/>
- GBS in a 73yoM following Moderna: <https://pubmed.ncbi.nlm.nih.gov/34477091/>
- GBS in 73yoM following 2nd dose of Pfizer: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8253659/>
- GBS in 82yoF following 1st dose Pfizer: <https://pubmed.ncbi.nlm.nih.gov/33758714/>
- GBS 10 days after AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34272622/>
- GBS 11 days after AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34187803/>
- GBS following AstraZeneca with papilledema as atypical onset: <https://pubmed.ncbi.nlm.nih.gov/34418708/>
- GBS following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34330729/>
- GBS in a 63yo patient who had previous vaccine associated GBS syndrome following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34810163/>
- Recurrent GBS following mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34468703/>
- 3 cases of GBS following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34548920/>
- 3 cases of GBS and 1 case of CIDP following AstraZeneca in Tasmania: <https://pubmed.ncbi.nlm.nih.gov/34560365/>
- 7 cases of GBS following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34114256/>
- 19 cases of GBS following J&J, Pfizer, and Astra Zeneca vaccination: <https://pubmed.ncbi.nlm.nih.gov/34644738/>
- GBS following vaccination, a review of 39 cases: <https://pubmed.ncbi.nlm.nih.gov/34648420/>
- 2 cases of Sensory GBS following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34416410/>



Bilateral facial weakness with paresthesia variant of GBS following AstraZeneca:

<https://pubmed.ncbi.nlm.nih.gov/34261746/>

Bifacial diplegia variant of GBS following J&J vaccination: <https://pubmed.ncbi.nlm.nih.gov/34449715/>

GBS presenting as bifacial diplegia in 2 patients following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34649856/>

GBS following Johnson and Johnson: <https://pubmed.ncbi.nlm.nih.gov/34550109/>

GBS following Moderna: <https://pubmed.ncbi.nlm.nih.gov/34767184/>

GBS following 1st dose AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34217513/>

GBS with Prominent Facial Diplegia after AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34808658/>

GBS in a 14yoM following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34717201/>

GBS in a 21yoM following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34981285/>

GBS in a 38yoF following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34988954/>

GBS in a 49yoF following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34703690/>

2 cases of GBS following Pfizer in patients in remission from b-cell lymphoma:

<https://pubmed.ncbi.nlm.nih.gov/34929194/>

2 cases of GBS after Pfizer and AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34593364/>

GBS following COVID-10 vaccination: a report of 2 cases: <https://pubmed.ncbi.nlm.nih.gov/34599482/>

Facial Diplegia variant of GBS in a 38yoM following COVID-19 vaccination: <https://pubmed.ncbi.nlm.nih.gov/34538679/>

Facial Diplegia variant of GBS in a 65yoF following J&J: <https://pubmed.ncbi.nlm.nih.gov/34447646/>

Axonal-variant GBS in 86yoF temporally associated with Moderna vaccination:

<https://pubmed.ncbi.nlm.nih.gov/34722067/>

## Miller Fisher Syndrome:

Miller Fischer syndrome and GBS overlap syndrome after AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34848426/>

Miller Fisher syndrome in 24yoF following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34817727/>

Miller Fisher Syndrome in a 71yoM following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34789193/>

Miller Fisher syndrome after 2nd dose of Pfizer vaccination in a patient with resolved covid-19

<https://pubmed.ncbi.nlm.nih.gov/34808657/>

## Encephalopathy:

75yoF with acute hemorrhagic necrotizing encephalopathy after AstraZeneca:

<https://pubmed.ncbi.nlm.nih.gov/35098489/>

32yoM with acute hyperactive encephalopathy after Moderna with dramatic response to methylprednisolone:

<https://pubmed.ncbi.nlm.nih.gov/34512961/>

Facial Weakness, extremity weakness, encephalopathy, and severe refractory ITP following





Moderna: <https://pubmed.ncbi.nlm.nih.gov/33854395/>

77yoM with acute encephalopathy and NSTEMI following Moderna: <https://pubmed.ncbi.nlm.nih.gov/34703815/>

### **CIDP:**

Chronic inflammatory demyelinating polyneuropathy after following Moderna:

<https://pubmed.ncbi.nlm.nih.gov/35651399/>

CIPD in a middle aged female following Moderna: <https://pubmed.ncbi.nlm.nih.gov/35071987/>

Acute onset chronic inflammatory demyelinating polyneuropathy (CIDP) after AstraZeneca:

<https://pubmed.ncbi.nlm.nih.gov/34607818/>

Chronic inflammatory demyelinating polyneuropathy after AstraZeneca

vaccination: <https://pubmed.ncbi.nlm.nih.gov/34960248/>

### **Akathisia:**

Transient akathisia after Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34113842/>

### **Phantosmia:**

Phantosmia: <https://pubmed.ncbi.nlm.nih.gov/34096896/>

### **Bells Palsy / Nerve Palsy:**

Multiple cranial nerve palsies following COVID-19 vaccination (Pfizer): <https://pubmed.ncbi.nlm.nih.gov/34725821/>

Acute abducens nerve palsy following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34044114/>

Acute aducens nerve palsy following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34851785/>

Acute Abducens nerve palsy following vaccination: <https://pubmed.ncbi.nlm.nih.gov/34827043/>

21yoF nurse with Bells Palsy following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34322761/>

34yoF with Bells Palsy 2 days after Moderna: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8143982/>

36yo with Bells Palsy, left arm tingling/numbness/weakness following mRNA vaccination:

<https://pubmed.ncbi.nlm.nih.gov/34336436/>

32yoF with Bells Palsy following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35759681/>

37yoM with Bells Palsy after Pfizer: <https://pubmed.ncbi.nlm.nih.gov/33611630/>

50yoM with Bells Palsy after Pfizer, ongoing symptoms after 21 days: <https://pubmed.ncbi.nlm.nih.gov/34330676/>

57yoF with Bells Palsy <36 hours after 2nd dose of Pfizer: <https://pubmed.ncbi.nlm.nih.gov/33594349/>

61yoM with Bells Palsy after each dose of Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34281950/>

Bells Palsy following mRNA and inactivated (CoronaVac) vaccines: a case series and nested case-control study: <https://pubmed.ncbi.nlm.nih.gov/34411532/>

Rate of Bells Palsy following mRNA vaccination is 2-3x higher than

expected: <https://pubmed.ncbi.nlm.nih.gov/34111409/>





## Neuromyelitis Optica:

New onset neuromyelitis optica spectrum disorder following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35184119/>

Neuromyelitis optic in a healthy female following Moderna: <https://pubmed.ncbi.nlm.nih.gov/34660149/>

Neuromyelitis optica spectrum disorder (NMOSD): [https://link.springer.com/article/10.1007/s10072-021-05427-4?fbclid=IwAR2DGcW8Y5UxvdzcOQaBUPn6\\_RTZGQRSSNo6bzanyAm9yN6387E3Z6WrKl](https://link.springer.com/article/10.1007/s10072-021-05427-4?fbclid=IwAR2DGcW8Y5UxvdzcOQaBUPn6_RTZGQRSSNo6bzanyAm9yN6387E3Z6WrKl)

Antibody positive neuromyelitis optica spectrum disorder after 2nd dose Pfizer in a 80yoM: <https://pubmed.ncbi.nlm.nih.gov/35761845/>

Optic neuropathy after Pfizer and Astrazeneca: a report of 2 cases: <https://pubmed.ncbi.nlm.nih.gov/34906029/>

Bilateral optic neuritis after AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/35098359/>

Optic neuritis and transverse myelitis in MS patient after Astrazeneca vaccination: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8205198/>

## Multiple Sclerosis:

Patient's first MS Flare following Pfizer <https://link.springer.com/article/10.1007/s00415-021-10648-w>

New onset MS in a 32yoF patient following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34804388/>

New onset of MS in a 40yoF following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34700047/>

3 new cases of MS, 13 flares of MS after Pfizer, Moderna, and Astra Zeneca vaccination: <https://pubmed.ncbi.nlm.nih.gov/34744992/>

4 cases of activation of stable MS, 2 cases of new MS, 1 case of new onset neuromyelitis optica after mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34480607/>

COVID infection and vaccination outcomes in multiple sclerosis: <https://pubmed.ncbi.nlm.nih.gov/35747550/>

Severe Multiple Sclerosis relapse after Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34447349/>

5 cases of new diagnosis of multiple sclerosis following mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34922126/>

Optic neuritis and transverse myelitis in MS patient after Astrazeneca vaccination: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8205198/>

## Myasthenia Gravis:

Vaccination associated Ocular Myasthenia Gravis following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35077038/>

Myasthenia Gravis Flare Following Moderna: <https://www.cureus.com/articles/60348-a-case-of-covid-19-vaccine-causing-a-myasthenia-gravis-crisis>

Fatal Myasthenic Crisis in a 55yoM following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/35449619/>

New onset Myasthenia Gravis in 82yoM following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34709075/>

## Cerebral Venous Thrombosis:

Thromboembolic events following mRNA COVID vaccination, a case series: <https://pubmed.ncbi.nlm.nih.gov/35118582/>



CVA and Thrombocytopenia following Astrazeneca: <https://pubmed.ncbi.nlm.nih.gov/34175640/>

Cerebral venous sinus thrombosis after Moderna in a 56yoF: <https://pubmed.ncbi.nlm.nih.gov/35181646/>

Extensive cerebral venous sinus thrombosis after 1st dose Pfizer without TTS in a 28yoF:  
<https://pubmed.ncbi.nlm.nih.gov/35136010/>

Cerebral venous thrombosis due to VITT after 2nd dose of AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/35263427/>

Age-stratified risk of cerebral venous sinus thrombosis after AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34921101/>

Characteristic of outcomes in patients with cerebral venous sinus thrombosis in COVID vaccine induced immune thrombotic thrombocytopenia: <https://pubmed.ncbi.nlm.nih.gov/34581763/>

Cerebral venous sinus thrombosis in setting of COVID-19 vaccination: a systematic review and meta-analysis:  
<https://pubmed.ncbi.nlm.nih.gov/35394172/>

US case reports of cerebral venous sinus thrombosis with thrombocytopenia after J&J:  
<https://pubmed.ncbi.nlm.nih.gov/33929487/>

Cerebral venous thrombosis in a 61yoM following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34796065/>

Cerebral venous sinus thrombosis after mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34783932/>

Central venous sinus thrombosis with subarachnoid hemorrhage in a 45yoM following Moderna: <https://pubmed.ncbi.nlm.nih.gov/34478433/>

Cerebral venous sinus thrombosis after AstraZeneca, neurologic and radiological management: <https://pubmed.ncbi.nlm.nih.gov/34327553/>

Cerebral venous sinus thrombosis, subarachnoid hemorrhage, and thrombocytopenia following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34485807/>

Cerebral Venous sinus thrombosis, review of European cases: <https://pubmed.ncbi.nlm.nih.gov/34293217/>

Review of European data of Cerebral venous thrombosis with cytopenia, observed in Pfizer, Moderna, and AstraZeneca <https://pubmed.ncbi.nlm.nih.gov/34375510/>

A multicenter cohort study of cerebral venous thrombosis after AstraZeneca Vaccination: <https://pubmed.ncbi.nlm.nih.gov/34370972/>

Endovascular treatment for AstraZeneca induced cerebral venous sinus thrombosis and thrombocytopenia, a report of 3 cases: <https://pubmed.ncbi.nlm.nih.gov/34782400/>

45 cases of Cerebral Venous thrombosis: <https://pubmed.ncbi.nlm.nih.gov/34288044/>

International Cerebral Venous Thrombosis consortium report on cerebral venous thrombosis following vaccination against SARS-COV-2: <https://pubmed.ncbi.nlm.nih.gov/34462996/>

Spontaneous rare visceral pseudoaneurysm presenting with rupture after Moderna: <https://pubmed.ncbi.nlm.nih.gov/34480824/>

### **Intracerebral Hemorage / Strokes / etc:**

Fatal ICH following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34477089/>

ICH due to vasculitis following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34783899/>



Treatment of AstraZeneca induced immune thrombotic thrombocytopenia related acute ischemic stroke: <https://pubmed.ncbi.nlm.nih.gov/34461442/>

Symptomatic periorbital, cavernous bleeding following Pfizer vaccination induced ITP: <https://pubmed.ncbi.nlm.nih.gov/34549178/>

Lobar bleeding with ventricular rupture shortly following mRNA vaccine: <https://pubmed.ncbi.nlm.nih.gov/34729467/>

Bilateral thalamic stroke following Pfizer: a case of VITT? <https://pubmed.ncbi.nlm.nih.gov/34820232/>

## **Aphasia:**

Aphasia 7 days after 2nd dose of mRNA based vaccine due to intracerebral bleeding in left temporal lobe: <https://pubmed.ncbi.nlm.nih.gov/34192245/>

## **Neuro-Oncologic :**

Worsening Neuro-Oncologic Disease Symptoms following mRNA vaccination: <https://www.cureus.com/articles/61880-new-onset-neurologic-symptoms-and-related-neuro-oncologic-lesions-discovered-after-covid-19-vaccination-two-neurosurgical-cases-and-review-of-post-vaccine-inflammatory-responses>

## **Headache / Aseptic Meningitis:**

18yoM with aseptic meningitis following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34711784/>

Aseptic meningitis, mucocutaneous lesions, and arthritis after Pfizer in a 15yoM: <https://pubmed.ncbi.nlm.nih.gov/35214783/>

Aseptic meningitis in a 34yoF following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34882515/>

Headache after AstraZeneca: a MultiCenter observational cohort center: <https://pubmed.ncbi.nlm.nih.gov/34313952/>

Status migrainosus following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34807361/>

Characteristics of COVID vaccine induced Headache: <https://pubmed.ncbi.nlm.nih.gov/34510919/>

Clinical characteristics of Headache following Pfizer, a multicenter observational cohort study: <https://pubmed.ncbi.nlm.nih.gov/34405142/>

Aseptic Meningitis following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34378098/>

Aseptic meningitis after Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34777795/>

Steroid responsive aseptic meningitis after Pfizer in a 62yoF: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8566612/>

## **Encephalitis / Delirium:**

Delirium in an elderly patient following vaccination: <https://pubmed.ncbi.nlm.nih.gov/33829614/>

Two cases of encephalopathy and seizures following Moderna: <https://pubmed.ncbi.nlm.nih.gov/34367780/>

Acute meningoencephalitis in a 72yoF after Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35283382/>

Acute encephalitis following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/35748025/>

Anti-LGI1 encephalitis following COVID-19 vaccination: a case series: <https://pubmed.ncbi.nlm.nih.gov/35751687/>



69yoF with acute transient encephalopathy following Moderna: <https://pubmed.ncbi.nlm.nih.gov/35702446/>

Acute disseminated encephalitis following Pfizer: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8294707/>

Acute disseminated encephalomyelitis (ADEM) following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34735684/>

ADEM with bilateral optic neuritis following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/35151258/>

Acute disseminated encephalomyelitis (ADEM) in a 88yoF following Pfizer vaccination: <https://pubmed.ncbi.nlm.nih.gov/34841097/>

COVID-19 Moderna booster induced autoimmune encephalitis in a 48yoM: <https://pubmed.ncbi.nlm.nih.gov/35182374/>

Anti-LGI1 encephalitis in a 48yoM following mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/35021289/>

Autoimmune encephalitis in a 35yoF following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/35021289/>

Case report of AstraZeneca associated encephalitis in a 22yoF: <https://pubmed.ncbi.nlm.nih.gov/34903200/>

Acute Disseminated Encephalitis in a young female following mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34480527/>

Postvaccinal encephalitis following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34324214/>

Acute encephalitis, myoclonus, and sweet syndrome after mRNA vaccine: <https://pubmed.ncbi.nlm.nih.gov/34312136/>

Acute psychosis due to anti-NMDA encephalitis in a young female in her 20s following Pfizer vaccination: <https://pubmed.ncbi.nlm.nih.gov/34803896/>

First episode of psychosis in 18yoF following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/35091388/>

New onset psychosis in 31yoM after mRNA vaccine: <https://pubmed.ncbi.nlm.nih.gov/34388513/>

## Other:

COVID-19 vaccine associated parkinson's disease, a prion disease signal in UK yellow card adverse event database: <https://www.semanticscholar.org/paper/COVID-19-Vaccine-Associated-Parkinson%27s-Disease%2C-A-Classen/0fe033bb1e274f27bc7c1703f09206e2965c75ca>

COVID-19 RNA based vaccines and the risk of prion disease: <https://www.semanticscholar.org/paper/COVID-19-RNA-Based-Vaccines-and-the-Risk-of-Prion-Classen/68580738ad152158a095c2f90a2a28a4c8b5d7d2>

Clinical and radiological follow-up of Pfizer induced hemichorea hemiballismus in a 90yoM: <https://pubmed.ncbi.nlm.nih.gov/35646423/>

Polyneuritis cranialis, a rare GBS variant, associated with Pfizer in a 16yoF: <https://pubmed.ncbi.nlm.nih.gov/35062795/>

Reversible radiculomyelitis after AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/35110289/>

Severe dyskinesia in Parkinson Patient following mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34368991/>

Hemichorea following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34811599/>

3 cases of worsening complex regional pain syndrome following mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34809486/>

Cytotoxic lesion of the Corpus Callousum following mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34402238/>



Myeloperoxidase anti-neutrophil cytoplasmic antibody positive optic perineuritis after mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34432055/>

Two patients with schizophrenia treated with clozapine develop neutropenia after COVID-19 vaccine: <https://pubmed.ncbi.nlm.nih.gov/35115846/>

Three cases: CVA, left facial nerve palsy, and myelitis all following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34507266/>

## Pulmonary:

Vaccine induced interstitial lung disease in 86yoM after mRNA vaccine: <https://pubmed.ncbi.nlm.nih.gov/34362838/>

Vaccine induced interstitial lung disease: <https://pubmed.ncbi.nlm.nih.gov/34510014/>

Delayed hypersensitivity to Pfizer presenting with pneumonitis and rash: <https://pubmed.ncbi.nlm.nih.gov/34813953/>

Pfizer vaccine induced Pneumonitis in a 65yoM: <https://pubmed.ncbi.nlm.nih.gov/34707048/>

Interstitial lung disease in a 71yoF after receiving mRNA vaccine: <https://pubmed.ncbi.nlm.nih.gov/35223425/>

2 cases (67yoM and 70yoM) of Pfizer related interstitial lung disease: <https://pubmed.ncbi.nlm.nih.gov/35355663/>

Pulmonary embolus and DVT in a 14yoM after Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35173114/>

2 cases of eosinophilic pneumonia following vaccination: <https://pubmed.ncbi.nlm.nih.gov/34803208/>

Interstitial lung disease after COVID-19 vaccination may be more common in Asians: <https://pubmed.ncbi.nlm.nih.gov/34850213/>

Acute eosinophilic pneumonia in a 37yo M following Pfizer vaccination: <https://pubmed.ncbi.nlm.nih.gov/34803207/>

Acute eosinophilic pneumonia following AstraZeneca vaccination: <https://pubmed.ncbi.nlm.nih.gov/34812326/>

Pulmonary Embolus following Moderna: <https://pubmed.ncbi.nlm.nih.gov/34452028/>

2 cases of Pulmonary embolus following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34804412/>

## Cardiac:

### General:

Cardiovascular and hematological events post COVID-19 vaccination: a systemic review: <https://pubmed.ncbi.nlm.nih.gov/34967105/>

American Heart Association: Clinically Suspected Myocarditis Temporally Related to COVID-19 Vaccination in Adolescents and Young Adults <https://www.ahajournals.org/doi/abs/10.1161/CIRCULATIONAHA.121.056583>

American Heart Association: Observational Findings of PULS Cardiac Test Findings for Inflammatory Markers in Patients Receiving mRNA Vaccines [https://www.ahajournals.org/doi/abs/10.1161/circ.144.suppl\\_1.10712](https://www.ahajournals.org/doi/abs/10.1161/circ.144.suppl_1.10712)

Note the distinction between myocarditis, novel coronavirus myocarditis, and covid-19 vaccine associated



myocarditis: <https://pubmed.ncbi.nlm.nih.gov/34791441/>

JAMA article, concerns for perimyocarditis underreporting, review of 40 hospitals: <https://jamanetwork.com/journals/jama/fullarticle/2782900>

Intravenous injection of mRNA vaccine can induce acute myopericarditis in mouse model: <https://pubmed.ncbi.nlm.nih.gov/34406358/>

The Novel platform of mRNA vaccines and myocarditis: clues into the potential underlying mechanism: <https://pubmed.ncbi.nlm.nih.gov/34312010/>

Proposed pathogenesis, characteristics, and management of mRNA related myopericarditis: <https://pubmed.ncbi.nlm.nih.gov/34817850/>

mRNA and Pericarditis/myocarditis risk compared to other vaccine types: <https://pubmed.ncbi.nlm.nih.gov/34834458/>

ACS risk factor biomarkers increase after mRNA vaccination: [https://www.thecardiologysadvisor.com/home/topics/acs/acute-coronary-syndrome-acs-biomarkers-mrna-covid19-vaccine/?s=09&fbclid=IwAR2SRmzW0Aj1dESMuJITtcZHAHbRIldl6C2Hpztm8Co\\_46AV5qss\\_4-3NV8](https://www.thecardiologysadvisor.com/home/topics/acs/acute-coronary-syndrome-acs-biomarkers-mrna-covid19-vaccine/?s=09&fbclid=IwAR2SRmzW0Aj1dESMuJITtcZHAHbRIldl6C2Hpztm8Co_46AV5qss_4-3NV8)

A review of cardiac side effects from Pfizer and Moderna in Singapore: <https://pubmed.ncbi.nlm.nih.gov/34808708/>

Fatal fulminant necrotizing eosinophilic myocarditis following 1st dose Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34978002/>

Immune mediated necrotizing myopathy after Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34970746/>

Severe necrotizing myopathy after Pfizer and regimen of ipilimumab plus nivolumab in a patient with advanced melanoma: <https://pubmed.ncbi.nlm.nih.gov/34661938/>

## Myocarditis - Pericarditis - Reports:

1077 cases of myocarditis and 1149 pericarditis following vaccination in Nordic residents, a cohort study: <https://pubmed.ncbi.nlm.nih.gov/35442390/>

1626 cases of myocarditis in VAERS from Dec 2020-august 2021, a review (JAMA): <https://pubmed.ncbi.nlm.nih.gov/35076665/>

Myocarditis/myopericarditis in 269 individuals, a population based Danish cohort study: <https://pubmed.ncbi.nlm.nih.gov/34916207/>

Myocarditis in adolescents and adults following vaccination in 2021, review of 238 cases: <https://pubmed.ncbi.nlm.nih.gov/35449353/>

Review of 40 published case reports of myocarditis following covid vaccination: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8887934/>

Myopericarditis recurrence in a 27yoM after 3rd dose Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35602257/>

Biopsy proven fulminant myocarditis in a 48yoF following 2nd dose Moderna: <https://pubmed.ncbi.nlm.nih.gov/35187464/>

Fulminant myocarditis in a 80yoF following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35088026/>

8 cases of myocarditis after mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34133884/>



COVID-19 vaccine, myocardial infarction, and Kounis syndrome: <https://pubmed.ncbi.nlm.nih.gov/35104343/>

Myocarditis in a 17yoM following vaccination: <https://pubmed.ncbi.nlm.nih.gov/35105392/>

4 cases of myocarditis following Pfizer booster in Israel: <https://pubmed.ncbi.nlm.nih.gov/35100809/>

Moderna associated myopericarditis in a patient with a subclinical autoimmune predisposition: <https://pubmed.ncbi.nlm.nih.gov/34868402/>

Perimyocarditis in teens: <https://pubmed.ncbi.nlm.nih.gov/34077949/>

Vaccination associated myocarditis in Adolescents: <https://pubmed.ncbi.nlm.nih.gov/34389692/>

mRNA vaccination and myocarditis in adolescents: <https://pubmed.ncbi.nlm.nih.gov/34393110/>

Association of myocarditis with mRNA vaccination, a case review in children: <https://pubmed.ncbi.nlm.nih.gov/34374740/>

STEMI mimic: focal myocarditis in an adolescent patient after mRNA COVID-19 vaccine: <https://pubmed.ncbi.nlm.nih.gov/34756746/>

Recurrence of myocarditis after vaccination <https://pubmed.ncbi.nlm.nih.gov/34166671/>

Acute Myocardial Injury following COVID-19 vaccination: a case report and review of current evidence from VAERS: <https://pubmed.ncbi.nlm.nih.gov/34219532/>

Myocarditis in a 27yoM following Pfizer: CMR features: <https://pubmed.ncbi.nlm.nih.gov/35626190/>

Myocarditis in a 17yo Japanese male following Moderna: <https://pubmed.ncbi.nlm.nih.gov/35495897/>

Myocarditis and/or pericarditis after mRNA vaccination: head to head comparison of Moderna versus Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35750537/>

Fulminant myocarditis requiring ECMO in a 60yoF following 2nd dose Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35650138/>

Acute pericarditis following mRNA booster: <https://pubmed.ncbi.nlm.nih.gov/35308666/>

Myocarditis or pericarditis following mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/35749119/>

Myocarditis with hemorrhagic pericardial effusion following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35646594/>

Myopericarditis in young adults presenting to the ED: <https://pubmed.ncbi.nlm.nih.gov/34310793/>

Pericarditis following mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34364831/>

Symptomatic pericarditis following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34693198/>

Myocarditis following J&J in a healthy, young male: <https://pubmed.ncbi.nlm.nih.gov/34420869/>

Acute myocarditis after Moderna in young male: <https://pubmed.ncbi.nlm.nih.gov/34308326/>

Myocarditis in a healthy male: <https://pubmed.ncbi.nlm.nih.gov/34229940/>

Acute myocarditis following vaccination: <https://pubmed.ncbi.nlm.nih.gov/34331307/>





Acute myocarditis following Pfizer in a healthy man with previous COVID infection: <https://pubmed.ncbi.nlm.nih.gov/34367386/>

Acute fulminant myocarditis following mRNA vaccination requiring ECMO: <https://pubmed.ncbi.nlm.nih.gov/34778411/>

Myocarditis case report: <https://pubmed.ncbi.nlm.nih.gov/34118375/>

Case report: probable myocarditis after mRNA vaccine in a patient with arrhythmogenic left ventricular cardiomyopathy: <https://pubmed.ncbi.nlm.nih.gov/34712717/>

Myocarditis following mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34393273/>

A late presentation of vaccine induced myocarditis: <https://pubmed.ncbi.nlm.nih.gov/34660088/>

Myocarditis in 24yoM: <https://pubmed.ncbi.nlm.nih.gov/34268277/>

Myocarditis in a 24yoM nurse after Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34400043/>

Myocarditis in a 15yo following Pfizer: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8369878/>

Myopericarditis in a 16yo following vaccination <https://pubmed.ncbi.nlm.nih.gov/34133825/>

Myocarditis in a 16yo, late gadolinium enhancement: <https://pubmed.ncbi.nlm.nih.gov/34778788/>

Myocarditis in a 22yoM following Moderna: <https://pubmed.ncbi.nlm.nih.gov/34348657/>

4 cases of myocarditis after 3rd dose of Pfizer: magnetic resonance imaging study (18-44yo): <https://pubmed.ncbi.nlm.nih.gov/35310989/>

5 cases of myocarditis after Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34092429/>

7 cases of myocarditis after mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/35479661/>

Myocarditis presenting with hyperechoic nodule in a 17yoM following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35470603/>

Myocarditis in a 18yoM following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34804729/>

Myocarditis in a middle aged male with significant left ventricular dysfunction following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34795198/>

70yoF with myocarditis following J&J Vaccination: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8270733/>

Biopsy proven lymphocytic myocarditis following 1st mRNA vaccination in a 40yo: <https://pubmed.ncbi.nlm.nih.gov/34487236/>

Cardiac imaging of acute myocarditis following mRNA in a 24yoM: <https://pubmed.ncbi.nlm.nih.gov/34402228/>

Cardiac MRI findings in young adults following mRNA vaccination: a case series: <https://pubmed.ncbi.nlm.nih.gov/34496880/>

Case report: probable myocarditis after mRNA vaccine in a patient with arrhythmogenic left ventricular cardiomyopathy: <https://pubmed.ncbi.nlm.nih.gov/34712717/>

Myocarditis following mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34393273/>



A rare case of myocarditis and pulmonary embolism after Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35343473/>

A late presentation of vaccine induced myocarditis: <https://pubmed.ncbi.nlm.nih.gov/34660088/>

5 cases of myocarditis after Pfizer (age 16 and up): <https://pubmed.ncbi.nlm.nih.gov/34092429/>

Myocarditis in a 13yoM following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35475062/>

Follow-up cardiac magnetic resonance in 7 children with Pfizer vaccine associated myocarditis (80% with persistent abnormalities at 90 days): <https://pubmed.ncbi.nlm.nih.gov/35482094/>

7 cases of myocarditis after mRNA vaccination (age 16 and up): <https://pubmed.ncbi.nlm.nih.gov/35479661/>

Followup CMR imaging in 15 patients 6 months after Pfizer associated myocarditis (age 14-19): <https://pubmed.ncbi.nlm.nih.gov/35320390/>

Follow-up cardiac magnetic resonance (CMR) in 7 children with Pfizer vaccine associated myocarditis: <https://pubmed.ncbi.nlm.nih.gov/35482094/>

Followup CMR imaging in 15 patients 6 months after Pfizer associated myocarditis: <https://pubmed.ncbi.nlm.nih.gov/35320390/>

2 cases of myocarditis presenting with ST segment elevation in adolescent males after Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34180390/>

Cardiac complications following mRNA vaccination: a systematic review of case reports and case series: <https://pubmed.ncbi.nlm.nih.gov/34921468/>

Myopericarditis following mRNA vaccination: the role of cardiac biomarkers and multimodality imaging: <https://pubmed.ncbi.nlm.nih.gov/34487161/>

Myocarditis should be consider in those with a troponin rise and unobstructed arteries following Pfizer vaccination: <https://pubmed.ncbi.nlm.nih.gov/34463755/>

Myocarditis Associated with COVID-19 vaccination: echocardiography, cardiac tomography, and magnetic resonance imaging findings: <https://pubmed.ncbi.nlm.nih.gov/34428917/>

Cardiac magnetic resonance characteristics of acute myocarditis occurring after mRNA vaccine immunization: <https://pubmed.ncbi.nlm.nih.gov/34787887/>

Fulminant myocarditis and systemic hyperinflammation in 2 patients following mRNA: <https://pubmed.ncbi.nlm.nih.gov/34416319/>

2 cases of histological confirmed myocarditis following mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34407340/>

Myocarditis and Pericarditis: 2 case reports: <https://pubmed.ncbi.nlm.nih.gov/34277198/>

Two cases of myocarditis <https://pubmed.ncbi.nlm.nih.gov/34166884/>

3 cases of cardiac manifestation following Pfizer: <https://academic.oup.com/qjmed/advance-article/doi/10.1093/qjmed/hcab177/6311674>

4 cases of Myocarditis and their Cardiac MRI findings: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8245050/>

4 cases of myocarditis: <https://pubmed.ncbi.nlm.nih.gov/34396358/>



6 cases of men age 17-37 with myocarditis: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8219373/>

8 cases of myocarditis in adolescents following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34319393/>

13 cases of Myocarditis in adolescents following Pfizer: [https://www.jpeds.com/article/S0022-3476\(21\)00665-X/fulltext](https://www.jpeds.com/article/S0022-3476(21)00665-X/fulltext)

Review of 15 published cases of myocarditis: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8272967/>

Myocarditis and pericarditis due to mRNA vaccines in 19 cases: <https://pubmed.ncbi.nlm.nih.gov/34805376/>

Myocarditis in 23 military members: <https://jamanetwork.com/journals/jamacardiology/fullarticle/2781601>

Review of 29 published cases of acute myopericarditis following mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34356586/>

Review of 214 myocarditis cases: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8233865/>

### **Cardiomyopathy:**

Covid-19 vaccine associated Takotsubo cardiomyopathy: <https://pubmed.ncbi.nlm.nih.gov/34375049/>

63yoF with Takotsubo cardiomyopathy following Moderna: <https://pubmed.ncbi.nlm.nih.gov/34330629/>

Reverse takotsubo cardiomyopathy as a cause of acute chest pain in a young woman following COVID-19 vaccination: <https://pubmed.ncbi.nlm.nih.gov/34961327/>

### **Acute MI:**

3 cases of acute infarct-like myocarditis (2 Pfizer, 1 AstraZeneca): <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8325525/>

2 cases of acute MI <24 hours after mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34364657/>

Acute STEMI MI following AstraZeneca vaccination,?Kounis syndrome?: <https://pubmed.ncbi.nlm.nih.gov/34394944/>

Vaccine induced immune thrombocytopenia and thrombosis associated anterior ST-elevation myocardial infarction following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34486030/>

### **Hypertension:**

Hypertension following mRNA vaccination: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8206586/>

### **POTS:**

POTS following Pfizer: <https://www.cureus.com/articles/56242-a-case-of-postural-orthostatic-tachycardia-syndrome-secondary-to-the-messenger-rna-covid-19-vaccine>

Autonomic dysfunction post-inoculation with ChAdOx1 nCoV-19 vaccine  
<https://academic.oup.com/ehjcr/article/5/12/yt472/6444985>

### **Tachycardia:**

Isolated tachycardia in a 29yoF following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34466331/>

Tachycardia following Pfizer: 3 cases in those previously infected with COVID-19:  
<https://pubmed.ncbi.nlm.nih.gov/33858709/>

### **Long QT / Conduction Disturbance:**



VT storm in long QT resulting from COVID-19 vaccine allergy treated with epinephrine: <https://pubmed.ncbi.nlm.nih.gov/34791122/>

Long QT syndrome following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34804335/>

Two cases of vaccine induced cardiac conduction disturbance following Pfizer and AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34796078/>

Dizziness, HTN and new LBBB following AstraZeneca vaccination: <https://pubmed.ncbi.nlm.nih.gov/34508485/>

Frequent PVS and NSVT following 2nd dose of Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34275963/>

Unmasked type 1 Brugada pattern without fever in a 32yoM following Pfizer: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8776624/>

## Other:

Posttransplant lymphoproliferative disorder after AstraZeneca in a heart transplant recipient: <https://pubmed.ncbi.nlm.nih.gov/34702598/>

## Gastrointestinal:

Risk of adverse events and reported relapse after COVID-19 vaccination in patients with IBD: <https://pubmed.ncbi.nlm.nih.gov/34819330/>

## Gastroparesis:

Gastroparesis following Pfizer:

[https://journals.lww.com/ajg/Citation/9900/Gastroparesis\\_After\\_Pfizer\\_BioNTech\\_COVID\\_19.28.aspx](https://journals.lww.com/ajg/Citation/9900/Gastroparesis_After_Pfizer_BioNTech_COVID_19.28.aspx)

## Pancreas:

14yoF with acute pancreatitis following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35081801/>

17yoM with acute pancreatitis following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35053654/>

71yoF with acute pancreatitis following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35029194/>

Pancreatitis injury after Pfizer, a case report: <https://pubmed.ncbi.nlm.nih.gov/34205898/>

Acute Necrotizing Pancreatitis following 2nd dose of Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34423463/>

Acute Pancreatitis in a 96yoF following 1st dose of Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34084669/>

Pancreas allograft rejection following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34781027/>

## Hepatitis:

Cutaneous hypersensitivity reaction with acute hepatitis following Pfizer 2nd dose: <https://pubmed.ncbi.nlm.nih.gov/34485657/>

35yoF third month post partum with autoimmune hepatitis following vaccination: <https://pubmed.ncbi.nlm.nih.gov/33862041/>

Liver transplant in a 53yo healthy man due to vaccine induced autoimmune hepatitis and subsequent liver failure following Pfizer vaccination: <https://pubmed.ncbi.nlm.nih.gov/35175635/>

65yoM with autoimmune hepatitis following Moderna: <https://pubmed.ncbi.nlm.nih.gov/34717185/>



- 79yoM with AstraZeneca induced autoimmune hepatitis: <https://pubmed.ncbi.nlm.nih.gov/35013724/>
- Three cases of autoimmune hepatitis following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34904265/>
- A case of hepatotoxicity in 14yoF after receiving Pfizer vaccine: <https://pubmed.ncbi.nlm.nih.gov/35070524/>
- Post-transplant autoimmune recurrence following Pfizer vaccination: <https://pubmed.ncbi.nlm.nih.gov/35390478/>
- 27yoF with autoimmune hepatitis following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35437965/>
- 82yoF with history of HCV treatment with autoimmune hepatitis following COVID-19 vaccination: <https://pubmed.ncbi.nlm.nih.gov/35716255/>
- Development of hepatitis and colitis in a 52yoF with cancer during immunotherapy following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35694999/>
- Severe de novo liver injury after Moderna vaccination-not always autoimmune hepatitis: <https://pubmed.ncbi.nlm.nih.gov/35439566/>
- Liver injury and cytopenia in an adolescent following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35510521/>
- Clinical significance of hepatosplenic thrombosis in VITT after AstraZeneca vaccination: <https://pubmed.ncbi.nlm.nih.gov/34958931/>
- AMA-positive hepatitis in a 56yoF induced by Pfizer vaccine: <https://pubmed.ncbi.nlm.nih.gov/35040333/>
- Hepatic artery occlusion following Astrazeneca: <https://pubmed.ncbi.nlm.nih.gov/34926142/>
- Acute cholestatic hepatitis after Pfizer vaccine: <https://pubmed.ncbi.nlm.nih.gov/34256064/>
- 52yoF with autoimmune hepatitis following Moderna: <https://onlinelibrary.wiley.com/doi/10.1111/liv.15092>
- 41yo F with Autoimmune hepatitis following Moderna: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8197609/>
- 76yoF with autoimmune hepatitis following Moderna Vaccination: <https://pubmed.ncbi.nlm.nih.gov/34332438/>
- 71yoF with Autoimmune hepatitis after mRNA vaccine (Moderna): <https://www.sciencedirect.com/science/article/pii/S0168827821018961?via%3Dihub>
- 80yoF with autoimmune hepatitis following Pfizer: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8186938/>
- 63yoM with autoimmune hepatitis following Moderna: <https://pubmed.ncbi.nlm.nih.gov/34293683/>
- 61yoF with liver injury following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34430106/>
- 61yoF with autoimmune hepatitis following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34781161/>
- 35yoF with autoimmune hepatitis following Pfizer: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8056822/>
- New Onset autoimmune hepatitis following mRNA vaccination in a 36yoF with Primary sclerosing cholangitis: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8384483/>
- 56yoF with autoimmune hepatitis following Moderna: [https://www.journal-of-hepatology.eu/article/S0168-8278\(21\)00424-4/fulltext](https://www.journal-of-hepatology.eu/article/S0168-8278(21)00424-4/fulltext)
- Two cases of autoimmune hepatitis following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34225251/>



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16 cases of liver injury following Pfizer and Moderna: a multicenter case series: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8324396/>

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## Other:

Inflammatory Bowel Disease triggered by Pfizer vaccination: <https://pubmed.ncbi.nlm.nih.gov/34922342/>

De Novo Pediatric Ulcerative Colitis trigger by Pfizer: a tale of 2 sisters: <https://pubmed.ncbi.nlm.nih.gov/35762665/>

Ischemic colitis in a 48yoF after 2nd dose of covid019 inactivated vaccine: <https://pubmed.ncbi.nlm.nih.gov/35647139/>

Sclerosing Cholangitis: <https://pubmed.ncbi.nlm.nih.gov/34450237/>

Unusual fever, HA, and abdominal pain in a healthy woman following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34339677/>

Hepatic vein thrombosis due to TTS following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34432063/>

3 cases of portal vein thrombosis following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34776709/>

## Renal:

### ANCA:

ANCA glomerulonephritis after Moderna: [https://www.kidney-international.org/article/S0085-2538\(21\)00555-X/fulltext](https://www.kidney-international.org/article/S0085-2538(21)00555-X/fulltext)

Case report: ANCA vasculitis with acute renal failure and pulmonary hemorrhage after Moderna: <https://pubmed.ncbi.nlm.nih.gov/34859017/>

New onset ANCA vasculitis after Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34280507/>

ANCA associated Glomerulonephritis following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34423176/>

ANCA associated vasculitis presenting with Rhabdomyolysis and pauci-immune crescentic glomerulonephritis after Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34659268/>

Anti-GBM nephritis with mesangial IgA deposits following Moderna: <https://pubmed.ncbi.nlm.nih.gov/34119511/>

Concurrent antiglomerular basement membrane (Anti-GBM) nephritis and ANCA glomerulonephritis in a 23yoM following 2nd dose Moderna: <https://pubmed.ncbi.nlm.nih.gov/34746518/>

Two adolescent cases of acute tubulointerstitial nephritis after 2nd dose Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35385678/>

58yoF with Pfizer induced severe rhabdomyolysis with acute AKI requiring renal replacement therapy: <https://pubmed.ncbi.nlm.nih.gov/35747054/>

De novo and relapsing necrotizing vasculitis after mRNA vaccination, 5 cases: 4 cases of relapsing ANCA vasculitis and 1 de



novo polyarteritis nodosa: <https://pubmed.ncbi.nlm.nih.gov/35211310/>

COVID-19 vaccination precipitating de novo ANCA associated vasculitis: clinical implications:  
<https://pubmed.ncbi.nlm.nih.gov/35498903/>

PTU-induced ANCA-associated vasculitis after Pfizer vaccination: <https://pubmed.ncbi.nlm.nih.gov/34451967/>

Relapsed ANCA associated vasculitis following AstraZeneca: A case series of two patients:  
<https://pubmed.ncbi.nlm.nih.gov/34755433/>

ANCA associated vasculitis following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34416184/>

## **Nephrotic Syndrome:**

Nephrotic Syndrome following AstraZeneca: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8257404/>

New onset pediatric nephrotic syndrome following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34782983/>

Nephrotic syndrome and vasculitis following Pfizer, Moderna, and AstraZeneca: <https://academic.oup.com/ndt/advance-article/doi/10.1093/ndt/gfab215/6318785>

## **Minimal Change Disease:**

MCD relapse following Pfizer in a man in his mid-60s: <https://pubmed.ncbi.nlm.nih.gov/34023417/>

MCD relapse following Pfizer in a 34yoF: <https://pubmed.ncbi.nlm.nih.gov/33964312/>

Severe Minimal change disease relapse 3 days following Pfizer: <https://europepmc.org/article/pmc/pmc8156905>

Minimal Change Disease with nephrotic syndrome and AKI following Pfizer in a 50yoM: <https://pubmed.ncbi.nlm.nih.gov/33839200/>

Minimal change disease in a 18yoM following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35611026/>

Minimal change disease in a 25yoF following 1st dose Moderna: <https://pubmed.ncbi.nlm.nih.gov/35435622/>

Minimal change disease following Pfizer in a living kidney donor: <https://pubmed.ncbi.nlm.nih.gov/35056345/>

2 cases of nephrotic syndrome with minimal change disease following Pfizer:  
<https://pubmed.ncbi.nlm.nih.gov/35246429/>

Minimal change disease in 80's yoM following first dose of Pfizer: <https://pubmed.ncbi.nlm.nih.gov/33992727/>

Minimal change disease after 1st dose Pfizer 60yoM: <https://pubmed.ncbi.nlm.nih.gov/34804557/>

Minimal change disease and AKI in a 77yoM following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34000278/>

Minimal change disease 4 days after Pfizer in a 45yoF: <https://pubmed.ncbi.nlm.nih.gov/34721864/>

Minimal change disease in a 39yo after 1st dose of Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34143368/>

Minimal Change disease in a 63yoF following Moderna: <https://pubmed.ncbi.nlm.nih.gov/34048824/>

Minimal change disease in a 43yoM following Moderna: <https://pubmed.ncbi.nlm.nih.gov/34052236/>

Relapse of minimal change disease with severe nephrotic syndrome in a 22yoM following Moderna: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8156905/>





Minimal Change disease and Severe AKI following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34242687/>

Relapse of Minimal Change disease in a 30yoM following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34119512/>

New onset Nephrotic syndrome due to Minimal Change disease following J&J: <https://pubmed.ncbi.nlm.nih.gov/34342187/>

2 cases of minimal change disease following vaccination: <https://pubmed.ncbi.nlm.nih.gov/34779088/>

3 cases of minimal change disease following 2nd dose of mRNA vaccine: <https://pubmed.ncbi.nlm.nih.gov/34337193/>

13 cases of new or relapsing minima change disease following mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34632166/>

## **Nephropathy / IGA Vasculitis:**

Acute interstitial nephritis following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/35113012/>

Sibling cases of IgA nephropathy (15yoM and 18yoM) following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35729514/>

IgA nephropathy in a 12yoM after 1st dose Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35339305/>

IgA nephropathy relapse in a 54yoF following 2nd dose Moderna: <https://pubmed.ncbi.nlm.nih.gov/35392838/>

2 cases of macroscopic hematuria in children with IgA nephropathy remission following Pfizer (15yoF, 16yoF): <https://pubmed.ncbi.nlm.nih.gov/35301586/>

2 cases (19yoM, 50yoF), histologic correlates of gross hematuria following Moderna in patients with IgA nephropathy (recurrence of disease following vaccination): <https://pubmed.ncbi.nlm.nih.gov/34146600/>

Acute T-cell mediated rejection after Pfizer in a kidney transplant recipient: <https://pubmed.ncbi.nlm.nih.gov/35769849/>

Abrupt worsening of occult IgA nephropathy after first dose Pfizer in a Japanese woman in her 40s: <https://pubmed.ncbi.nlm.nih.gov/34988883/>

Development of IgA vasculitis with severe glomerulonephritis after Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35275366/>

New onset kidney biopsy proven IgA vasculitis in a 47yoM following Moderna: <https://pubmed.ncbi.nlm.nih.gov/35075622/>

2 cases of IgA vasculitis following Pfizer (22yoM and 30yoM): <https://pubmed.ncbi.nlm.nih.gov/35253880/>

19 cases of IgA vasculitis post COVID-19 vaccination: <https://pubmed.ncbi.nlm.nih.gov/35229346/>

Acute interstitial nephritis in a 63yoM following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35254639/>

2 cases of acute interstitial nephritis with concurrent nephrotic syndrome (69yoF and 60yoF) following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/35211313/>

New-onset kidney diseases after COVID-19 vaccination: a case series (5 patients): <https://pubmed.ncbi.nlm.nih.gov/35214760/>

Glomerular disease in temporal association with COVID-19 vaccination: a series of 29 cases: <https://pubmed.ncbi.nlm.nih.gov/35372991/>

New onset biopsy proven nephropathies after COVID vaccination, 17 patients:



<https://pubmed.ncbi.nlm.nih.gov/35354140/>

New-onset and relapse of nephrotic syndrome following COVID-19 vaccination, 27 patients in Japan, a questionnaire survey: <https://pubmed.ncbi.nlm.nih.gov/35569069/>

Clinical spectrum of gross haematuria following COVID-19 vaccination: <https://pubmed.ncbi.nlm.nih.gov/35498904/>

Atypical haemolytic uraemic syndrome following Pfizer in a 60yoF: <https://pubmed.ncbi.nlm.nih.gov/35756730/>

A case of acute interstitial nephritis following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34219853/>

Acute interstitial nephritis in a 45yoF following 2 doses of Pfizer:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8650829/>

Isolated renal arteritis with infarction after Pfizer COVID-19 vaccination: <https://pubmed.ncbi.nlm.nih.gov/35095058/>

13 cases of new or relapsed glomerulonephritis following mRNA vaccination:

<https://pubmed.ncbi.nlm.nih.gov/34632166/>

48 cases of new onset and relapsed kidney histopathology following COVID-19 vaccination:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8622870/>

New onset lupus in a 68yoF following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35294664/>

New onset of Class III lupus nephritis with multi-organ involvement after Pfizer:

<https://pubmed.ncbi.nlm.nih.gov/35108572/>

IgA nephropathy presenting as rapidly progressive glomerulonephritis in a 13yo following 1st dose of Pfizer

IgA and crescentic glomerulonephritis following Pfizer

17yoM with newly diagnosed IgA nephropathy with gross hematuria following Pfizer vaccination:

<https://pubmed.ncbi.nlm.nih.gov/34865167/>

17yoF with IgA nephropathy following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35118635/>

IgA nephropathy in a 28yoF following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35110484/>

28yoF with flare up of IgA nephropathy following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35108771/>

29yoF with hematuria and likely IgA nephritis following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35102819/>

IgA nephropathy flare up following Moderna: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8079938/>

IgA Nephropathy after mRNA vaccine: <https://pubmed.ncbi.nlm.nih.gov/34278290/>

IgA nephropathy flare-up following vaccination: <https://pubmed.ncbi.nlm.nih.gov/34415336/>

IgA nephropathy following vaccination in a renal transplant recipient with a history of aristolochic acid nephropathy: <https://pubmed.ncbi.nlm.nih.gov/34816609/>

IgA nephropathy in 2 pediatric patients after Pfizer (13 and

17yo): <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8256683/>

3 cases of IgA nephropathy patients developing exacerbations following mRNA vaccine: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8166778/>



2 cases of IgA nephropathy patients developing exacerbations following moderna: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7987498/>

2 cases of IgA Nephropathy patients developing hematuria after Pfizer: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8329426/>

Reactivation of IgA vasculitis following Moderna: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8260100/>

Reactivation of IgA vasculitis following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34848431/>

Case of IgA vasculitis following Pfizer vaccination: <https://pubmed.ncbi.nlm.nih.gov/34535924/>

IgA vasculitis following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34509658/>

IgA vasculitis with renal and skin involvement following vaccination: <https://pubmed.ncbi.nlm.nih.gov/34779011/>

Membranous nephropathy following mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34419553/>

Membranous nephropathy following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34332960/>

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Gross hematuria after mRNA vaccination in two patients with histological and clinical diagnosis of IgA nephropathy: <https://pubmed.ncbi.nlm.nih.gov/34766415/>

Gross hematuria after Moderna vaccination for COVID in 2 patients with IgA nephropathy: <https://pubmed.ncbi.nlm.nih.gov/33771584/>

Distinct glomerular disease after mRNA vaccination: A Vigibase analysis: <https://pubmed.ncbi.nlm.nih.gov/34822875/>

Renal Thrombotic Microangiopathy following Pfizer in a 35yoM: <https://pubmed.ncbi.nlm.nih.gov/34451509/>

Glomerulopathies after vaccination against covid-19: four cases with three different vaccines in Argentina: <https://pubmed.ncbi.nlm.nih.gov/34728874/>

## Rheumatology/Endocrinology/Orthopedics:

### General:

Cutaneous lupus erythematosus-like reaction following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35754159/>

Hyper-inflammation after COVID-19 mRNA vaccination: at the cross roads of multi-inflammatory disease and adult onset still's disease <https://pubmed.ncbi.nlm.nih.gov/34487678/>

Immune mediated disease flares: <https://pubmed.ncbi.nlm.nih.gov/33946748/>

Local and systemic reactogenicity of Pfizer in patients with systemic lupus and rheumatoid arthritis: <https://pubmed.ncbi.nlm.nih.gov/34476603/>

Incidence of disease flare after Pfizer vaccination in patients with rheumatoid arthritis in remission: <https://pubmed.ncbi.nlm.nih.gov/34472714/>

11% of patients with rheumatic and MSK diseases report disease flare following 2 dose mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34346185/>



## Macrophage Activation Syndrome:

Macrophage activation syndrome in a patient with adult-onset Still's disease following first dose of Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34961551/>

## Still's Disease:

Adult onset Still's disease following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34316728/>

Adult onset Still's disease after AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/35186544/>

Flare up of adult onset Still's disease in a 37yoF following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34622765/>

Adult onset Still's disease in a 43yoM following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34763089/>

Flare of adult onset still's disease following Pfizer in a 49yoF: <https://pubmed.ncbi.nlm.nih.gov/35182269/>

Still's disease in a 34yoF following AstraZeneca vaccination: <https://pubmed.ncbi.nlm.nih.gov/34797392/>

Adult onset Still's disease in a 36yo following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34962116/>

Adult onset Still's disease following mRNA vaccine: <https://pubmed.ncbi.nlm.nih.gov/34316726/>

## Lupus:

New onset systemic lupus erythematosus beginning as class V lupus nephritis after COVID-19 vaccination: <https://pubmed.ncbi.nlm.nih.gov/34560139/>

Lupus nephritis flare following Moderna: <https://pubmed.ncbi.nlm.nih.gov/34791449/>

Lupus exacerbation: <https://onlinelibrary.wiley.com/doi/10.1111/dth.15017>

New-onset systemic lupus erythematosus after AstraZeneca and alopecia areata after Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35770484/>

Lupus exacerbation following mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34291477/>

27 cases of lupus flare following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34782941/>

New onset lupus following mRNA vaccination in a 27yoF: <https://pubmed.ncbi.nlm.nih.gov/35186342/>

Systemic lupus following AstraZeneca vaccination: <https://pubmed.ncbi.nlm.nih.gov/34418261/>

Relapse of class V lupus. Nephritis after mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34352310/>

Subacute cutaneous lupus erythematosus flare triggered by Moderna: <https://pubmed.ncbi.nlm.nih.gov/34455671/>

Subacute cutaneous lupus erythematosus after Pfizer in a woman with primary biliary cholangitis: <https://pubmed.ncbi.nlm.nih.gov/34807495/>

New onset lupus, pancreatitis, and vasculitic rash in a 22yoF following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35175446/>

Emergence of new onset SLE following vaccination: <https://pubmed.ncbi.nlm.nih.gov/34450645/>

## Hyperglycemic / Glucose:

COVID-19 vaccine and hyperosmolar hyperglycemic state: <https://pubmed.ncbi.nlm.nih.gov/33927933/>



Acute Hyperglycemic crisis: a case series of 3 patients following AstraZeneca: <https://onlinelibrary.wiley.com/doi/abs/10.1111/dme.14631>

Newly developed type 1 diabetes after Moderna in a 73yoF: <https://pubmed.ncbi.nlm.nih.gov/35088548/>

3 cases of exacerbation of hyperglycemia in patients with type 2 diabetes following AstraZeneca: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8143905/>

3 cases of hyperglycemic emergencies following Pfizer and Moderna: <https://pubmed.ncbi.nlm.nih.gov/34604689/>

Perturbation of blood glucose following vaccination, a review of 20 adults: <https://pubmed.ncbi.nlm.nih.gov/34375490/>

Hypertriglyceridemia following Pfizer vaccination in a patient with familial hypercholesteremia: <https://pubmed.ncbi.nlm.nih.gov/34533798/>

## Thyroid:

Silent thyroiditis following Pfizer, subacute thyroiditis following moderna, and Graves disease following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34792795/>

Subacute thyroiditis after COVID-19 vaccination: <https://pubmed.ncbi.nlm.nih.gov/35095149/>

SARS-CoV-2 vaccine-associated subacute thyroiditis: insights from a systematic review: <https://pubmed.ncbi.nlm.nih.gov/35094372/>

11 cases of COVID-19 vaccine induced subacute thyroiditis: <https://pubmed.ncbi.nlm.nih.gov/35182366/>

Subacute Thyroiditis: [https://www.tandfonline.com/doi/abs/10.1080/21645515.2021.1947102?fbclid=IwAR02FYW94iQGbu6e2uTpD42Xolw\\_p6QHwhDBWotULtT4ZCGR5sVKkyexbRg](https://www.tandfonline.com/doi/abs/10.1080/21645515.2021.1947102?fbclid=IwAR02FYW94iQGbu6e2uTpD42Xolw_p6QHwhDBWotULtT4ZCGR5sVKkyexbRg)

Subacute thyroiditis following vaccination: <https://pubmed.ncbi.nlm.nih.gov/34690055/>

Subacute thyroiditis following Moderna vaccination: <https://pubmed.ncbi.nlm.nih.gov/34777881/>

Subacute thyroiditis following Pfizer: a tale of two sisters: <https://pubmed.ncbi.nlm.nih.gov/34686971/>

Subacute thyroiditis associated thyrotoxic periodic paralysis in a 26yoF following 2nd dose Moderna: <https://pubmed.ncbi.nlm.nih.gov/35578985/>

42yoF with subacute thyroiditis following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34907904/>

Thyroiditis after mRNA vaccine: a case series: <https://pubmed.ncbi.nlm.nih.gov/34934810/>

Two cases of subacute thyroiditis after Moderna and AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34504856/>

4 cases of subacute thyroiditis after Pfizer vaccine: <https://pubmed.ncbi.nlm.nih.gov/34893014/>

Two cases of thyroiditis after Pfizer and AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34693241/>

New onset Graves disease following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34888290/>

Graves disease following 2nd dose of Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34969799/>

Graves disease following mRNA COVID-19 vaccination: case series: <https://pubmed.ncbi.nlm.nih.gov/34939881/>



New onset Graves disease and autoimmune diabetes mellitus following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34653776/>

Two cases of Graves disease following vaccination: <https://pubmed.ncbi.nlm.nih.gov/33858208/>

Two more cases of Graves disease following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34342859/>

Hyperthyroidism following vaccination: <https://pubmed.ncbi.nlm.nih.gov/34696214/>

Incidental findings on a TC99M-SESTAMIBI parathyroid scan post Moderna vaccination in a 48yoF: <https://pubmed.ncbi.nlm.nih.gov/35535123/>

## **Adrenal:**

5 cases of adrenal crisis following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34358373/>

Myositis in a 56yoF following mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/33647971/>

COVID-19 vaccine induced cellulitis and myositis: <https://pubmed.ncbi.nlm.nih.gov/34857596/>

New onset giant cell arteritis following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/35112193/>

2 cases of Löfgren's syndrome following AstraZeneca and Moderna vaccination: <https://pubmed.ncbi.nlm.nih.gov/34835244/>

mRNA induced rhabdomyolysis and fasciitis: <https://pubmed.ncbi.nlm.nih.gov/34435250/>

Rhabdomyolysis after Moderna: <https://pubmed.ncbi.nlm.nih.gov/34150372/>

21yoM with Pfizer induced rhabdomyolysis: <https://pubmed.ncbi.nlm.nih.gov/34186348/>

## **Inflammation / Arthritis:**

Spectrum of short-term inflammatory musculoskeletal manifestations after COVID-19 vaccine administration: a report of 66 cases: <https://pubmed.ncbi.nlm.nih.gov/34836886/>

Cubital tunnel syndrome temporally following Moderna in a 28yoF: <https://pubmed.ncbi.nlm.nih.gov/35448837/>

New-onset polymyalgia rheumatica in a 80yoF following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34897152/>

Polymyalgia rheumatica following covid-19 vaccination: a case series of ten patients: <https://pubmed.ncbi.nlm.nih.gov/34954076/>

Relapse of polymyalgia rheumatica in a 83yoM: <https://pubmed.ncbi.nlm.nih.gov/33588357/>

2 cases of polymyalgia rheumatica and 1 case of giant cell arteritis following COVID-19 vaccination: <https://pubmed.ncbi.nlm.nih.gov/34600148/>

50yoM with clinical syndrome of HSP including IgA leukocytoclastic vasculitis on skin biopsy following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34984055/>

Quadrilateral space region inflammation and other incidental findings on shoulder MRI following Pfizer COVID-19 vaccination: <https://pubmed.ncbi.nlm.nih.gov/34306275/>

Rash, arthritis, swelling, muscle weakness following AstraZeneca: <https://onlinelibrary.wiley.com/doi/abs/10.1002/jmv.27175>



Self-limiting polymyalgia rheumatic-like syndrome following Moderna vaccination:

<https://pubmed.ncbi.nlm.nih.gov/34980802/>

Polyarthralgia and Myalgia syndrome after AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34463066/>

Severe polyarthralgia in elderly female following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34835151/>

Arthritis in the L elbow following vaccination: <https://pubmed.ncbi.nlm.nih.gov/34363344/>

Vasculitis and bursitis on 18F FDG-PET/CT following mRNA vaccination: <https://pubmed.ncbi.nlm.nih.gov/34495381/>

Remitting seronegative symmetrical synovitis with pitting edema following

Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34348912/>

COVID-19 vaccination and large vessel giant cell arteritis: <https://pubmed.ncbi.nlm.nih.gov/34788208/>

## **HSP:**

40yoF with Henoch-Schonlein Purpura (HSP) following Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34247902/>

45yoF with reactivation of HSP following Pfizer booster: <https://pubmed.ncbi.nlm.nih.gov/34745629/>

62yo with HSP following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34518812/>

76yoF with HSP following AstraZeneca: <https://pubmed.ncbi.nlm.nih.gov/34696186/>

## **Psoriasis:**

New onset mainly guttate psoriasis after Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34309932/>

2 cases of exacerbation of plaque psoriasis after Pfizer and CoronaVac: <https://pubmed.ncbi.nlm.nih.gov/34427024/>

Psoriatic spondyloarthritis exacerbation triggered by mRNA vaccine: <https://pubmed.ncbi.nlm.nih.gov/35176180/>

Psoriasis exacerbation in a 46yoM after 2nd dose Pfizer: <https://pubmed.ncbi.nlm.nih.gov/34131967/>

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