Post-Covid-19 Syndrome: A Dedicated Cardiology Clinic

Dr H Sinclair * and Dr D Sado **

* Consultant Cardiologist Guy's and St Thomas' Hospital, ** Consultant Cardiologist King's College Hospital

Palpitations

Awareness of your heart beating can occu

in patients with Post COVID syndrome. It

beat, beating inegularly or beating strongly

nmon abnormal rhythms include attial

kerwird"palpitations&dang"en

may feel like is going too fast, missing a

Abnormal heart rhythms are more common during COVID-19 infection and

for a short period of time afterwards.

fibrillation and atrial flutter. In some

https://www.bhf.org.uk/informatio

Website at:

tachivcardia.

patients estra heart beats can occur called ectopics. More information can be found on these on the British Heart Foundation Withdus etc.

If any of these are suspected you will have

activity in the heart. You may also need to

In some cases, heart rate monitoring will

show periods of fast heart rate, but with normal heart rhythm. This is called sinus

Sinus Tachycardia

(Fast Heart Rate with

Normal Heart

Rhythm)

In order to allow better delivery of blood to

tissues, your heart rate will and should

increase in response to stress. Such stress might be physical or mental.

an ECG, which records the electrical

have a 24-hour heart rate monitor.

INTRODUCTION

Approximately 10% of people experience prolonged illness after Covid-19.1 When signs and symptoms continue for >12 weeks and are not explained by an alternative diagnosis, this is referred to as 'Post-Covid Syndrome'.1+2 These symptoms are wide ranging and multisystem. Specific cardiac symptoms include palpitations, chest pain, breathlessness (not explained by respiratory investigations) and dizziness/pre-syncope.

PROJECT AIMS

- 1. To provide a dedicated clinic for patients experiencing cardiac symptoms and/or abnormal cardiac investigations post Covid-19 infection.
- To collaborate with other Cardiologists looking after 2. this cohort of patients

SCOPING WORK

- Initial liaison with our local respiratory physicians 1. identified a cohort of patients requiring a specialist cardiology opinion.
- 2. Collaboration with other interested cardiologists around London resulted in a weekly teleconference meeting to share experience and ideas.
- 3. A Referral Pathway was developed to guide local GPs as to which patients may benefit from a Cardiology Specialist opinion (Figure 1). A patient information leaflet developed 'Post Covid Syndrome and the Heart' (Figure 2).
- Cardiology presence at weekly multi-disciplinary 4. COVID team meeting to understand local strategy and resources.



To date, 22 patients have been reviewed in the Guy's and St Thomas' dedicated clinic. Mean age 45 (range 25-70), and 46% female.

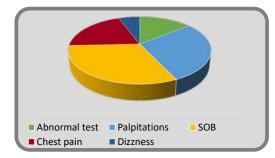


Table 1: Symptoms of patients seen in Post-Covid Cardiology clinic

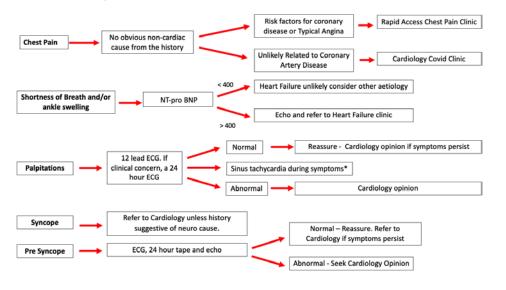


Figure 1: Proposed pathway for General Practitioners. * Reassure/encourage fluid and salt intake. Consider asking patient to stop home monitoring. Seek Cardiology opinion if symptoms persist.

The control of this is via the nervous system of the body, which allows the brain to communicate with the natural pacemaker of the heart (the size-atrial node) and tell it to beat faster when needed Some patients with Post COVID syndrome have what might appear to be "inappropriate" sinus tachycardia. This is where the degree of

diovascular fitness or lung problems meaning that your heart has to work harder at losser and have be Sometimes, fatigue, dehvdration or mental stres will also result in sinus tachycardia. A "vicious circle" can occur in patients who self-monitor heir heart rates; seeing a higher than expected heart rate causes anxiety resulting in mental stress which further drives the tachycardia and exacerbates the problem.

It is important to recognise that sinus tachycardia alone is very rarely doe to a heart problem. In most cases any "inappropriate" sinus tachycardia in Post COVID syndrome will esolve over time as you get better without the need for any drug treatment. Insperopriate sinos tachycardia will not result in any damag to your heart function.

If you have inappropriate sinus tachycardia, we firstly will look to reassure you that you do not ave heart disease and then encou keep hydrated and add salt to your diet as both measures can be very helpful in helping to prevent symptoms. We often discourage telf. monitoring of heart rate. If you still have

unpleasant symptoms despite this, we will liscuss the potential to use i beta blockers to help

heart rate response to mild exertion seems exaggerated. This might be due to COVID 19 infection resulting in de-conditioning. Joss of

and the Heart A Guide for Patients



Post COVID Syndrome

Dr Dan Sado and Dr Hannah Sinclair Kings College Hospital Guess and St Thomas Hospital

Figure 2: 'Post-Covid Syndrome and the Heart' Patient information leaflet.



OUTCOMES

Of the 18 patients who have completed their investigations 5 (28%) had evidence of myocarditis, 9 (50%) had no cardiac pathology and were reassured, 3 (17%) had coronary artery disease managed medically and 1 had an incidental diagnosis of hypertrophic cardiomyopathy.

CONCLUSION

- 1. Half of patients had no significant cardiac pathology and simply needed reassurance and lifestyle advice. At follow-up these patients slowly improved.
- 2. Collaboration with colleagues involved in this cohort of patients was essential to pool knowledge and seek a collaborative opinion.
- 3. Anecdotally, those with palpitations and inappropriate sinus tachycardia responded very well to b-blockers. Evidence is urgently needed to guide optimal management in this cohort.

REFERENCES

1. Greenhalgh et al. Management of post-acute covid-19 in primary care. BMJ. 2020;370.

2. NICE COVID-19 rapid guideline : managing the I/t effects of C-19. NICE 2020;(18 Dec 2020):1-35.

ACKNOWLEDGEMENTS

Thanks to Dr Graham Cole (Imperial College), Dr Robert Bell (University College London Hospital), Dr Simon Pearce (Kingston Hospital) and Dr Oliver Guttmann (St Bartholomew's Hospital) for sharing their knowledge and expertise.

CORRESPONDENCE

Hannah.sinclair1@nhs.net