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## Evidence Search Service Results of your search request

## Title: Long-COVID

Thank you for requesting this evidence search. We hope you find the results useful. If you would like to discuss the findings or require an additional search, please contact: Karen Skinner at [karen.skinner2@nhs.net](mailto:karen.skinner2@nhs.net%20)

Please acknowledge this work in any resulting paper or presentation as: Evidence search: Long-COVID. Karen Skinner. (18th December, 2020). REDHILL, UK: Surrey and Sussex Library and Knowledge Services.

## Search notes

While a number of ongoing systematic reviews were found:

eg. A mixed methods systematic review of post-viral fatigue interventions: are there lessons for long Covid-19?

[*https://www.crd.york.ac.uk/prospero/display\_record.php?ID=CRD42020214209*](https://www.crd.york.ac.uk/prospero/display_record.php?ID=CRD42020214209)

and a pilot study:

Pilot Study Into LDN and NAD+ for Treatment of Patients With Post-COVID-19 Syndrome

[*https://www.cochranelibrary.com/central/doi/10.1002/central/CN-02196923/full*](https://www.cochranelibrary.com/central/doi/10.1002/central/CN-02196923/full)

The majority of references found were editorial features and/or statements from key organisations and professional bodies, examples of which have been provided: See BMJ Covid-19: What do we know about "long covid"? and The Lancet: Facing up to long COVID.

The few retrieved CCG documents citing Long Covid mostly linked directly to either the NHS England or RCGP documents, or had patient-orientated information:

eg. Bristol, North Somerset & South Gloucester: Long Covid

[*https://remedy.bnssgccg.nhs.uk/covid-19/long-covid/*](https://remedy.bnssgccg.nhs.uk/covid-19/long-covid/)

However, South East London, Cambridge & Peterborough and Leeds CCGs provide information for healthcare professionals, which is included in the results below.

Only NHS England & NHS Improvement London appear to have produced/published a comprehensive guidance document (again, included in results).

Very little completed research was found.

## Contents

[A. National and International Guidance](#Content1)

NHS England & NHS Improvement

[National guidance for post-COVID syndrome assessment clinics](#Research807387)

National Institute for Health and Care Excellence (NICE)

[COVID-19 rapid guideline: managing the long-term effects of COVID-19](#Research809010)

Public Health England (PHE)

[COVID-19: long-term health effects](#Research807595)

[B. Synopses or Summaries](#Content2)

British Medical Journal

[Covid-19: What do we know about "long covid"?](#Research807201)

[Management of post-acute covid-19 in primary care.](#Research807205)

Cambridgeshire and Peterborough Clinical Commissioning Group

[COVID-19 Resources: Long COVID](#Research807388)

Committees.Parliament.UK

[‘Long Covid’: evidence, recommendations and priority research questions](#Research807684)

NHS England & NHS Improvement London

[COVID-19: Guidance for the commissioning of clinics for recovery and rehabilitation](#Research808327)

NHS Leeds CCG

[Post COVID-19 pathway and guidance](#Research808322)

National Health Executive

[More than 60 clinics to support Long Covid patients](#Research808908)

National Institute for Health Research (NIHR)

[Living with Covid19](#Research807971)

Office of National Statistics (ONS)

[Prevalence of long COVID symptoms and COVID-19 complications](#Research808927)

Royal College of General Practitioners (RCGP)

[Management of the long term effects of COVID-19](#Research807197)

South East London CCG

[COVID-19 clinical support](#Research807297)

The Lancet

[Facing up to long COVID](#Research808848)

[C. Original Research](#Content5)

1. ['Long-COVID': a cross-sectional study of persisting symptoms, biomarker and imaging abnormalities following hospitalisation for COVID-19.](#Research807204)
2. [Autonomic dysfunction in 'long COVID': rationale, physiology and management strategies.](#Research807199)
3. [Case report and systematic review suggest that children may experience similar long-term effects to adults after clinical COVID-19.](#Research807200)
4. [Exploiting Existing Molecular Scaffolds for Long-Term COVID Treatment](#Research808910)
5. [Postdischarge symptoms and rehabilitation needs in survivors of COVID‐19 infection: A cross‐sectional evaluation](#Research808901)

## A. National and International Guidance

#### NHS England & NHS Improvement

**National guidance for post-COVID syndrome assessment clinics** (2020)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=61d3edae007765c033b0a4ce7b887393)

Commissioning guidance to assist local healthcare systems to establish post-COVID assessment clinics for patients experiencing long-term health effects following COVID-19 infection.

#### National Institute for Health and Care Excellence (NICE)

**COVID-19 rapid guideline: managing the long-term effects of COVID-19** (2020)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=e39a94c703bf267d2706faedb2b15439)

NICE guideline [NG188] 18th December

#### Public Health England (PHE)

**COVID-19: long-term health effects** (2020)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=4aec22bfe0e7c621b84fe9d43b3f67b5)

## B. Synopses or Summaries

#### British Medical Journal

**Covid-19: What do we know about "long covid"?** (2020) E Mahase

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=d9414b39324bf187b7e947cdcfa6d813)

BMJ webinar: Long covid: How to define it and how to manage it

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=b402a6df90863189ad1a51473c1b000d)

**Management of post-acute covid-19 in primary care.** (2020)

Greenhalgh Trisha, Knight Matthew, A'Court Christine, Buxton Maria, Husain Laiba

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=f06ec8a7a0a01220c940b52a10fd3456)

Long COVID: A Primer for Family Physicians *American Family Physician December 2020 v102 (12) T Greenhalgh and M Knight*

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=7ce1a621484d6350f7528744f4bf3a86)

#### Cambridgeshire and Peterborough Clinical Commissioning Group

**COVID-19 Resources: Long COVID** (2020)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=c047b516897f11a1ca52c426e3e4ed58)

Links to pathways, points of contact and signposting

#### Committees.Parliament.UK

**‘Long Covid’: evidence, recommendations and priority research questions** (2020)

T Greenhalgh et al

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=036c905cbb382810c4a0c6298d19d95d)

*This written evidence was also found on the Royal College of Nursing website*

#### NHS England & NHS Improvement London

**COVID-19: Guidance for the commissioning of clinics for recovery and rehabilitation** (2020)

UCL partners

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=c65976a5fcdad0f8cf67f098a2ecc0c0)

Have requested up to date version and will forward when received.

#### NHS Leeds CCG

**Post COVID-19 pathway and guidance** (2020)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=86a4c1243ce8f61f9e67645b0e373245)

#### National Health Executive

**More than 60 clinics to support Long Covid patients** (2020)

Matt Roberts

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=f765aeeeb7ab6f4508db0a8d85aa81de)

NHE update 18th December

#### National Institute for Health Research (NIHR)

**Living with Covid19** (2020)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=37c23169d3c2fa6c0bcf578d447fd0ad)

A dynamic review of the evidence around ongoing Covid19 symptoms (often called Long Covid).

#### Office of National Statistics (ONS)

**Prevalence of long COVID symptoms and COVID-19 complications** (2020)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=fd35dff27be5d55aeda385063a040965)

16th December edition of dataset

#### Royal College of General Practitioners (RCGP)

**Management of the long term effects of COVID-19** (2020)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=20902bfb9c0d3062855b93911ae84571)

The RCGP response.

#### South East London CCG

**COVID-19 clinical support** (2020)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=3d656358181d61f217081e471dbba866)

See Post / long Covid-19

#### The Lancet

**Facing up to long COVID** (2020)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=12e4772fc9c6c505b73b9c9ef42bd6d5)

Editorial

## C. Original Research

1. **'Long-COVID': a cross-sectional study of persisting symptoms, biomarker and imaging abnormalities following hospitalisation for COVID-19.**  
   Mandal Swapna Thorax 2020.

**PDF supplied.** "Large numbers of people are being discharged from hospital following COVID-19 without assessment of recovery. In 384 patients (mean age 59.9 years; 62% male) followed a median 54 days post discharge, 53% reported persistent breathlessness, 34% cough and 69% fatigue. 14.6% had depression. In those discharged with elevated biomarkers, 30.1% and 9.5% had persistently elevated d-dimer and C reactive protein, respectively. 38% of chest radiographs remained abnormal with 9% deteriorating. Systematic follow-up after hospitalisation with COVID-19 identifies the trajectory of physical and psychological symptom burden, recovery of blood biomarkers and imaging which could be used to inform the need for rehabilitation and/or further investigation. “

1. **Autonomic dysfunction in 'long COVID': rationale, physiology and management strategies.**  
   Dani Melanie Clinical medicine (London, England) 2020.

**PDF supplied**. The SARS-CoV-2 (COVID-19) pandemic has caused unprecedented morbidity, mortality and global disruption. Following the initial surge of infections, focus shifted to managing the longer-term sequelae of illness in survivors. 'Post-acute COVID' (known colloquially as 'long COVID') is emerging as a prevalent syndrome. It encompasses a plethora of debilitating symptoms (including breathlessness, chest pain, palpitations and orthostatic intolerance) which can last for weeks or more following mild illness. We describe a series of individuals with symptoms of 'long COVID', and we posit that this condition may be related to a virus- or immune-mediated disruption of the autonomic nervous system resulting in orthostatic intolerance syndromes. We suggest that all physicians should be equipped to recognise such cases, appreciate the symptom burden and provide supportive management. We present our rationale for an underlying impaired autonomic physiology post-COVID-19 and suggest means of management. (© Royal College of Physicians 2020. All rights reserved.)

1. **Case report and systematic review suggest that children may experience similar long-term effects to adults after clinical COVID-19.**  
   Ludvigsson Jonas F. Acta paediatrica (Oslo, Norway: 1992) 2020;:No page numbers.

Aim: Persistent symptoms in adults after COVID-19 are emerging and the term long COVID is increasingly appearing in the literature. However, paediatric data are scarce.; Methods: This paper contains a case report of five Swedish children and the long-term symptoms reported by their parents. It also includes a systematic literature review of the MEDLINE, EMBASE and Web of Science databases and the medRxiv/bioRxiv pre-print servers up to 2 November 2020.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=9cb6fd706873a9a57fea7131287eeab0)

1. **Exploiting Existing Molecular Scaffolds for Long-Term COVID Treatment**  
   K Kumar & TJ Lupoli ACS Medicinal Chemistry 2020 ;11:1357-60.

"This perspective provides an overview of important molecular pathways involved in the viral life cycle of SARS-CoV-2, the infectious agent of COVID-19."

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=f29954157ea36cd5ba1fc5c004aa7c6e)

1. **Postdischarge symptoms and rehabilitation needs in survivors of COVID‐19 infection: A cross‐sectional evaluation**  
   SJ Halpin et al Journal of Medical Virology 2020; July:1-10.

"A purposive sample of 100 survivors discharged from a large UK University hospital were assessed 4 to 8 weeks after discharge by a multidisciplinary team of rehabilitation professionals using a specialist telephone screening tool designed to capture symptoms and impact on daily life."

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=a0109e2c0154f378532b727d50029155)

 For more information about the resources please go to: <http://www.surreyandsussexlibraryservices.nhs.uk>

If you would like to request any articles please use our online [request form](http://www.surreyandsussexlibraryservices.nhs.uk/useful-resources/requests/article-request-form/)

**ID of request:** 26683  
**Date of request:** 14th December, 2020  
**Date of completion:** 18th December, 2020

Search for local Public Health Lead

**Sources searched**  
  
Cochrane Library  
Google (Advanced) domain search   
Gov.uk   
MEDLINE (EBSCO)  
NHS Confederation   
NHS England   
National Institute for Health Research (NIHR)   
National Institute for Health and Care Excellence (NICE)   
Office for National Statistics (ONS)

ProQuest Public health Database

Public Health England  
Reference checking

TRIP database

**Date range used** (5 years, 10 years): 2020   
**Limits used** (gender, article/study type, etc.): English language   
**Search terms and notes** (full search strategy for database searches below)

**Reviewer’s note:** For examples of more comprehensive database search strategies on Long Covid, see <https://kfh.libraryservices.nhs.uk/covid-19-coronavirus/for-lks-staff/literature-searches/#readymade>

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| --- | --- | --- | --- | --- |
| S12 | S4 AND S8 | Expanders - Apply equivalent subjects Search modes - Boolean/Phrase | Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - MEDLINE | 8 |
| S11 | S4 AND S10 | Expanders - Apply equivalent subjects Search modes - Boolean/Phrase | Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - MEDLINE | 1 |
| S10 | S8 AND S9 | Expanders - Apply equivalent subjects Search modes - Boolean/Phrase | Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - MEDLINE | 10,599 |
| S9 | S5 OR S6 OR S7 | Expanders - Apply equivalent subjects Search modes - Boolean/Phrase | Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - MEDLINE | 1,443,042 |
| S8 | S2 OR S3 | Expanders - Apply equivalent subjects Search modes - Boolean/Phrase | Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - MEDLINE | 93,608 |
| S7 | "management" | Expanders - Apply equivalent subjects Search modes - Boolean/Phrase | Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - MEDLINE | 1,440,032 |
| S6 | (MH "Physical and Rehabilitation Medicine") | Expanders - Apply equivalent subjects Search modes - Boolean/Phrase | Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - MEDLINE | 3,253 |
| S5 | (MH "Disease Management") | Expanders - Apply equivalent subjects Search modes - Boolean/Phrase | Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - MEDLINE | 37,310 |
| S4 | "post-acute COVID" or "post-covid syndrome" | Expanders - Apply equivalent subjects Search modes - Boolean/Phrase | Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - MEDLINE | 11 |
| S3 | "coronavirus" | Expanders - Apply equivalent subjects Search modes - Boolean/Phrase | Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - MEDLINE | 69,151 |
| S2 | "COVID-19" | Expanders - Apply equivalent subjects Search modes - Boolean/Phrase | Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - MEDLINE | 73,252 |
| S1 | "long COVID" OR "long-term COVID" OR "long-haul COVID" | Expanders - Apply equivalent subjects Search modes - Boolean/Phrase | Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - MEDLINE | 29 |

**Opening internet links**

The links to internet sites in this document are 'live' and can be opened by holding down the CTRL key on your keyboard while clicking on the web address with your mouse

### Full text papers

Links are given to full text resources where available. For some of the papers, you will need an **NHS OpenAthens Account**. If you do not have an account you can [register online](https://openathens.nice.org.uk/).

You can then access the papers by simply entering your username and password. If you do not have easy access to the internet to gain access, please let us know and we can download the papers for you.

### Guidance on searching within online documents

Links are provided to the full text of each document. Relevant extracts have been copied and pasted into these results. Rather than browse through lengthy documents, you can search for specific words as follows:

**Portable Document Format / pdf / Adobe**  
Click on the Search button (illustrated with binoculars). This will open up a search window. Type in the term you need to find and links to all of the references to that term within the document will be displayed in the window. You can jump to each reference by clicking it.

**Word documents**  
Select Edit from the menu, the Find and type in your term in the search box which is presented. The search function will locate the first use of the term in the document. By pressing 'next' you will jump to further references.

A member of our team will invite you to provide feedback in relation to this search and we look forward to hearing your comments and suggestions for improving our service. Please note that this search has been added to your library record on KnowledgeShare. It is covered by our privacy policy which can be viewed here: <https://www.surreyandsussexlibraryservices.nhs.uk/about/joining-the-library/>

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