Rehabilitation and COVID-19: the Cochrane Rehabilitation 2020 rapid living systematic review. Update as of July 31st, 2020

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1 2 3	Rehabilitation and COVID-19: the Cochrane Rehabilitation 2020 rapid
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Abstract

Background. This paper is the first update of the second edition of the rapid living systematic review on the latest scientific literature informing rehabilitation of patients with COVID-19 and/or describing consequences of the disease and its treatment, as they relate to limitations in functioning of rehabilitation interest.

Objectives. To report data of a systematic search performed on papers published in July 2020.

Methods. The methodology described in the second edition of the rapid living systematic review was applied to search eligible papers included in the databases between July 1st, 2020 and July 31st, 2020.

Results. Eight-hundred-ninety-two papers were identified through database searching (after removal of duplicates); of these, only 23 studies were included. According to OCEBM 2011 Levels of Evidence Table, they were Level 3 in 30.5% cases and Level 4 in 69.5%. No RCT was found. Nineteen papers studied COVID-19 patients, assessed in the acute (10 studies), post-acute (8 studies) and chronic phase (one study). Four studies reported data on the impact of COVID-19 on subjects with pre-existing health conditions.

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Conclusions. The current literature production still focuses more on describing all the possible aspects and complications of the pathology than on interventions or new organization models to deal with it. Albeit evidence on handling COVID-19 from a rehabilitative point of view is improving each month, further studies are still mandatory to report the role of rehabilitation in

this scenario.

Keywords: COVID-19; Severe Acute Respiratory Syndrome Coronavirus 2; Coronavirus; UTTORIO OF PHONE IC

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Rehabilitation; Physical and Rehabilitation Medicine.

INTRODUCTION

This work is the first update of the second edition of the rapid living systematic review¹ aiming to present current evidence informing rehabilitation of patients with COVID-19 and/or describing consequences of the disease and its treatment, as they relate to limitations in functioning of rehabilitation interest (LFRI).

METHODS

This update follows the same methodology¹ as the second edition of this rapid living systematic review. It adds eligible papers included in the databases between July 1 2020 and July 31st, 2020. The results report on the consolidated table of papers included in all editions of this living review is published in the Cochrane Rehabilitation REH-COVER website (https://tr.im/rr dyn)². NOUT

RESULTS

Out of 892 results identified through database searching (after removal of duplicates) for the period July 1st, 2020 to July 31st, 2020, 55 full-text articles were assessed for eligibility; 32 papers were excluded because their content did not address any research question relevant to the scope of the present review¹ (Figure 1). The remaining 23 included studies^{3–25} are presented in the Supplementary Table I (available on Cochrane Rehabilitation REH-COVER website: https://tr.im/rr07-20).

The majority of studies published in July 2020 were based, according to sampling site, in the following World Health Organization regions: Europe (n=10)^{4,5,7,8,15,17,18,20,22,24}, primarily in Italy (n=6)^{4,5,7,15,18,20} the Americas (six in the United States of America^{3,6,11,13,16,19} and one in Canada¹²), Western Pacific (Singapore²³, China^{9, 14, 25}); and the Eastern Mediterranean region (Egypt²¹, Saudi Arabia¹⁰).

Evidence level of included studies

Due to the heterogeneity of studies, a meta-analysis was not appropriate. According to the OCEBM 2011 Levels of Evidence Table²⁶, the majority (69.5%) were Level $4^{6,9-13,15-20,22-25}$, and the remainder 30.5% were Level $3^{3-5,7,8,14,21}$ (Table I). No RCT was found in this update

Clinical characteristics of included studies

Nineteen papers (83%)^{4,6-12,14-20,22-25} studied COVID-19 patients, mostly assessed in the acute (10 studies)^{6,7,10,12,15-18,20,22} or post-acute phase (eight studies)^{4,8,9,11,14,19,23,24}; only one study²⁵ concerned patients in chronic phase. The remaining four studies^{3,5,13,21} reported data on the impact of COVID-19 on subjects with pre-existing health conditions (i.e., myasthenia gravis¹³, neuromuscular disease (NMD)⁵, Parkinson disease (PD)²¹, and spinal cord injuries and disorders (SCI/D)³).

Eight papers (35%)^{3,4,6,8,11,16,19,23} provided data about a specific rehabilitation setting: three acute^{6,16,19}, one general post-acute¹¹, three specialized post-acute^{3,4,23}, and one home service⁸. Each included study presented sample and clinical outcome data that contributed evidence towards answering LFRI questions framing this review inquiry. Those relevant to this update are now presented.

Epidemiology - Impairment in respiratory structures and related functions

Curci et al.⁴ investigated patients who were admitted to specialized post-acute rehabilitation settings after ICU care. This study reports that shortness of breath and dyspnoea are very common in these patients even during low-intensity activities. With regards to respiratory function (measured as fraction of inspired oxygen needed), the authors propose that personalized rehabilitative treatment is required for all post-acute COVID-19 patients using protocols aimed at reducing dyspnoea and improving muscle function.

Two papers studied lung function of COVID-19 patients after hospital discharge: one with a follow-up of 30 days⁹ and one with a follow-up of three months²⁵. Lung function abnormalities were reported in more than 50% of patients at 30 days, while 25% had abnormalities at 3 months.

Epidemiology - Impairment in nervous system structures and related functions

All together there were ten papers that presented evidence relating to nervous system impairment and related affected functions. Two case reports were not *prima facie* part of the COVID-19 presentation or complication. First, Piscitelli et al. described a young female developing lower limb tremor with variable frequency and amplitude during quarantine, probably of functional nature due to the trauma of diagnosis or to the isolation¹⁸. Second, a case report presented the complexities arising of COVID-19 in a patient with myasthenia gravis¹³.

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The remaining eight case reports focused nervous system involvement in COVID-19 patients, either as the presenting clinical picture or as a complication occurring during the acute phase^{6,10,12,15,17,20,22,24}. Globally, the studies present: five patients with ischemic stroke^{6,20}; one with hemorrhagic encephalopathy¹²; seven developing Guillain-Barré syndrome (GBS), or an acute polyradiculoneuritis suggestive of GBS^{10,15,17,24}; and one developing a critical illness myopathy in the post-acute phase (65 days after hospital admission)²².

Epidemiology - Any activity limitation and participation restriction

Two cross-sectional studies used structured interviews (one by phone) to explore symptoms and rehabilitation needs of COVID-19 patients during hospital care¹⁴ (n= 280) or after discharge⁸ (n=100). Hospitalized patients mainly complained of sleep disorders (63.6%), decreased activity endurance (61.4%), and respiratory dysfunction (57.9%), while the main psychological dysfunctions included anxiety (62.1%) and fear (50.0%)¹⁴. In the study by Halpin et al⁸, one hundred patients were assessed 4-8 weeks after hospital discharge by rehabilitation professionals using a telephone screening tool also including a EQ-5D-5L telephone version. Fatigue was the most common reported symptom (72% of people requiring ICU care in the acute phase, compared to 60.3% of those admitted to other wards), followed by breathlessness (65.6% in ICU group; 42.6% in ward group) and psychological distress.

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Epidemiology - Impairment of any other body structure and function A cohort study showed that obese COVID-19 patients lose more lean mass and abdominal fat than non-obese patients⁷. The authors warn rehabilitators to be careful of sarcepenic obesity as corpulence could mask the loss of lean mass that can slow down the rehabilitation process.

Epidemiology – other papers

A historical cohort study on 140 patients reported a 2.4 times higher COVID-19 related case fatality in veterans with SCI/D (19%) than non SCI/D³.

Kirshblum et al. reported important data about the prevalence of COVID-19 in presumed COVID free patients at admission in rehabilitation in a high prevalence area¹¹: 6.8% of the patients were positive even without symptoms, and other 6.5% who tested negative developed symptomatology and became positive in the next 14 days.

Two studies⁵²¹ investigated the effect of local public health preventative interventions of "lockdowns" on physical activity (PA) and quality of life (QoL) of patients with NMD and with PD, respectively, in comparison with healthy controls. Both studies interviewed subjects using the International Physical Activity Questionnaire finding out that, during the lockdown, people with neurological diseases experienced a greater PA reduction, than controls, with special regard to walking and moderate to vigorous exercise; besides, the results of SF-12 and PDQ39 questionnaires demonstrated an important QoL decrease, in NMD and PD subjects, respectively.

A single case report focused a rehabilitative intervention in a COVID-19 patient, who was mobilized using a robotic patient-guided suspension system²³. The patient greatly improved, at discharge achieving independent ambulation and autonomy in most activities of daily living after 13 days. The authors propose that such systems, mainly implemented for neurologic rehabilitation, may be useful in respiratory rehabilitation of patients who face early desaturation and dyspnea due to severe COVID-19 infection.

Meso level – Services

Two historical cohort studies provided information on organizational aspects of rehabilitative services. The first reports the experience of an ICU for COVID-19 patients¹⁶, where a "Prone Team" was implemented, including rehabilitation therapists who already had expertise in mobilizing and positioning patients. The scope of this service was to provide proning to improve pulmonary function during mechanical ventilation, avoiding side effects due to incorrect mobilization or positioning of the patient such as nerve lesions or pressure sores. Criteria for Prone Therapy, including indications for starting and terminating prone ventilation, or returning to supine position were detailed. The prone team recorded preliminary information regarding process operations for scheduling and positioning purposes. The authors report that the team was involved in 934 position changes. These mostly involved three operators (70% of the position changes) but in some cases, two (26%), one (13%), or four operators (11%) were involved. The mean number of minutes for each position change was

20±9.15 with a range of five to 80 minutes. Adverse events that may have occurred during mobility were not recorded.

Rosen et al. proposed an algorithm to identify patients with characteristics that could benefit from a physical therapy tele-rehabilitation service that was implemented in their hospital; this service was established to achieve the service goal of continuing patient treatment whilst maintaining staff safety through physical isolation from patient(s¹⁹. All) the inpatients they treated either with tele-rehabilitation only (12) or with a combination of tele-rehabilitation and - time o in-person physical therapy (21) met their physical therapy goals at the time of study conclusion and, where appropriate, were discharged.

Discussion

The paper included in this July update brings up some key points:

- The 23 included papers still show a wide heterogeneity in terms of methodological approaches; in particular, the outcome measures and assessment timing vary largely, limiting the possibility of secondary data analysis. Indeed, most papers presenting data on COVID-19 rehabilitation are case reports and case series describing the clinical features of COVID-19 patients^{6,10,12,13,15,17,18,20,22,24}. However, there is an increase in the number and size of cohorts observed (either prospectively or retrospectively) to outline the natural history of the disease in the medium term (^{11, 16, 19, 25}).
- Reports of acute neurologic complications in acute and post-acute phases of COVID-19 are multiplying and the rehabilitative community should be aware of the potential severe long-term disability due to those complications^{6,10,12,15,17,20,22,24}.

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• Two papers reported the clinical picture of post-acute COVID-19 patients finding that fatigue and breathlessness are very common and are recurrent symptoms^{8,14}. This confirms speculation that post-COVID patients have ongoing physical and psychological symptoms that may benefit from rehabilitation interventions including exercise guidance, dietary instruction and, where available, traditional Chinese medicine therapy¹⁴.

- This review also contributes further evidence for clinical populations commonly engaged in rehabilitation who may be at heightened risk of COVID-19 complications given preexisting conditions. For example, clinicians working with and advocacy groups engaged with SCI/D subjects should disseminate research information regarding the increased mortality risk in the case of COVID-19 infection in both outpatient and inpatient contexts. Strict observance of prevention measures and increased surveillance in inpatient and outpatient rehabilitation facilities may be warranted.
 - During peak phases of the outbreak, given the high prevalence of positive asymptomatic patients¹¹, any individual admitted to rehabilitation services should probably be considered and treated as potentially positive.
- The restriction of PA and walking activities together with the reduction in QoL, experienced during the lock-down, could theoretically speed up disease progression in a specific rehabilitation population. However, both studies investigating PA in NMD⁵ and PD patients^{,21} did not use an objective measure of PA, such as the ones obtainable with an activity tracker, rather relying on self-reported information collected through the International Physical Activity Questionnaire. Given the risks outlined in the cited

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surveys, it could be worth developing tele-rehabilitation interventions that help frail
people to maintain their fitness even when there are lockdown restrictions.
• The experience described by Rosen et al. ¹⁹ could represent a useful starting point to
implement tele-rehabilitation not only in the outpatient but also in the inpatient setting,
to maximize safety for the operators while guaranteeing a functional service.
• Only one study described promising results obtained by a robot-assisted rehabilitation
intervention at recovering gait autonomy in a post-acute COVID-19 patient ²³ . The use of
a robotic system could speed up recovery and reduce the length of stay of COVID-19
patients who lost their walking autonomy.
• The Prone Team proposed by Ng et al. ¹⁶ was put under test during the peak phase of
the COVID-19 pandemic. The authors described the experience in great detail so that it
could be a model for other hospitals. However the study lacks data about the side
effects of proning, before and after the formation of the Prone Team, and further
studies are needed to confirm their impact.
Taken all together, this month update confirms that current literature production still focus
more on describing all the possible aspects and complications of the pathology than on
interventions or new organization models to deal with it. However, more and more data are
being collected, elaborated and peer-reviewed and knowledge on how to handle this new
disease from a rehabilitative point of view is improving each month.

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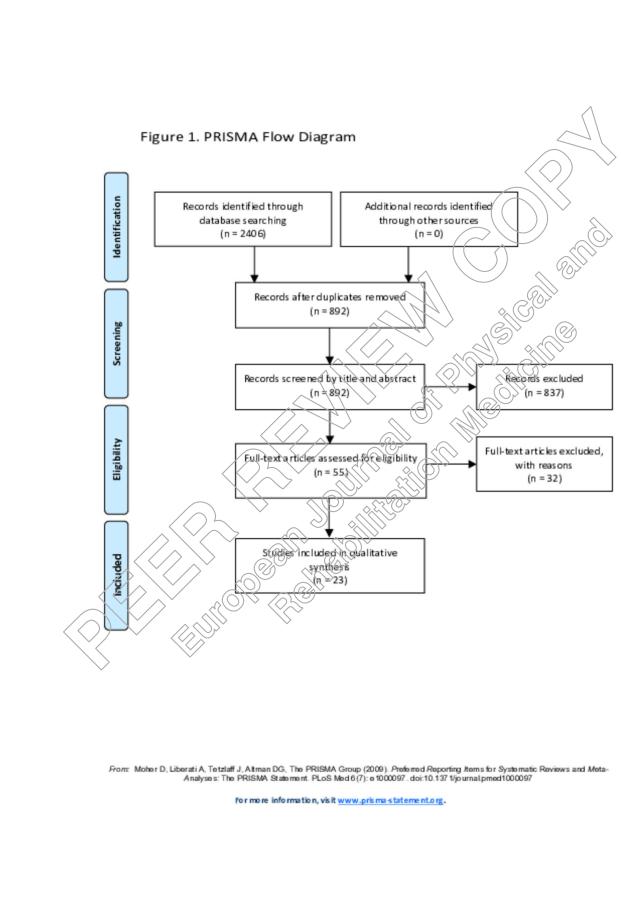
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	Level 1	Level 2	Level 3	Level 4	Total
Epidemiology - Clinical presentation	0	0	1 (4.4%)	5 (21.7%)	6 (26.1
Epidemiology – Prevalence	0	0	5 (21.7%)	0	5 (21.7
Epidemiology - Natural history /	0	0	1 (4.4%)	8 (34.7%)	9 (39.1
Determining and modifying factors			\bigcirc		
Micro - Interventions (efficacy/harms)	0	0	0	1 (4.4%)	1 (4.4%
Meso Level	0	0		2 (8.7%)	2 (8.7%
Macro Level	0	0		E C	60
Total	0	0	7 (30.5%)	16 (69,5%)	23 (100
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Table I. Level of evidence of the studies included in the present rapid living systematic review.





Supplementary Digital Material

