Welcome to the webinar:

The COVID-19 patient pathway for SLTs

COVID-19: The rehabilitation journey

5 June 2020 1pm



Welcome





Kamini Gadhok, MBE CEO, RCSLT

Presenters





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Barking, Havering and
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Housekeeping



- Send in chat messages at any time by using the Chat button
- Send in questions by using the Q&A button
- This event is being recorded. See here for recordings: https://www.rcslt.org/webinars
- Please do fill in the survey that we'll share after the event
- RCSLT staff are on hand to help!



Aims and objectives



By attending this webinar, you will gain an understanding of:

- Clinical presentations and rehab needs of COVID-19 patients
- The RCSLT / Intensive Care Society Rehabilitation Pathway
- Partnership working for rehabilitation
- How SLTs are making a positive impact

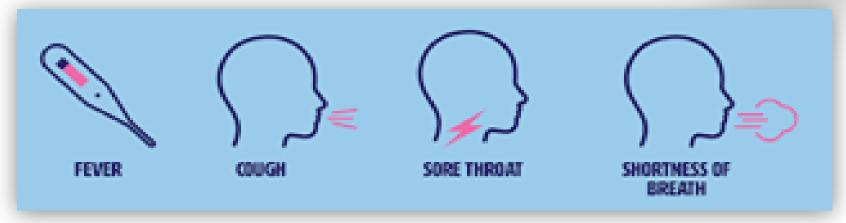


Clinical presentations of COVID-19 patients

What do we know?







- Typical presentation, early criteria for viral testing
- BUT up to 86% of cases missed, reports of unusual symptoms are rising worldwide*

^{*}Vetter 2020 BMJ https://www.bmj.com/content/369/bmj.m1470



Non-respiratory symptoms



- Gastro-intestinal: 2-40%, diarrhoea can be an initial manifestation of infection
 - Unknown whether direct infection of GI tract
 OR due to neurological involvement
- Anosmia, ageusia: > 53%, now a criteria for testing
- Cardiovascular: myocarditis, myocardial infarct, palpitations, heart failure
- Hypercoagulopathy: pulmonary embolism
 - *Potential need for cardiopulmonary rehab





35% of COVID-19 patients*

- Dizziness, headaches, brain fog
- Ischaemic or haemorrhagic stroke
- Altered mental status/ delirium
- Hypoxia
- Encephalopathy
- Myalgia, muscle wasting
- Autoimmune Guillain-Barré Syndrome
- Psychosis

^{*}Mao 2020 https://pubmed.ncbi.nlm.nih.gov/32275288/







2% affected, milder disease, unconventional symptoms, 'kawasaki-like' disease, steam inhalation burn injuries

https://www.rcpch.ac.uk/resources/covid-19-research-evidence-summaries

https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(20)31103-X/fulltext



Symptoms masked: COVID-19 pneumonia causing a fall or confusion may be missed if accompanying dementia

Diagnostic delay increases mortality and transmission

Worse outcome, 'feeding at risk', limited rehab potential

Illness severity spectrum

Mild	mild or no pneumonia	81%	2-3 weeks, post-viral ? rehab needs	
Severe	dyspnea, hypoxia or >50% lung involvement within 24 to 48 hours	14%	Rapid recovery OR persistent moderate/severe deficits Months to years Community f/up, specialist voice or airway clinics complex rehab	
Critical	respiratory failure (ARDS), multiorgan failure	5%		

Risk factors: gender, comorbidity, ethnicity, obesity, poverty

https://pubmed.ncbi.nlm.nih.gov/32091533/?from_single_result=32091533&expanded_search_query=32091533

Monitor outcomes: RCSLT data tool





- 12,086 ICU admissions for 9,347 pts
- Mean age 58 years (61yrs)
- 93% living independently pre-admission (75%)
- Longer LOS
- 57% survive (69%)
- 1,285 pts still in ICU, 4,579 discharged needing rehab

ICNARC report May 29th https://www.icnarc.org/Our-Audit/Audits/Cmp/Reports



Rehabilitation needs of COVID-19 patients

Rehab needs post ICU

Respiratory

Pulmonary fibrosis

Reduced lung function

Upper airway

Stenosis

Tracheomalacia

Laryngeal injury/oedema*

Neurological

Weakness

Chronic Fatigue Syndrome

• 30-80% have cognitive impairment

Post Intensive Care
Syndrome
PICS

Affects 80%, depression 60%, PTSD 25%

32% of ARDS pts dysphagic at hosp d/c

50% not returned to work within 1 year

Respiratory / swallow intubation/trache, oral phase delirium, fatigue, deconditioning

Stroke Proning, fatigue GBS, stroke

Aphasia
2%

Dysarthria

Up to 8% Resolving

Delirium stroke hypoxia, PICS Cognitive communication 15% Self-report later

Laryngeal oedema intubation tracheostomy

Airway
ICU common
+ Later onset

Dysphagia ICU 75% - 4% by d/c

Non ICU 90% 25% need f/up, rest RIP, risk feed,d/c

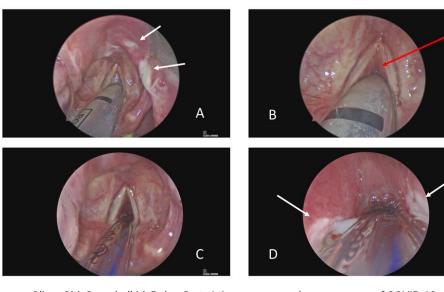
Dysphonia ICU 90%

5-12% need f/up Non ICU 5% Breath support fatigue intubation trauma, vc palsy

Sarah

Intubation and the larynx



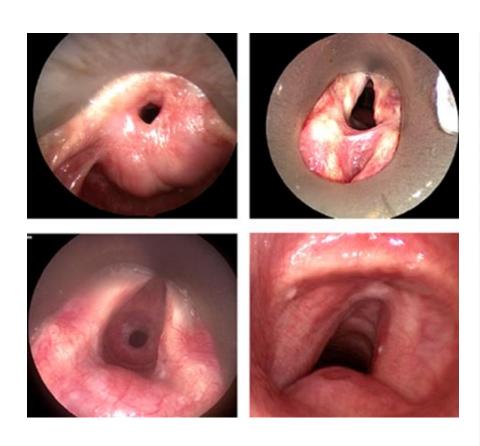




Oliver CM, Campbell M, Dulan O *et al.* Appearance and management of COVID-19 laryngo-tracheitis: two case reports [version 1; peer review: 1 approved]. *F1000Research* 2020, 9:310 (https://doi.org/10.12688/f1000research.23204.1)

Laryngotracheal stenosis

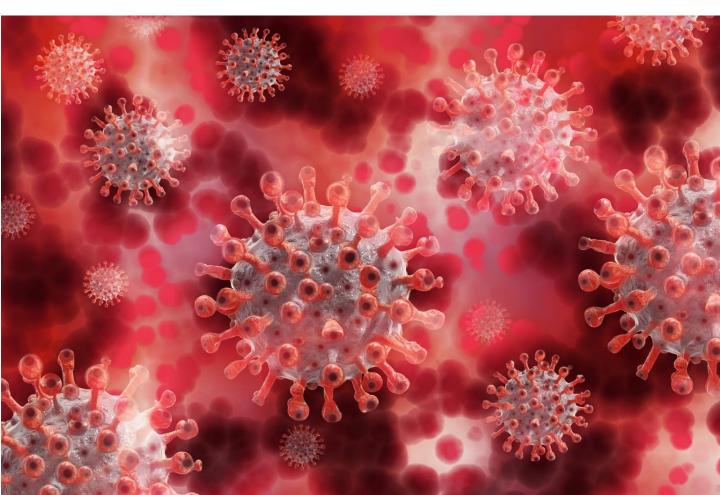






Don't be intimidated!



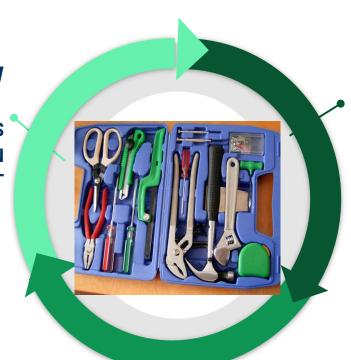


Focus on the basics



REVIEW

OUTCOME MEASURES
REFER BACK/ON
SEEK SUPPORT



ASSESSMENT

REFERRAL CRITERIA
OUTCOME MEASURES
WATCH AND WAIT/ ADVICE

COVID-19 Resources for SLTs

RCSLT COVID-19 Guidance

RCSLT Advisors

CENs

THERAPY

JOINT GOAL SETTING
WORK WITH MDT
OUTCOME MEASURES

Gemma

Work with the individual









Patient 2



Patient 3

Case study (KM)

BHRUT









Rehab pathway



ICS National Rehabilitation Forum

Gold standard rehab pathway for ALL patients

Multi-agency collaboration, SLT workstream

COVID-19 speech and language therapy rehabilitation pathway

Part of the Intensive Care Society Rehabilitation Working Party

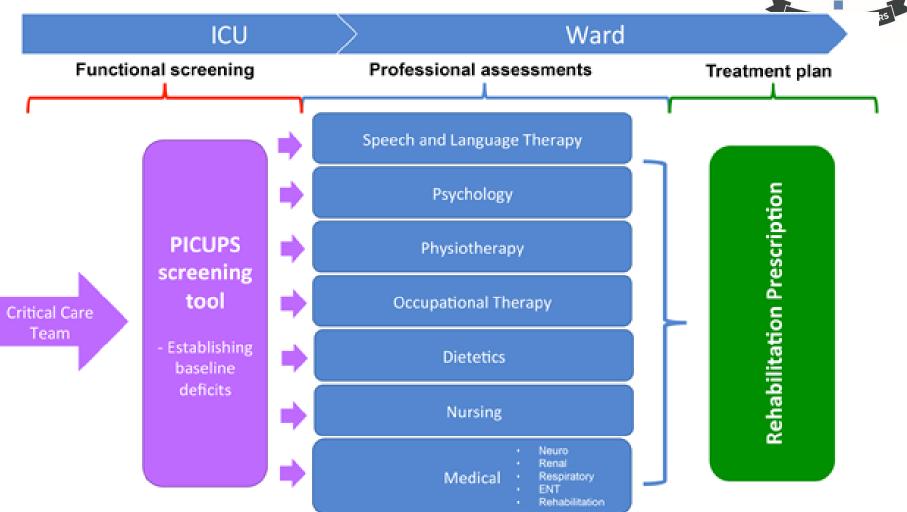
18 May 2020

1. INTRODUCTION

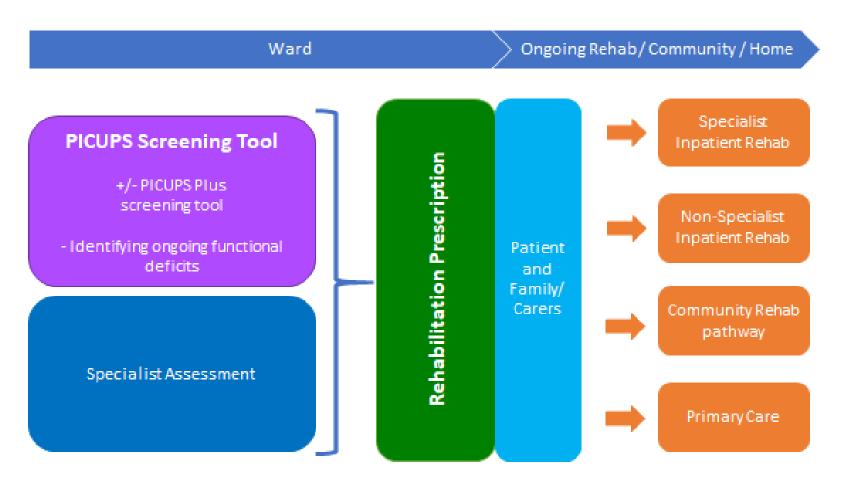
Data on the functional outcomes of patients surviving an intensive care unit (ICU) admission for COVID-19 is sparse. However, anecdotal experience across a number of London ICUs indicates that a high proportion has significant physical functional impairment (more than 50 % of those discharged from ICU) and the range of impairments is diverse.

Identifying needs









SLT parameters of PICUPS



Item	0	1	2	3	4	5
Breathing and	Nutrition					
Tracheostomy weaning stage	Cuffed tracheostomy. Cuff up all the time	Cuff partially deflated or periods of cuff deflation	Tolerating continuous cuff deflation or cuffless tracheostomy in situ	Cuff deflated/cuffless tube. Tolerating one way valve continuously	Cuff deflated/cuffless tube. Tolerates capping trials	Decannulated
Dyspnoea	Too dyspneic to leave the house or breathless when dressing	Stops for breath after walking 100 yards or after a few inutes	Walks slower than people of the same age because of dyspnoea or has to stop for breath when walking at own pace	Dyspnoea when hurrying or walking up a slight hill	Dyspnoea only with strenuous exercise	No dyspnoea
Swallowing	Nil by mouth; difficulty managing secretions or aspirates secretions; nil by mouth	Commencing oral intake; tolerates small amounts of oral intake for therapeutic purposes	Significant dysphagia requiring more than two IDDSI diet/fluid level restrictions, fatigue limiting oral intake	Dysphagia requiring 1- 2 IDDSI diet/fluid level restrictions, and/or consistent use of compensatory swallow strategy	Able to eat (near) usual diet with some difficulty or supervision required, e.g. no more than one IDDSI diet level restriction, difficulty with specific foods, longer mealtimes, coughing when drinking liquids quickly	Eating and drinking at premorbid level
Communication	on / Cognition / B	ehaviour				
Communication	No consistent functional communication	Unable to attract attention, but responds to direct questions about basic care needs using Yes/No or gestures.	Able to attract attention and communicate at the level of expressing basic needs/ information	Communicates within context to familiar people – but substantial listener burden	Some listener burden, but communicates with a broad range of people and out of context	Unrestricted Able to understand and express complex information and to communicate with anyone
Cognition	Unconscious – in coma (Including if still fully sedated)	Awake but still disordered consciousness, or delerium	Emerged into consciousness, but severe cognitive deficit	Moderate cognitive problems. Not fully orientated	Fully orientated but some higher level problems with memory and attention and/or executive function	Normal cognition
Voice	No voice (aphonic)	Severe voice problem; can only produce a weak whisper, at times aphonic	Significant voice problem; voice is very rough/ strained/breathy or is effortful all the time, difficulties on the telephone and in	Moderate voice problem; voice is occasionally rough/strained/breathy or effortful to produce, occasional difficulties	Mild voice problem; difficulties being heard in loud environments, sound of voice varies throughout the day	No voice problems

Voice disorders & upper airway

1945 - 2020 Therapy must be part of an MDT Patient must understand limitations of If a patient has not had diagnosis laryngoscopy Referral criteria must be met - use referral checklist Telehealth - Guidance If SLT is providing 02Risk assessment therapy Regular review/outcome measurement Low threshold, for example: Airway/respiratory symptoms If SLT has concerns re-Non-response to therapy/ deterioration refer

Severity of presentation

Clearly established route for referral back to MDT

RCSLT Guidance for Voice and Upper Airway Disorders in the context of COVID-19 in adult and paediatric services, published 5.6.2020, endorsed by ENT-UK, BLA and BAPO

Top tips for dysphonia





DO

Hydrate
Steam
Use normal voice
Little and often
Rest!

DON'T

Smoke/vape
Use throat sweets
Video chat/phone
Put up with reflux
Cough/throat clear



Advice for people experiencing voice problems after COVID-19 (BLA)

Webinar Videos: Assessment and treatment of laryngeal airway and voice disorders during COVID-19

Mr T

St Richards Hospital, Chichester







Redeployment



- Risk assessment of staff to protect our vulnerable colleagues
- Workforce hubs
- 7/7 working to cover therapy need
- Junior staff involved in mouthcare rounds on critical care - one workforce



- ROYAL COLLEGE OF SPEECH & LANGUAGE THERAPISTS

 CELEBRATING 75 YEARS
- Partnership working with community Trusts to get timing of transfer
- Peer support across community and acute
- Primary and secondary care agreement; SPA
- Leniency in acceptance criteria





- Distance supervision
- Dysphagia training for Paeds SLT teams



- Condensed competency programmes
- E-learning swallow awareness packages for care homes



Telehealth experiences

ROYAL COLLEGE OF SPEECH & LANGUAGE THERAPISTS

CELEBRATING 75 YEARS

1945 – 2020

- Shorter sessions to maximise attention
- Integrated 'end2end' encrypted video conferencing
- Using a combination of physical objects such as books and toys and interactive resources like Symplify and Boom Cards
- Creating activities within PowerPoint that can be used interactively in sessions and for home practice

Successes

















Any Questions?



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COVID-19: Telehealth

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