

Protocol: Identification of guidance for pre-hospital emergency services and patient transport services in the context of COVID-19 and beyond

15 July 2020

Revision Record				
<b>Revision Date</b>	Description of change			
04.06.2020	Included description of how the review will approach topics within the PIC (Appendix 1) considered to be of lower priority interest following stakeholder feedback; changes made to section 2.4 and to Appendix 1.			
	Following stakeholder feedback, clarified topics within 'Context' section of PIC (Appendix 1).			
	Following stakeholder feedback, included two additional websites of interest in Appendix Table App 2.3.			
05.06.2020	Changed text in Appendix 2, Search Strategies, Grey Literature Search Approach, Point 1, from 'National Ministries of Health' to 'National health and emergency service authorities'.			
09.06.2020	Title and question wording changed from 'pre-hospital emergency and intermediate care' to 'pre-hospital emergency services and patient transport services'.			
	'Non-authoritative guidance' changed to 'Non-authoritative recommendations or 'lessons learned".			
	Added explanation in sections 2.3 and 2.4 where documents describe measures but do not explicitly include guidance or recommendations; such measures will be included in a Results table but not extracted in full.			
	Removed statement that no date restrictions will be applied. Added statement explaining that documents will only be included where full text is available. Clarified language regarding screening and inclusion of documents unavailable in English.			
18.06.2020	Section 1: Removed 'quality assessment' step from process.			
	Section 2.1: Updated to clarify categories of documents to be identified and described			
	Section 2.4: Updated to reflect amended data extraction method.			
	Section 2.6: Updated to include delivery of data extraction tables, in Microsoft Excel format, with report.			
	Table App 2.5: Added to explain final article inclusion criteria.			
	Appendix 3: 'Data Extraction templates' amended to reflect update to data extraction method.			

### **Purpose and Aim**

The purpose of this protocol is to outline the process by which the health technology assessment (HTA) team will identify relevant guidance to support the Acute Hospitals Preparedness Sub-Group of the National Public Health Emergency Team (NPHET) in their response to COVID-19. The HTA team will perform a review based on the specific research question (RQ) outlined.

#### 1. Process outline

A standardised approach to the process has been developed and documented to allow for transparency and to aid in project management. Five distinct steps have been identified in the process for completion. These are listed below and described in more detail in sections 2.1-2.5.

- **1.** Identify document types of interest.
- 2. Search relevant sources.
- **3.** Screening of identified documents.
- 4. Data extraction of included material.
- **5.** Summarising of findings and delivery to relevant contacts.

#### 2. Review process

This review will address the following question:

What guidance is available for the conduct of pre-hospital emergency services and patient transport services in the context of COVID-19 and beyond?

This research question was formulated using the PIC (population, interest, context) framework as detailed in Appendix 1.

## 2.1 Document types to identify

The search process will aim to identify both authoritative guidance based on the context of COVID-19 and non-authoritative recommendations or lessons learned, based on the context of COVID-19 and or other epidemics/pandemics including MERS, SARS and H1N1. These forms of guidance are defined for the purposes of this review as follows:

#### **Document Categories:**

1. Authoritative guidance based on the context of COVID-19.

'Authoritative guidance' will comprise guidance from the following sources:

National-level guidance, or where appropriate, regional-level guidance, from official sources, for example:

- Ministries/Departments of Health, National-level bodies with responsibility for providing emergency services or patient transport services (e.g. US Fire Administration, National Highway Traffic Safety Administration Office of Emergency Medical Services)
- Professional and or civil associations representing emergency medical services, patient transport services, and or service personnel (e.g., European Emergency Number Association).
- 2. Non-authoritative recommendations or lessons learned based on the context of COVID-19, MERS, SARS, H1N1, or a combination of such epidemics or pandemics.

Non-authoritative recommendations or 'lessons learned' will be identified from published manuscripts, comprising reports or review documents which include a significant focus on providing recommendations or describing lessons learned from the context of COVID-19 and or other relevant epidemics or pandemics. Non-authoritative sources may include authors not representing an official association or authority, but providing guidance based on departmental or institutional experience in emergency medical services or patient transport services.

3. Other: Descriptions of approaches or measures introduced in the context of COVID-19, MERS, SARS, H1N1, or a combination of such epidemics or pandemics.

The search approach will primarily aim to identify documents within categories 1 or 2. However, documents are identified which describe approaches or measures introduced in the context of relevant epidemic or pandemic settings, but which do not comprise guidance as per categories 1 or 2, these will be reported under this third category. Documents within this category will be briefly described within the report.

# 2.2 Search approach

A grey literature search will be used to retrieve relevant documents which represent authoritative guidance. This will be supplemented by a search in bibliographic databases: Embase, Pubmed and the Cochrane Library, which will also be used to identify non-authoritative guidance as above. Preprint servers will also be specifically searched: MedRxiv, and EuropePMC. The detailed search strategy is presented in Appendix 2.

## 2.3 Screening of identified documents

All potentially eligible documents identified in the search will be screened against the PIC (Appendix 1) and Table App 2.5: Results to be included in review.

Documents identified through the searching of databases will be exported to Endnote. Documents will only be included where full texts are available. No language or date restrictions will be applied. Where websites or documents are not readily available in English, titles will be screened for relevant keywords using the language of the document; full page translations will not be performed at screening stage. Where documents are considered for inclusion in the report they will be translated via Google Translate; this translation will be noted as a potential caveat.

#### 2.4 Data extraction of included documents

Data extraction templates are detailed in Appendix 3. Within each of the three document categories, each identified document will be assigned a Document ID and data will be extracted under the following general column headings; Authoritative/Non-Authoritative, Document source, Pandemic setting, Organisation, Country, Website/Journal, URL, Publication date, Title, Main setting, and Primary topic. Specific column headings for Category 1 and Category 2 documents will include the following three overarching areas of interest and topics:

- (i) Patient care measures (for example, treatment of patients, personal protective equipment (PPE), infection control measures during patient interaction);
- (ii) Interaction with the healthcare system (for example, transfers to and between hospitals, interactions with GP services, transfers to and from residential care settings);
- (iii) Service enablers (for example, training approaches, information and communication technology (ICT), remote care, arrangements for non-clinical staff and call centres, fleet design).

For document categories 1 and 2, for each of the three overarching areas of interest and topics within, measures will be identified from each document and summarised in tabular form. Where documents refer to these topics, a '1' will be inserted in the corresponding Microsoft Excel cell. Where measures identified are considered to be of interest, but do not fall under the topics above, they will be categorised under a column labelled 'Other' (see PIC, Appendix 1). Text will be extracted from the documents, and inserted as a comment to the cell, where it is considered to represent an approach that appears particularly strategic in nature or focused on medium- to long-term operational planning, or where it provides guidance beyond general statements of recommendation on the use of PPE, regular disinfection or similar measures.

Where documents are identified in which measures are described, but where explicit guidance or recommendations are not provided (Category 3), such measures will be included in a separate table as additional information. One additional column

heading will be included for Category 3 documents labelled 'Detail'. Relevant text from each document will be inserted in the corresponding cells.

#### 2.5 Summarise findings and send to relevant contact

A high-level descriptive overview of the identified guidance will be compiled and sent to the relevant parties in pdf format. Additionally, the data extraction tables will be provided in a Microsoft Excel file in spreadsheet format, to allow for sorting by document characteristics (e.g. date, organisation, country, topic). A PRISMA flow chart will not be presented.

#### 3. Quality assurance process

The review question will be led by an experienced member of the team. Three team members in total will perform the review. This will permit double checking of documents and data included in the review, and confirmation that the summary accurately reflects the body of literature, while providing cover in the event of illness. All summaries and reviews will be further reviewed by two senior members of the team, to ensure processes are followed and quality maintained; this will also enable cover to be maintained.

## 4. Review and Update

Given the rapidly changing environment this protocol will be regarded as a live document and amended when required to ensure it reflects any additional research question added, and any changes made to the outlined processes.

### **Appendix 1- Population, Interest and Context (PIC)**

**RQ:** What guidance is available for the conduct of pre-hospital emergency services and patient transport services in the context of COVID-19 and beyond?

Table App 1.1: Population, Interest and Context – Guidance for the conduct of pre-hospital emergency services and patient transport services in the context of COVID-19 and beyond

Population	General population (adults and children) who require pre-hospital emergency care and patient transport (i.e., inter-hospital and interfacility transfer) provided via an official emergency medical service.		
Interest	Guidance, pathways, recommendations or specific measures (i.e., approaches/actions) to inform emergency care, and or intermediate care, provided via an official emergency medical service, in the context of COVID-19, the ongoing management of this context, and future preparedness planning.		
	Guidance is to be considered under the following three overarching areas of interest:		
	<ul> <li>Patient care measures in the context of COVID-19</li> </ul>		
	<ul> <li>Interaction and interfaces with the healthcare system</li> </ul>		
	Service enablers		
	Particular topics to consider under these headings may include:		
	<ul> <li>Patient care measures in the context of COVID-19:</li> <li>Triage approaches (including telephone triage); prioritisation of care</li> <li>Remote care</li> </ul>		
	<ul> <li>PPE and infection control measures</li> <li>Decontamination, disposal of biohazardous waste</li> <li>Ambulance staff screening and or testing for SARS-CoV-2</li> </ul>		
	<ul> <li>Approaches involving the treatment of patients:         <ul> <li>Precautions for aerosol-generating procedures</li> <li>New care responses to COVID-19, e.g. assistance with home oxygen therapy</li> </ul> </li> </ul>		
	<ul> <li>Interaction and interfaces with the healthcare system</li> <li>Transfers to and between hospitals</li> <li>Interactions with GP or other primary care services</li> <li>Transfers to and from residential care settings</li> </ul>		

 Separate COVID-19 care and non-COVID-19 care pathways/streams, including bypass protocols for diversion of patients to designated hospitals.

#### Service enablers

- Governance and communication plans
- Approaches to staffing and training, including guidance relating to vaccination and testing of staff
- Information and communication technology (ICT) redesign
- Arrangements for non-clinical staff and call centres
- Fleet design

Additional guidance may not fall under the above three overarching areas of interest and may include:

- Resource implications
- Cost-effectiveness
- Audit, monitoring

Following stakeholder consultation, the following topics were considered to be of lesser interest to this review:

- Pre-screening and or testing of patients for SARS-CoV-2
- Contact tracing following presumed exposure
- Provision of a COVID-19 testing service
- Physical distancing approaches
- Guidance for community paramedicine (including clinics delivered via telehealth)

#### Context

Considering both COVID-19-related and non-COVID-19 care contexts, specific care contexts for consideration may include:

- Telephone triage
- First response (as understood within the Irish context, that is, community first responder volunteers dispatched by the National Ambulance Service)
- Pre-hospital emergency care
- Helicopter emergency medical services (HEMS)
- Emergency transfer to acute care settings including interhospital transfers, handover
- Non-emergency transfers (e.g. inter-hospital transfers, transfers to home or residential care settings)

# Document type

- 1. Authoritative guidance based on the COVID-19 context 'Authoritative guidance' will comprise guidance from the following sources:
  - National-level guidance from official sources, for example:

- Ministries/Departments of Health, National-level bodies with responsibility for providing emergency services (e.g. US Fire Administration, National Highway Traffic Safety Administration Office of Emergency Medical Services)
- Where regional-level guidance is identified through searching, it will be included only where it provides information not already included within national-level guidance and within the time limitations of this review.
- Professional and or civil associations representing emergency medical services and or service personnel (e.g. European Emergency Number Association).
- 2. Non-authoritative recommendations or 'lessons learned' from within the context of respiratory virus pandemics or epidemics including SARS-CoV-2, MERS, SARS, H1N1, or a combination of such pandemics.

Non-authoritative recommendations or 'lessons learned' will represent reports or reviews from non-authoritative sources, with a significant focus on providing recommendations or describing lessons learned from the context of COVID-19 and or other pandemics. Non-authoritative guidance may include published manuscripts by authors not representing an official association or authority, but providing guidance based on departmental or institutional experience in emergency medical services.

#### **Appendix 2 - Search Strategies**

#### Grey literature search approach for identifying examples of guidance:

- 1. National health and emergency service authorities:
  - a. Search the top 30 ranked countries in the 2019 Human Development Index, available at <a href="http://hdr.undp.org/en/content/2019-human-development-index-ranking">http://hdr.undp.org/en/content/2019-human-development-index-ranking</a> and listed in Table App 2.1.
  - b. Search state/regional-level ministries where appropriate within limits of practicality for the timelines of this review.
- 2. Public health agencies specified in the HIQA "Protocol for the identification and review of new and updated public health guidance Covid-19" (version 3.0) excluding Ministries of Health included in "1":
  - a. World Health Organization (WHO)
  - b. European Centre for Disease Prevention and Control (ECDC)
  - c. Centers for Disease Control and Prevention (CDC)
  - d. Public Health England
  - e. Health Protection Scotland
  - f. Health and Social Care Northern Ireland
  - g. Australian Government Department of Health
  - h. Government of Canada
  - i. Ministry of Health New Zealand
  - j. Switzerland Federal Office of Public Health
  - k. Norwegian Institute of Public Health
  - I. Ministry of Public Health Singapore
- 3. List of guideline repositories, guideline developer websites and specific clinical specialty websites previously identified internally as appropriate for the identification of clinical guidelines, see Table App 2.2.
- 4. Specific emergency medical services, pre-hospital, intermediate care, and other relevant bodies initially identified, see Table App 2.3:
- 5. <u>EPPICentre Covid-19 "Living Systematic Map of the Evidence"</u>. Search 'Organisation case study' field within evidence map for documents relating to pathways, quidance, recommendations and lesson learned.
- 6. WHO daily updated database of global scientific findings and knowledge on COVID-19. Search title, subject and abstract for "pathway", "guidance", "recommend", "lessons learned" and for each of the following strings: "ambulance", "paramedic", "first respon", "emergency medical services", "EMS", "rescue squad", "prehospital", "pre-hospital", "patient transport", "patient transfer", "medical transfer", "medical transport".
- 7. First five pages of Google and Google Scholar searches using the following search phrases: "Prehospital care COVID19", "Emergency medical services COVID19"- hits from the first five pages will be reviewed.

# Table App 2.1: List of top 30 ranked countries in the 2019 Human Development Index

Rank	Country
1	Norway
2	Switzerland
3	Ireland
4	Germany
4	Hong Kong, China (SAR)
6	Australia
6	Iceland
8	Sweden
9	Singapore
10	Netherlands
11	Denmark
12	Finland
13	Canada
14	New Zealand
15	United Kingdom
15	United States
17	Belgium
18	Liechtenstein
19	Japan
20	Austria
21	Luxembourg
22	Israel
22	Korea (Republic of)
24	Slovenia
25	Spain
26	Czechia
26	France
28	Malta
29	Italy
30	Estonia

# Table App 2.2: List of guideline repositories and guideline developer websites

National Institute for Health and Care Excellence (NICE)	https://www.nice.org.uk/guidance
NHS Evidence (incorporating Scottish	www.evidence.nhs.uk
Intercollegiate Guidelines Network (SIGN) &	
Guidelines International Network (GIN))	
Institute for Clinical Systems Improvement	https://www.icsi.org/
	nttps://www.icsi.org/
(ICSI)	
Food and Drug Administration	https://www.fda.gov/
New Zealand Guidelines Group	https://www.health.govt.nz/about-
New Zealand Guidelines Group	
	ministry/ministry-health-websites/new-zealand-
	<u>guidelines-group</u>
National Health and Medical Research Council	www.clinicalguidelines.gov.au
(NHMRC) Australian Clinical Guidelines	
Canadian Agency for Drugs and Technology in	http://www.cadth.ca
Health (CADTH)	
Canadian Medical Association Infobase	https://www.cma.ca/En/Pages/clinical-practice-
	guidelines.aspx
Haute Autorité de santé (HAS)	https://www.has-
ridate ratorite de sante (1176)	sante.fr/jcms/p 3135026/en/search-for-a-
	guideline-an-assesment
Finnish Madical Cociety Dundagim	http://www.kaypahoito.fi
Finnish Medical Society Duodecim	nttp://www.kaypanoito.ii
World Health Organization	www.who.int/en
A 1 1' N 1' 1 1 1 1 1 1 1 A 1' 1	
Australian National Health and Medical	https://nhmrc.gov.au/about-us/publications
Research Council Clinical Practice	
Institute for Healthcare Improvement (IHI)	http://www.ihi.org/
Japan Council for Quality Health Care	https://jcqhc.or.jp/en/
Danish Health Authority – National Clinical	https://www.sst.dk/en/
Guidelines	
Singapore Ministry of Health	https://www.moh.gov.sg/
Socialstyrelsen (Health and Medical Care and	https://www.socialstyrelsen.se/english
Social Services, Sweden)	
The Finnish Medical Society Duodecim	https://www.duodecim.fi/english/
,	
Geneva Foundation for Medical Education and	https://www.gfmer.ch/000 Homepage En.htm
Research	
Belgian Health Care Knowledge Centre	https://kce.fgov.be/
AETSA (Andalucian Agongy for Hoalth	http://www.aotca.org/
AETSA (Andalusian Agency for Health	http://www.aetsa.org/
Technology Assessment )	
German Institute of Medical Documentation	https://www.dimdi.de/dynamic/en/dimdi/
and Information	
HTAi vortal	https://www.htai.org/index.php?id=579
Hoolth Doggoveh Dogget (HDD) Toglog d	http://www.huh.ig/lacasa/
Health Research Board (HRB) Ireland	http://www.hrb.ie/home/
National Coordinating Centre for Health	https://www.nihr.ac.uk/funding-and-
Technology Assessment (NCCHTA)	support/funding-for-research-studies/funding-
reamology resessinent (NeelTIA)	programmes/health-technology-assessment/
Open Croy	
Open Grey	http://www.opengrey.eu/
Canadian Ontario HTA	https://www.hqontario.ca/Evidence-to-Improve-
	Care/Health-Technology-Assessment

## Table App2.3: List of websites for organisations of particular relevance to prehospital care

Websites recommended by the RQ EAG stakeholders for inclusion:				
The Journal of Emergency Medical Services	https://www.jems.com/covid-19-resources/			
International Liaison Committee on Resuscitation	https://www.ilcor.org/			
Emergency Medicine Critical Care: "blog for medical education on ED Intensive Care, Trauma, and Resuscitation"	https://emcrit.org/category/emcrit/			
St. Emlyn's Emergency Medicine blog	https://www.stemlynsblog.org/			
Life in the Fastlane, COVID-19	https://litfl.com/coronavirus-disease-2019-covid-19/			
The Faculty of Intensive Care Medicine, Intensive Care Society, Association of Anaesthetists and Royal College of Anaesthetists COVID-19: Information, guidance and resources supporting the understanding and management of Coronavirus (COVID-19)	https://icmanaesthesiacovid-19.org/about			
National Association of EMS Physicians	https://naemsp.org/			
Joint Royal Colleges Ambulance Liaison Committee	https://www.jrcalc.org.uk/			
Websites identified by the review team for inclusion:				
National Emergency Number Association	https://www.nena.org/page/covid19			
European Emergency Number Association	https://eena.org/			
Emergency Care Research Institute (ECRI) Guidelines Trust	https://guidelines.ecri.org/			

Table App2.4: Bibliographic database search strategy for identifying examples of guidance:

Criteria	Free-text terms*	Thesauri terms
1. Covid-19 /SARS/MERS/ H1N1	<pre>[All text]  "coronavirus" OR "COVID-19" OR "2019 novel coronavirus infection" OR "2019-nCoV" OR "COVID19" OR "nCoV" OR "2019nCoV" OR "SARSCoV19" OR "SARS-CoV-19"  OR  "SARS" OR "Severe acute respiratory syndrome" OR "SARS-CoV-1" OR "SARS-CoV1"  OR  "MERS" OR "Middle East Respiratory Syndrome"  OR  "H1N1 Pandemic" or "A(H1N1) Pandemic" OR "Influenza A pandemic"</pre>	MeSH: 'coronavirus' OR "SARS Virus" OR "Middle East Respiratory Syndrome Coronavirus"  Emtree: 'coronavirinae'/exp OR 'coronaviridae' OR 'coronaviridae infection'/exp OR 'coronaviridae infection' OR 'coronavirus disease 2019'/exp OR 'coronavirus'/exp OR coronavirus OR 'coronavirus infection'/de OR 'SARS coronavirus'/exp OR 'Middle East Respiratory Syndrome Coronavirus'/exp
2. ambulance services	"ambulance" or "paramedic" or "first respons*" or "first respond*" or "emergency medical services" or "EMS" or "rescue squad" OR "prehospital" OR "pre-hospital" OR "patient transport" OR "patient transfer*" OR "medical transfer" OR "medical transfer" OR "medical transfer"	MeSH: 'emergency paramedic' OR 'paramedic, emergency' OR 'ambulance' OR 'emergency medical service' OR 'emergency medical services' OR 'patient transfers'  Emtree: 'emergency health service'/exp OR 'ambulance'/exp OR 'air medical transport'/exp OR 'patient transport'/exp

Table App2.5: Results to be included in review

Section of review and associated priority (1 = highest priority).	'Authoritative guidance'     within the COVID-19     setting	2. 'Non-authoritative' recommendations, or lessons learned from pandemic settings	3. Descriptions of approaches or measures introduced in the context of pandemic settings, published as information rather than as part of guidance or recommendations
Aim of search	Systematically identify official guidance in the context of COVID-19 and beyond.	Identify recommendations or lessons learned based on COVID-19 or other similar epidemic or pandemic settings, as published in the peer-reviewed literature.	Display examples of measures introduced in response to COVID-19 and or other relevant epidemics or pandemics, as described by authorities or sources experienced in the field.
Type of result we are seeking	Authoritative guidance on the conduct of emergency medical services or medical transport services in the context of COVID-19.	Non-authoritative recommendations, or lessons learned, for the conduct of emergency medical services or medical transport services in the context of COVID-19 and or other relevant epidemics or pandemics.	Information on measures introduced in response to COVID-19 and or other relevant epidemics or pandemics; presented by authoritative or expert sources but not accompanied by explicit guidance or recommendations.
Definition of source	Official sources which may be considered to hold authoritative opinion:  - National-level providers of emergency medical services and medical transport services, or bodies overseeing such providers - Professional and or civil associations representing emergency medical services, medical transport services and or service personnel.	Unofficial sources which may be considered to hold expert opinion, but where such opinion is not authoritative:  - Authors not representing an official authority, provider, or association, but who are providing recommendations or describing lessons learned based on departmental or institutional experience in emergency medical services or medical transport services.	Sources as per '1' or '2'.

Document types for	- Guidance documents	- Descriptive reports (e.g. reports of	Descriptive reports (e.g. reports of
inclusion in the	(instructions,	local experience) of the conduct of	survey results or reports of local
present review	recommendations) for the	services during COVID-19 and or	experience) of the conduct of services
present review	conduct of services during	other relevant epidemics or	during COVID-19, provided without
	COVID-19 arising from	pandemics, and which provide	recommendations or 'lessons learned'.
	above-described sources.	recommendations and or 'lessons	recommendations or lessons learned.
	- Descriptive reports (e.g.	learned'.	
	reports of survey results) of	icarrica .	
	the conduct of services		
	during COVID-19 and which		
	provide recommendations		
	and or 'lessons learned' for		
	this setting, arising from		
	above-described sources.		
	above described sources.		
	Clarifying note:		
	Authoritative quidance published		
	in relation to other epidemics or		
	pandemics is not included. Such		
	quidance is excluded on basis of		
	pragmatism and as guidance		
	produced for COVID-19 would		
	be expected to supersede		
	guidance for previous infectious		
settings. However, non-			
	authoritative 'lessons learned'		
	from these settings, i.e.		
	reflective reports published as		
	peer-reviewed literature, may be		
	of relevance.		
Additional	Document type:	Document type:	Document type:
document	Include:	Include:	Include:
		- Peer-reviewed publications.	- Peer-reviewed publications

Inclusion/exclusion	- Guidance published by		- Grey literature representing an			
criteria	official sources on their		official authoritative source as per			
Citteria	websites or on national		'1'.			
			1.			
	authority websites.					
	- Guidance published by					
	official sources in the peer-					
	reviewed literature.					
	- Regional guidance, where					
	content not covered in					
	national guidance and					
	subject to time constraints in					
	completing this review.					
	Document type:  Exclude:  - Full text not available					
	- Blogs, webinars, social media.					
	Document content:					
	Exclude:					
	- Document focuses almost enti	rely on general healthcare delivery as opp	osed to pre-hospital emergency services			
	or medical transport					
	- Document focuses almost entirely on emergency department within hospital					
		n clinical question (more appropriately ans				
	efficacy of particular airway m		, , , ,			
Search approach	Search bibliographic databases.	Search bibliographic databases. Screen	Search bibliographic databases. Screen			
	Screen for official guidance in	as per 'Type of result we are seeking'.	as per 'Type of result we are seeking'.			
	context of COVID-19.					
		Clarifying note:				
	Thorough grey literature search:	Reports of 'lessons learned' from other				
	- Examine national health and	epidemics/pandemics, which are				
	emergency service authority	published by authoritative sources				
	websites for 30 countries	within the peer-reviewed literature,				

	<ul> <li>Public health agencies</li> <li>List of guideline repositories</li> <li>Search specific EMS-related bodies identified during scoping with stakeholders</li> <li>EPPICentre COVID-19 database</li> <li>WHO daily updated COVID-19 database</li> <li>Google, Google Scholar.</li> </ul>	may be identified through this search, as well as reports published by non-authoritative sources. Where documents are identified as emerging from authoritative sources, these will be highlighted. However, in the interests of pragmatism, a corresponding search of the grey literature to identify similar reports by authoritative sources will not be performed.	
Data extraction process	Full data extraction as per protocol description and templates.	Full data extraction as per protocol description and templates.	Tabulate by topic described and provide citation.

# **Appendix 3 Data extraction templates**

Population and source of guidance	Guidance details	Patient care measures in the context of COVID-19	Interaction and interfaces with the healthcare system	Service enablers
Template row				
<b>Document source:</b>	Pandemic setting:			
Organisation:	<b>Publication date:</b>			
Country:	Title:			
Website/Journal:	Main setting:			
URL:	Primary topic:			

Population and source of text	Document details	Patient care measures in the context of COVID-19	Interaction and interfaces with the healthcare system	Service enablers
Template row	Pandemic setting:			
<b>Document source:</b>	<b>Publication date:</b>			
Organisation:	Title:			
Country:	Main setting:			
Website/Journal:	Primary topic:			
URL:				
	approaches or measures intro or recommendations	oduced in the context of pand	emic settings, published as in	formation rather than as
Population and source of text	Document details	Detail		
Template row	Pandemic setting:			
Document source:	<b>Publication date:</b>			
Organisation:	Title:			
Country:	Main setting:			
Website/Journal:	Primary topic:			
URL:				

Published by the Health Information and Quality Authority (HIQA).

For further information please contact:

Health Information and Quality Authority George's Court George's Lane Smithfield Dublin 7 D07 E98Y

Phone: +353 (0) 1 814 7400

info@hiqa.ie www.hiqa.ie

© Health Information and Quality Authority 2020