REPATRIATION OF COVID-19 HUMAN REMAINS BY AIR

1. The COVID-19 pandemic continues to challenge the aviation sector requiring rapid emergency response plans. Currently, there is no universal and comprehensive international standard for repatriation of human remains by air, including those where the cause of death was identified as COVID-19. In view of numerous requests received by the World Health Organization (WHO), the International Air Transport Association (IATA), United States Centres for Disease Control (CDC) and the International Civil Aviation Organization (ICAO), there is a need to evaluate the risk of transporting human remains by air and to develop COVID-19 specific guidance material.

2. Repatriation of human remains is a process whereby human remains are transported from a State where death occurred to another State for burial at the request of the next of kin. From an aviation perspective, most airlines offer services for the transportation of cremated and non-cremated human remains; however, they require cooperation and coordination of various stakeholders to ensure that it is conducted efficiently and in compliance with relevant international regulations and national rules of the departure and destination States.


4. ICAO in coordination with WHO and other Stakeholders have developed guidance material on the repatriation of COVID-19 infected human remains by air to support States and to establish a directive to apply such recommendations. Member States are advised to implement recommendations and adhere to the guidance provided by ICAO, WHO and IATA.

5. This guidance on the repatriation of COVID-19 infected human remains is appended to this Electronic Bulletin and will be published on the Collaborative Arrangements for the Prevention and Management of Public Health Events in Civil Aviation (CAPSCA) website (www.capsca.org). The attachment consists of the list of countries’ requirements of repatriation of human remains.

Enclosure:
Temporary Guidance: Repatriation of COVID-19 human remains by air

Issued under the authority of the Secretary General
INTRODUCTION to EB 2020/27

TEMPORARY GUIDANCE: REPATRIATION OF COVID-19 HUMAN REMAINS BY AIR

(Collaborative document between WHO, IATA, CDC and ICAO)

Introduction

Repatriation of human remains is the process whereby human remains are transported from the State where death occurred to another State for burial at the request of the next of kin. Repatriating human remains is a complicated process involving the cooperation and coordination of various stakeholders on several levels to ensure that it is conducted efficiently and in compliance with relevant international and national regulations.

Presently, there is no universal international standard for requisite processing and documentation for repatriation of human remains by air. Although the Strasbourg Agreement of the Council of Europe on the Transfer of Corpses (European Treaty Series - No. 80) (https://rm.coe.int/168007617d) has been agreed to by more than 20 States in Europe, there is no existing single source document that could provide harmonized guidance to States and other interested parties.

In light of several requests received by WHO, IATA and ICAO on the transport by air of human remains where the cause of death was COVID-19, there was a need to assess the risk of transporting human remains by air and to develop temporary COVID-19 specific guidance material.

The objective of this document is to provide guidance to aircraft operators, funeral directors and other involved parties concerning the factors that need to be considered when planning repatriation COVID-19 human remains by air transport.

Guidance for the handling of COVID-19 human remains

The COVID-19 pandemic has resulted in a considerable death toll and has raised questions regarding the repatriation of human remains where the person died due to the disease. Generally, human remains are not infectious and do not transmit disease. There are some limited exceptions such as Ebola and other hemorrhagic fevers, or when the lungs of patients with pandemic influenza were handled improperly during an autopsy.


Likewise, the European Centre for Disease Control (ECDC) has stated that there has been no evidence of transmission of SARS-CoV-2 through the handling of bodies of deceased persons. Transmission of COVID-19 related to the handling of infected remains would only occur through direct contact with body surfaces, tissues, fluids or their aspirates where the virus is present, or by direct contact with contaminated surfaces, clothing or other personal effects. Best practices to avoid COVID-19 infection under these circumstances include appropriate use of personal protective equipment (PPE) and thorough decontamination of surfaces and materials that have been in contact with the remains (https://www.ecdc.europa.eu/en/publications-data/considerations-related-safe-handling-bodies-deceased-persons-suspected-or).
Key issues to be considered when managing COVID-19 human remains include:

- Providing specific guidance for funeral directors, religious leaders or others who may have direct contact with COVID-19 human remains, especially the importance of hand hygiene and the use of personal protective equipment (PPE) when handling COVID-19 human remains;
- Respecting the dignity of the dead and their families according to cultural and religious traditions; and
- Encouraging practices that balance the rights of the family, the need to investigate the cause of death and the risks of exposure to infection on a cases-by-case basis.


Options for air transport

When a person has died from COVID-19, considerations for final disposition may include on-site cremation, internment at the location of death or repatriation of human remains to the State requested by the next of kin.

Many aircraft operators provide services for the transport of cremated and non-cremated human remains. These services vary according to the policies of each aircraft operator. In general, there are three possible options for the transportation of human remains by air:

1. Cremains, or cremated remains contained in a funeral urn. This is often the least complicated option for air transport. However, this is dependent on the personal, cultural and religious beliefs of the bereaved as well as national legislation in the State where death occurred.
2. Embalmed human remains enclosed in a sealed coffin. This option may be challenging since States may have opposing laws regarding embalming. For instance, legislation in the departure State may not allow embalming, while the destination State may require embalming for receiving of the remains. In addition, some aircraft operators will only accept embalmed human remains. It should be noted that at the time of issue of this guidance document the WHO does not recommend the practice of embalming for COVID-19 remains to avoid excessive manipulation of the body.
3. Human remains that have not been embalmed in an enclosed, sealed coffin. Specific requirements for this type of transport may vary by country, and States of destination or admission may not allow the export or import, as applicable, of non-embalmed remains.

Different States might have different requirements. It is therefore important to consider several factors prior to deciding on the appropriate process for air transport. These factors include being aware of the applicable regulations and/or rules of the departure and destination States, including relevant documentation required, as well as the requirements of the aircraft operator.

Requirements of departure, transit and arrival States

All parties, including aircraft operators are required to comply with State legislation regarding transport of human remains of departure, transit and arrival States. These national legislations will ultimately determine the limitations, if any, associated with the handling, disposition, repatriation and admission of human remains. This information can be found on government or embassy websites or by contacting them directly. Appendix 1
provides some examples of embassy websites with references that describe national requirements for handling and repatriation of human remains.

Formal identification of the deceased’s remains is obligatory. The requirements for confirming the identity of a deceased person vary depending on the State or jurisdiction involved.

In addition, the completion of required documentation is compulsory, confirming that all the medical, health, administrative and legal requirements of the regulations in force in the State of departure relating to the transfer of human remains have been complied with. This might include a death certificate, certificate of embalming, cremation certificate or any other certificate required by national legislation. If the documents are not in English or in the language of the destination State, it may be necessary to have them translated and certified.

European countries that have signed the Strasbourg Convention ([https://rm.coe.int/168007617d](https://rm.coe.int/168007617d)) require a specific document, the *laissez-passer* that ensures that preparation of the remains, legal and transport conditions have all been met. This allows for a streamlined transfer of human remains between these signatory States ([https://www.coe.int/en/web/conventions/full-list/-/conventions/treaty/108/signatures](https://www.coe.int/en/web/conventions/full-list/-/conventions/treaty/108/signatures)).

Some destination States have unique requirements, for example the United States. For repatriation of human remains when the cause of death was due to a quarantinable communicable disease such as COVID-19, the United States requires a *laissez-passer*, issued by the CDC Division of Global Migration and Quarantine. Refer to Appendix 2 for an example of the United States requirements for importation of human remains.

Should a difference exist between the requirements of the departure and destination States, e.g. transporting non-embalmed human remains to a country where embalming is required, further bilateral discussions would be needed. This can be done by contacting the local authority of the destination State that mandates the human remains to be embalmed for confirmation of acceptance on a case-by-case basis.

**Requirements for air transport**

There are currently no universally agreed international regulations restricting transport of human remains to cargo aircraft only.

Aircraft operators typically allow transport of human remains as cargo on aircraft, either on cargo-aircraft or in the cargo section of a passenger aircraft. Cremated remains may be shipped as cargo or may be carried by passengers as part of their baggage. Aircraft operators that are members of the International Air Transport Association (IATA) generally follow the IATA requirements and recommendations (the Air Cargo Tariff and Rules, TACT 2.3.3 and the Airport Handling Manual, AHM 333) on the transport of human remains. A summary of import restrictions on human remains enforced by different States is available in Appendix 3 and the publications can be purchased from IATA online (TACT [www.iata.org/tact](http://www.iata.org/tact) and AHM [www.iata.org/ahm](http://www.iata.org/ahm)).

The following are recommended to all stakeholders considering transport of COVID-19 human remains by air:

**Requirements for cremated remains**

- Cremated human remains (cremains) are usually accepted in any aircraft without advance arrangements, but some States require that cremains be declared prior to travel.
- The ashes should be placed in a polyurethane bag and then enclosed in a funeral urn.
- The urn:
  - can be transported in either carry-on baggage or checked baggage. Policies might vary and it is recommended to confirm with the States and aircraft operators concerned;
  - must be efficiently protected against breakage by cushioning packaging; and
  - will be subject to X-ray screening as part of the normal security procedure. The security measures applied to powder-like substances will have to be checked ahead of the travel for the State of origin and the potential subsequent connections.

Requirement for embalming

- WHO currently does not recommend embalming where the cause of death was COVID-19.
- However, it might be a requirement of the destination State and the aircraft operator transporting the human remains.

Preparation of non-embalmed human remains for air transport

- Staff preparing the body should wear appropriate PPE and prepare the body using standard precautions.
- Ensure that body fluids leaking from cadaver orifices are contained and/or rendered non-infectious using the following methods:
  - Sprinkle the cadaver with special absorbent (e.g. Ardol) for binding and disinfection of leaking body fluids of the corpse;
  - Wrap the body in two cloths soaked in formalin (10% solution) or any other suitable disinfectant;
  - Seal the body in a leak-proof body bag or similar hermetically sealed inner containment. The exterior of the inner containment needs to be disinfected; and
  - The sealed and disinfected containment then needs to be placed into a second hermetically sealed inner containment, the exterior of this inner containment also needs to be disinfected, and then sealed in a coffin.
- After being sealed, the exterior of the coffin needs to be disinfected.
- The coffin may be covered in tarpaulin so that the nature of its content is not apparent; or in another containment device, subject to the legislative requirements of both the departing and receiving States.
- A certificate detailing the date, time and manner of disinfection must be issued by the undertaker or funeral director and submitted to the freight forwarder/aircraft operator.
- Acceptance of coffins by aircraft operators is dependent upon the type of aircraft, requirements of entry and clearance and prior approval of the States of origin, transit and destination.

Document requirements

- Documentation requirements might be different for different States. It is recommended that these requirements are confirmed with both the State of departure and State of destination prior to arrangement of transport with the aircraft operator and be submitted to the freight forwarder/aircraft operator for arrangement of transport. This might include a death certificate stating cause of death,
certificate of embalming, cremation certificate, import permit or any other certificate required by  
national legislation.

- There might be a requirement that when embalming of the body has been performed, that the certificate of embalming (or Laissez-Passer) has to be sealed in the coffin with the body.
- The person requesting transfer of the remains, should obtain a certificate from the funeral parlour or mortuary regarding the procedures that have been followed and submit these certificates to the freight forwarder/aircraft operator who would be required to submit it to the Public Health Office at the destination State. This would either be an embalming certificate, or a certificate that the body has been enclosed in a double-body bag.
- In addition, a certificate confirming disinfection of the coffin must be issued by the mortuary and submitted to the freight forwarder/aircraft operator.
- The Council of Europe has developed a Laissez-Passer template under the Strasbourg Agreement on the Transfer of Corpses, https://archive.fo/aUAt5; that could be used for facilitation purposes. Appendix 4 provides the Laissez-Passer template.
Appendix 1

Requirements of repatriation of human remains by country

**AFRO:**


Kenya: [https://kenyaembassydc.org/transdeceased/](https://kenyaembassydc.org/transdeceased/)

Liberia: [https://liberiaconsulate-ny.com/consulate-sercives/death-certificate/](https://liberiaconsulate-ny.com/consulate-sercives/death-certificate/)


Sierra Leone: [https://embassyofsierraleone.net/visa-and-consular-services/requirements-repatriation-human-remains-nationals-republic-sierra-leone](https://embassyofsierraleone.net/visa-and-consular-services/requirements-repatriation-human-remains-nationals-republic-sierra-leone)

South Africa: [https://www.southafrica-usa.net/consulate/importing%20mortal%20remains.html](https://www.southafrica-usa.net/consulate/importing%20mortal%20remains.html)

Tanzania: [https://tanzaniaembassy-us.org/?page_id=2321](https://tanzaniaembassy-us.org/?page_id=2321)


**AMRO:**

Argentina: [https://cchic.cancilleria.gob.ar/en/content/transport-human-remains](https://cchic.cancilleria.gob.ar/en/content/transport-human-remains)


Ecuador: [http://www.ecuador.org/nuevosite/serviciosconsulares_misc_e.php](http://www.ecuador.org/nuevosite/serviciosconsulares_misc_e.php)

Guatemala: https://www.consuladoguatemalanuevayork.org/legalizations-english.html
Jamaica: https://www.jamaicacgmiami.org/page/shipping-human-remains/
Mexico: https://www.consulmexny.org/eng/legal_aid_transport_human_remains.htm
Panama: https://www.embassyofpanama.org/transportation-of-human-remains-1
Trinidad and Tobago: https://foreign.gov.tt/services/death-overseas/

EMRO:
Afghanistan: https://www.afghanembassy.us/transferring-deceased-to-afghanistan/
Iran: http://www.daftar.org/forms/vitalrecords/death/900.pdf
Pakistan: https://pakconsulatela.org/shipment-of-dead-bodies/

EURO:
Bosnia and Herzegovina: http://www.bhembassy.org/Consular%20services/Uputstva/Shipment%20of%20human%20remains.pdf
France: https://losangeles.consulfrance.org/spip.php?article2939
https://canada.diplo.de/ca-en/consular-services/familymatters/death/1101248
Italy: https://conslosangeles.esteri.it/consolato_losangeles/en/i_servizi/per-i-cittadini/assistenza/rimpatri
Ireland: https://www.citizensinformation.ie/en/death/after_a_death/bringing_a_body_to_ireland_for_burial_or_cremation.html
Latvia: https://www.latvia-newyork.org/consular-information?rq=remains
A-8


Romania:  https://losangeles.mae.ro/en/node/474


SEAR0

India:  https://www.mea.gov.in/transfer-of-mortal-remains.htm

https://www.indianembassyusa.gov.in/extra?id=19

Indonesia:  http://consular.indonesia-ottawa.org/foreign-citizens/procedures-regulations/transporting-the-remains-ashes/


Thailand:  http://www.customs.go.th/cont_strc_simple.php?ini_content=individual_F01_160426_05&ini_menu=menu_individual_submenu_02&lang=en&left_menu=menu_individual_submenu_02_160421_05

WPRO

Cambodia: https://www.embassyofcambodiadc.org/servicesfees.html

Fiji: https://www.fijiembassydc.com/remains.htm


New Zealand: https://www.safetravel.govt.nz/death


Appendix 2

Requirements for Importing Human Remains through a U.S. Port that are Intended for Interment or Subsequent Cremation

Human remains intended for interment or cremation after entry into the United States must be accompanied by a death certificate stating the cause of death. If the death certificate is in a language other than English, then it should be accompanied by an English language translation. If a death certificate is not available in time for returning the remains, the U.S. embassy or consulate should provide a consular mortuary certificate stating whether the person died from a quarantinable communicable disease.

If the cause of death was a quarantinable communicable disease, the remains must meet the standards for importation found in 42 CFR Part 71.55 and may be cleared, released, and authorized for entry into the United States only under the following conditions:

- The remains are cremated; OR
- The remains are properly embalmed and placed in a hermetically sealed casket; OR
- The remains are accompanied by a permit issued by the CDC Director. The CDC permit (if applicable) must accompany the human remains at all times during shipment.
  - Permits for the importation of the remains of a person known or suspected to have died from a quarantinable communicable disease may be obtained through the CDC Division of Global Migration and Quarantine by calling the CDC Emergency Operations Center at 770-488-7100. If a CDC permit is obtained to allow importation of human remains, CDC may impose additional conditions for importation beyond those listed above.

If the cause of death was anything other than a quarantinable communicable disease, then the remains may be cleared, released and authorized for entry into the United States under the following conditions:

- The remains meet the standards for importation found in 42 CFR Part 71.55, (i.e., the remains are cremated, or properly embalmed and placed in a hermetically sealed casket, or are accompanied by a permit issued by the CDC Director); OR
- The remains are shipped in a leak proof container.

Under 42 CFR § 71.32(b), CDC may also require additional measures, including detention, disinfection, disinfestation, fumigation or other related measures, if it has reason to believe that the human remains are or may be infected or contaminated with a communicable disease and that such measures are necessary to prevent the introduction, transmission or spread of communicable diseases into the United States.
## Appendix 3

### IATA Country Restrictions for Importing Human Remains

Below table* lists all countries and States that have restrictions on the import of human remains (HUM) particularly on HUM to be embalmed or where the cause of death was due to a contagious disease.

For the import of HUM where the cause of death was COVID-19, it is recommended to confirm with the air operators and local competent authority (e.g. Public Health Authority) for specific requirements.

<table>
<thead>
<tr>
<th>Country/State</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algeria</td>
<td>Certificate attesting nature of illness</td>
</tr>
<tr>
<td>Antigua &amp; Barbuda</td>
<td>Embalming is required</td>
</tr>
<tr>
<td></td>
<td>Certificate from the health authority certifying the death was not caused by an infectious disease</td>
</tr>
<tr>
<td>Australia</td>
<td>Embalming is required, except for exceptional circumstances</td>
</tr>
<tr>
<td>Bhutan</td>
<td>Embalming is required</td>
</tr>
<tr>
<td>Botswana</td>
<td>Embalming is required</td>
</tr>
<tr>
<td>Colombia</td>
<td>Embalming is required</td>
</tr>
<tr>
<td>Cook Islands</td>
<td>Embalming is required</td>
</tr>
<tr>
<td>Costa Rica</td>
<td>Embalming is required</td>
</tr>
<tr>
<td>Eritrea</td>
<td>Embalming is required</td>
</tr>
<tr>
<td>Eswatini</td>
<td>Doctor’s report for cause of death to determine if it is contagious</td>
</tr>
<tr>
<td>Fiji Islands</td>
<td>Embalming is required</td>
</tr>
<tr>
<td>France</td>
<td>Specific requirements apply when the cause of death was an infectious disease listed in Sanitary Department Order</td>
</tr>
<tr>
<td>Gabon</td>
<td>Embalming is required</td>
</tr>
<tr>
<td></td>
<td>Certificate attesting that the deceased was not suffering from an infectious disease</td>
</tr>
<tr>
<td>Germany</td>
<td>Where contagious disease is the cause of death, the remain must be enveloped in antiseptic linen</td>
</tr>
<tr>
<td>Grenada</td>
<td>Embalming is required</td>
</tr>
<tr>
<td>Guatemala</td>
<td>Embalming is required</td>
</tr>
<tr>
<td>Hong Kong (SAR China)</td>
<td>Embalming is required</td>
</tr>
<tr>
<td>India</td>
<td>Embalming is required</td>
</tr>
<tr>
<td>Indonesia</td>
<td>Doctor certificate to confirm the death was not caused by a contagious disease</td>
</tr>
<tr>
<td>Ireland</td>
<td>Embalming is required</td>
</tr>
<tr>
<td>Jamaica</td>
<td>Embalming is required</td>
</tr>
<tr>
<td>Japan</td>
<td>If the death was caused by an infectious, contagious, or communicable disease, such human remains may not be imported unless cremated.</td>
</tr>
<tr>
<td>Malawi</td>
<td>Embalming is required</td>
</tr>
<tr>
<td>Malaysia</td>
<td>Embalming is required</td>
</tr>
<tr>
<td>Malta</td>
<td>Certificate from Health Authorities at origin that remains can be transported without risk and danger to public health</td>
</tr>
<tr>
<td>Mexico</td>
<td>Special requirement for non-embalmed human remains.</td>
</tr>
<tr>
<td>Country/State</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------</td>
</tr>
</tbody>
</table>
| Montserrat | Embalming is required  
Certificate from originating Health Authority certifying death was not caused by an infectious disease |
| Myanmar | Embalming is required |
| New Caledonia | Embalming is required  
Certificate proving that there are no infectious risks |
| New Zealand | Special requirement for non-embalmed human remains  
Doctor certificate stating that there were no communicable diseases present in the deceased and the area where they died |
| Nigeria | Embalming is required |
| Pakistan | If death was caused by infectious disease entry is prohibited. |
| Peru | Embalming is required |
| Philippines | For deaths caused by communicable disease, admittance is allowed only when the remains are cremated or properly embalmed and enclosed in hermetically sealed coffin |
| Portugal | Where contagious disease is the cause of death, the remain must be wrapped in a shroud soaked in an antiseptic substance |
| Puerto Rico | Embalming is required  
Human remains will not be admitted when the cause of death was a communicable disease. |
| Salvador, El | Embalming is required  
Certificate stating the cause and place of the death has not been an epidemic or contagious illness |
| Samoa | Embalming is required  
Special requirement for non-embalmed human remains |
| Seychelles | Embalming is required |
| Singapore | Preservation certificate is required |
| Sri Lanka | Embalming is required |
| St. Lucia | Embalming is required |
| St. Vincent and the Grenadines | Embalming is required |
| Tajikistan | If death was caused by infectious disease entry is prohibited. |
| Tonga | Special requirement for non-embalmed human remains |
| Trinidad and Tobago | Embalming is required |
| Turkey | Embalming is required |
| Uganda | Embalming is required |
| Venezuela | Embalming is required |
| Zambia | Embalming is required |
| Zimbabwe | Infectious disease certificate is required |

* Important: Information is sourced by IATA and published in the The Air Cargo Tariff and Rules publication (“TACT”). Restrictions are subject to change at any time.
Appendix 4

Laissez-Passer for Human Remains

Certified International Document – Repatriation Human Remains

Deceased Details

Family Name: ......................................................................................................................
Given name(s): ....................................................................................................................
Address: ................................................................................................................................
Country: ................................ Nationality: ..............................................................................
Date of Birth: ................................ Date of Death: ..............................................................
Place of Death: ....................................................................................................................
Cause of death (if available) ................................................................................................
Shipper: .............................................................................................................................
Tel: .................................... email: .................................................................................
Consignee: ........................................................................................................................
Tel: .................................... email: .................................................................................

Flight Details

Origin Airport: .............................................. Dep. Time:..
Destination Airport: ............................................. Arr. Time:
Company: .......................................................... Tel:
Company Contact: ............................................ email:
Flight No:.......................................................... Date:
Air waybill No:..........................................................

Accompanying Person:

Document Details

Death Certificate: ................................................................................................................
Embalming Certificate (if applicable): ..................................................................................
Freedom from Infection Certificate: .....................................................................................
Funeral Director Declaration: .............................................................................................
Out of Country Declaration: ...............................................................................................
Transportation Permit: ........................................................................................................
Other: ....................................................................................................................................
Done at ....................................... on ..........................................................
Signature of the competent authority Official stamp of the competent authority