



Coordinated action in the aviation sector to control public health threats

Astrid Milde-Busch

AIRSAN Coordination, Robert Koch Institute

CAPSCA Meeting, Cairo, 17 November 2014



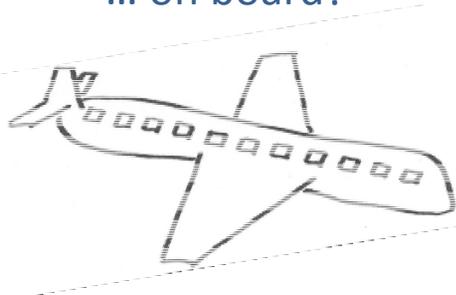
Funded by
the Health Programme
of the European Union

Following situation might arise

During a flight from a highly affected country, the cabin crew recognises that a passenger shows symptoms compatible with Ebola.

→ What to do ...

... on board?

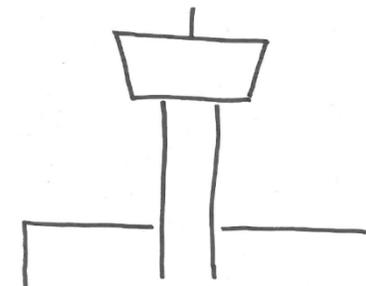


... with the aircraft?

... with travellers?

... at the airport?

...?



AIRSAN Project

- Aim: to support EU Member States to ensure a well-organised and coherent response to public health threats in air transport
- Support the implementation and preparedness activities according to the International Health Regulations and under EU Decision 1082/EC/2013
- Funded by EU
- Duration: April 2013 – March 2015

AIRSAN Associated Partners



- Robert Koch Institute, Germany



- National Institute for Public Health and the Environment, Netherlands



- University of Thessaly, Greece



- National Institute of Hygiene, Poland



- Port Health Authority, Federal Public Service Public Health, Food Chain Safety and Environment, Belgium



- KLM, Royal Dutch Airlines, Netherlands



- Medical Services, FRAPORT AG, Germany



- International Civil Aviation Organization (ICAO)

AIRSAN: 24 Partners

Public health sector (n = 11)

International:

WHO - HQ,
WHO - EURO,
ECDC

National:

Belgium, Germany, Greece, Israel,
Netherlands, Poland, Switzerland,
Turkey



Aviation sector (n = 12)

International:

IATA, ICAO,
Eurocontrol,
EC DG MOVE,
EASA

National: BMVI

Airlines: Air France, KLM, Lufthansa

Airports: Malta, Frankfurt, Varna and
Burgas (Bulgaria)

Additionally for radio-nuclear threats (n = 1):
Office for Nuclear Regulation (UK)

Expected benefit of the AIRSAN Project

- AIRSAN Website and AIRSAN Communication Platform
- AIRSAN Network
- AIRSAN Review and AIRSAN Bibliography
- AIRSAN Guidance Documents
- AIRSAN Training Tool

AIRSAN Website



<http://www.airsan.eu/>



Home About The Project Partners Resources Contact Us



AIRSAN Project

Coordinated action in the aviation sector to control public health threats

The AIRSAN Project aims to support EU Member States in ensuring a well-organized and coherent response to public health threats in the aviation sector.

In order to meet this objective, the AIRSAN Partners aim to develop:

- an AIRSAN Network,
- AIRSAN Guidance Documents,
- an AIRSAN Website and an AIRSAN Communication Platform, and
- an AIRSAN Training Tool.

The AIRSAN Project targets national public health and civil aviation authorities, local public health authorities at local level, and airlines across EU Member States as potential members of the AIRSAN Network.

[Imprint](#)



Funded by
the Health Programme
of the European Union

This webportal arises from the EU AIRSAN project which has received funding from the European Union, in the framework of the Health Programme. Sole responsibility lies with the author. The Consumers, Health and Food Executive Agency is not responsible for any use that may be made of the information contained therein.

Copyright AIRSAN 2013 - 2014 Designed and developed by AIRSAN Project Team



<http://www.airsan.eu/Resources.aspx>

Astrid Milde-Busch Logout



Home About The Project Partners Resources Contact Us

AIRSAN Network

Bibliography

Guidance documents in Public Health and Aviation

The AIRSAN Partnership has compiled a list of existing guidance documents that cover public health threats and air transport on international level.

These documents were reviewed and systematized in form of an annotated bibliography.

In this bibliography, each source is followed by structured general information (e.g. author, year of publication, target group), IHR specific keywords (e.g. screening, quarantine) covered, references to the pages that contain the keyword and a score that informs about the level of detail the keyword is described with.

AIRSAN Guidance Documents

The AIRSAN Project develops a tested set of new/revised AIRSAN Guidance Documents for the response to public health threats in air transport.

The AIRSAN Guidance Documents will be made available on the AIRSAN Website during the progress of the AIRSAN project (expected in March 2015).

AIRSAN Training Tool

The AIRSAN Project develops an AIRSAN Training Tool to support countries in the implementation of the International Health Regulations (2005) and the revised/newly developed AIRSAN Guidance Documents.

The AIRSAN Training Tool will be made available here during the progress of the AIRSAN project (expected in March 2015).

Bibliography

- Search
- Overview
- Definitions
 - Keywords
 - Variables

[Imprint](#)

[Sitemap](#)



Funded by
the Health Programme
of the European Union

This webportal arises from the EU AIRSAN project which has received funding from the European Union, in the framework of the Health Programme. Sole responsibility lies with the author. The Consumers, Health and Food Executive Agency is not responsible for any use that may be made of the information contained therein.

Copyright AIRSAN 2013 - 2014 Designed and developed by AIRSAN Project Team

AIRSAN Communication Platform

<http://www.airsan.eu/AIRSANNetwork/CommunicationPlatform/Search/tabid/100/SearchIHR/True/Status/Open/Default.aspx>

Home About The Project Partners Resources Contact Us AIRSAN Network

Communication Platform

Criteria:

Topic:

Status:

Subject:

Message:

Select Sort

Ebola outbreak West Africa 2014 – specific measures at international airline hubs?			Event Management	
ID: 175	Last Updated: 05/09/2014 11:37:08	Number of Messages: 19	Initiator: Maria an der Heiden (anderheidenma@rki.de)	
AIRSAN Guidance Document - Remote rapid risk assessment			Risk Assessment	
ID: 265	Last Updated: 22/08/2014 10:55:36	Number of Messages: 3	Initiator: Maria an der Heiden (anderheidenma@rki.de)	
New section "Exercises" in Members/Area			General	
ID: 269	Last Updated: 11/08/2014 11:23:38	Number of Messages: 1	Initiator: Benedikt Greutelaers (benedikt.greutelaers@yahoo.com)	

Page 1 of 1
First Previous Next Last

[Imprint](#) [Sitemap](#)

 Funded by the Health Programme of the European Union

This webportal arises from the EU AIRSAN project which has received funding from the European Union, in the framework of the Health Programme. Sole responsibility lies with the author. The Consumers, Health and Food Executive Agency is not responsible for any use that may be made of the information contained therein.

Copyright AIRSAN 2013 – 2014 Designed and developed by AIRSAN Project Team

- Network Registry
- Communication Platform
- Search
- New Issue
- Exercises
- Upcoming Exercises
- Add Exercise
- Archive of Exercises
- Project Corner

AIRSAN Network



<http://www.airsan.eu/RegistertotheAirsanNetwork>

Home About The Project Partners Resources Contact Us

Register To AIRSAN Network

*Note: Membership to this website is Private. Once your account information has been approved, your application will be subjected to a screening procedure. If your application is approved, you will be notified by email. All fields marked with a red arrow are required. - (Note: - Registration will take until the system responds.)

Title

First Name

Last Name

Type of Organisation

Name of Organisation

Working at or responsible for an IHR designated airport

Website

Street

Postal Code

City

State or Province

Country

Email Address

Telephone

Cell/Mobile

Fax

Fields of expertise

User Name

Password

Confirm Password

*Passwords must be at least 7 characters



<http://www.airsan.eu/AIRSANNetwork/NetworkRegistry/tabid/99/SearchIHR/True/Default.aspx>

Home About The Project Partners Resources Contact Us AIRSAN Network

AIRSAN Members' List

Criteria:

Type Of Name Of

Organisation: Organization:

Country: Last Name:

Search

Select Sort	Type	Organisation	Country	City	Member Name
View Details	Public Health Authority				
View Details	Airline				
View Details	Civil Aviation Authority				
View Details	Public Health Authority				
View Details	Public Health Authority				
View Details	Civil Aviation Authority				
View Details	Public Health Authority				
View Details	Public Health Authority				
View Details	Public Health Authority				
View Details	Public Health Authority				
View Details	Public Health Authority				
View Details	Public Health Authority				
View Details	Public Health Authority				
View Details	Airline				
View Details	International				

- Members' List
- Communication Platform
- Search
- New Issue
- Exercises
- Upcoming Exercises
- Add Exercise
- Archive of Exercises
- Project Corner

AIRSAN Review

- Background: many organisations have already developed useful documents about public health threats in aviation
- Aims
 - To list relevant existing documents
 - To make the content of these documents easily accessible
- Method
 - Inclusion criteria: documents of international organisations about public health threats in the aviation sector
 - Definition of structural criteria and 33 keywords (e.g. „Emergency Planning“)
 - 2 scientists reviewed the documents
 - Assignment of a score for each keyword specific page (1 – 4)

AIRSAN Bibliography

- 48 documents included
- Published by
 - 17 by IATA
 - 16 by ICAO
 - 10 by WHO
 - Each 2 by ACI, EC and ECDC
 - Each 1 by AEA and IAEA
- Many documents developed in cooperation with other international organisations

AIRSAN Bibliography



<http://www.airsan.eu/Resources/Bibliography/Overview.aspx>

Astrid Milde-Busch Logout



<http://www.airsan.eu/Resources/Bibliography/Search.aspx>

Astrid Milde-Busch Logout

Home About The Project Partners Resources Contact Us

Overview Bibliography

Date 23.05.2014

Version 1.0

Last Update 31.10.2013

Printer Friendly Ve

Select Sort

ID	Published by	Title	Year of Publishing	Contributors	Type of Document	Charges	Published Language	Target Group	Threat
1	ACI	Best Practice Paper: Business Continuity Management Framework and Case Studies for Health-Related Disruptions at Airports	2012	ACI	Guidance Document	Yes	English	Airport Operator, Aviation Authority, Public Health Authority	All Threats, Biological Threats, Chemical Threats, Environmental Threats, Radiological Threats, Unknown Origin
2	ACI, ICAO	Airport Preparedness Guidelines for Outbreaks of Communicable Disease	2009	ACI, ICAO	Guidance Document, Recommendation	Yes	English	Airport Operator, Aviation Authority, Public Health Authority	Biological Threats
3	EC	Strategy for Generic Preparedness Planning: Technical Guidance on Generic Preparedness Planning for Public Health Emergencies	2011	EC	Guidance Document	Yes	Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Italian, Latvian, Lithuanian, Maltese, Polish, Portuguese, Romanian, Slovenian,	Aviation Authority, Public Health Authority	All Threats, Biological Threats, Chemical Threats, Environmental Threats, Radiological Threats, Unknown Origin

Home About The Project Partners Resources Contact Us

AIRSAN Network

Search

Keyword AND

AND AND

Refine Search by

Published by Year of Publishing

Published Language Highest Level of Detail

Public Health Function Public Health Threat

Target Group Free of Charge

Type of Document

Reset Search

[Imprint](#) [Sitemap](#)



Funded by the Health Programme of the European Union

This webportal arises from the EU AIRSAN project which has received funding from the European Union, in the framework of the Health Programme. Sole responsibility lies with the author. The Consumers, Health and Food Executive Agency is not responsible for any use that may be made of the information contained therein.

Copyright AIRSAN 2013 - 2014 Designed and developed by AIRSAN Project Team

AIRSAN Bibliography

<http://www.airsan.eu/Resources/Bibliography/Search.aspx>

Home About The Project Partners Resources **Contact Us**

Search

Keyword: Management of suspect or affected travellers (at-airport) AND All

AND All AND All

Refine Search by

Published by: All
 Airports Council International
 Association of European Airlines
 European Commission
 European Centre for Disease Prevention and Control
 International Atomic Energy Agency
 International Air Transport Association
 International Civil Aviation Organization
World Health Organization

Year of Publishing: All, Unknown, 2014, 2013, 2012

Highest Level of Detail: All, 1, 2, 3, 4

Target Group: All, Airline Operator, Airport Operator, Aviation Authority, Public Health Authority

Public Health Threat: All, All Threats, Biological Threats, Chemical Threats, Environmental Threats

Type of Document: All

Free of Charge: All

Reset Search Search

Imprint Sitemap


 Funded by the Health Programme of the European Union
 This webportal arises from the EU AIRSAN project which has received funding from the European Union, in the framework of the Health Programme. Sole responsibility lies with the author. The Consumers, Health and Food Executive Agency is not responsible for any use that may be made of the information contained therein.
 Copyright AIRSAN 2013 - 2014 Designed and developed by AIRSAN Project Team

Astrid Milde-Busch Logout

AIRSAN

Home About The Project Partners Resources **Contact Us** AIRSAN Network

Search Details

Keyword: Management of suspect or affected travellers (at-airport) AND None Specified

AND None Specified AND None Specified

Refine Search by

Published by: **World Health Organization**

Published Language: All

Public Health Function: All

Target Group: All

Type of Document: All

Year of Publishing: All

Highest Level of Detail: All

Public Health Threat: All

Free of Charge: All

Return To Search
Print Results

4 documents found.

Select Sort

ID	Title	Published by	Year of Publishing	Keyword	References	Level of Detail	Link to Website	Link to Document
41	International Health Regulations (2005): Assessment Tool for Core Capacity Requirements at Designated Airports, Ports and Ground Crossings	WHO	2009	Management of suspect or affected travellers (at-airport)	p. 16 - 17 (3), p. 28 - 29 (3)	3	Link	Link
42	Tuberculosis and Air Travel: Guidelines for Prevention and Control	WHO	2006	Management of suspect or affected travellers (at-airport)	p. 25 (2), p. 38 - 39 (3)	3	Link	Link
44	WHO Technical Advice for Case Management of Influenza A(H1N1) in Air Transport	WHO	2009	Management of suspect or affected travellers (at-airport)	p. 7 - 11 (4), p. 12 - 13 (2)	4	Link	Link
46	International Travel and Health, Mode of travel: Health considerations (Travel by air: Chapter 2)	WHO	2010	Management of suspect or affected travellers (at-airport)	p. 19 (3)	3	Link	Link


 Funded by the Health Programme of the European Union
 This webportal arises from the EU AIRSAN project which has received funding from the European Union, in the framework of the Health Programme. Sole responsibility lies with the author. The Consumers, Health and Food Executive Agency is not responsible for any use that may be made of the information contained therein.
 Copyright AIRSAN 2013 - 2014 Designed and developed by AIRSAN Project Team

AIRSAN Guidance Documents

- Method: 2 surveys amongst AIRSAN Partners
 - To identify topics where guidance is still missing (gaps)
 - To prioritise these topics
- Results
 - 11 topics identified and prioritised
 1. Contact tracing - cooperation between airlines and public health authorities
 2. Rapid assessment and management of biological threats on board of aircraft or at airport
 3. Generic guidance document on cooperation between aviation and health sector - interoperability of emergency plans

AIRSAN Guidance Documents

REMOTE RISK ASSESSMENT - FLOWCHART

Suspect communicable disease on board an aircraft

START of infection control measures
 → Cabin crew proceeds according to IATA Guidelines and/or airline/airport specific procedures (if available in consultation with medical personnel)



AIRSAN Remote Risk Assessment
 Please insert all dates

REMOTE RISK ASSESSMENT (information ideally collected)

Name of crew member providing information:

Number of suspected cases on board:

Information about suspect ill traveller

1. Nationality:

4. Symptoms present (1)

4a. Temperature 38°C / 100°F or greater

4b. Appearing obviously unwell; when did it start:

4c. Coughing; when did it start:

4d. Difficulties of breathing; when did it start:

4e. Diarrhea; when did it start:

4f. Vomiting; when did it start:

4g. Skin rash; when did it start:

4h. Bruising or bleeding without pressure; when did it start:

4i. Confusion of recent onset

5. What does he/she or someone else think is the cause of the illness?

5a. If yes, why does he/she think that?

Medical diagnosis Self-diagnosis Other:

6. Has medical treatment already been taken by ill traveller?

Yes No Unknown

6a. If yes, which medical treatment (consult medical personnel)?

6b. If yes, when did the medical treatment start?

7. Places, where the ill traveller has stayed within the last 14 days (in urban areas or rural areas):

8. Why were the above named places visited (consider if working as a healthcare-worker ...):

9. Any contact with persons with similar symptoms who were cared for patients or had contact to a person who died?

Yes No Unknown

10. ADDITIONAL COMMENTS:

(1): If the meanings of the symptoms are unclear, use CDC Definitions: http://www.cdc.gov/quarantine/pdf/reporting-symptom-definitions_508.pdf

Public health authority coordination and implementation of:
 - Infection control measures
 - Contact tracing (depending on diagnosis)
 - Risk communication

AIRSAN Remote Risk Assessment
 Please insert

Information about the person who is filling this form

Name: _____ E-Mail: _____

Position: _____

A. INITIAL NOTIFICATION (information available)

Date of notification:

Notified by (name:): _____ E-Mail: _____

Following information should be included in the notification:

Airline: _____ Flight#: _____ Departure: _____

Number of persons on board:

B. REMOTE RISK ASSESSMENT (information ideally collected)

Name of crew member providing information:

Number of suspected cases on board:

Information about suspect ill traveller

1. Nationality:

4. Symptoms present (1)

4a. Temperature 38°C / 100°F or greater

4b. Appearing obviously unwell; when did it start:

4c. Coughing; when did it start:

4d. Difficulties of breathing; when did it start:

4e. Diarrhea; when did it start:

4f. Vomiting; when did it start:

4g. Skin rash; when did it start:

4h. Bruising or bleeding without pressure; when did it start:

4i. Confusion of recent onset

5. What does he/she or someone else think is the cause of the illness?

5a. If yes, why does he/she think that?

Medical diagnosis Self-diagnosis Other:

6. Has medical treatment already been taken by ill traveller?

Yes No Unknown

6a. If yes, which medical treatment (consult medical personnel)?

6b. If yes, when did the medical treatment start?

7. Places, where the ill traveller has stayed within the last 14 days (in urban areas or rural areas):

8. Why were the above named places visited (consider if working as a healthcare-worker ...):

9. Any contact with persons with similar symptoms who were cared for patients or had contact to a person who died?

Yes No Unknown

10. ADDITIONAL COMMENTS:

C. OUTCOME OF THE REMOTE RISK ASSESSMENT

Check if applicable	Is the event a public health risk?	Actions to be considered
<input type="checkbox"/>	Event is not a public health risk (e.g. suspected seasonal influenza without increased virulence)	<ul style="list-style-type: none"> Risk communication about the event may be needed to address the public perception of risk (For instance: ask airport operator, airline operator and cabin crew to inform that the outcome of the risk assessment revealed: there is no public health risk)
<input type="checkbox"/>	Event is a public health risk	<ul style="list-style-type: none"> Implement infection control measures Collect information needed for possible contact tracing (depending on diagnosis) Provide guidance to airline operators, airport operators and others about necessary measures

Check if applicable	Which communicable disease is suspected?	Incubation period
<input type="checkbox"/>	Suspected novel influenza with pandemic potential OR seasonal influenza with increased virulence	2 days (1-4 days)
<input type="checkbox"/>	Influenza virus with zoonotic potential (e.g. avian and swine influenza)	2 days (up to 10 days)
<input type="checkbox"/>	Severe acute respiratory syndrome (SARS)	3-10 days
<input type="checkbox"/>	Middle East respiratory syndrome coronavirus (MERS-CoV)	2-14 days
<input type="checkbox"/>	Meningococcal disease	3-4 days (2-10 days)
<input type="checkbox"/>	Tuberculosis	
<input type="checkbox"/>	Measles	8-10 days (up to 19 days)
<input type="checkbox"/>	Viral haemorrhagic fevers	2-21 days
<input type="checkbox"/>	Other disease relevant for contact tracing:	

D. If the event is a public health risk, the following information needs to be collected upon arrival

12. Name of ill traveller: _____ 13. Phone: _____

14. Place of residence: _____ 15. E-Mail: _____

16. Does the ill traveller suffer from an underlying condition? Yes No Unknown

16a. If yes, which? _____

16b. If yes, which medication has been taken? _____

17. Measures taken by crew Isolation of ill passenger Mask for ill traveller
 Mask for crew member in charge Gloves for crew member in charge Oxygen
 Medication, specify: _____

18. Where did the ill traveler stay during the flight (which seat/s, which area/s)? _____

19. Is any family member or someone else travelling with the ill traveller (same transports, visits, hotels)? Yes No Unknown

19a. If yes, seat numbers of other persons: _____

20. Number of crew members or passengers caring for the ill traveller (direct contact: touching the ill traveler, talking more than 15 minutes with the ill traveler): _____

20a. If one or more, names of crew members or seat numbers of passengers: _____

21. Did the ill traveler lose any body fluids (e.g. blood, vomit, urine)? Yes No Unknown

21a. If yes, did any contamination occur? Yes No Unknown

21b. If yes, state location and body fluid causing contamination (e.g. seat no. 2A contaminated with blood, rear left toilet contaminated with vomit)? _____

22. ADDITIONAL COMMENTS: _____

AIRSAN Training Tool

- Shall support authorities and companies with the implementation of the AIRSAN Guidance
- As table top exercises with video injects, information and additional aiding material



Source: eci.com

Exercises

<http://www.airsan.eu/AIRSANNetwork/Exercises/UpcomingExercises.aspx>

Logout

Home About The Project Partners Resources Contact Us

Upcoming Exercises

This site is dedicated to inform about exercises in the area of public health in the aviation sector.

We offer you the opportunity to upload information on upcoming exercises and share it in the AIRSAN Network. AIRSAN Members are thus enabled to get an easy and quick overview of ongoing exercises where they might want to have more information about or even would like to take part as an observer.

Just click Add Exercise and share this information in the AIRSAN Network.

You are also very welcome to upload information on exercises that already took place in the past so people can learn from the experience and we can together build an Archive of Exercises.

Select Sort
Redirect

Network Registry
Communication Plan
Exercises
• Search
• New Issue
• Upcoming Exercises
• Add Exercise
• Archive of Exercises
Project Corner

[Imprint](#) [Sitemap](#)

Funded by the Health Programme of the European Union

This webportal arises from the EU AIRSAN project which has received funding from the European Union, in the framework of the Health Programme. Sole responsibility lies with the author. The Consumers, Health and Food Executive Agency is not responsible for any use that may be made of the information contained therein.

Copyright AIRSAN 2013 - 2014 Designed and developed by AIRSAN Project Team

<http://www.airsan.eu/AIRSANNetwork/Exercises/AddExercise.aspx>

Astrid Milde-Busch Logout

Home About The Project Partners Resources Contact Us

Add Exercise

Return To List

Date From:

Date To:

Topic/Title:

Type Of Exercise:

Country:

Place/Airport:

Contact Person Name:

Contact Person Email:

Attachment: File

Comments:

[Delete](#)

Redirect

[Imprint](#) [Sitemap](#)

Funded by the Health Programme of the European Union

This webportal arises from the EU AIRSAN project which has received funding from the European Union, in the framework of the Health Programme. Sole responsibility lies with the author. The Consumers, Health and Food Executive Agency is not responsible for any use that may be made of the information contained therein.

Next steps in the AIRSAN Project

- AIRSAN Website and AIRSAN Communication Platform
 - Optimising
 - Continues updates
- AIRSAN Network
 - Continues recruiting of members
 - Expanding the network
- AIRSAN Guidance Documents
 - Field tests
 - Publishing on the AIRSAN Website
 - Promoting use
- AIRSAN Training Tool
 - Finalising, incl. manual, information and aiding material
 - Publishing on the AIRSAN Website

Future

- Continue efforts to strengthen public health in relation to transport
 - Maintain network and exchange possibilities
- Development
 - ... of further AIRSAN Guidance Documents
 - ... of further scenarios for the AIRSAN Training Tool
- Build on synergies with SHIPSAN, CAPSCA, PAGNet and related networks
- Interest to answer calls for 2016

Synergy with CAPSCA and PAGNet

- AIRSAN is an EU funded project which helps developing topics that also have been identified by CAPSCA and PAGNet partners
- Strengthen the network efforts in Europe of CAPSCA and PAGNet
- Close collaboration with CAPSCA and PAGNet
- WHO and ICAO are members of the Scientific Advisory Board of AIRSAN
- At the moment AIRSAN until 2015, but the AIRSAN Network will continue, also strengthening CAPSCA and PAGNet networks

Contact

- Join the AIRSAN Network: www.airsan.eu
- E-mail: AIRSAN@rki.de



This document arises from the AIRSAN project which has received funding from the European Union, in the framework of the Health Programme.
Sole responsibility lies with the author.
The Executive Agency for Health and Consumers is not responsible for any use that may be made of the information contained therein.



Funded by
the Health Programme
of the European Union