

FRAMEWORK PARTNERSHIP AGREEMENT

RISK CHARACTERIZATION OF CIGUATERA FOOD POISONING IN EUROPE

60th MEETING OF THE EFSA ADVISORY FORUM 8-9 JUNIO UTRECHT

































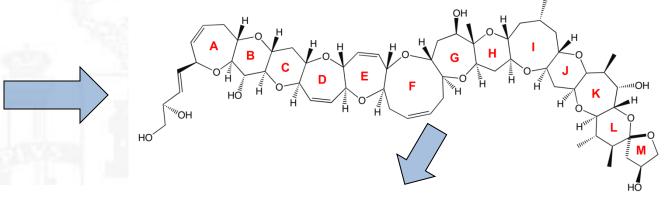
CIGUATERA CFP: CIGUATERA FISH POISONING.

- -The most severe poisoning related with marine toxins in seafood (50 000 to 200 000 people affected yearly). (only 5-10% reported)
- -Mainly in inter-tropical latitudes. Increasing incidence in non-endemic
- -Regulation does not set limits nor an official method.
- -Lack of a harmonized, validated detection method.

CIGUATOXINS: Cyclic polyether toxins, produced by dinoflagellates (Gambierdiscus sp) and responsible for symptoms of ciguatera poisoning.



http://pn.bmj.com/content/7/5/316.full

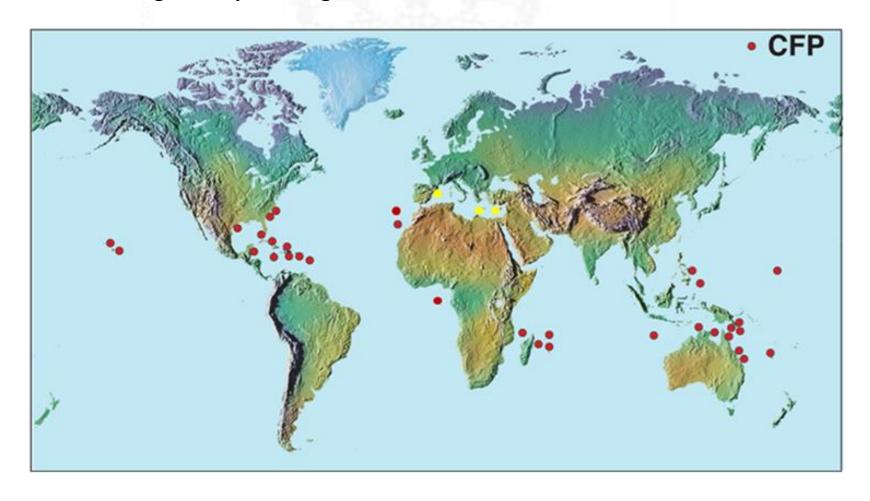




http://www.whoi.edu/science/B/redtide/species/cfp vectorfish.jpg



WORLDWIDE DISTRIBUTION of Ciguatera cases of poisoning (Red dots) including episodes in the Western Atlantic, Macaronesia (Canary Islands and Madeira). Additionally, only for the Mediterranean, this maps reports (Yellow dots) presence of *Gambierdiscus* spp. in Cyprus, Crete and the Balearic Islands. There is no thorough evidence of Ciguatera poisoning in the Mediterranean.







FIRST RECORDS OF OUTBREAKS IN EU

Canary Islands: 2004 – Amberjack (Seriola rivoliana) 26 kg: 9 people affected

Madeira: 2008; Amberjack (Seriola rivoliana)

30 kg: 16 people affected



Background



Ciguatera outbreaks due to autochthonous fish in the European Union: Spain

| Date | Place | No. of Cases | Type of fish | Size (kg) | Fish origen | Ctx detection |
|----------|--------------|--------------|---------------------|-----------|---------------|---------------|
| Nov 2008 | Tenerife | 25 | Seriola fasciata | 37 | Local market | Yes |
| Jan 2009 | Tenerife | 4 | Seriola dumerilis | 67 | Sport fishing | Yes |
| Sep 2009 | Gran Canaria | 3 | Seriola spp. | UNK | UNK | |
| Nov 2009 | Tenerife | 2 | Seriola spp. | UNK | Sport fishing | |
| Apr 2010 | Tenerife | 6 | Seriola spp. | 80 | UNK | |
| Jun 2011 | Gran Canaria | 5 | Seriola spp. | 24 | Sport fishing | Yes |
| Jan 2012 | Lanzarote | 10 | Seriola spp. | 15 | Sport fishing | |
| Apr 2012 | Lanzarote | 9 | Seriola spp. | 26 | Sport fishing | |
| May 2012 | Tenerife | 4 | Seriola spp. | UNK | Local market | |
| Dec 2012 | Tenerife | 12 | Epinephelus spp. | 18 | Sport fishing | Yes |
| Dec 2013 | Lanzarote | 16 | Epinephelus spp. | UNK | Local market | Yes |
| Feb 2015 | Tenerife | 3 | Mycteroperca fusca | 3-4 | Local market | |
| Apr 2015 | Tenerife | 3 | UNK | UNK | UNK | |
| May 2015 | Tenerife | 2 | Pamatomus saltatriz | <10 | Sport fishing | Yes |



SANITARY CONTROL MEASURES APPLIED IN THE CANARY ISLANDS BECAUSE OF THE EMERGING PRESENCE OF CIGUATOXIN

 MANDATORY NOTIFICATION OF CIGUATERA On the basis of the higher incidence of Ciguatera food poisoning in Canary Islands: Annex III amendment of Decree 165/1998 (Canaries Epidemiological Surveillance Network)



General Directorate of Fisheries Canary Islands Government



General directorate of Public Health Canary Islands Government

- OFFICIAL CONTROL PROGRAMME (started 2009)
- ACTION SCOPE: First selling points, food enterprises and restaurants.
- MEETINGS WITH SPORT FISHING ASSOCIATIONS



AUTOCHTONOUS CIGUATERA OUTBREAKS IN THE EU: SPAIN AND PORTUGAL



Contents lists available at ScienceDirect

Toxicon

journal homepage: www.elsevier.com/locate/toxicon



Short communication

Ciguatera fish poisoning on the West Africa Coast: An emerging risk in the Canary Islands (Spain)

Eurosurveillance

rveillance, Volume 17, Issue 23, 07 June 2012

Luis D. Boada ^{a, *}, Manuel Zumbado ^a, Octavio P. Luzardo ^a, Maira Almeida-González ^a, Steven M. Plakas ^b, Hudson R. Granade ^b, Ann Abraham ^b, Edward L.E. Jester ^b, Robert W. Dickey ^b



Rev Port Saúde Pública. 2011;29(1):77-87



Biotoxinas emergentes em águas europeias e novos riscos para a saúde pública

Emergent biotoxins in European waters and new public health risks





portuguesa de Saúde pública

www.elsevier.pt/rpsp



Artigo original

Biotoxinas emergentes em águas europeias e novos riscos para a saúde pública

Paulo Vale

Instituto Nacional de Recursos Biológicos, I.P. – Instituto de Investigação das Pescas e do Mar, Lisboa, Portugal



Ciguatera cases in European Union travellers

J Travel Med. 2001 May-Jun;8(3):139-42.

Ciguatera fish poisoning: an emerging syndrome in Italian travelers.

Bavastrelli M1, Bertucci P, Midulla M, Giardini O, Sanguigni S.

Medicina Clínica

Vol. 120. Núm. 20. 31 Mayo 2003

Documento Anterior - Documento Siguiente

Intoxicación por ciguatoxina en viajeros

Ciguatera poisoning in Spanish travellers

Joaquim Gascón a, Maria Macià a, Inés Oliveira a, Manuel Corachán a

a Sección de Medicina Tropical. Centro de Salud Internacional. Hospital Clínic. IDIBAPS. Barcelona. España.



Ciguatera outbreaks due to imported fish in the European Union



INTOXICATION ALIMENTAIRE À LA CIGUATERA : SAVOIR L'ÉVOQUER MÊME EN L'ABSENCE DE VOYAGE

Vaillant V.1, Caumes E.2, De Valk H.1, Mesnage V.3, Griffon AM.4.



Toxicon

Volume 91, 1 December 2014, Pages 76-83

Special Issue: Freshwater and Marine Toxins



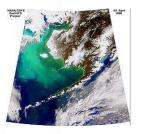
Ciguatera fish poisoning: A first epidemic in Germany highlights an increasing risk for European countries

César Mattei^a, Irina Vetter^b, Anneka Eisenblätter^c, Bernd Krock^d, Martin Ebbecke^e, Herbert Desel^e, Katharina Zimmermann^c. ▲ · ■



CIGUATERA POISONING AN EMERGING RISK IN THE EU

- -Madeira and Canary Islands (Macaronesia):
 - -Presence of Gambierdiscus spp.
 - -Fish with CTXs.
 - -CFP reported.
- Mediterranean Sea:
 - -Presence of Gambierdiscus spp.
- -Reported cases in hospitals in continental Europe (EU citizens travelling to ciguatera endemic / Imported fish with CTXs).



Climatic changes



Fisheries activity



Oversea Traffic increase



International trade



WHICH ARE THE NEEDS????



EFSA Journal 2010; 8(6):1627

Emerging toxins: Ciguatoxin group. EFSA Journal 2010;

8(6):1627. [38 pp.].

- ✓ Certified reference standards and reference materials are needed
- ✓ Methods other than the Mouse Bioassay should be further developed, optimised and validated
- ✓ More information on occurrence in fish and other seafood is needed.
- ✓ Due to their high acute toxicity and emerging occurrence, appropriate strategies to protect human health need to be developed
- ✓ Further information to better characterise the oral toxicity and relative potencies is needed



CFP Outbreaks

Raised at AF 2010 - Discussed by EREN in 2012

Spain expressed the need to characterize ciguatera food poisoning in Europe.

13th EREN network meeting (April 2015)

Proposal of a project made by issue was discussed the Spanish Agency for Consumer Affairs, Food Safety and Nutrition (AECOSAN) to EFSA in May 2015

SIGNATURE OF THE FRAMEWORK PARTNERSHIP
AGREEMENT 19 MAY 2016





European Food \$afety Author

Committed to ensuring that Europe's food is

Signature in Parma, 19th of April 2016

EFSA'S FRAMEWORK PARTNERSHIP

AGREEMENT
RISK CHARACTERIZATION OF CIGUATERA
FOOD POISONING IN EUROPE





RISK CHARACTERIZATION OF CIGUATERA FOOD POISONING IN EUROPE

- Determination of the incidence and epidemiological characteristics of ciguatera cases in Europe
- Investigate the spatial and temporal distribution of Gambierdiscus spp. in EU waters
- Evaluate the CTX-like toxicity of Gambierdiscus spp. Populations;
- Evaluate possible presence of CTXs in fish in EU waters
- Establish a reliable methodological approach to identify and quantify ciguatoxins (CTXs) in fish and microalgae;
- Develop standards and reference material



PARTNERS, COLLABORATORS AND OTHERS

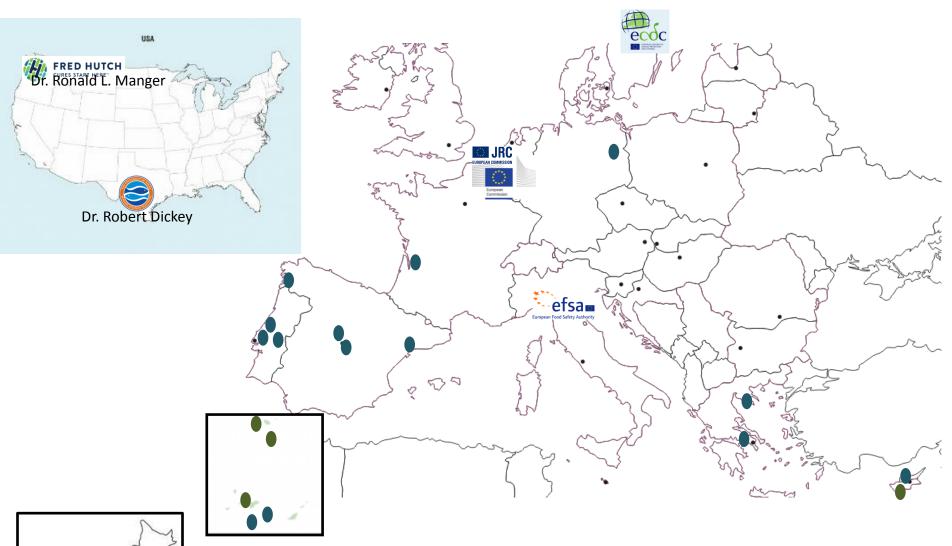


| | Organisation | Acronym |
|-------------|---|---------|
| Coordinator | Agencia Española de Consumo, Seguridad Alimentaria y Nutrición | AECOSAN |
| Partner 1 | Instituto de Salud Carlos III | ISCIII |
| Partner 2 | Institut de Recerca i Tecnologia Agroalimentaries | IRTA |
| Partner 3 | Universidad de Vigo | UVigo |
| Partner 4 | Portuguese Authority for Food and Economic Safety | ASAE |
| Partner 5 | Instituto Nacional de Saúde Doutor Ricardo Jorge, I.P. | |
| Partner 6 | University of Thessaly | |
| Partner 7 | Federal Institute for Risk Assessment | BfR |
| Partner 8 | Canary Health Service (Servicio Canario de la Salud) | SCS |
| Partner 9 | Universidad de Las Palmas de Gran Canaria | ULPGC |
| Partner 10 | Instituto Português do Mar e da Atmosfera | IPMA |
| Partner 11 | State General Laboratory (SGL) / Ministry of Health | SGL |
| Partner 12 | French Research Institute for Exploitation of the Sea | IFREMER |
| Partner 13 | Aristotle University of Thessaloniki | |

PARTNERS, COLLABORATORS AND OTHERS



| | Ministry of Health, Nicosia Cyprus |
|----------------|--|
| Collaborator | Regional Ministry of Agriculture, Livestock, Fisheries and Water the Canary Islands Government |
| | Natural Park of Madeira |
| | Direção Regional das Pescas of Madeira |
| | Dr. Ronald L. Manger Fred Hutchinson Cancer Research Ctr, Seattle, WA |
| | Dr. Robert Dickey Marine Science Institute (UTMSI), Austin Texas |
| Advisory Board | Dr. Robert Dickey Marine Science Institute (UTMSI), Austin Texas Dr. Takeshi Yasumoto |
| | EFSA |
| | ECDC |
| | COM |
| | JRC |





PARTNERS, COLLABORATORS AND ADVISORY BOARD



FRAMEWORK PARTNERSHIP AGREEMENT NUMBER: GP/EFSA/AFSCO/2016 Risk characterization of ciguatera food poisoning in Europe

AECOSAN: FPA leader and coordinator.

- > SPECIFIC AGREEMENT NUMBER 1 : MANAGEMENT AND SCIENTIFIC COORDINATION
- > SPECIFIC AGREEMENT NUMBER 2 : DETERMINATION OF THE INCIDENCE AND EPIDEMIOLOGICAL CHARACTERISTICS OF CIGUATERA CASES IN EUROPE



> SPECIFIC AGREEMENT NUMBER 3: EVALUATION OF CTXs IN SEAFOOD AND THE ENVIRONMENT AND OBTENTION OF REFERENCE MATERIAL



➤ SPECIFIC AGREEMENT NUMBER 4 : CHARACTERIZATION OF CIGUATOXINS PRESENT IN EU CONTAMINATED PROFILES BY LC_MS/MS and HRMS:

DEVELOPMENT OF STANDARDS AND SECONDARY REFERENCE MATERIALS





GOVERNANCE

Governing Board (Management and Scientific): AECOSAN + All the partners

This board will work as an Executive committee, representing the interests of all the specific partners leading the SG, but presided by AECOSAN which will be the ultimately institution taking decisions. The board will deal with both scientific and management issues affecting the project and the different contracts.

Advisory Board: AECOSAN, Dr. Ronald L. Manger (Fred Hutchinson Cancer Research Ctr, Seattle, WA), Dr Robert Dickey (Marine Science Institute (UTMSI), Austin Texas) and Dr. Takeshi Yasumoto (JFRL, Japan), EFSA (Observer), ECDC, COM and JRC.











SA 1: MANAGEMENT AND SCIENTIFIC COORDINATION

PARTNERS: AECOSAN, ASAE

MAIN TASKS



- To facilitate cooperation and scientific advancement of all four Specific Agreements foreseen;
- Favour scientific cooperation among partners within the Governing Board and facilitate interchange of information with the Advisory Board;
- Ensure scientific coherence and data integration among all four Specific Agreements;
- Integrate the different results of the specific agreements in order to provide EFSA with the main goals of the FPA in terms of the risk characterization of the Ciguatoxin poisoning in the EU;



EXTERNAL COMUNICATION PLAN: ECP

TO WHO?

- Operators
- Sport fishing associations
- Food safety competent authorities
- Sanitary competent authorities
- Consumers
- Scientific community
- Advisory forum
- EFSA's panels and SC

HOW

- Webpage
- > Flyers
- Seminars/workshops/meetings
- Interactions with other projects/ initiatives





Surveys; Awareness campaigns; Flyers; Web & Social Networks





SA3: Evaluation of CTXs in seafood and the environment for the risk assessment of ciguatera fish poisoning

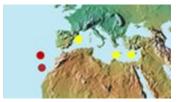
MAIN TASKS:

- Isolation of *Gambierdiscus* spp. from EU waters: Madeira, Canary Islands, Crete, Cyprus, Balearic Islands and toxicity evaluation;; Species identification; Isolation and culturing of microalgae for Toxicity evaluation (by cell-based assay, CBA) and large-scale culture of the most interesting toxicogenic strains.
- Evaluation of CTXs in fish for human consumption, from EU waters: from Macaronesian islands and the Mediterranean Sea (Canary Islands Madeira, Crete, Cyprus and Balearic Islands). Collection of fish samples from the field and from the market (muscle and liver if available), toxicity evaluation by CBA and confirmation by LC-MS/MS in collaboration with Grant 4.
- Development of primary reference material (Linked to Grant 4); screening of samples, Identification of toxin profiles and quantification of toxins in reference material (microalgae and fish), stock of reference material containing CTXs.
- Gathering of environmental data Literature and data search for the future development of models to understand the ecology of ciguatera.

Sampling for Gambierdiscus spp. from the field and fish from the field and the market Environmental data:

Madeira
Canary Islands
Balearic Islands
Crete
Cyprus



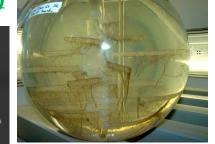












Extraction of *Gambierdiscus* spp., fish samples and purification of extracts





Toxicity evaluation with a cell-based assay

Neuro2a cells



No toxicity Toxicity

MTT viability assay



Identification and quantification of CTXs with LC-MS/MS (In collaboration with GRANT 4)



SG3 Partners:

- Institut de Recerca i Tecnologia Agroalimentàries, IRTA, Generalitat de Catalunya (Spain)
- Universidad de Las Palmas de Gran Canarias, ULPGC (Spain)
- Canary Health Services , **SCS** , Gobierno de Canarias (Spain)
- Instituto Portugues do Mar e da Atmosfera, IPMA (Portugal)
- Aristotle University of Thessaloniki, **AUT** (Greece)
- State General Laboratory, **SGL**, Ministry of Health (Cyprus)



Generalitat de Catalunya



















STATE GENERAL LABORATORY Ministry of Health Cyprus



SG3 Collaborators:

- Regional Ministry of Agriculture, Livestock, Fisheries and Water, Gobierno de Canarias (Spain)
- Direção Regional das Pescas of Madeira (Portugal)
- Natural Park of Madeira (Portugal)



SA4 MAIN GOAL

To characterize the risk associated with Ciguatera poisoning, by developing an efficient analytical methodology with ability to confirm the identity of the toxins involved in the contamination of phytoplankton and fish samples, as well as developing standards and reference materials to be used for this evaluation and characterization as well as to help participants in the project to the evaluated methodologies. up set

Specific Agreement No. 4: characterization of ciguatoxins present in EU contaminated profiles by LC_MS/MS and HRMS: development of standards and secondary reference materials



MAIN TASK:

- Development of a Standard Operating Procedure (SOP) for the Liquid Chromatography coupled with tandem Mass Spectrometry (LC-MS/MS) analysis of Ciguatoxins present in different matrices (phytoplankton and fish)
- Application of the **LC-MS/MS to** all the samples previously identified as positive in the Grant responsible **for Identification** (now Grant 3)
- Confirmation by High Resolution Mass Spectrometry (HRMS) of the CTXs
 profile of the contaminated samples previously evaluated by LC-MS/MS.
- Development of CTX standards and secondary reference materials from contaminated fish
- Intercomparative study through Proficiency Testing of the methodologies developed and applied by Partners and collaborators involved in the Project, as well as testing materials (standards and secondary reference materials) developed in this project through the collaboration with the EU Reference laboratory for marine biotoxins (EURLMB)



DELIVERABLES



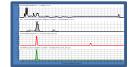
SOP for LC -MS determination of CTXs







Identification of CTXs

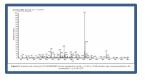




CTXs standards



Confirmation of CTXs (accurate mass)





Fish tissue RM















PARTNERS & COLLABORATORS











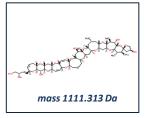


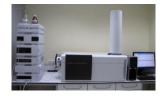






Ifremer





Confirmation of CTX identity





TIMELINE

Signature of FPA, signature of 4 SG, Kickoff meeting

Report, GB meeting, AB meeting Final report, final scientific report, Workshop

2016









Report, GB meeting, AB meeting Report, GB meeting

Length of SG: 4 years since signature date





Kick off meeting Madrid 31 may, 1, 2 June 2016







Specific Agreement No. 2:Determination of the incidence and epidemiological characteristics of ciguatera cases in Europe

MAIN TASKS:

- To stablish a ciguatera case definition.
- To identify data sources for ciguatera cases and outbreaks.
- To elaborate the surveillance protocol.
- To collect ciguatera cases and outbreaks.
- To analyse the information.
- To produce a report.







Instituto Nacional de Saúde

University of Thessaly

DETERMINATION OF THE INCIDENCE AND EPIDEMIOLOGICAL CHARACTERISTICS OF CIGUATERA CASES IN EUROPE

Leader: Instituto de Salud Carlos III, CNE (National Centre of Epidemiology), Spain

Partner:

- Instituto Nacional de Saúde Doutor Ricardo Jorge, Portugal;
- University of Thessaly, Greece;
- Canary Health Service (Servicio Canario de la Salud), Spain;
- BfR, Germany



Collaborators: Maria G. Koliou, Ministry of Health, Nicosia Cyprus;

OTHER MEMBER STATES MAY JOIN AS THEY WILL BE ASKED TO CONTRIBUTE ON A VOLUNTARY BASIS TO THE REPORTING OF CIGUATERA CASES



Case definition



Canary Islands case definition

2. Definición de caso de "Intoxicación por Ciguatera":

Paciente con antecedentes de haber consumido pescado de alguna de las especies consideradas de riesgo* y que presenta un cuadro clínico con:

- Síntomas neurológicos: pueden presentarse un amplio abanico de síntomas, aunque los mas frecuentes son: parestesias (en labios, manos y extremidades), prurito, inversión de la temperatura (los objetos fríos dan sensación de estar calientes y los calientes se perciben como fríos), dolor y debilidad en extremidades inferiores.
- Estos síntomas pueden cursar simultáneamente o aparecer días después de un cuadro digestivo, caracterizado por uno o varios de los siguientes síntomas gastrointestinales: vómito, diarrea, nauseas y dolor abdominal, que suelen presentarse en las primeras 48 horas (más frecuentemente entre 2 a 8 horas) posteriores a la ingesta,
- * Las especies consideradas de riesgo y que se capturan en Canarias son: medregal, abade, mero, pejerrey, bicuda, morena, peto y sierra.

No existe ninguna prueba analítica que confirme el diagnóstico en el paciente. La confirmación solo es posible si se detecta presencia de ciguatoxina en el análisis del pescado consumido por los afectados. Es importante indicar al paciente que si tiene algún resto del pescado (crudo ó cocinado) se abstenga de consumirlo, lo coloque en una bolsa de plástico limpia y lo conserve en el congelador de su nevera hasta que sea recogido y trasladado al laboratorio por personal de la Dirección General de Salud Pública.

Consumption of fish of a risk specie

Neurological symptoms: paraesthesia in lips, hands and extremities; pruritus; reversal of hot and cold sensations, pain and weakness of the lower extremities.

Gastrointestinal symptoms: vomiting, diarrhoea, nausea and abdominal cramps.

Confirmation: detection of CTX in fish





DECISION No 1082/2013/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 October 2013

on serious cross-border threats to health and repealing Decision No 2119/98/EC

- This Decision shall apply to public health measures in relation to the following categories of serious cross-border threats to health:
- (a) threats of biological origin, consisting of:
 - (i) communicable diseases;
 - (ii) antimicrobial resistance and healthcare-associated infections related to communicable diseases (hereinafter 'related special health issues');
 - (iii) biotoxins or other harmful biological agents not related to communicable diseases;
- (b) threats of chemical origin;
- (c) threats of environmental origin;
- (d) threats of unknown origin;
- (e) events which may constitute public health emergencies of international concern under the IHR, provided that they fall under one of the categories of threats set out in points
 (a) to (d).

Ciguatera cases are not reported to the ECDC*

* European Centre for Diseases Prevention and Control









You are here: EPIS > FWD > Urgent Inquiries

All urgent inquiries

| Open urger | nt inquiries | All urgent inquiries | Closed urgent inquiries | | | | | |
|------------|--------------|----------------------|-------------------------|------------------------|--------------------|--------------------|---------------------|---------------------|
| UI ID | Title | | Created | Country or institution | Pathogens 7 | Number of posts | Modified | Closing date |
| UI-089 | 9 | | 17/09/2010 04:45 PM | | marine toxin | 1 | 17/09/2010 04:45 PM | 08/07/2013 05:07 AM |





12.12.2003

EN

Official Journal of the European Union

L 325/31

DIRECTIVE 2003/99/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

2012

of 17 November 2003

on the monitoring of zoonoses and zoonotic agents, amending Council Decision 90/424/EEC and repealing Council Directive 92/117/EEC



EU summary report on zoonoses, zoonotic agents and food-borne outbreaks 2012

Table OUT15. Strong-evidence food-borne outbreaks caused by other causative agents in the EU, 2012

| | | | Strong-evide | nce outbreaks | |
|------------------|----------------|----|--------------|---------------|--------|
| Agent | Country | N | | Human cases | |
| | | N | Cases | Hospitalised | Deaths |
| | Belgium | 4 | 28 | 2 | 0 |
| | Denmark | 3 | 9 | 1 | 0 |
| | France | 13 | 62 | 6 | 0 |
| | Latvia | 1 | 16 | | 0 |
| Histamine | Slovenia | 1 | 3 | 1 | 0 |
| | Spain | 8 | 101 | 1 | 0 |
| | Sweden | 2 | 15 | - | - |
| | United Kingdom | 2 | 7 | 3 | 0 |
| | EU Total | 34 | 241 | 14 | 0 |
| | Belgium | 2 | 110 | 0 | 0 |
| | France | 12 | 47 | 1 | 0 |
| Marine biotoxins | Germany | 1 | - | - | - |
| | Spain | 3 | 27 | 1 | 0 |
| | EU Total | 18 | 184 | 2 | 0 |
| | Poland | 1 | 3 | 3 | U |
| Mushroom toxins | Spain | 6 | 22 | 18 | 1 |
| | EU Total | 7 | 25 | 21 | 1 |
| Mycotoxins | Denmark | 2 | 26 | 0 | 0 |
| WYCOLOXIIIS | EU Total | 2 | 26 | 0 | 0 |
| Atronino | France | 1 | 2 | 2 | 0 |
| Atropine | EU Total | 1 | 2 | 2 | 0 |

2013



EFSA Journal 2015;13(1):3991

Table 35. Strong-evidence food-borne outbreaks caused by other causative strong-evidence water-borne outbreaks), 2013

| Causative agent | Country | N outbreaks | Cases | Hospitalised | Deaths |
|------------------------|-------------|-------------|-------|--------------|--------|
| Histamine | Belgium | 3 | 7 | 3 | 0 |
| | Croatia | 1 | 3 | 1 | 0 |
| | Finland | 3 | 27 | 1 | 0 |
| | France | 14 | 71 | 22 | 0 |
| | Germany | 7 | 17 | 3 | 0 |
| | Spain | 11 | 85 | 0 | 0 |
| | Sweden | 3 | 21 | 0 | 0 |
| | Switzerland | 3 | 7 | 1 | 0 |
| Marine biotoxins | France | 22 | 114 | 4 | C |
| | Spain | 1 | 16 | 0 | C |
| Mushroom toxins | Poland | 3 | 9 | 9 | 1 |
| | Spain | 2 | 8 | 3 | 0 |
| Mycotoxins | Denmark | 5 | 140 | 0 | 0 |
| Wax esters (from fish) | Spain | 1 | 2 | 0 | 0 |
| Total (MS) | | 76 | 520 | 46 | 1 |







SCIENTIFIC REPORT

APPROVED: 2 December 2015

PUBLISHED: 17 December 2015

AMENDED: 4 February 2016

doi:10.2903/j.efsa.2015.4329

Table 37: Strong-evidence food-borne outbreaks caused by other causative agents (excluding strong-evidence water-borne outbreaks), 2014

| Causative agent | Country | | Strong-e | vidence outbreak | s |
|---|----------------|--------|----------|------------------|--------|
| | | Number | Cases | Hospitalized | Deaths |
| Chemical agents | Spain | 2 | 13 | 0 | 0 |
| | Belgium | 2 | 4 | 2 | 0 |
| Histamine | Denmark | 1 | 3 | 0 | 0 |
| | Finland | 1 | 23 | 2 | 0 |
| | France | 5 | 25 | 4 | 0 |
| | Germany | 4 | 10 | 0 | 0 |
| | Spain | 18 | 84 | 3 | 0 |
| | Sweden | 3 | 13 | 2 | 0 |
| | United Kingdom | 1 | 2 | 2 | 0 |
| Marine biotoxins | Ireland | 1 | 4 | 1 | 0 |
| Marine biotoxins – ciguatoxin | France | 5 | 21 | 0 | 0 |
| Marine biotoxins – musde-paralysing toxin | Spain | 1 | 2 | 0 | 0 |
| Mushroom toxins | Poland | 2 | 4 | 4 | 1 |
| MUSTIFOOTT LOXITS | Spain | 10 | 24 | 18 | 0 |
| Lectin | Denmark | 1 | 4 | 0 | 0 |
| Wax esters (from fish) | Spain | 1 | 2 | 0 | 0 |
| Total (MS) | | 58 | 238 | 38 | 1 |







RASFF Portal

European Commission > RASFF Portal

Notifications list

New search

Export to XML

Print version

Notification details - 2015.0088

ciguatoxins in wild-caught fish (Caranx spp and others) from Sri Lanka

Reference: Notification type: 2015.0088 food - information for attention - border control - consignment released Notification date: Action taken: 27/01/2015 informing authorities Last update: Distribution status: 06/01/2016 distribution restricted to notifying country Notification from: Product: wild-caught fish (Caranx spp and others) France (FR) Classification Product category: fish and fish products information for attention Risk decision Published in RASFF serious has never been published Consumers' Portal

Hazards

| Substance / Hazard | Category | Analytical result | Units | Sampling date |
|--------------------|-------------------|-------------------|-------|---------------|
| ciguatoxins | biotoxins (other) | | | 02/12/2014 |

Countries/organisations concerned (D = distribution, O = origin)

France (D) Sri Lanka (O)



Surveillance protocol



Questionnaire Canary Islands

- Demographic information
- Clinical information
- Epidemiological information
- Contact details of the reporting person



Surveillance protocol



Questionnaire Florida

| | | *Blue fi | elds are REQUIRED | | | |
|---|---------------------------------------|---------------------|---|------------------|---------------------------------|-----|
| Merlin case number: | | County number: | | Investigator: | | |
| | | PRO | OFILE DETAILS | | | |
| *Last name: | | First | name: | N | liddle: | |
| Parent or guardian name | : | | | | | |
| *Gender: Male Female Unk. | *Birth (mm/dd/yy): Death (mm/dd/yy): | *Rac | American Indian/Alas Asian/Pacific Islander Black | | *Ethnicity: Hispanic Non-Hispar | nic |
| Street address: | | | | ~ | O OTIK | |
| City: | | *State: | *Zip code: | *Co | unty: | • |
| Home phone: | | Other phone: | | Emergency phone: | | |
| | | CASE | INFORMATION | | | |
| *Imported: Acquired *Outbreak: Outbreak | | JS, not in FL 🦳 Acq | uired outside US 🧻 Unk | Origin: | | |
| Outbreak ID: | | *Case | classification: Primary | Secondary U | lnk | |
| Reporter type: | | • | Reporter's name: | | | |

Ciguatera Case Report Form V36, March 2013
This form is designed to be filled out electronically and attached to the case in Merlin.
Please complete the Extended Data screen in Merlin using information collected here.

Questionnaire Secretariat of the Pacific Comunity

| | SEAFOOD POISONING REPORT FORM | |
|--|--|---|
| Please fill in the answer | ers to the questions completely. Tick the bexes where appropriate. | |
| Details of person fillin | ng in report form: | _ |
| Name | Job/ Positios | |
| Contact address | | |
| Date: | Signature | |
| Potsoned person's deta | alte | = |
| | Sex (M/F) Age (vrs) | |
| | Sex (MIF) Age (Hs) | _ |
| Address | | _ |
| Details of the seafood | that caused the poisoning: (tick all the boxes that apply) | _ |
| Type of food | Where caught How preserved What eaten How eaten | |
| Fish | | |
| Crab | | |
| Lobster | | |
| Other crustacean | Reel patch Salted Liver | |
| Gastropod* | Lagoon Dried Ree D | |
| Bivalve* | Outer reef Smoked Other organs How many others | |
| Other molluse _ 🖵 | Open sea Pickled (specify) are this meal? | |
| Other (specify) | Other (specify) Other (specify) felt sick? | |
| | | |
| Unknown | Unknown Unknown Unknown to hospital? | |
| Name of vendor or resta Name of place it was ca | me of the seafood? | |
| | | - |
| | shelled scafoods like snails, trochus, concues, etc. led scafoods like clams, mussels, cockles, vysters, etc. | |
| Symptoms: (tick all the | | = |
| symptoms: (nex all the | e wines into apply) | |
| Burning or pain when | n touchirg cold water Pin pricking sensation on touching water [| ٥ |
| | | 5 |
| | nen urinafing Skin itzhing orredness | ۵ |
| Difficulty in breathin | | ã |
| Difficulty in walking | | ã |
| Difficulty in talking_ | | ã |
| | | ā |
| Eve irritation | | _ |
| Eye irritation | | |
| Eye irritation Medical data: | | _ |
| Eye irritation | Blood pressure / Pupils | |
| Eye irritation Medical data: Pulse | Blood pressure / Pupils | = |
| Eye irritation | 5 - 1000 | |
| Eye irritation | 5 - 1000 | _ |

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THANK YOU



EU/EFSA

Risk characterization of ciguatera in Europe.

Recommendations.

A framework for the future prediction of ciguatera.

PARTNERS AND COLABORATORS WITHIN THE FPA

Exchanging and sharing samples, methods, know-how.

Consolidate and increase links.

Scientific collaborations.

RISK MANAGERS

Better tools and strategies for environmental and public health/food safety institutions that will have to manage ciguatera.

SCIENTIFIC COMMUNITY

Provide high standard scientific papers and communications.





HOW TO COLLABORATE IN THE PROJECT (SG2): WHAT DO WE NEED

- ADVISORY FORUM: To provide the list of persons in charge of reporting food-borne outbreaks to EFSA.
- REPORTING AUTHORITIES: updated information on food-borne outbreaks due to ciguatoxins (marine biotoxins).
 - Food-borne outbreaks not sent to EFSA.
 - More information from all ciguatoxin (marine biotoxins) outbreaks.

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