

I-DTA

Investigation of Foodborne Diseases

Hosana Lima Siqueira de Souza
Lucrécia Helena Loureiro



**MESTRADO
PROFISSIONAL
ENSINO EM CIÊNCIAS
DA SAÚDE E DO MEIO AMBIENTE**

FUNDAÇÃO OSWALDO ARANHA
CENTRO UNIVERSITÁRIO DE VOLTA REDONDA
PRÓ-REITORIA DE PESQUISA E PÓS-GRADUAÇÃO
MESTRADO PROFISSIONAL EM ENSINO EM CIÊNCIAS DA SAÚDE E
DO MEIO AMBIENTE

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1. INTRODUCTION



Foodborne Diseases (DTA) originate from the ingestion of contaminated food and/or water, and can be of chemical, physical or biological origin. Bacteria, among microorganisms, are the main promoters of these diseases, being responsible for about 90% of the occurrences.

The increase in the occurrence of foodborne outbreaks has become a growing, being considered a public health problem. In Brazil, although the number of notifications is increasing, underreporting and failures in the investigation stages compromise the generation of information.

Information and Communication Technologies (ICT) in health have shown to be relevant, contributing to the monitoring of actions and promotion of care in the control and/or prevention of diseases. The use of these tools provides agility, practicality and information storage. The developed software, which is an application, will be a facilitating instrument for the investigative process of DTA outbreaks and to generate guidelines aimed at reducing these diseases.

2. HOW THE APP WORKS



The application was built for use by professionals working in DTA investigative processes, and can be used on notebooks, tablets, smartphones and other mobile devices, in five languages.

The application's home screen presentation, its sections and subsections have self-explanatory icons and nomenclatures for the meaning of the content. The device will be used during the DTA investigative process.

Data related to the outbreak, collected through the application, are synchronized and the etiological agent involved in the outbreak is indicated. Guidelines on Foodborne Diseases will be made available to clients/users and establishments with a view to reducing these diseases and providing agility to the process, in addition to serving as an educational tool for professionals working in the area.

3. ACCESS SCREEN



The initial screen has the login and password to enter, individual for each user, in addition to confirmation through verification test from the typing of characters.

The application makes it possible to choose the language for using the application, with the options being Portuguese Brazil, Portuguese Portugal, English, German and French.



Entrar

 Digite os caracteres

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4. DESCRIPTION OF SECTIONS



The application consists of sections with access buttons, which are:



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- Cadastres
- Investigation Forms
- Orientations
- Reports
- Panels
- Schedule
- Safety
- About

5. REGISTRATION SECTION



In the Registration section, all previous registration information is entered, and it has internal subsections of:



- Health Surveillance
- Server Role
- Server
- Foods
- Etiological Agent
- Symptoms
- Foodborne Diseases
- Establishments
- Field of Activity
- Age Group
- Client

5. REGISTRATION SECTION



Subsection **Health Surveillance (VISA)**: for the cadastral inclusion of municipal VISA information.

From the CEP information, the system automatically fills in the address, being necessary to include the other data, such as: number, telephone, website, e-mail, CNPJ and logo.



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Update of VISA

Quick search

Code 1	Social Reason Vigilância Sanitária do Município de Volta Redonda	Fantasy name VISA - VR
Zip code 27.283-080 <input type="button" value="📍"/>	Number 282	Complement Aterrado
Address Rua Dep. Geraldo Di Biase	City VOLTA REDONDA	state RJ
Neighborhood Centro	Cell phone (24)3339-9551	Whatsapp (24)3339-9551
Telephone (24)3339-9551	Email gs.sms@epdvr.com.br	logo <input type="button" value="Select File..."/>
Site https://new.voltaredonga.rj.gov.br/8-interno/68-sms	State registration ISENTO	Municipal registration ISENTO
CNPJ 36.504.470/0001-30	Health Unit Code	
CNAE 84.11-6-00		

Go to

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[1 of 1]

5. REGISTRATION SECTION



Subsection **Server Function**: to register the specific functions of each professional working at VISA.



Update of função

Quick search

		Code	Description
1	<input type="checkbox"/>	1	<input type="text" value="Fiscal"/>
2	<input type="checkbox"/>	2	<input type="text" value="Agente sanitario"/>

Go to View [1 to 2 of 2]

5. REGISTRATION SECTION



Subsection **Server Function**: for carrying out the registration of the names, license plates and telephone numbers of the servers that work in the investigative processes of food outbreaks. In this way, it will be possible to link these professionals in forms and reports.



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Update of servidor

Quick search

+ Add New

Save Selected

Delete Selected

← Back

	Code	Company	Occupation	Name	Registration	Telephone
1	<input type="checkbox"/>	13	VISA - VR	Agente sanitario	<input type="text"/>	<input type="text"/>
2	<input type="checkbox"/>	14	VISA - VR	Agente sanitario	<input type="text"/>	<input type="text"/>
3	<input type="checkbox"/>	15	VISA - VR	Agente sanitario	<input type="text"/>	<input type="text"/>
4	<input type="checkbox"/>	16	VISA - VR	Agente sanitario	<input type="text"/>	<input type="text"/>
5	<input type="checkbox"/>	17	VISA - VR	Agente sanitario	<input type="text"/>	<input type="text"/>
6	<input type="checkbox"/>	18	VISA - VR	Agente sanitario	<input type="text"/>	<input type="text"/>

Go to View 6

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5. REGISTRATION SECTION



Subsection **Food**: for registering food items. It is a previous database of foods, prepared by the authors, which can be changed, with the inclusion of new ones or exclusion of some food that is registered.



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Update de alimentos

Quick search + Add New Save Selected Delete Selected ← Back

	Description	Sequence
1 <input type="checkbox"/>	Água	9999
2 <input type="checkbox"/>	Água contaminada	9999
3 <input type="checkbox"/>	Água não tratada	9999
4 <input type="checkbox"/>	Alcachofra	9999
5 <input type="checkbox"/>	Alface	9999
6 <input type="checkbox"/>	Alho	9999

Go to View 6 ⏪ 1 2 3 4 5 ⏩ [1 to 6 of 152]

5. REGISTRATION SECTION



Subsection **Etiological Agent**: for registering the agents involved in food outbreaks and incubation time. The application contains a bank of etiological agents and previous incubation periods, built by the authors, and this can be changed, with inclusion or exclusion, if necessary.



Update of agentes etiológicos

Quick search

[+ Add New](#) [Save](#) [Delete](#) [Refresh](#) [Back](#)

Name

Contributing Factors

Incubation period

Go to

« 1 2 3 4 5 »

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5. REGISTRATION SECTION



Subsection **Symptoms**: for registering symptoms presented in food outbreaks.

The application contains a database of previous symptoms, built by the authors, and this can be changed, with inclusion or exclusion, if necessary.



Update of sintomas

Quick search

	Symptoms	Sequence
1	<input type="checkbox"/> Náuseas	0002
2	<input type="checkbox"/> Vômitos	0003
3	<input type="checkbox"/> Dor abdominal	0006
4	<input type="checkbox"/> Diarréia	0005
5	<input type="checkbox"/> Prostração	9999
6	<input type="checkbox"/> Náuseas predominantes	9999

Go to View [1 to 6 of 59]

5. REGISTRATION SECTION



Subsection **DTA**: first synchronization performed by the application. Synchronizes information related to food, etiological agents and symptoms, presenting all these data simultaneously.



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Update of agentes etiológicos

Quick search + Add New Save Delete | 1 2345 →

Name * Staphylococcus aureus
Contributing Factors * Refrigeração deficiente, manipulação inadequada, preparo de alimentos várias horas antes do consumo, manutenção de alimentos em temperaturas elevadas (incubação bacteriana), manipuladores com infecções purulentas.
Incubation period * 1 a 8 horas (em geral 2 a 4 horas)

+ Add New Save Selected Delete Selected | 1 23 → [1 to 6 of 18]

Foods *

1	<input type="checkbox"/>	Bolos e similares com recheio e cobertura	▼
2	<input type="checkbox"/>	Produtos de confeitaria doces e salgado	▼
3	<input type="checkbox"/>	Tortas salgadas	▼
4	<input type="checkbox"/>	Massas salgadas com recheio e/ou cobertura	▼
5	<input type="checkbox"/>	Arroz doce	▼
6	<input type="checkbox"/>	Presunto	▼

+ Add New Save Selected Delete Selected | 1 → [1 to 5 of 5]

Symptoms *

1	<input type="checkbox"/>	Náuseas	▼
2	<input type="checkbox"/>	Vômitos	▼
3	<input type="checkbox"/>	Dor abdominal	▼
4	<input type="checkbox"/>	Diarréia	▼
5	<input type="checkbox"/>	Prostração	▼

5. REGISTRATION SECTION



Subsection **Establishments**: possibility of prior inclusion of data from the establishment that will be inspected.

From the CEP information, the system automatically fills in the address, being necessary to include the other data.



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Update of estabelecimento

Quick search

Code 2	Social Reason Restaurante Bom Gosto	Fantasy name Restaurante Bom Gosto
Zip code 27.213-200 <input type="button" value="📍"/>	Number <input type="text"/>	Complement <input type="text"/>
Address Avenida Dezsessete de Julho	City Volta Redonda	state RJ
Neighborhood Aterrado	Cell phone 24 999278331	Whatsapp 21 983847895
Telephone 24 33382491	State registration <input type="text"/>	Municipal registration <input type="text"/>
CNPJ <input type="text"/>	Field of Activity RESTAURANTES, BAR, LANCHONETES E SIMILARES ▾	Reference point <input type="text"/>
CNAE <input type="text"/>	Email <input type="text"/>	
Contact <input type="text"/>		

Go to

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5. REGISTRATION SECTION



Subsection **Field of Activity**: registration previously carried out by the authors. Describes all the inspection sites that VISA-VR act, and can be changed, if necessary.



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Update of ramo de atividade

Quick search

+ Add New Save Delete

← Back

Code

Description *

RESTAURANTES, BAR, LANCHONETES E SIMILARES

Establishment or Customer *

Cliente Estabelecimento

guidelines

File Edit Insert View Format Table Tools

Rich text editor toolbar with options for Bold, Italic, Underline, Bulleted List, Numbered List, Indent, Outdent, Undo, Redo, Link, Unlink, Image, Video, Table, and Font color.

NORMAS SANITÁRIAS EM GERAL – RESTAURANTES, BAR, LANCHONETE E SIMILARES

Go to

1 2 3 4 5

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5. REGISTRATION SECTION



Subsection **Age Group**: register containing the main groups affected by outbreaks, according to the age record established by the Ministry of Health.



Update of faixa etária

applogicx.com.br/dta/form_faixaetaria/form_faixaetaria.php

Update of faixa etária

Quick search

+ Add New Save Selected Delete Selected Back

		Code	Start	End
1	<input type="checkbox"/>	1	<input type="text" value="0"/>	<input type="text" value="1"/>
2	<input type="checkbox"/>	2	<input type="text" value="1"/>	<input type="text" value="4"/>
3	<input type="checkbox"/>	3	<input type="text" value="5"/>	<input type="text" value="9"/>
4	<input type="checkbox"/>	4	<input type="text" value="10"/>	<input type="text" value="19"/>
5	<input type="checkbox"/>	5	<input type="text" value="20"/>	<input type="text" value="49"/>
6	<input type="checkbox"/>	6	<input type="text" value="50"/>	<input type="text" value="150"/>

Go to View 6

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5. REGISTRATION SECTION



Subsection **Client**: for registering the personal data of the client affected by the outbreak.

Data referring to name, gender and age can be filled in directly in the investigation form section, in the subsection ICSDTA (Collective Inquiry of Outbreak of DTA).



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Update of clientes

Quick search

Code 1	Name * Silvio da Rocha Goulart	Sex * <input checked="" type="radio"/> Masculino <input type="radio"/> Feminino
Birth date * 20/06/1961 <input type="button" value="📅"/> DD/MM/YYYY		
Zip code 25.807-000 <input type="button" value="📍"/>		
Address Acertar	Number SN	Complement .
Neighborhood Centro	City Vassouras	state RJ
Telephone (24)2471-3841	Cell phone (24)9 9304-1763	Whatsapp (24)9 9304-1763
Reference point Pertolgreja	Contact .	Email <input type="text"/>
Field of Activity * Cliente <input type="button" value="v"/>		

Go to

⏪ 1 2 3 4 5 ⏩

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5. REGISTRATION SECTION



When you click the **Back** button, you return to the application's home screen, as shown in the images below.



6. SECTION INVESTIGATION FORMS



In the **Investigation Forms** section, all data regarding the investigative process of the outbreak under analysis will be entered, and it has the internal **subsections** of:



- ICSDTA (Collective Inquiry of Outbreak of DTA)
- RNCSDTA (DTA Case/Outbreak Notification Record)
- FIDTA (Individual Form of Foodborne Diseases)
- RFISDVA (Final Foodborne Disease Outbreak Investigation Report)
- FIRS (Suspicious Meal Identification Form)
- SINAN (Notifiable Diseases Information System - DTA Outbreak Investigation Form)

6. SECTION INVESTIGATION FORMS



Subsection **ICSDTA**: is the main form used. Constructed from the form provided by the Ministry of Health, it will serve as a filter for the other forms. The information collected in the interview with the clients will be inserted in it: personal data, signs and symptoms, and food consumed.

The screenshot shows the web application interface for the ICSDTA form. The browser address bar displays 'applogicx.com.br/dta/aba_icsdtaficha/aba_icsdtaficha.php'. The page title is 'HEALTH SURVEILLANCE DIVISION COLLECTIVE SURVEY OF FOOD-BORNE DISEASE OUTBREAK'. The main navigation bar includes tabs for 'ICSDTA', 'DETAILS DATA (sick and non-sick)', '10- SIGNS AND SYMPTOMS', '11- SUSPICIOUS MEAL FOOD CONSUMED', '12- LABORATORY EXAMS', '13- EVOLUTION', and 'Exit'. Below the navigation bar, there is a 'Quick search' field and a set of controls including '+ Add New', 'Save', 'Delete', and a pagination indicator showing '1' of 2 pages. The form fields are organized into sections: 'Establishment *' (Restaurante Bom Gosto), 'Address of occurrence *' (Avenida Dezesete de Julho, , Aterrado, Volta Redonda, RJ, 27213-200), and 'Notification Date *' (09/09/2021). Below these are fields for 'Investigation Date' (09/09/2021), 'Investigation location' (Restaurante Bom Gosto), 'investigator name', 'investigator role' (Fiscal), and 'Workplace' (Vigilância Sanitária do Município de Volta Redonda). There is a large text area for 'Investigator's signature' and a 'Reset' button at the bottom.

6. SECTION INVESTIGATION FORMS



Subsection **RNCSDTA**: form used by VISA-VR, generating a report that will filter the registration data of the establishment affected by the outbreak.

This image shows a menu of investigation forms. The background is a collage of fresh vegetables. A large magnifying glass graphic is overlaid on the left, with the text 'I-DTA' and 'investigation forms' below it. The menu consists of several circular icons with labels: ICSDTA, RNCSDTA (highlighted with a red arrow), FSDTA, RFISDVA, FIRS, SINAN, and a BACK button with a circular arrow icon. A tooltip for RNCSDTA reads 'RNCSDTA - Foodborne Disease Case/Outbreak Notification Registry'. At the bottom, there is a copyright notice: '©2021 OTACOM Group. All rights reserved.' and a URL: 'https://www.aplogix.com.br/dta/form_rncsdtaficha/form_rncsdtaficha.php'.

This is a screenshot of a web browser displaying the RNCSDTA form. The browser's address bar shows the URL 'applogix.com.br/dta/form_rncsdtaficha/form_rncsdtaficha.php'. The page title is 'RECORD OF NOTIFICATION OF CASE / OUTBREAK OF FOOD-BORNE DISEASE'. The form includes a search bar, navigation buttons ('Add New', 'Save', 'Delete'), and a list of items (currently showing 1). The main form fields are organized into sections: 'RECORD OF NOTIFICATION OF CASE / OUTBREAK OF FOOD-BORNE DISEASE' with 'ICSDTA' (1 - Restaurante Bom Gosto) and 'Notification Date' (09/09/2021); 'NOTIFICATION ORIGIN' with fields for 'Informant Name' (Joao Paulo Cerqueira), 'Zip code' (20.491-350), 'Address' (Rua Ze Trovao), 'Complement' (Casa 1), 'Neighborhood' (Aterrado), 'City' (Volta Redonda), 'Reference point' (pertodaigreja), 'Telephone' ((24)2243-9095), 'Email' (Contato@contato.com.br), and 'Whatsapp' ((24)9-9596-3600). The Windows taskbar is visible at the bottom.

6. SECTION INVESTIGATION FORMS



Subsection **FIDTA**: form used by VISA-VR, generating the form that will filter the registration data of the establishment, customer and food involved in the outbreak.



INDIVIDUAL FOOD TRANSMITTED DISEASE FORM

Search + Add New Save Delete [1 of 1] ← Back

INDIVIDUAL FOOD TRANSMITTED DISEASE FORM

ICSDTA 1 - Restaurante Bom Gosto	Notification Date 09/09/2021	Patient Informe o paciente
-------------------------------------	---------------------------------	-------------------------------

CASE DATA

Birth date 20/06/1961	Age 61a 9m 10d	Sex Masculino
Address Acartar, SN, ...	Telephone (24)2471-3841	Neighborhood Centro
city	state RJ	Reference point Pertolgreja

SUSPICIOUS MEAL

ingestion date 05/09/2021 08:00	Place of ingestion Hospital	Address Ingestion Rua Ze Pia, Z/N, Casa 1
Phone Ingestion (24)3339-9551	Neighborhood Ingestion Aterrado	city ingestion Volta Redonda
UF Ingestion RJ	Ingestion Reference Point perto prefeitura	

FOOD CONSUMED IN THE SUSPECTED MEAL

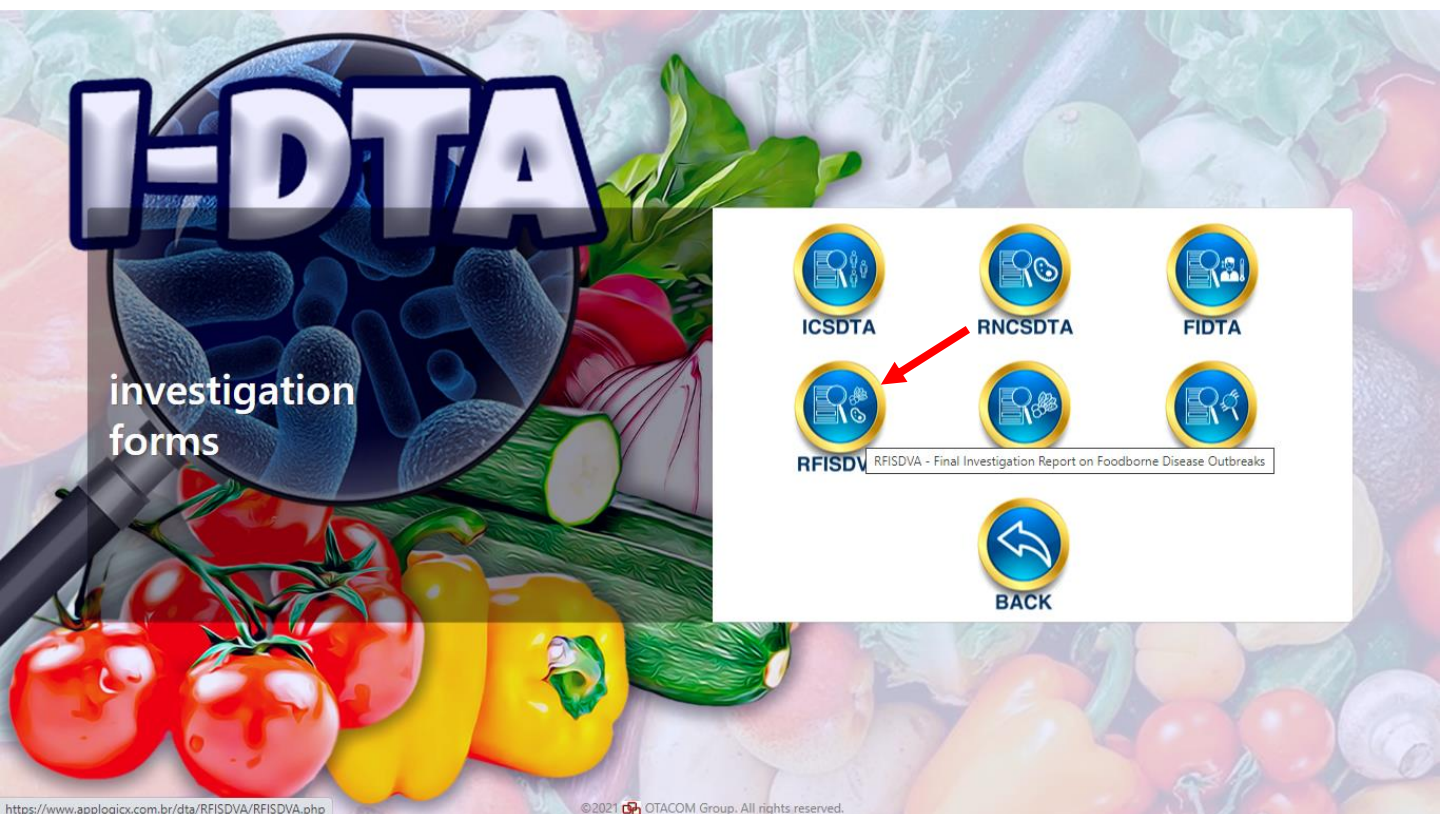
CLINICAL CONDITION

Sick

6. SECTION INVESTIGATION FORMS



Subsection **RFISDVA**: form used by VISA-VR, generating a report that will filter data from the ICSDTA form regarding the number of clients affected by the outbreak, age group and symptomatology.



Update of RFISDVA

Search + Add New Save Delete [1 of 1] Back

place of occurrence 1 - Restaurante Bom Gosto	city Volta Redonda	OUTBREAK No. 1/2021
Start of the Outbreak 09/09/2021	Notification 09/09/2021	Start of Investigation 09/09/2021

NUMBER OF PEOPLE

exposed	9	% 100,00
{lang_Entrevistadas}	9	% 100,00
patients	9	% 100,00
hospitalized	2	% 22,22
Deaths	2	% 22,22

MEDIAN OF THE INCUBATION PERIOD (hours) 6.00

Age Group of Patients (in years)	Male sex (No.)	Sex Female (No.)	Total No.	Total %
< 1	0	0	0	% 0,00
1 a 4	0	0	0	% 0,00
5 a 9	0	0	0	% 0,00
10 a 19	0	0	0	% 0,00
20 a 49	2	0	2	% 22,22
50 e +	0	0	0	% 0,00
TOTAL	2	7	9	% 100,00

SYMPTOMATOLOGY

Symptoms	The amount	Percentage
Calafrios	2	33,33
Cansaco	1	16,66

6. SECTION INVESTIGATION FORMS



Subsection **FIRS**: form used by VISA-VR, generating a report that will filter data from the ICSDTA form referring to foods consumed and reported in the interview, generating data for the suspect meal.

investigation forms

- ICSDTA
- RNCSDTA
- FIDTA
- RFISDVA
- FIRS** (FIRS - Suspect Meal Identification Form)
- BACK

https://www.applagicx.com.br/dta/grid_irs3/grid_irs3.php ©2021 OTACOM Group. All rights reserved.

ICSDTA *

Informe ICSDTA

Search Reset Save Filter Back

ICSDTA => PAULO ROBERTO PERES ME

Date	Snack	patients	People who ingested not sick	People who ingested Total	People who ingested %	People who didn't eat patients	People who didn't eat not sick	People who didn't eat Total	People who didn't eat %
08/09/2021	Água	4	0	4	100,00%	5	0	5	100,00%
08/09/2021	Alface	1	0	1	100,00%	8	0	8	100,00%
08/09/2021	Arroz	6	0	6	100,00%	3	0	3	100,00%
08/09/2021	Arroz colorido	1	0	1	100,00%	8	0	8	100,00%
08/09/2021	Carne moída	4	0	4	100,00%	5	0	5	100,00%
08/09/2021	Feijão cozido	1	0	1	100,00%	8	0	8	100,00%
08/09/2021	Frango cozido	2	0	2	100,00%	7	0	7	100,00%
22/09/2021	Água	2	0	2	100,00%	7	0	7	100,00%
22/09/2021	Arroz	2	0	2	100,00%	7	0	7	100,00%
22/09/2021	Carne bovina	1	0	1	100,00%	8	0	8	100,00%
22/09/2021	Carne cozida	1	0	1	100,00%	8	0	8	100,00%

6. SECTION INVESTIGATION FORMS



Subsection **SINAN**: form based on the form provided by the MS. It consolidates all information from the investigation, and will suggest the possible etiologic agent involved in the outbreak.

This screenshot shows the 'Update of SINAN' form in a web browser. The form is divided into several sections. The 'General data' section includes fields for Occurrence (1 - Restaurante Bom Gosto), Number (1/2021), Notification Type (3-Surto), Disease/Disease (D649 - Anemia não especificada), Code (CID10), Notification Date (09/09/2021), state (RJ), Notification municipality (Volta Redonda), Code (IBGE) (330630), Health unit (or other notifying source) (Vigilância Sanitária do Município de Volta Redonda), Code, and Date of the 1st Symptoms of the 1st Suspected Case (09/09/2021). The 'Outbreak Notification' section shows the number of suspected/exposed cases (1) and the initial place of occurrence of the outbreak (1 - Residência).This screenshot shows the lower portion of the SINAN form. The 'Clinical Samples' section indicates that 1 sample was collected and 2 were ignored. The 'Bromatological samples' section is empty. The 'Incriminated foods' section lists 'Arroz' as the suspected food. The 'Etiological agent' is identified as 'Bacillus cereus (cepa diarréica)'. The 'Confirmation Criteria' section shows that the criteria are based on clinical epidemiology (1). The 'Clasifying Date' field is empty. The 'Medidas Adotadas / Recomendadas' section is empty. The 'Observações' section contains the text: 'descrever ingredientes, modo de preparo e conservação do alimento suspeito. Informar a origem de cada ingrediente (casero/industrializado)'. The 'Investigator' section shows the name 'Armando Alves Gusmão', occupation 'Fiscal', and unit code of health.

6. SECTION INVESTIGATION FORMS



When you click the **Back** button, you return to the application's home screen, as shown in the images below.



7. GUIDELINES SECTION



In the **Guidance** section all guidance information will be inserted, and has internal **subsections** of:



- To the Client
- To the Establishment

7. GUIDELINES SECTION



Subsection **To the Client**: It will provide guidelines aimed at the client, in a nominal form based on the personal data entered during the interview, aiming at reducing these problems.



[back to menu](#) [generate PDF](#) [Send Email](#) [send whatsapp](#)

generate PDF ×

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100%

🔍 ↻

📄 🖨️ ⋮

À Josefa Arruda
.....

NORMAS SANITÁRIAS EM GERAL – Orientações ao cliente

A ingestão de alimentos contaminados causa doenças em milhares de pessoas todos os dias, essas doenças são denominadas DTA - Doenças Transmitidas por Alimentos.

As Doenças Transmitidas por Alimentos são aquelas provenientes da ingestão de alimentos e/ou água contaminados pela presença de perigos biológicos (principalmente microrganismos), químicos (como resíduos de produtos de limpeza, por exemplo) e físicos (como insetos, parafusos, entre outros).

7. GUIDELINES SECTION



Subsection **To the Establishment**: It will provide guidelines aimed at the establishment, nominally based on the personal data entered about the establishment affected by the outbreak, aiming at reducing these problems.



[back to menu](#) [generate PDF](#) [Send Email](#) [send whatsapp](#)

generate PDF ×

sc_pdf_20230330135810_838_orientacao_estab.pdf

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100%

Download Print

À Restaurante Bom Gosto ./-
Avenida Dezesete de Julho, , , Aterrado, Volta Redonda, RJ, 27213-200

ANEXO DA ORIENTAÇÃO DE N°. ____ DE: __/__/__.

NORMAS SANITÁRIAS EM GERAL – RESTAURANTES, BAR, LANCHONETE E SIMILARES

(RESOLUÇÃO RDC ANVISA nº 216/04)

1. Somente comercializar e utilizar no preparo dos alimentos, **produtos com rótulo e registro ou comunicado e fabricação** nos órgãos fiscalizadores do governo; Produtos de origem animal: SIF-MA, SIE-RJ, ou Registros de outros Estados ou SIM legalizados no SISBI-POA (Inst. Norm. 17/2020 – MAPA) ou “Selo Arte” (Lei Federal 13.680/18); Bebidas: nº de registro no MAPA;
2. Observar as **orientações de rotulagem** quanto às condições de acondicionamento, data de fabricação e validade. Os rótulos deverão constar os nomes e endereços dos fabricantes e outros dizeres de rotulagem obrigatórios (Res. RDC nº 259/03 - ANVISA-MS; rotulagem nutricional (Res. RDC nº 419/2020 - ANVISA-MS); componentes alimentares alérgicos (Res. RDC 26/2015 – ANVISA-MS); e ausência ou presença de glúten (Lei nº 10.674/03).
3. **Conservar alimentos** sob refrigeração contínua (até + 5°C) ou sob ação do calor (acima de +60°C) e observar orientações de rotulagem relativas a congelamento (acima de -12°C e/ou -18°C);
4. O descongelamento dos alimentos congelados deve ser realizado sob temperatura de refrigeração até +5°C ou em forno microondas;

7. GUIDELINES SECTION



When you click the **Back** button, you return to the application's home screen, as shown in the images below.



8. SECTION REPORTS



In the **Reports** section, all the information entered will issue reports, from its internal **subsections** Registration, Guidelines and Investigation.



8. SECTION REPORTS



The internal **subsections** Registration, Guidelines and Investigation allow the extraction in PDF, Excel or Print format of all generated records. The reports will serve as a tool for research and evaluation of the content, generating the possibility of disseminating knowledge through information made available through the scientific bases used to build the application.



8. SECTION REPORTS



When you click the **Back** button, you return to the application's home screen, as shown in the images below.



9. PANELS SECTION



In the **Dashboards** section, all the information entered in the previous sections will result in statistical data that demonstrate the current scenario of the investigative processes carried out. The **subsections** are:



- Foods
- Etiological Agent
- Server
- Age Group
- Sex
- Region
- Symptoms
- Field of Activity

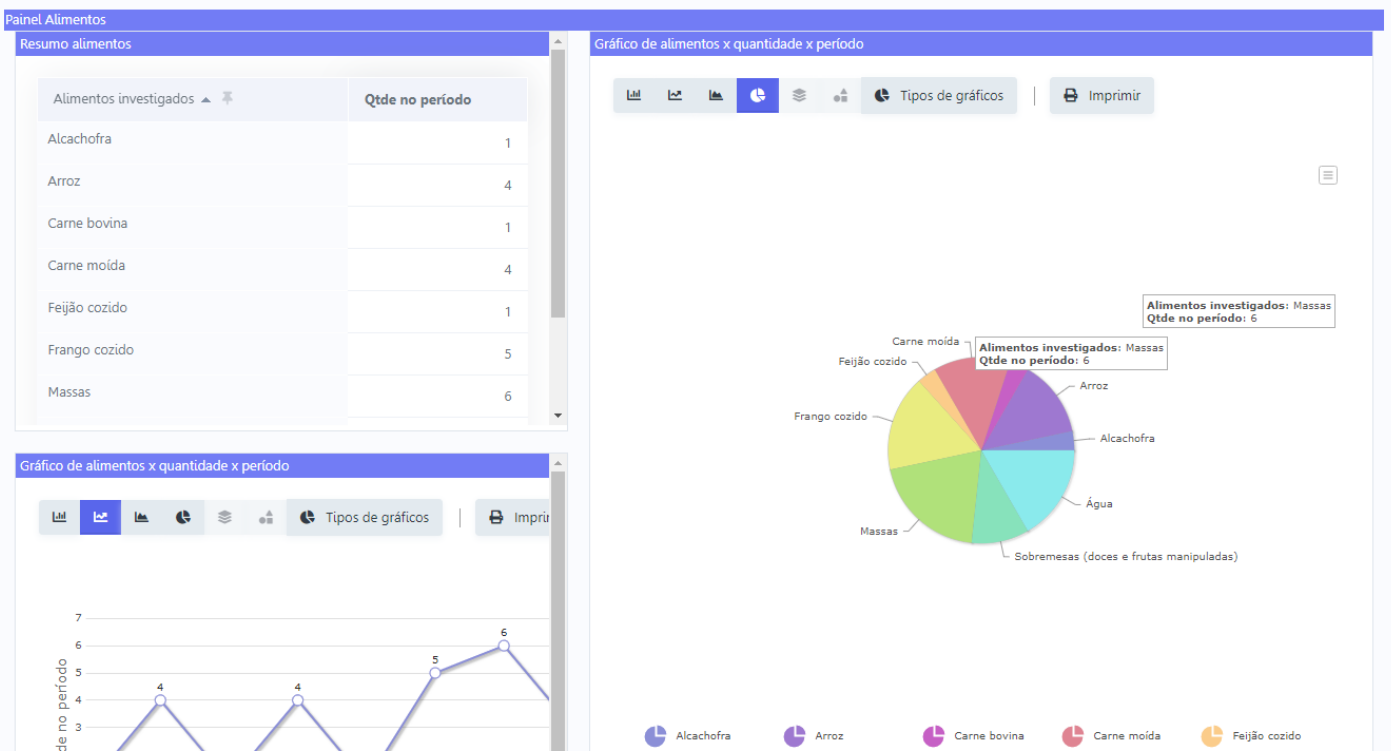
9. PANELS SECTION



The internal **subsections** Food, Etiological Agent, Server, Age Group, Gender, Region, Symptoms and Industry, are responsible for generating statistical data, graphs, dashboards, and it is possible to select the period for data generation.



[Voltar ao menu](#) [Filtro](#)



9. PANELS SECTION



When you click the **Back** button, you return to the application's home screen, as shown in the images below.



10. SCHEDULE



Na seção **Schedule** permite ao usuário do aplicativo organizar sua agenda pessoal.

The Agenda section allows the application user to organize their personal agenda.



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March 2023

Month Week Day Schedule

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

Categories

- Personal
- Work
- Family
- Friends
- Others
- Without category

11. SAFETY



In the **Security** section, it is possible to change the password generated by the user for personal access.



Change Password

Old Password

Password *

Confirm Password *

12. ABOUT



The About section consists of the subsections:

- Authors
- Institution
- Bibliographic references



12. ABOUT



The internal **subsections** present information regarding:
Authors - the Authors' curriculum; Institution - the teaching institution conveyed to the development of the study;
Bibliographical References - used to build the application.



Autores:
Objetivo do produto:

Instrumentalizar os profissionais atuantes em processos investigativos de DTA para as tratativas quanto à surtos alimentares através da utilização de aplicativo.

Hosana Lima Siqueira de Souza
ID Lattes: 8228470781328943 »
LinkedIn:
Hosana Lima Siqueira de Souza »

Dra. Lucrécia Helena Loureiro
ID Lattes: 6766173053167523 »
LinkedIn:
Lucrécia Loureiro »

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Instituição:

UnifOA - Centro Universitário de Volta Redonda
MECSMA - Mestrado em Ensino em Ciências da Saúde e do Meio Ambiente

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12. ABOUT



When you click the **Back** button, you return to the application's home screen, as shown in the images below.

After this section, the application is complete.



FINAL CONSIDERATIONS



The application proved to be complete, effective and innovative, being an important instrument for the process, which will collaborate for the investigation of Foodborne Diseases (DTA), as it is an easy-to-use and highly relevant tool, and contributes to improving the health of the population through the guidelines provided.

The use of the application will attribute greater quality and agility to the investigative process of outbreaks of DTA, both for local VISA and for professionals linked to the food area at national and international level.

It will also be possible to reinforce the achievement of the objectives of the health education process, aiming at the quality of life of the population and the reduction of these injuries.

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