

# SEROCHIK - Cross-sectional Chikungunya Virus Seroprevalence Study

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| General                                                                                                                  |                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Identification                                                                                                           |                                                                                                                                                                                                 |
| Detailed name                                                                                                            | Cross-sectional Chikungunya Virus Seroprevalence Study                                                                                                                                          |
| Sign or acronym                                                                                                          | SEROCHIK                                                                                                                                                                                        |
| CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation | CNIL 1827165, CPP 2006/47 (23/08/2006)                                                                                                                                                          |
| General Aspects                                                                                                          |                                                                                                                                                                                                 |
| Medical area                                                                                                             | Infectious diseases<br>Rheumatology                                                                                                                                                             |
| Pathology (details)                                                                                                      | tropical medicine, virology, knowledge, attitudes, behaviour, practices, health, environment                                                                                                    |
| Health determinants                                                                                                      | Geography<br>Lifestyle and behavior                                                                                                                                                             |
| Keywords                                                                                                                 | Chikungunya virus, impact on health, rheumatology, cross-sectional study, public health, fatigue, prevalence, general population                                                                |
| Scientific investigator(s)<br>(Contact)                                                                                  |                                                                                                                                                                                                 |
| Name of the director                                                                                                     | Gérardin                                                                                                                                                                                        |
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Organization CHU de La Réunion / Inserm / Université de La Réunion / Union Régionale des Médecins Libéraux de l'Océan

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Organization Inserm - Institut National de la Santé et de la Recherche

## Collaborations

Participation in projects, networks and consortia Yes

Details Ongoing: CIRAD (Frédéric Chiroleu) and IRD/SEAS-OI (Télesphore Brou).

## Funding

Funding status Public

Details INSERM - French National Institute of Health and Medical Research

## Governance of the database

Sponsor(s) or organisation(s) responsible Inserm - Institut National de la Santé et de la Recherche Médicale

Organisation status Public

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sponsor(s) or organisation(s) responsible          | CHU de la Réunion                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Organisation status                                | Public                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Additional contact                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Main features                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Type of database                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Type of database                                   | Health relevant administrative databases                                                                                                                                                                                                                                                                                                                                                                                                   |
| Additional information regarding sample selection. | Sample formed using a two-stage probability sample design. 3,032 dwellings were randomly selected at level 1 after stratification by age, gender, residence area, municipality size, and type of habitat. 2,442 individuals were selected at level 2 according to the Kish method. 2,442 index persons were interviewed at home (2,106 adults aged 15 or over; 336 children under 15); 2,221 households and location-specific individuals. |
| Database objective                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Main objective                                     | To determine the prevalence of the Chikungunya virus in the general population of Réunion Island during the post-epidemic period (August-October 2006).                                                                                                                                                                                                                                                                                    |
| Inclusion criteria                                 | <ul style="list-style-type: none"> <li>- Male and female.</li> <li>- Aged 15 years old or over.</li> </ul>                                                                                                                                                                                                                                                                                                                                 |
| Population type                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Age                                                | Adolescence (13 to 18 years)<br>Adulthood (19 to 24 years)<br>Adulthood (25 to 44 years)<br>Adulthood (45 to 64 years)<br>Elderly (65 to 79 years)<br>Great age (80 years and more)                                                                                                                                                                                                                                                        |
| Population covered                                 | General population                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gender                                             | Male<br>Woman                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Geography area                                     | Departmental                                                                                                                                                                                                                                                                                                                                                                                                                               |
| French regions covered by the database             | La Réunion                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Detail of the geography area                       | 24 out of 25 Réunion Island municipalities, not                                                                                                                                                                                                                                                                                                                                                                                            |

including the Mafate municipality.

## Data collection

### Dates

Date of first collection (YYYY or MM/YYYY) 08/2006

Date of last collection (YYYY or MM/YYYY) 10/2006

### Size of the database

Size of the database (number of individuals) [1000-10 000[ individuals

Details of the number of individuals 3,032

### Data

Database activity Data collection completed

Type of data collected  
Declarative data  
Biological data  
Administrative data

Declarative data (detail) Face to face interview

Details of collected declarative data  
Face-to-face questionnaire with 7 modules administered by the researcher at home: A-parlons du chikungunya (Talking About Chikungunya); B-parlons du traitement de la maladie (Talking About Disease Treatment); C-parlons de votre santé en général (Talking About Your General Health); D-connaissances sur la maladie et le moustique (Knowledge About The Mosquito and The Disease); E-comportement face au moustique (Behaviour Regarding The Mosquito); F-perception du risque (Risk Perception); G-description socio-démographique (Sociodemographic Description), as well as a researcher module on direct observation of habitat. Questionnaire supplemented by geographical, climate and location-specific data from Météo France and CIRAD in 2012.

Biological data (detail)  
Serologic status for chikungunya virus infection determined by ELISA IgG -specific serology test on blotting paper.

Administrative data (detail)  
Age, country of birth, professional activity or ongoing study.

|                                                                                       |                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Presence of a biobank                                                                 | No                                                                                                                                                                                                    |
| Health parameters studied                                                             | Health event/morbidity<br>Health care consumption and services                                                                                                                                        |
| Care consumption (detail)                                                             | Hospitalization<br>Medical/paramedical consultation<br>Medicines consumption                                                                                                                          |
| Procedures                                                                            |                                                                                                                                                                                                       |
| Data collection method                                                                | Face-to-face questionnaire administered by the researcher at home.                                                                                                                                    |
| Participant monitoring                                                                | No                                                                                                                                                                                                    |
| Links to administrative sources                                                       | No                                                                                                                                                                                                    |
| Promotion and access                                                                  |                                                                                                                                                                                                       |
| Promotion                                                                             |                                                                                                                                                                                                       |
| Link to the document                                                                  | <a href="http://www.biomedcentral.com/1471-2334/8/99">http://www.biomedcentral.com/1471-2334/8/99</a>                                                                                                 |
| Link to the document                                                                  | <a href="http://www.insee.fr/fr/insee_regions/reunion/themes/revue/revue129/revue129_chikungunya.pdf">http://www.insee.fr/fr/insee_regions/reunion/themes/revue/revue129/revue129_chikungunya.pdf</a> |
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| Link to the document                                                                  | <a href="http://www.insee.fr/fr/insee_regions/reunion/themes/revue/revue129/revue129_chikungunya.pdf">http://www.insee.fr/fr/insee_regions/reunion/themes/revue/revue129/revue129_chikungunya.pdf</a> |
| Link to the document                                                                  | <a href="http://www.biomedcentral.com/1471-2334/8/99">http://www.biomedcentral.com/1471-2334/8/99</a>                                                                                                 |
| Access                                                                                |                                                                                                                                                                                                       |
| Terms of data access (charter for data provision, format of data, availability delay) | Database access conditions are currently being determined.                                                                                                                                            |
| Access to aggregated data                                                             | Access on specific project only                                                                                                                                                                       |
| Access to individual data                                                             | Access on specific project only                                                                                                                                                                       |