

Flurec - Recurring influenza virus infections and implications in terms of epidemic recurrences and pandemic risk.

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General

Identification

Detailed name Recurring influenza virus infections and implications in terms of epidemic recurrences and pandemic risk.

Sign or acronym Flurec

CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation CNIL:1261460, CPP:07715 (18/12/2006)

General Aspects

Medical area Infectious diseases

Health determinants Social and psychosocial factors

Keywords Cross-protective immunity, A/H1N1 virus, seasonal and pandemic, A/H3N2 virus, influenza infection, risk, evolution, population

Scientific investigator(s) (Contact)

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Organization APHP

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Unit	UMR-D 190, Emergence des pathologies virales
Organization	IRD
Collaborations	
Funding	
Funding status	Mixed
Details	Agence nationale de la recherche Institut de Microbiologie et Maladies infectieuses (IMMI)
Governance of the database	
Sponsor(s) or organisation(s) responsible	APHP
Organisation status	Public
Additional contact	
Main features	
Type of database	
Type of database	Study databases
Study databases (details)	Case control study
Database recruitment is carried out by an intermediary	A selection of health care professionals
Database recruitment is carried out as part of an interventional study	No
Additional information regarding sample selection.	Enrolment was carried out by a sub-group of physicians that are part of the Sentinelles network in the UMR-S 707 unit.

Database objective

Main objective	To explore cross-protective immunity involving different A/H1N1 viruses (seasonal and pandemic) and the seasonal A/H3N2 virus through data gathered from this study. This study also aims to identify the epidemiological, immunological and virological factors that determine the risk of recurring influenza infections as well as characterise the population's herd immunity and its evolution.
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Inclusion criteria	The "influenza" group comprises of patients enrolled after general medical consultation for influenza-like illness during seasonal epidemic. The "non-influenza" group comprises of patients enrolled after general medical consultation during seasonal epidemic for a reason other than influenza, yet that was acute in nature e.g. infectious diarrhoea, minor trauma.
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Population type

Age	Adulthood (19 to 24 years) Adulthood (25 to 44 years) Adulthood (45 to 64 years) Elderly (65 to 79 years)
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Population covered	General population
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Gender	Male Woman
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Geography area	National
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Detail of the geography area	France
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Data collection

Dates

Date of first collection (YYYY or MM/YYYY)	2007
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Date of last collection (YYYY or MM/YYYY)	2010
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Size of the database

Size of the database (number of individuals)	[500-1000[individuals
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Details of the number of individuals	534
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Data	
Database activity	Data collection completed
Type of data collected	Clinical data Biological data
Clinical data (detail)	Medical registration
Biological data (detail)	Annual serology, serology for influenza cases
Presence of a biobank	Yes
Contents of biobank	Serum
Details of biobank content	Antibody research against influenza viruses
Health parameters studied	Health event/morbidity Health event/mortality Health care consumption and services
Care consumption (detail)	Medical/paramedical consultation Medicines consumption
Procedures	
Data collection method	Via website dedicated to study
Participant monitoring	Yes
Details on monitoring of participants	Systematic annual visit to the treating physician, carried out between May and October of each follow-up year (2008, 2009, 2010) to update clinical data, collect data for respiratory infections during the winter preceding annual follow-up visit, and annual serology. It is requested that patients consult their physician in the case of influenza-like illness so that a virological and serological sample can be taken.
Links to administrative sources	No
Promotion and access	
Promotion	
Access	
Dedicated website	https://triton.u707.jussieu.fr/FLUREC/
Terms of data access (charter	Clinical data and biological results of serological

for data provision, format of data, availability delay)

tests will be communicated upon presentation of ancillary project protocol. However biological samples will not be accessible. Publications: Lemaitre M, Leruez-Ville M, De Lamballerie XN, Salez N, Garrone P, Fluckiger AC, Klatzmann D, Carrat F. Seasonal H1N1 2007 influenza virus infection is associated with elevated pre-exposure antibody titers to the 2009 pandemic influenza A (H1N1) virus. Clin Microbiol Infect. 2011 May; 17(5): 732-7. Epub 2010 29th Oct. 1 publication on viral diversity and implementation/evolution of immunity in connection with virus type.

Access to aggregated data

Access on specific project only

Access to individual data

Access on specific project only