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

Head :Carrat Fabrice, UMR-S 707 / Epidémiologie des maladies infectieuses et modélisation
De Lamballerie Xavier, UMR-D 190, Emergence des pathologies virales

Last update : 01/01/2020 | Version : 1 | ID : 5081

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)

Name of the director	Carrat
Surname	Fabrice
Address	27 rue chaligny, 75 012 Paris
Phone	+ 33 (0)1 44 73 84 58
Email	carrat@u707.jussieu.fr
Unit	UMR-S 707 / Epidémiologie des maladies infectieuses et modélisation
Organization	APHP

Name of the director	De Lamballerie
Surname	Xavier
Address	Faculté de médecine-Timone, 27 Boulevard Jean Moulin 13005 Marseille
Phone	04-91-32-44-20
Email	xavier.de-lamballerie@univmed.fr
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.
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.

Population type

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

Data collection

Dates

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

Size of the database

Size of the database (number of individuals)	[500-1000[individuals
Details of the number of individuals	534

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