# Disposable-Syringe Jet Injector for Measles-Mumps-Rubella vaccine (DSJI MMR) study

Submission date Recruitment status [ ] Prospectively registered 08/07/2010 No longer recruiting [ ] Protocol [ ] Statistical analysis plan Registration date Overall study status 29/07/2010 Completed [X] Results [ ] Individual participant data Last Edited Condition category 10/07/2019 Infections and Infestations

## Plain English summary of protocol

Not provided at time of registration

## Contact information

## Type(s)

Scientific

#### Contact name

Dr Reinaldo Martins

#### Contact details

Av. Brasil 4365
Manguinhos
Rio de janeiro
Brazil
21040-360
+55 21 3882 9497
rmenezes@bio.fiocruz.br

## Additional identifiers

### Protocol serial number

Asclin/002/2009

## Study information

#### Scientific Title

A randomised, non-inferiority study comparing safety and immunogenicity of a disposablesyringe jet injector to needle and syringe for the administration of measles-mumps-rubella combination vaccine to healthy Brazilian infants aged 12 to 18 months

#### **Acronym**

DSJI/MMR

#### **Study objectives**

Immunogenicity of measles-mumps-rubella (MMR) vaccine administered by needle free device is non inferior to that induced by needle and syringe.

### Ethics approval required

Old ethics approval format

#### Ethics approval(s)

Approved on 4th April 2010 by:

- 1. PATH REC (ref: 499)
- 2. Brazilian CONEP National Ethics Committee (ref: 15810)

#### Study design

Randomised controlled non-inferiority study

#### Primary study design

Interventional

#### Study type(s)

Treatment

#### Health condition(s) or problem(s) studied

Measles, mumps and rubella vaccination

#### Interventions

MMR vaccine, against measles, mumps and rubella (Schwarz, RIT 4385 and Wistar RA 27/3 strains, respectively), to be administered as a single 0.5 mL dose, subcutaneously, delivered by a needle-free device (experimental group) or by the conventional needle and syringe method (control group), in a 2:1 proportion,

that is, 388 volunteers allocated to the experimental group and 194 to the control group. Volunteers will be followed-up for 42 days after vaccination. Blood collections for immunogenicity before vaccination and 42 days after vaccination. Adverse events will be registered in diary cards by parents/guardians during this period.

### Intervention Type

Drug

#### Phase

Not Applicable

#### Drug/device/biological/vaccine name(s)

Measles-mumps-rubella vaccine

#### Primary outcome(s)

Antibody titres 42 days after vaccination: cut offs for enzyme-linked immunosorbent assay (ELISA) 231 units/mL (mumps) and 4 IU/mL for rubella. Plaque reduction neutralisation test (PRNT) for measles, cut off 0.20 IU/mL.

### Key secondary outcome(s))

Local and systemic adverse events during 42 days after vaccination

#### Completion date

26/07/2011

## **Eligibility**

#### Key inclusion criteria

- 1. Healthy children from 12 to 18 months of age, either sex
- 2. Up-to-date with their immunisation schedule according to age
- 3. Not enrolled in other clinical studies

## Participant type(s)

**Patient** 

## Healthy volunteers allowed

No

## Age group

Child

#### Lower age limit

12 months

### Upper age limit

18 months

#### Sex

All

## Total final enrolment

582

#### Key exclusion criteria

- 1. Parents/guardians unable or unwilling to give consent for the study
- 2. Unable to follow the study procedures

#### Date of first enrolment

26/07/2010

#### Date of final enrolment

26/07/2011

## Locations

#### Countries of recruitment

Brazil

## Study participating centre Av. Brasil 4365 Rio de janeiro

Brazil 21040-360

## Sponsor information

#### Organisation

Bio-Manguinhos/Fiocruz (Brazil)

#### **ROR**

https://ror.org/05gj5j117

## Funder(s)

## Funder type

Charity

#### **Funder Name**

Bill and Melinda Gates Foundation (USA) - PATH DSJI project

#### **Funder Name**

Bio-Manguinhos/Fiocruz (Brazil)

## **Results and Publications**

Individual participant data (IPD) sharing plan

## IPD sharing plan summary

Not provided at time of registration

## **Study outputs**

Output type	Details	Date created Date added Peer reviewed? Patient-facing?
6 10 001	results	04/02/2045 40/07/2040 V

Results article 01/03/2015 10/07/2019 Yes No

Participant information sheet 11/11/2025 No Yes