

# Comparison of quality of life and satisfaction in primary immunodeficient patients treated with subcutaneous injections of Gammanorm administered using a pump or a syringe for rapid manual administration

<b>Submission date</b> 02/09/2015	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
		<input type="checkbox"/> Protocol
<b>Registration date</b> 15/12/2015	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
<b>Last Edited</b> 28/06/2019	<b>Condition category</b> Haematological Disorders	<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

### Background and study aims

Primary immunodeficiency disorders (PID) are caused by an inherited defect in the immune system, which makes a person more susceptible to infection. There are more than 200 of these disorders, the symptoms of which can vary greatly, ranging from very mild or non-existent (asymptomatic) to severe and debilitating. Gamma globulins are proteins found in the blood plasma. There are different types of gamma globulins, but the most important are immunoglobulins, also known as antibodies. The immune system uses antibodies to recognize and fight infections. In many of the PID's, people do not have enough of these gamma globulins in their blood, and so are given injections of immunoglobulins to help strengthen their immune systems. When a patient receives this treatment, the injections are often done by the patient themselves at home. The injections can be given using a syringe or an automatic pump (which delivers the dose automatically over a period of time). This study aims to find out whether patients are happier using a syringe or an automatic pump method for receiving their injections.

### Who can participate?

Adults with primary immunodeficiency who have received injections of immunoglobulin at use using an automatic pump or syringe for at least one month.

### What does the study involve?

Participants are randomly assigned into two groups, each of which receives the treatments in a different order. Each patient is treated for three months with the first treatment option, and then treated for 3 months with the second treatment option (i.e. syringe and then pump, or pump and then syringe). Patients complete a questionnaire about how satisfied they are with each of the treatment options at the end of each three month treatment period.

What are the possible benefits and risks of participating?

Participants will benefit from learning a new technique for administering their immunoglobulin treatment at home, which could be preferable than their current technique. Risks of participating involve the minor risks associated with repeated blood tests, such as pain, bruising or infection.

Where is the study run from?

1. University Medical Center Freiburg (Germany)
2. Klinikum St. Georg (Germany)
3. University Hospital of Wales (UK)
4. Derriford Hospital (UK)
5. The Royal London Hospital (UK)
6. University Hospitals Birmingham (UK)
7. Padova Hospital (Italy)
8. John Radcliffe Hospital, Oxford (UK)
9. Royal Free London Hospital (UK)
10. Campbell Town Hospital (Australia)
11. Canberra Hospital (Australia)
12. Università di Roma "Sapienza", Policlinic Umberto I, Rome (Italy)

When is the study starting and how long is it expected to run for?

November 2014 to December 2017

Who is funding the study?

Octapharma (Austria)

Who is the main contact?

Tatiana Lavrova

tatiana.lavrova@octapharma.com

## Contact information

**Type(s)**

Scientific

**Contact name**

Dr Tatiana Lavrova

**Contact details**

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Austria

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## Additional identifiers

**ClinicalTrials.gov (NCT)**

NCT02503293

## Clinical Trials Information System (CTIS)

2014-003746-27

### Protocol serial number

GAN-06

## Study information

### Scientific Title

A randomised, cross-over study to compare quality of life and satisfaction in primary immunodeficient patients treated with subcutaneous injections of Gammanorm® 165 mg/mL administered with two different delivery devices: injections using pump or rapid push

### Acronym

GAN-06

### Study objectives

The administration of Gammanorm 165 mg/ml using a syringe is not inferior to the administration of Gammanorm 165 mg/ml using a pump regarding patient satisfaction.

### Ethics approval required

Old ethics approval format

### Ethics approval(s)

1. Central Ethics Committee, Albert Ludwig University(Germany), 09/02/2015, ref: 561/14(FF-MC)
2. Research Ethics Service, Wales (UK), 12/06/2015, ref: 15/WA/0047
3. Comitato Etico per la Sperimentazione Clinica della Provincia di Padova, 21/04/2016, ref: NRC AOP0707
4. ACT Health, Research Ethics and Governance Office, 21/06/2016, ref: ETH.6.16.113E
5. South Western Sydney Local Health District, 30/05/2016; ref: HREC/16/LPOOL/44
6. Ethics Committee University "Sapienza", 03/03/2017, ref: 4359

### Study design

A non-inferiority comparative interventional multi-centre prospective longitudinal randomised open-label cross-over study

### Primary study design

Interventional

### Study type(s)

Quality of life

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

Primary immunodeficiency

### Interventions

Participants are randomly allocated to one of two groups, who receive the two different treatments in a different order (pump then syringe or syringe then pump). Treatment will be administered subcutaneously at home by the patient.

Pump treatment: The usual dose is 0.6 mL (100 mg) of Gammanorm® 165 mg/mL per kg of body weight once a week, which can be administered at several infusion sites.

Syringe treatment: The usual dose is 0.6 mL (100 mg) of Gammanorm® 165 mg/mL per kg of body weight per week. The weekly dose could be divided into three injections administered every other day at a single infusion site.

Participants use the pump treatment and the syringe treatment for a total of three months, with no wash-out period in between.

## **Intervention Type**

Drug

## **Phase**

Phase III/IV

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

Gammanorm

## **Primary outcome(s)**

Patient satisfaction is measured using the life quality index (LQI) questionnaire at the end of each 3 month treatment period.

## **Key secondary outcome(s)**

1. Therapy-related problems and therapy setting is measured using LQI sub-scores at baseline, 3 months and 6 months
2. Patient satisfaction is measured using the Treatment Satisfaction Questionnaire for Medication (TSQM-11) at baseline, 3 months and 6 months
3. Patient preference is measured by patient answer at 6 months
4. Efficacy (clinical efficacy and residual levels of IgG) of Gammanorm® 165 mg/mL is measured by evaluation of IgE level at baseline, 3 months and 6 months
5. Systemic and local tolerability of Gammanorm® 165 mg/mL is measured by evaluation of the diary and AE Reporting during ongoing study
6. Burden of illness is measured using the PRISM test at at baseline, 3 months and 6 months
7. Burden of subcutaneous immunoglobulin treatment delivery device is measured using the PRISM test at at baseline, 3 months and 6 months
8. Costs measured by analyses of the patient diary at 6 months

## **Completion date**

11/12/2017

## **Eligibility**

### **Key inclusion criteria**

1. Adult patients ( $\geq 18$  years).
2. Presenting with primary immunodeficiency.
3. Having received subcutaneous injections of immunoglobulin at home using an automatic pump or syringe for at least 1 month at the time of inclusion.
4. For whom the investigator decides to maintain immunoglobulin replacement therapy with subcutaneous injections of Gammanorm® 165 mg/mL at home.
5. Women of childbearing potential must have a negative result on a pregnancy test (human

chorionic gonadotropine [HCG]-based assay) and need to practice contraception using a method of proven reliability for the duration of the study

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Sex**

All

**Total final enrolment**

30

**Key exclusion criteria**

Participating in another interventional clinical study and receiving investigational medicinal product within three months before study entry.

**Date of first enrolment**

25/06/2015

**Date of final enrolment**

14/07/2017

## **Locations**

**Countries of recruitment**

United Kingdom

England

Wales

Australia

Germany

Italy

**Study participating centre**

**University Medical Center Freiburg**  
Centre of Chronic Immunodeficiency

Breisacher Straße 117  
Freiburg  
Germany  
79106

**Study participating centre**

**Klinikum St. Georg**  
Delitzscher Street 141  
Leipzig  
Germany  
04129

**Study participating centre**

**University Hospital of Wales**  
Dept. of Biochemistry & Immunology  
Heath Park  
Cardiff  
United Kingdom  
CF14 4XW

**Study participating centre**

**Derriford Hospital**  
Department of Immunology and Allergy  
Eden Unit, level 7  
Derriford Road  
Plymouth  
United Kingdom  
PL6 8DH

**Study participating centre**

**The Royal London Hospital**  
Barts Health NHS Trust  
4th Floor Pathology & Pharmacy Building  
80 Newark Street  
London  
United Kingdom  
E1 2ES

**Study participating centre**

**University Hospitals Birmingham**  
Department of Immunology

Mindelsohn Way  
Edgbaston  
Birmingham  
United Kingdom  
B15 2GW

**Study participating centre**  
**Padova Hospital (Azienda Ospedaliera di Padova)**  
Dipartimento di Medicina (DIMED)  
Via N. Giustiniani, 2  
Padova  
Italy  
35128

**Study participating centre**  
**John Radcliff Hospital**  
Department of Clinical Immunology  
Oxford  
United Kingdom  
OX3 9DU

**Study participating centre**  
**Royal Free London Hospital**  
Department of Immunology  
London  
United Kingdom  
NW3 2QG

**Study participating centre**  
**Campell Town Hospital**  
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Therry Road  
Campell Town  
Australia  
NSW 2560

**Study participating centre**  
**Canberra Hospital**  
Yamba Dr.

Garran  
Australia  
ACT 2605

**Study participating centre**  
**Università di Roma "Sapienza"**  
Policlinic Umberto I  
Viale del Policlinico, 155  
Rome  
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00161

## Sponsor information

**Organisation**  
Octapharma Pharmazeutika Prod.Ges.m.b.H.

**ROR**  
<https://ror.org/022k50n33>

## Funder(s)

**Funder type**  
Industry

**Funder Name**  
Octapharma

## Results and Publications

**Individual participant data (IPD) sharing plan**

**IPD sharing plan summary**  
Not expected to be made available

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Basic results</a>		08/02/2019	08/02/2019	No	No
<a href="#">HRA research summary</a>			28/06/2023	No	No

