

Tender for Subcontracting

an online platform to store radiological images and their quantitative and qualitative analysis to study the efficacy and safety of a novel treatment (SPIOMET) for Polycystic Ovary Syndrome (PCOS) in adolescent girls and young women, in the activities of the Horizon 2020 EU Research and Innovation Programme (SPIOMET4HEALTH).

TENDER FOR SUBCONTRACTING an online platform to store radiological images and their quantitative and qualitative analysis to study the efficacy and safety of a novel treatment (SPIOMET) for Polycystic Ovary Syndrome (PCOS) in adolescent girls and young women, in the activities of the Horizon 2020 EU Research and Innovation Programme (SPIOMET4HEALTH).

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1. INTRODUCTION TO THE PROJECT

The requested services are part of the SPIOMET4HEALTH project, funded by the H2020 EU Research and Innovation Programme under the Grant Agreement No. 899671.

SPIOMET4HEALTH is a collaborative project led by the Fundació Sant Joan de Déu (FSJD), aiming to provide a novel treatment for adolescent girls and young adult women with PCOS. PCOS negatively affects the health and quality of life of approximately 110 million women around the world who suffer from this syndrome, as well as their offspring. This study is a pioneering opportunity to deal with the syndrome from its root, rather than merely relieving its symptoms.

The project was launched on April 2021, with duration of 60 months.

SPIOMET4HEALTH is committed to meeting the needs of adolescent girls and young adult women suffering PCOS thanks to the collaboration of 17 international partners, consortium in which seven tertiary hospitals from four European Member States and 2 associated countries are included.

SPIOMET4HEALTH propose a treatment combining three medications, which have already proven to be effective in the past, in a single tablet: SPIOMET. The use of this tablet together with lifestyle measures, could normalise ovulation and hormones, and thus revert the alterations associated to PCOS.

SPIOMET4HEALTH will also assess the efficacy of the tablet measuring secondary endpoints like cardiovascular risk, body composition, abdominal fat distribution and abdominal fat. All these radiological images will be centrally stored and analysed by FSJD and Hospital Sant Joan de Déu (HSJD).

2. SUBCONTRACTING SERVICE, DELIVERABLES, MILESTONES AND TASKS

2.1. SUBCONTRACTING SERVICE

Taking into consideration the importance of the secondary endpoints in the assessment of the efficacy of the tablet, it is necessary to subcontract an online platform to store all the radiological images produced during the clinical trial, but also to store/process such amount of images as FSJD doesn't have the necessary

equipment to perform itself the measures as planned. This platform should include quantitative and qualitative tools for advanced analysis of these images.

The services provided by the supplier subcontracted by FSJD linked to this tender will be those listed below and should be available for the 5-year duration of the project:

- Deployment of the platform in the HSJD digital environment.
- High performance and capacity storage server.
- The platform should allow manual cases upload.
- The platform should be able to store different DICOM images.
- The platform should be able to store BC (DXA) exams, abdominal fat distribution and hepatic fat MRI as well as cIMT (US).
- The software solution should be able to analyse liver MRI images as well as to provide liver fat concentration analyses based on these MRI images.
- Liver fat analyses should be compatible with 1.5 and 3T MRI devices.
- The platform should allow unlimited number of analysis and reports.
- As SPIOMET4HEALTH is a multi-centre project, the software should be multivendor MRI compatible.
- The provider should organize a kick off application training session for the imaging team involved in the task.
- In case of technical issues, remote assistance (<2 hours) and/or on-site assistance (<48 hours) must be provided.
- The supplier has to provide a dedicated server, for the duration of the contract.

2.2. DELIVERABLES, MILESTONES AND TASKS

There are specific deliverables, milestones and tasks to report, in collaboration with the other SPIOMET4HEALTH partners, regarding the execution of the services previously described. These are:

- Work Package 1:
 - Deliverable D1.5. Completion of data analysis and integration.
 - Milestone MS4. Primary and secondary endpoints results.
 - Task 1.4. Phase II Clinical Trial - Secondary Endpoints Assessment. Imaging studies will be centrally stored/read/analysed by a central reader based at FSJD.
 - Task 1.5. Statistical Analysis of Phase II Clinical Trial Data.

3. REQUIREMENTS FOR THE SUPPLIER

3.1. REQUIREMENTS ABOUT THE SUBCONTRACTOR

- The supplier should be a company leader in whole body medical imaging
- Have at least more than 5 years of expertise performing medical image processing.
- Used to working with interdisciplinary and international teams
- CE certification.
- Specific expertise in:
 - Artificial Intelligence algorithms and advanced computational models for medical image analysis
 - Cloud-based analysis tools

3.2. REQUIREMENTS REGARDING THE PROPOSAL OF SERVICE

Design the technical proposal to perform every task and subtask detailed in this tender. Including:

- Definition of technical requirements to ensure the correct integration and operation of the platform and analysis modules.
- Detailed planning of tasks to be performed for deployment, integration, testing and validation phases of the platform into the HSJD digital environment.
- Methodology to collect the information (quantitative and qualitative).
- Analysis of data and report of the outcomes.
- Definition of other relevant features.
- Calendar.
- Team.
- Budget: The maximum amount of money available to hire a subcontractor to perform all the activities detailed in this document is **90.000 euros**.

4. WORKING METHODOLOGY

The subcontractor selected will work under the coordination of FSJD, who is coordinating the SPIOMET4HEALTH project.

Periodic reports will be requested by the European Commission in order to monitor the development of the SPIOMET4HEALTH project. FSJD could request updates by the subcontractor about the status of the activities in order to follow up on its development and to contribute to the periodic reports.

5. BUDGET

Quality of the technical proposals submitted and the related budget will be considered in the assessment phase to choose the subcontractor.

6. SUBMISSION OF PROPOSALS AND EVALUATION

6.1. Deadline for the submission of the proposals:

The deadline to submit proposals is the **14th of January of 2022, at 12 pm CET**.

6.2. Documentation to be submitted:

6.2.1. Documentation about the supplier

- Curriculum with the expertise of the company to demonstrate expertise performing the tasks described in Section 3.1.
- Composition of the team.
- Resume of the staff involved in the activities.

6.2.2. Documentation about the project

- Technical proposal of tasks detailed in the section 3.2.
- Budget

6.3. Criteria of evaluation:

An interdisciplinary team of FSJD will assess the different proposals submitted. This will be formed by:

- Coordination team of the SPIOMET4HEALTH project
- Diagnostic Imaging Team from HSJD

The expertise and the proposal of activities will be evaluated separately:

- Technical proposal: 45 points maximum
- General proposal (expertise): 25 points maximum

The maximum score for every aspect will be:

SCORE	
1. Platform	Max 20 points
Able to connect to PACS system	4 points
DICOM viewer integrated	5 points
Able to modify segmentation and relaunch the analysis	3 points
Able to define specific ROIs	3 points
Include data miner repository to manage data	5 points
2. Processing Time	Max 20 Points
<15 minutes	10 points
Between 30 min and 2 hours	8 points
>2 hours	2 points
3. Support	Max 5 points
Remote answer < 30 minutes	3 points
On-site answer < 24 hours	2 points
4. General	Max 25
Curriculum of expertise of the subcontractor	5 points
Composition and expertise of the team	5 points
Technical proposal	10 points
Budget	5 points

Only the proposals which achieve at least 34 points (technical) + 19 points (general) will be considered as candidate to perform the activities of this contract. The best technical quality proposal with the fairest budget will be selected.

7. ADDITIONAL INFORMATION

For any additional information related to this tender and apply, the contact persons and email are:

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