

**DYNAMIC COLLABORATIVE AND LEARNING PATTERNS IN HIGH-STAKES MEDICAL TEAMS/  
(PATIENT)**

**Project number: PN-III-P1-1.1-PD-2019-1287**

**Contract number: 147 / 24.08.2020**

**SCIENTIFIC AND TECHNICAL REPORT FOR STAGE 1 – SEPTEMBER 2020 – DECEMBER 2020**

**1. SUMMARY OF PROJECT STAGE 1**

In emergency settings, saving time means saving lives. This project aims to uncover collaborative and learning patterns that ensure swift and efficient intervention by first responders and in-hospital care teams in high-stakes/emergency medical situations. These teams sometimes have fluid membership, where team members change depending upon a number of situational and task related characteristics. These structural changes in team membership have only just begun to be of interest for the international research community. This is coupled with the fact that data collection within the specific work context of such teams is quite difficult, in comparison with other work situations and contexts. Hence there is hardly any empirical evidence on what makes such teams work or what team, individual and organizational level characteristics impact team effectiveness.

The main purpose of this research is to advance knowledge on coordination and learning patterns in high-stakes medical teams. Therefore, by taking into account contextual and compositional specificities, this research project is going to employ a mixed methods design to:

- O1. Uncover dynamic coordination and learning patterns in high-stakes medical teams
- O2. Identify mechanisms that stand behind effective collaborative, coordination and learning patterns

In order to pursue these objectives, Stage 1 of the project is focused on the exploration of existing knowledge with regard to coordination, cooperation and learning in high-stakes medical teams.

Table 1. Summary of Stage 1 activities and their degree of accomplishment

Stage 1 - Objectives	Stage 1 – Activities	Stage 1 - Deliverables	Degree of accomplishment
Exploration of existing knowledge with regard to coordination, cooperation and learning in high-stakes medical teams.	<b>A 1.1</b> A systematic exploration of the literature with respect to high-stakes medical teams	Identify relevant journals/ publications for the research topics within the scope of this project	100% Accomplished for this project stage
		Identify recent published research on collaborative and learning patterns in high-stakes medical teams	100% Accomplished for this project stage
		Create a database with relevant research for this project	100% Accomplished for this project stage
	<b>A.1.2</b> Construction of the project website	Project website	100% Accomplished for this project stage
		Website update with relevant information	100% Accomplished for this project stage

## 2. STAGE 1 DELIVERABLES

This first Stage of the project, as indicated in Table 1, was based on two main activities, which I will succinctly discuss here:

### **A 1.1 A systematic exploration of the literature with respect to high-stakes medical teams**

In order to obtain an overview of the knowledge base with regard to high-stakes medical teams and the team level processes that are of interest for this project (coordination, collaboration and learning), a systematic search was conducted in the following databases: WOS Group, SAGE, PubMed, EBSCO, ScienceDirect.

The key terms used in the search to isolate the specific type of team this project has in its scope were: "action teams/ emergency intervention teams/ high-stakes medical teams". These key terms were paired with "dynamic processes/ collaborative processes/ coordination/ learning". All relevant studies identified were organized in an initial article database.

Using this database with relevant studies, the main conceptualizations used in the literature were clarified, as well as main results obtained and trends in what was studied and published so far. Aside from this, we were able to clarify the main research methods employed in the research on high-stakes medical teams, as well as future research directions recommended in the literature.

**Degree of accomplishment for activity A.1.1:** 100% accomplished

### **A.1.2 Construction of the project website:**

The website was built and updated with all the relevant information for this stage of the project.

**Degree of accomplishment for activity A.1.2:** 100% accomplished

The website can be accessed at the following link:

<http://woprc.ro/projects/dynamic-collaborative-and-learning-patterns-in-high-stakes-medical-teams/>

### 3. DISSEMINATION

Dissemination of project results is mainly done via the project website.

During this stage of the project, while unplanned, I did participate in two scientific events, where I had the opportunity to talk about and promote the project to fellow researchers.

1. 15th Annual Conference of the Interdisciplinary Network for Group Research Community (INGRoup 2020), Virtual Conference between 01.10.2020 – 29.10.2020
2. 7th Young Research Roundtable Global Risk - Local Resilience International Scientific Conference 13<sup>th</sup> -14<sup>th</sup> November 2020,  
Paper presented: Oțoiu, C. (2020). Walking in, we shouldn't walk alone: An I/O Psychology perspective on dealing with the global Pandemic

Date: 27.11.2020

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