



# ANALYSIS OF CURRENT RESEARCH IN WEAREABLES : TOWARD A MORE DIGITAL HEALTH

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## Background and importance

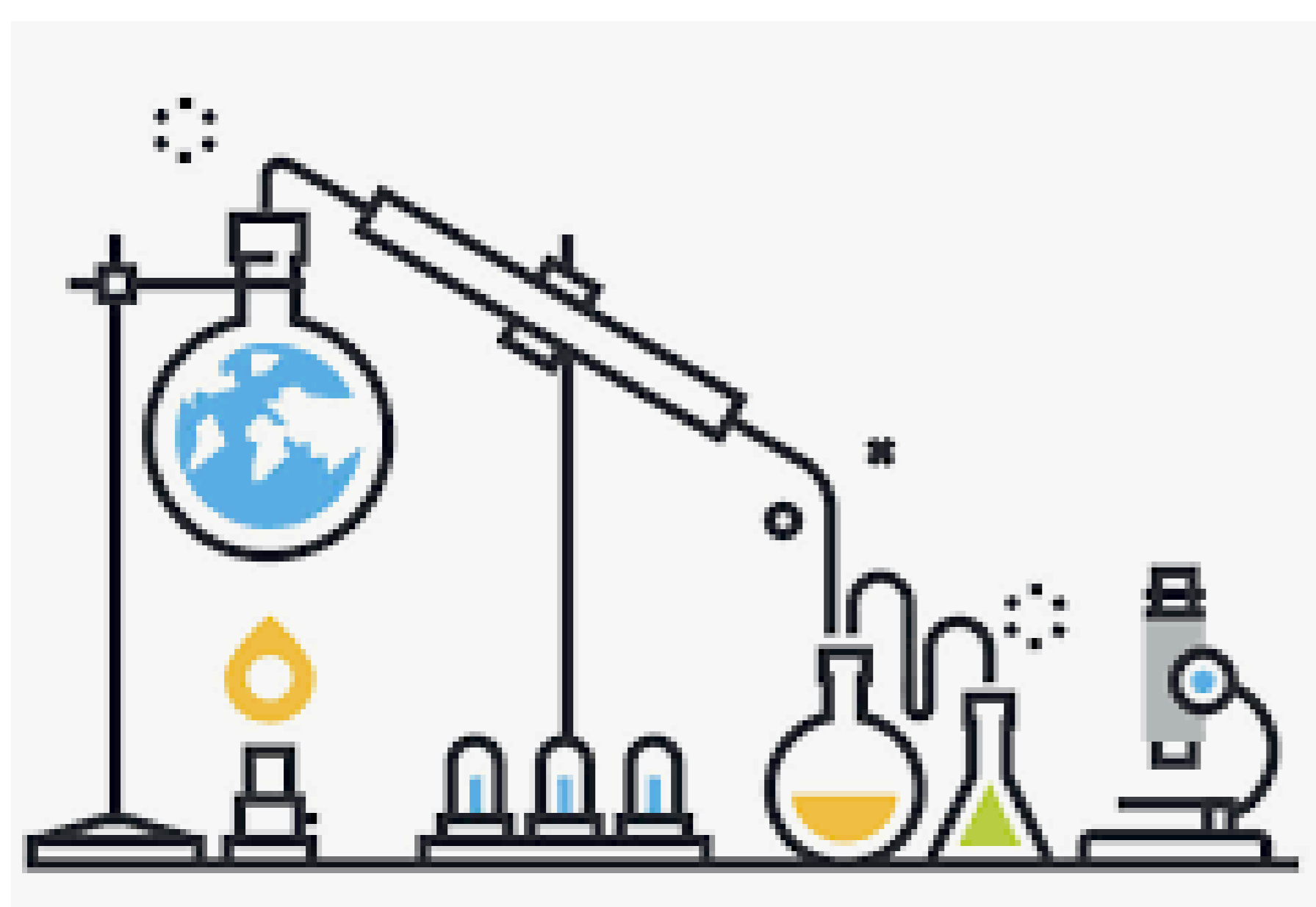
• Digital Health is the concept that incorporates information and communication technologies (ICT) to healthcare services. Nowadays and favored by the SARS-Cov2 pandemic, the healthcare society has been forced to adopt digital technologies and tools to improve patient care.

## Aim and Objectives

it was decided to analyze current clinical trials in relation to technological devices or wearables.



*ClinicalTrials.gov*



## MATERIALS AND METHODS

•Descriptive study of current clinical trials (CCT) on technological devices. The following filters were applied: active, all phases, all ages and both sexes. The type of device was analyzed as intervention, pathology, location and subject of the study. Both observational and intervention studies were included. The tool used to evaluate was the clinical trials registry: ClinicalTrials.gov

CLINICAL TRIAL PHASES	
PHASE 1	7 CT
PHASE 2	3 CT
PHASE 3	2 CT
PHASE 4	7 CT

## Results

19 CCTS were analyzed. The main pathologies of the clinical trials were: musculoskeletal disorders (6), chronic obstructive pulmonary disease (3), parkinson neurodegenerative diseases (3), oncology (2), autism (1), renal system (1), cardiac system (1) and self-injection devices (1).

countries	
United States	13 CT
Europe	4 CT
Asia	1 CT
Oceania	1 CT

## Conclusion and Relevance

•Although the use of wearables in the field of healthcare is a little known topic, it is becoming increasingly prominent in the literature and in scientific research. Digital health is the driving force for change towards new care models between patients and health professionals.

## References and/or acknowledgements

•Morcillo Serra C, González Romero JL. New digital healthcare technologies. Med Clin (Barc). 2020 Apr 10;154(7):257-259. English, Spanish. doi: 10.1016/j.medcli.2019.07.004. Epub 2019 Sep 2. PMID: 31488262.

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