UMR 1290 RESHAPE

RESEARCH ON HEALTHCARE PROFESSIONALS AND PERFORMANCE

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Journée Recherche HCL, 24/09/2021











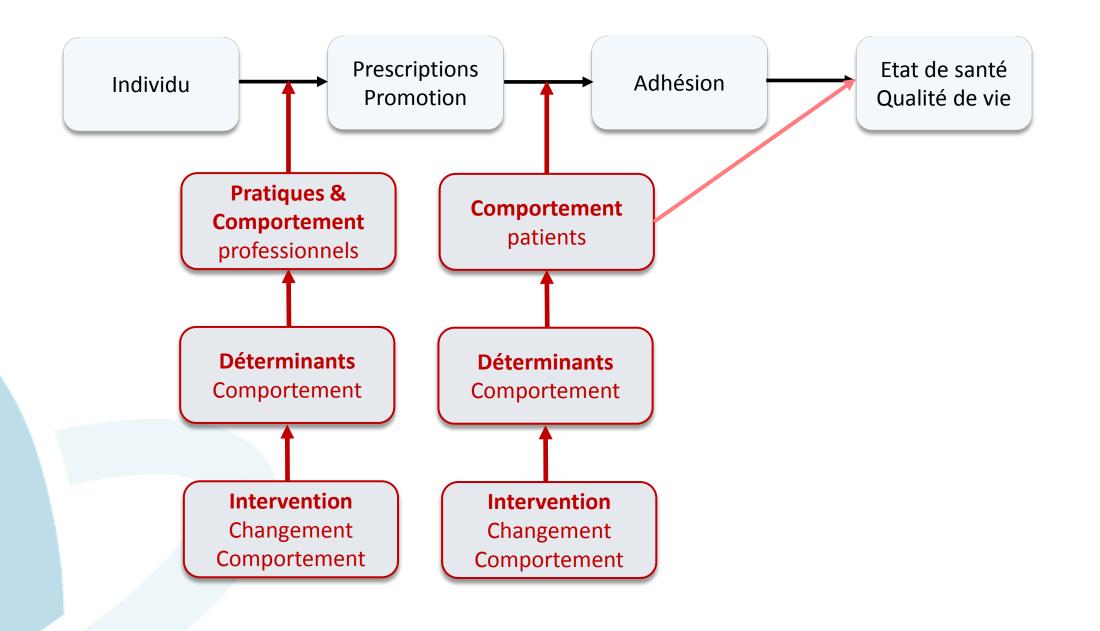
RESEARCH DOMAINS

















1. Reconnaître l'AVC

Comprendre les représentations des usagers

Evaluer l'éfficacité des campagnes d'informations

Développer des outils pédagogiques plus performants 2. Prendre en charge l'AIT pour éviter l'AVC

Améliorer l'efficacité de la prise en charge des AIT

ÉQUIPE HESPER : TRAVAUX SUR L'AVC

3. Prendre en charge l'AVC

Suivi d'une Cohorte de 700 patients victimes d'AVC

Suivi d'une Cohorte de 1000 patients victimes d'AVC en 2015-2016

Impact d'un programme de formation des professionnels des urgences

4. Reprendre une vie active après un AVC

Plateforme d'informations, de ressources et d'échanges

Patients-aidants-professionnels

Accompagner les AVC mineurs vers retour professionnel

Evaluer un dispositif de coordination de parcours par un « navigateur

Evaluation médico-économique

Prévention du risque vasculaire

Connaître les besoins des patients et de leurs aidants

aigue

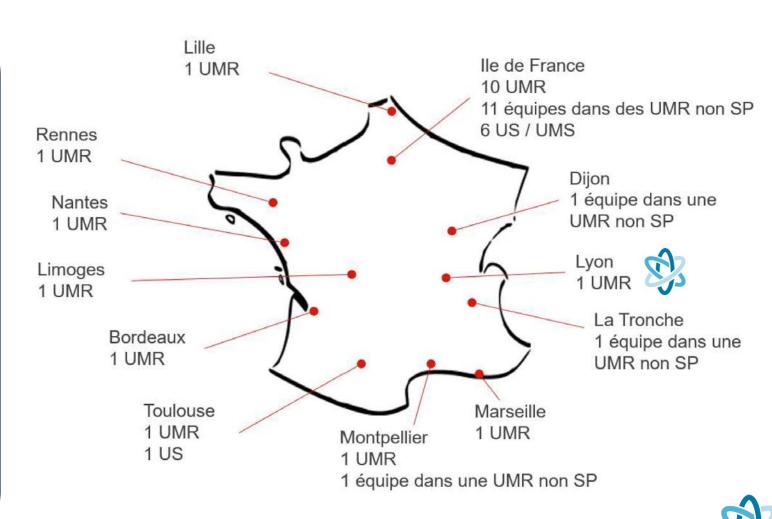






INSERM Public Health Units





RESHAPE

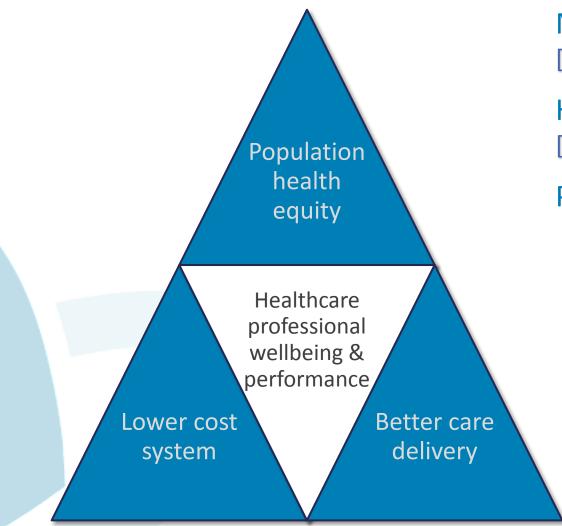
HEALTH SERVICES AND SYSTEMS RESEARCH

"Health services and systems research is a multidisciplinary field of scientific investigation that studies how social factors, financing systems, organizational structures and processes, health technologies, and personal behaviors affect access to health care, the quality and cost of health care, and ultimately, our health and well-being." [Lohr, Health Serv Res 2002]

"The main pursued goals are to identify the most effective ways to organize, manage, finance, and deliver high quality care; reduce medical errors; and improve patient safety" [Agency for Healthcare Research and Quality, 2002]

A key difference with traditional clinical research is that health services and systems research investigates care delivery and prevention actions in real world settings using both observational and experimental approaches based on mixed quantitative/qualitative methods.

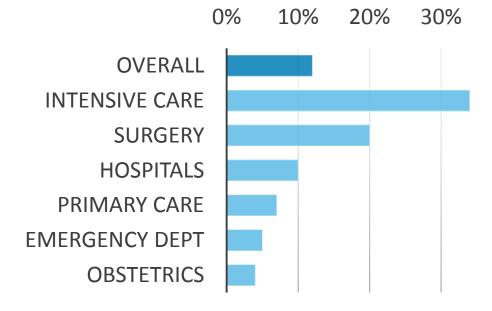
HEALTHCARE SYSTEMS QUADRUPLE AIM



Medical Error is the 3rd leading cause of death [Makary, BMJ 2016]

Half of adverse events are preventable [Panagioti, BMJ 2019]

Potentially wasting 1% of the total French GDP





MISSION STATEMENT

To improve care delivery and patient outcomes through the consideration of healthcare professionals (HCPs) as a core resource

IDENTIFYING THE KEY
DETERMINANTS RELATED TO
HCPS INTRINSIC/EXTRINSIC
PARAMETERS AND INTERACTION
WITH PATIENTS INFLUENCING
CARE DELIVERY

DEVELOPING PROGRAMS TO
IMPROVE HCPS WELLNESS AND
PERFORMANCE BASED ON
HUMAN AND ORGANIZATIONAL
FACTORS PREVIOUSLY
DISCOVERED

IMPLEMENTING AND
MEASURING THE IMPACT OF
PROGRAMS ON HCPS
WELLNESS, PERFORMANCE AND
PATIENT OUTCOMES IN REAL OR
SIMULATED ENVIRONMENT



Personal factors THEMATIC FIELDS Curricula Professionalism Wellness **Patient** Adhesion **Patient interactions HEALTHCARE** Partnership **PROFESSIONALS Empowerment** Literacy Care **Patient** Quality Safety "An emerging consensus exists that some aspects **Contextual factors** of physician training, working conditions, and Work organization Technologies adoption organisational support are unacceptable."

[Harvey, Lancet 2021]

RESHAPE

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Social ties

RESHAPE TEAM

70 Multidisciplinary Members

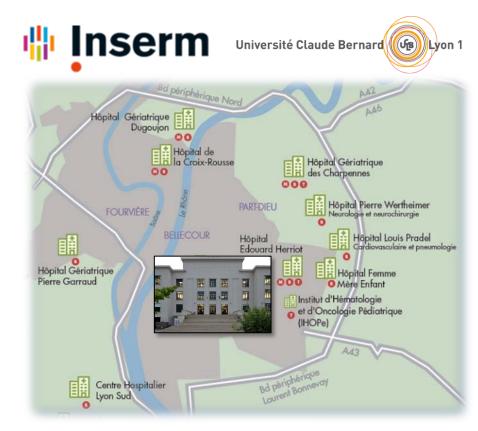
Emergency Intensive care Surgery **Anesthesia Obstetrics**

Public Health Epidemiology Data and Statistics Qualitative methods Simulated teaching Neuropsychology **Physiology**

Primary care Psychiatry Geriatrics Pharmacy

Oncology **Internal Med Cardiology** Neurology

Host Institutions





Partnerships



HEALTHCARE CONTEXTS

Technical care and acute diseases

Specialized care and complex diseases

Primary care and chronic diseases





METHODOLOGICAL APPROACHES

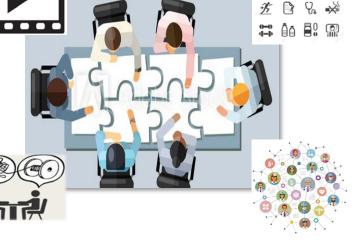




Living lab

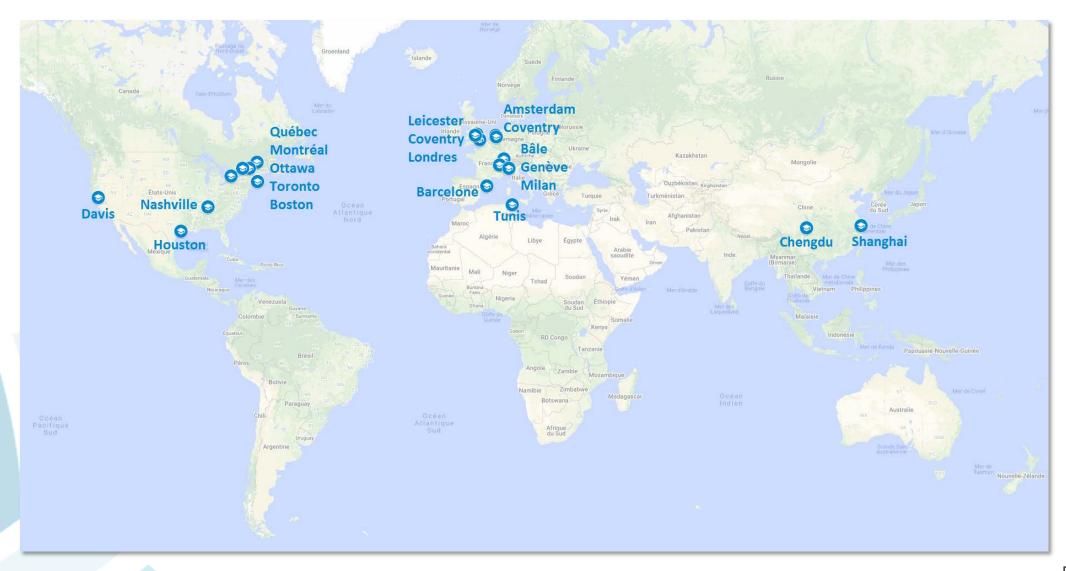








INTERNATIONAL NETWORK

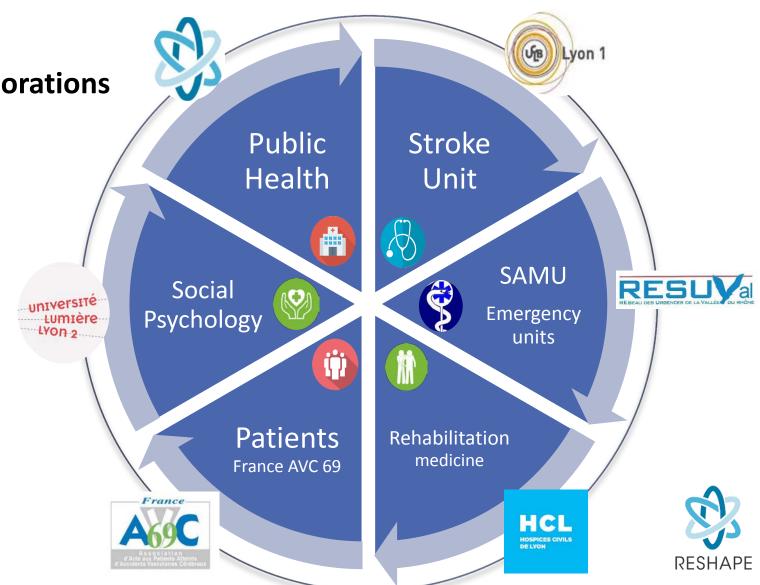




How to improve the stroke care pathway?

√ Strong interprofessional collaborations

- ✓ Patients included
- ✓ Methodological approach
 - Implementation sciences
 - Mixed methods
- ✓ Social psychology
 - Theoretical frameworks
 - Behavior change methods



RESHAPE STROKE RESEARCH PROGRAM

PRE-HOSPITAL ACUTE PHASE

IN-HOSPITAL ACUTE PHASE

CHRONIC PHASE

AVC69

QUALI-AVC ReACT Stroke69

AVC2 trial

Obstacle

Tybra

Navistroke

Observational studies
Quasi-experimental studies

Randomized stepped wedge trial

Mixed methods studies















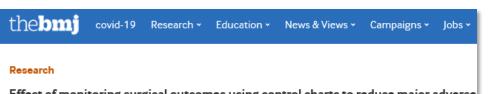






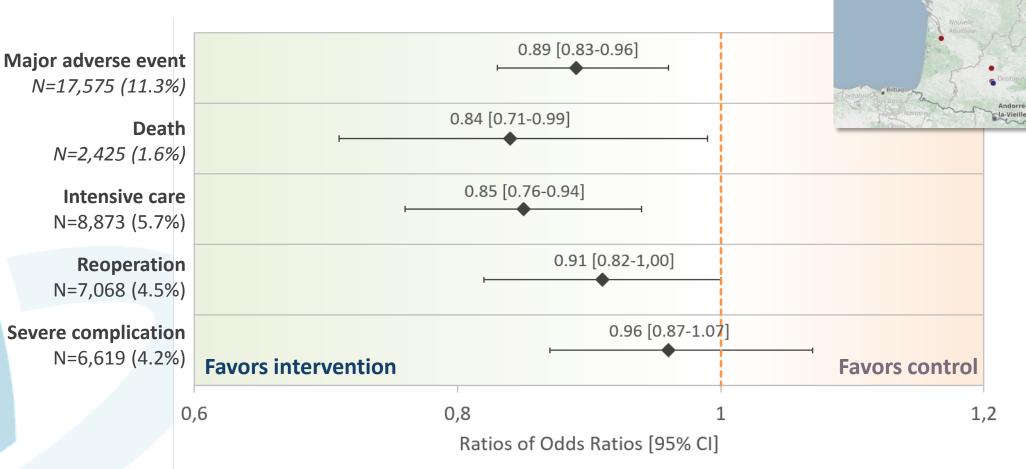






Effect of monitoring surgical outcomes using control charts to reduce major adverse events in patients: cluster randomised trial

BMJ 2020; 371 doi: https://doi.org/10.1136/bmj.m3840 (Published 04 November 2020) Cite this as: BMJ 2020;371:m3840











 INTERVENTION GROUP CONTROL GROUP



France









Understanding the Influence of Human and Organizational Factors on Surgeon Performance to Enhance Patient Outcomes



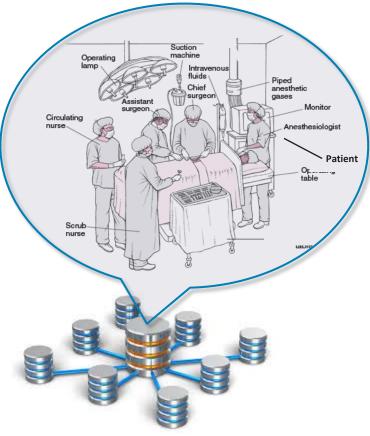
SURGEON

Connected sensors

Physiological parameters, daily activity

Self-administered questionnaires

Characteristics, habits, wellness



Hospitals data warehouse

Patient, surgical procedure and outcomes
Operating room team and organisation
Surgeon's agenda and workload



SLEEP DEPRIVATION AND PERFORMANCE

To evaluate the effect of sleep deprivation on healthcare professionals' performance and well-being

To implement and evaluate human performance optimization interventions In simulated and real environment. PHYSIOLOGICAL RECORDING Empatica E4® HexoSkin® RESHAPE U1290 – HCL journée recherche, 2021 09 24

AdhereR

Adherence assessment

> Care planning

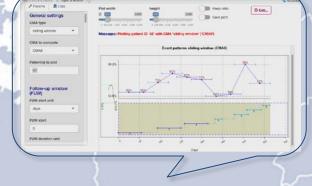
Developing clinical support tools

methodological

Observation

Intervention

Improving big data research methods





Adherence support

Training HCPs & researchers

Continuous

development

Data analysis







IMPULSE PROJECT



EPI-PHARE

177 Tweets





EPI-PHARE @EPIPHARE · 14 sept.

@EPIPHARE publie les résultats de l'appel à candidatures Équipe d'avenir en pharmaco-épidémiologie

financement de la jeune équipe IMPULSE portée par le Dr Marie Viprey au sein de l'unité REHSAPE U1290 sous la tutelle @Inserm et @UnivLyon1



Appel à candidatures Équipe d'avenir - Résultats - EPI-PHARE
Résultats de l'Appel à candidatures pour le financement d'une Équipe
d'avenir en pharmaco-épidémiologie - EPI-PHARE
Sepi-phare.fr

