

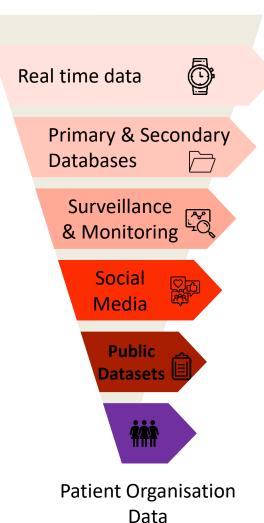
From Data to Health

How social networks exchanges can bring us new medical insights

Kap • Code

A new world disrupted by data





New types of data, among many others

Data collected through digital health technologies, including apps and wearables.

For example: Hospital Episode Statistics, Prescription data, etc.

For example, Drug Safety Monitoring Data

Data representing patients and service users views and experiences, captured online

Public Health and Social Care authorities datasets

Data collected by patient organization

Context Detec't

33% of the French population share their personal healthcare information online **

51% of the Americans share their personal healthcare information online*



with this huge amount of data in the **healthcare industry**?



^{*}ww.prweb.com/releases/binary_fountain_unveils_results_of_second_annual_healthcare_consumer_insight_digital_engagement_survey/prweb15786394.htm

^{*} Sondage 2018 Odoxa pour healthcare data institute

Social Media Data as a powerful patient-centric tool

Conversations on social media provide insights on how pharma companies can understand:

- Patient sentiments and what patients genuinely think about their treatments.
- Caregivers struggles and pain points with their role
- HCP perception on their drugs and patients management
- Institutions, Government & Healthcare Authorities perception of pharma companies initiatives
- Public opinion surveying (direct & indirect)
- Etc.





Social media can't be ignored!

It can influence treatment decisions, and make or brake the reputation of pharma companies

Detec't – Best in classs AI for Healthcare



KAP CODE mobilizes its technology in social media listening & goes further by developing algorithms and dashboards dedicated to medical needs thanks to its Detec't solution



30 scientific articles published

More than 14 clients already

Partners varied from institutions, pharmaceutical companies, research labs, etc.

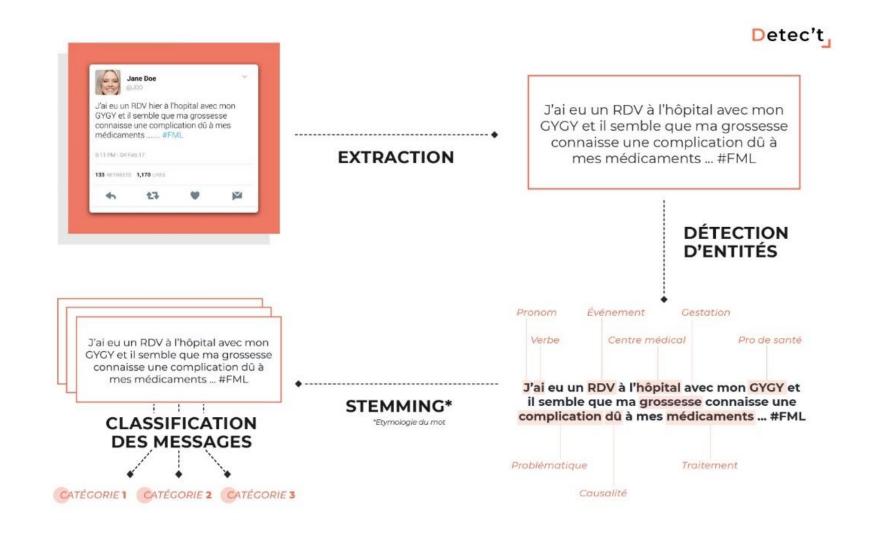
Detec't – More than 15 validated algorithms

- Evaluate the patients' OPINION ABOUT YOUR MEDICINES
- · **Observe** the patients' **BEHAVIOR** regarding their choice or the change of their treatments
- · Identify criteria of ACCEPTABILITY OR OF BARRIERS to treatment
- Measure the BENEFITS EXPERIENCED with specific drugs related to a disease
- · Analyze the IMPACT of the disease on the patients' QUALITY OF LIFE
- · Study EXPERIENCES PATIENTS made with the pathology of your choice
- Monitor patients' CARE PATHWAYS
- Identify PAIN POINTS & UNMET NEEDS

. . . .

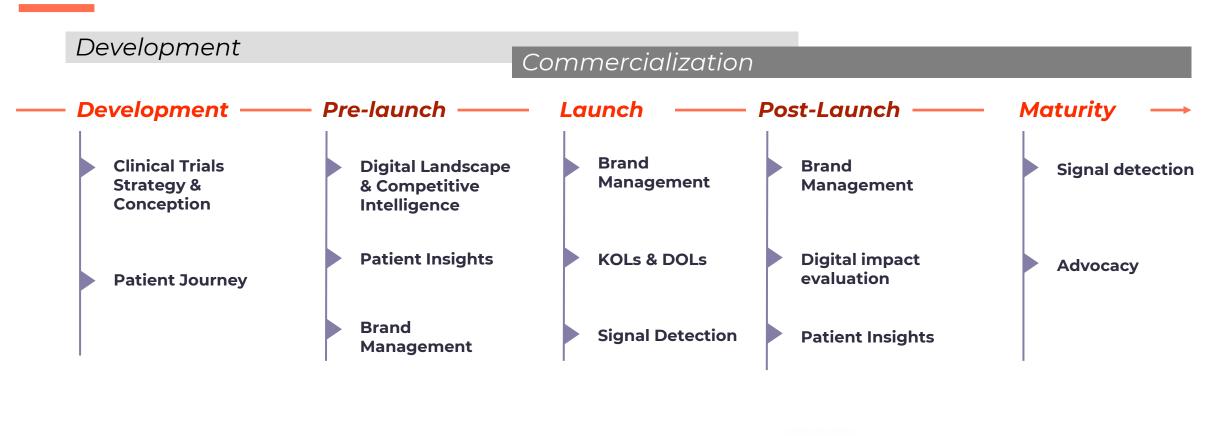


Detec't methodology



Detec't is an automated social network analysis based on methods of artificial intelligence and text mining

Detec't is tailored to the full product life cycle









Detec't is a cross-functional solution



Market Research & Sales



Communication & Public Affairs



Medical



Market Access/ HEOR



Pharmacovigilance



Our use cases

Detec't is a cross-functional solution









Market Research & Sales

Communication & Public Affairs

Medical

Market Access/ **HEOR**

Pharmacovigilance

IV at Home

Analyzed difficulties and pain points from patient experiences to identify the best patient centric IV device for home-use

HCP insights for sales Identified patients and HCP difficulties in cardiology at a regional scale

Covid-19 Lockdown Perception

Analyzed French citizens perception of covid-19 lockdown and governmental preventive measures in the aim of adapting strategy

Antibiotics Knowledge

Analyzed French citizens knowledge on antibiotic resistance in the aim of preparing adapted medical communications

Quality of Life

Measured patients' OoL (Quality of Life) when taking immunotherapies, comparing social media data and PRO data (publication available)

Drug Packaging

Identifid if a new drug packaging and label impacted the drug usage and overdose. Infodemiology publication on drug usage





USE CASE_IV at Home

Study Objectives

Better undestand needs and opportunities for use of IV treatments at home Study IV at home solutions already on the market

Jentify eligible patient profile for IV administration



Patient Journey for IV at Home

QoL & HEOR

Hospital versus at home

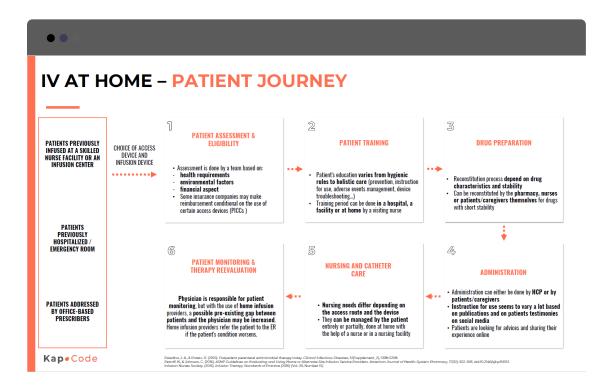
Patients experience and pain

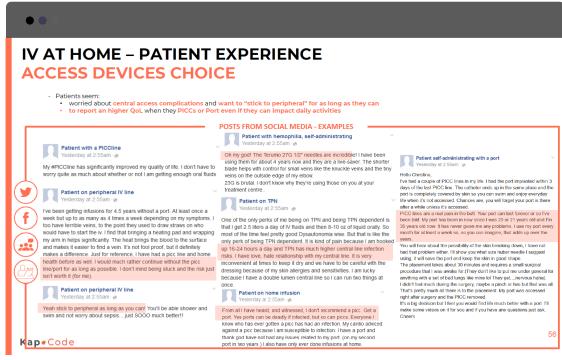
Caregivers & HCPs perspective

Unmet Needs



USE CASE_IV at Home



















USE CASE_HCP & Patients Insights for Sales

Study Objectives

Collect insights on all main topics discussed

ldentify unmet needs & difficulties expressed by patients Extract insights with a focus on HCPs



Unmet Needs by cardiology disease

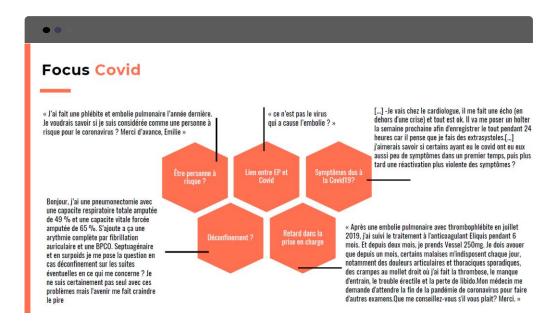
Patient consultation journey

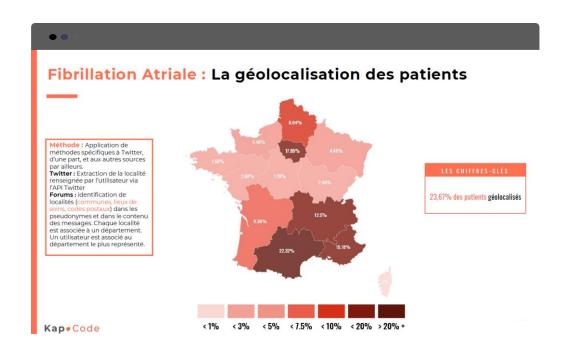
Difficulties expressed by patients

HCP concerns



USE CASE_ HCP & Patients Insights for Sales





A Atrial Fibrillation

- **B** Heart Failure
- **Deep Vein Thrombosis**
- D HCPs





USE CASE_Covid-19 Lockdown Perception

Study Objectives

- Identify
 perceptions,
 medical concepts
 and main topics
 discussed
- Collect insights on lifestyle before the end of lockdown, and user needs for a new lifestyle post-lockdown
- Measure the lockdown impact on mental health
- Acceptability
 evaluation of
 tracking
 application and
 public health
 initiatives



Lockdown health impact measurement

User lifestyle needs at lockdown end

User reaction to public health initiatives

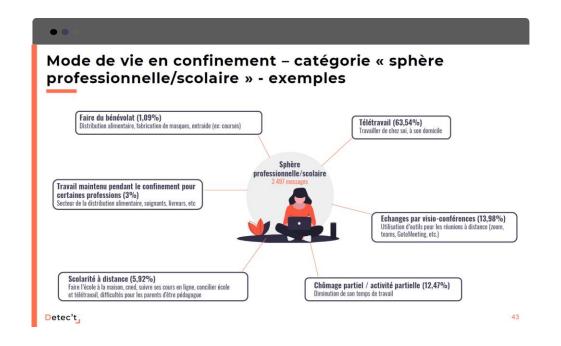
Key perceptions & medical concepts

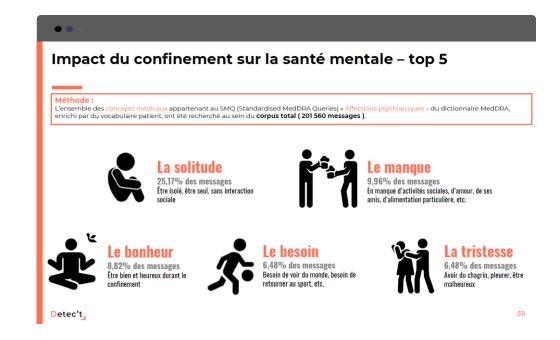
Main discussion topics during lockdown

User lifestyle before lockdown end



USE CASE_Covid-19 Lockdown Perception



















USE CASE_Antibiotics Knowledge

Study Objectives

- Identify key
 treatments,
 medical concepts,
 and main topics
 discussed
- Identify online user typology, discussing antibiotic resistance on social media, & their level of knowledge
- Jidentify concerns and information research expressed for antibiotic resistance
- Identify the difficulties encountered and discussed



Online user typology

Main topics discussed around antibiotic resistance

Messages evolution in time

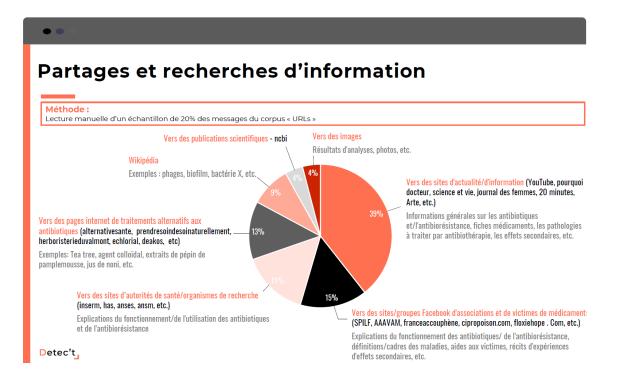
Key medical concepts expressed

Key treatments mentioned

Key online locations of discussions on antibiotic resistance



USE CASE_Antibiotics Knowledge



















USE CASE_Quality of Life (QoL)

Study Objectives

Identification of needs expressed by patients

Identification of QoL concerns in patient messages by dimension

Classify patients by cancer, demographic and QoL typologies



Patient characterization

Main Topics discussed by patients taking immunology

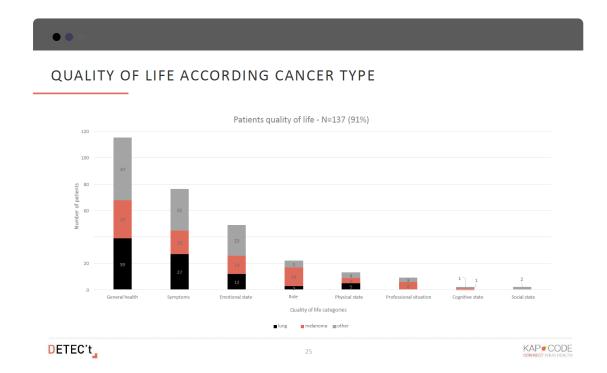
QoL dimensions study on messages

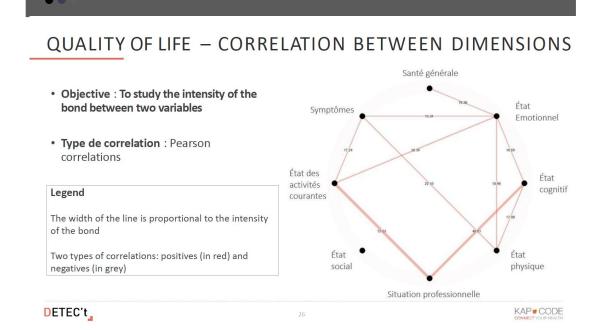
Message perception study

Segmentation by cancer and QoL dimensions



USE CASE_Quality of Life (QoL)









Patient perception by QoL category





USE CASE_Drug Packaging

Infodemiology
monitoring on
social media for
paracetamol
containing
products

Study Objectives

Brands monitoring for products containing paracetamol

Early signal detection study for identification of adverse events



Main topics & correlations

Topics evolution over time

Pharmacodependance study

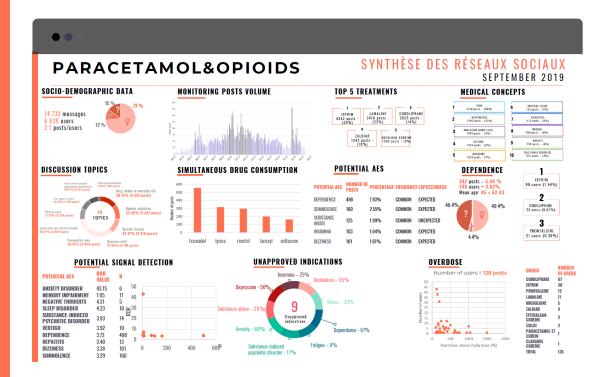
Overdose insights

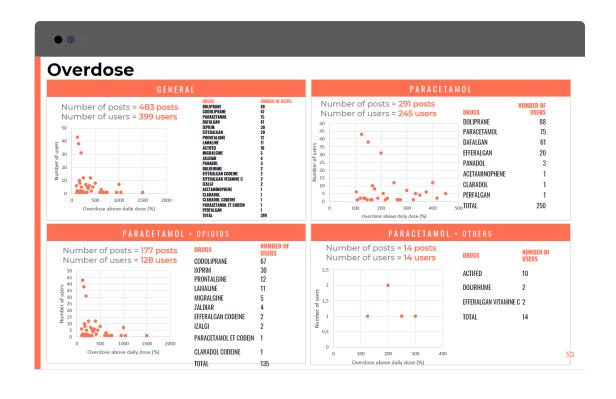
Off-label use detection

Signal detection for adverse events



USE CASE_Drug Packaging













Signal detection for paracetamol containing products





Messages to take away

A differentiating team



DEDICATED TO HEALTHCARE

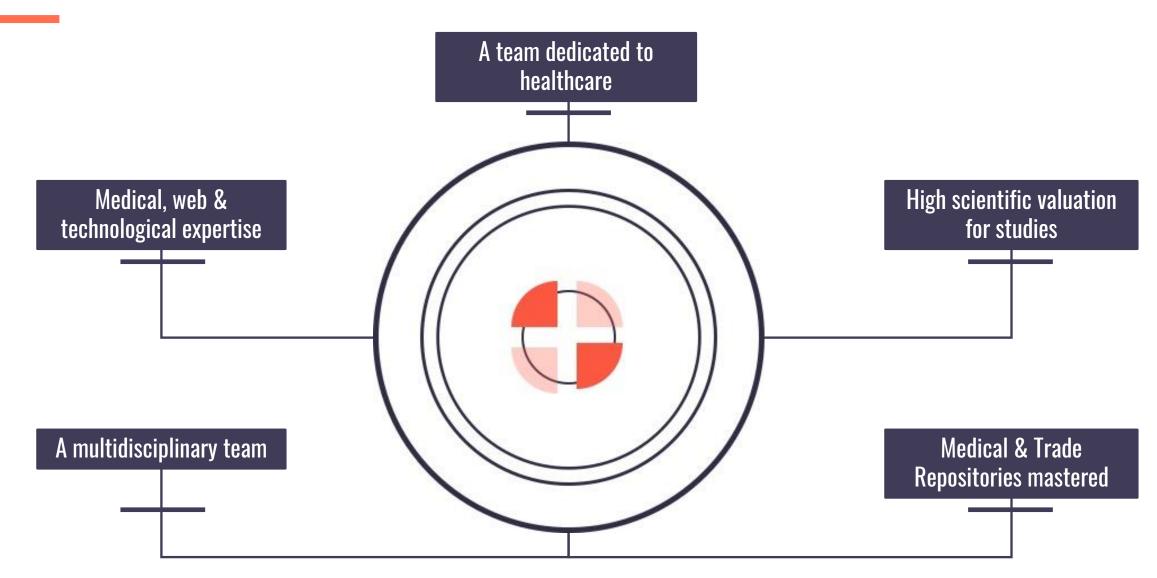
MORE THAN 15 YEARS OF SCIENTIFC EXPERTISE



A MULTIDISCIPLINARY TEAM WITH A MEDICAL EXPERTISE

KAP CODE goes further than classical social media listening solutions by developing algorithms & dashboard dedicated to medical needs thanks to its Detec't solution.

Kap Code – Objectives and specificities





An ecosystem of partners



Quantitative RWD



Actionnable recommendations



Epidemiological monitoring





Data science experts on other sources

BearingPoint®

Strategy Partner



Mobile & UX Design Development



Legal Partner

They trust us















































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