

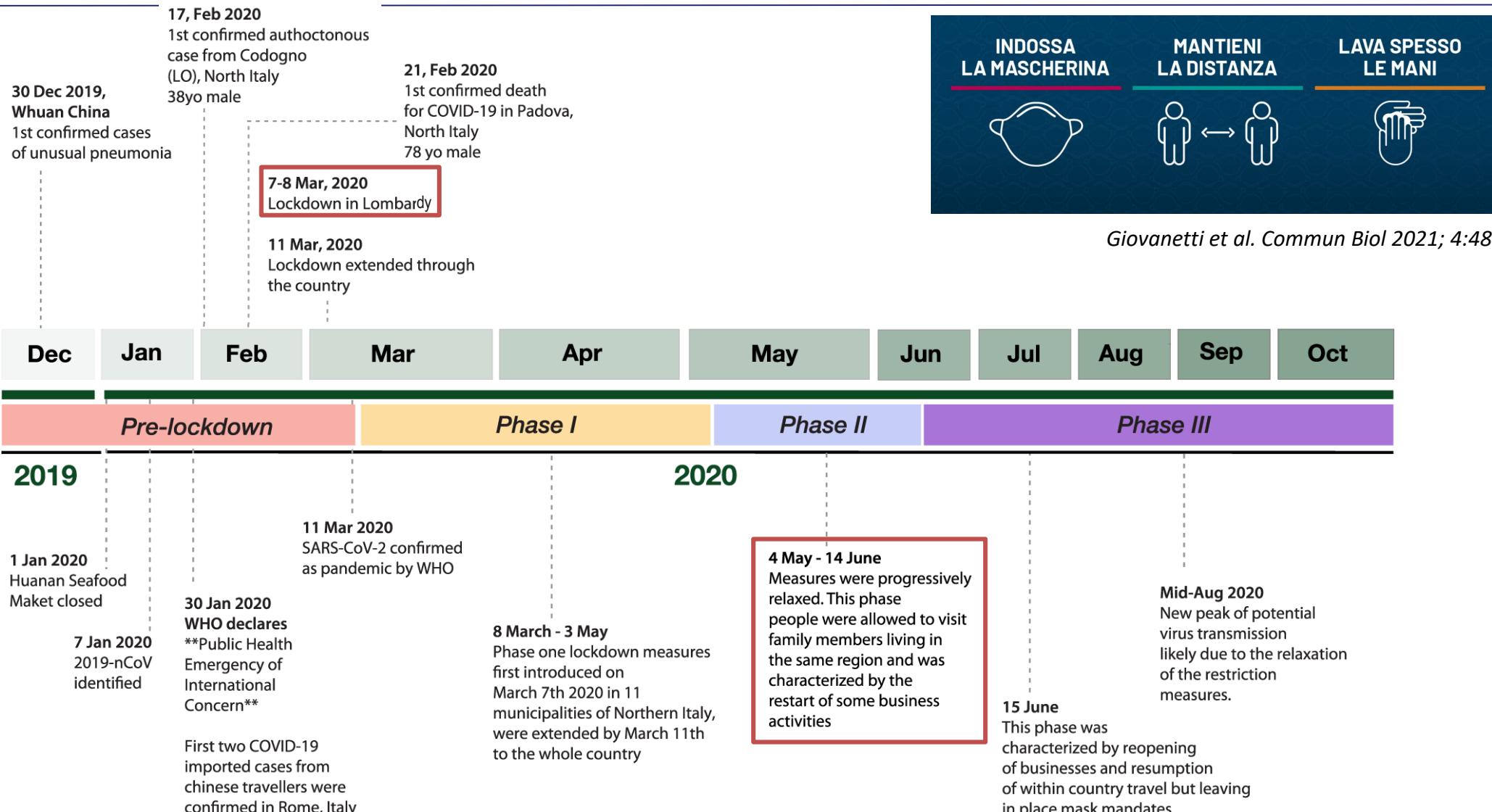
La pandemia da SARS COV2 ha influenzato i profili di consumo delle terapie croniche nell'area cardiovascolare? Modello analitico di uno studio multiregionale

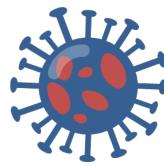
Manuela Casula





BACKGROUND





BACKGROUND

The severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) and resultant **COVID-19 pandemic** has brought major challenges to healthcare systems and public health policies

Among others, **reduced access** to non-emergent and elective care may have resulted in increased risk of discontinuation of chronic disease management

DON'T PUT OFF NECESSARY MEDICAL APPOINTMENTS

LIFE HAS TO CONTINUE EVEN WHERE COVID-19 IS SPREADING.

HERE'S HOW TO STAY SAFE.

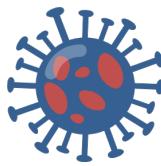
REDUCE YOUR RISK

Call to check if a phone or telemedicine consultation is possible and appropriate. If not, schedule your appointment in advance.

BEFORE YOU GO OUT

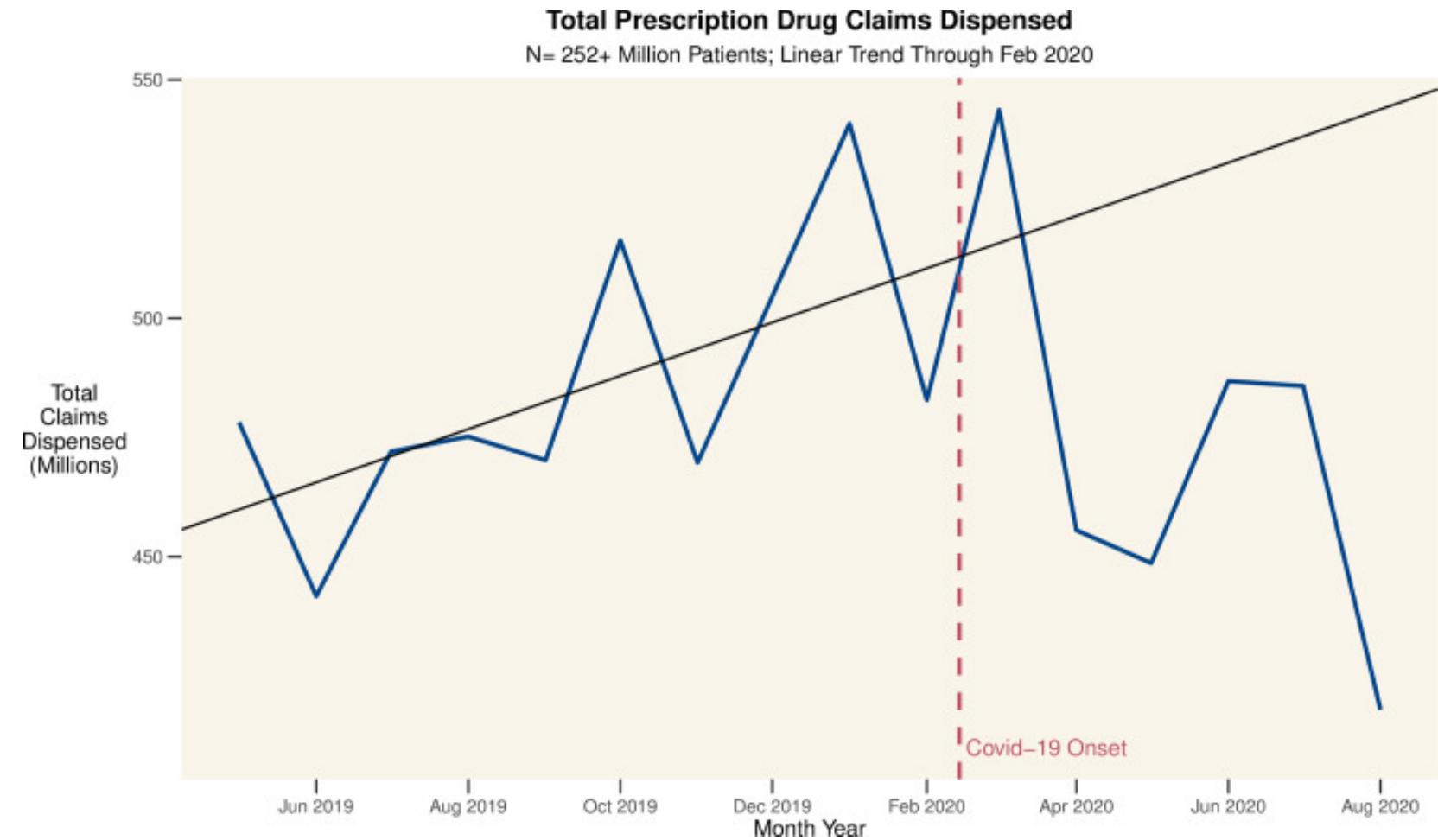
- Always check on local regulations.
- Bring sanitizer and wear your mask.
- If you are in a high-risk group, wear a medical mask.





BACKGROUND

A culmination of stay-at-home orders, social distancing requirements, financial pressures, school closures, and increased personal stress raise the possibility of **refilling medication** becoming a lower priority, or an impossibility, due to these unprecedented roadblocks



Clement J, et al. PLoS One. 2021 Apr 1;16(4):e0249453



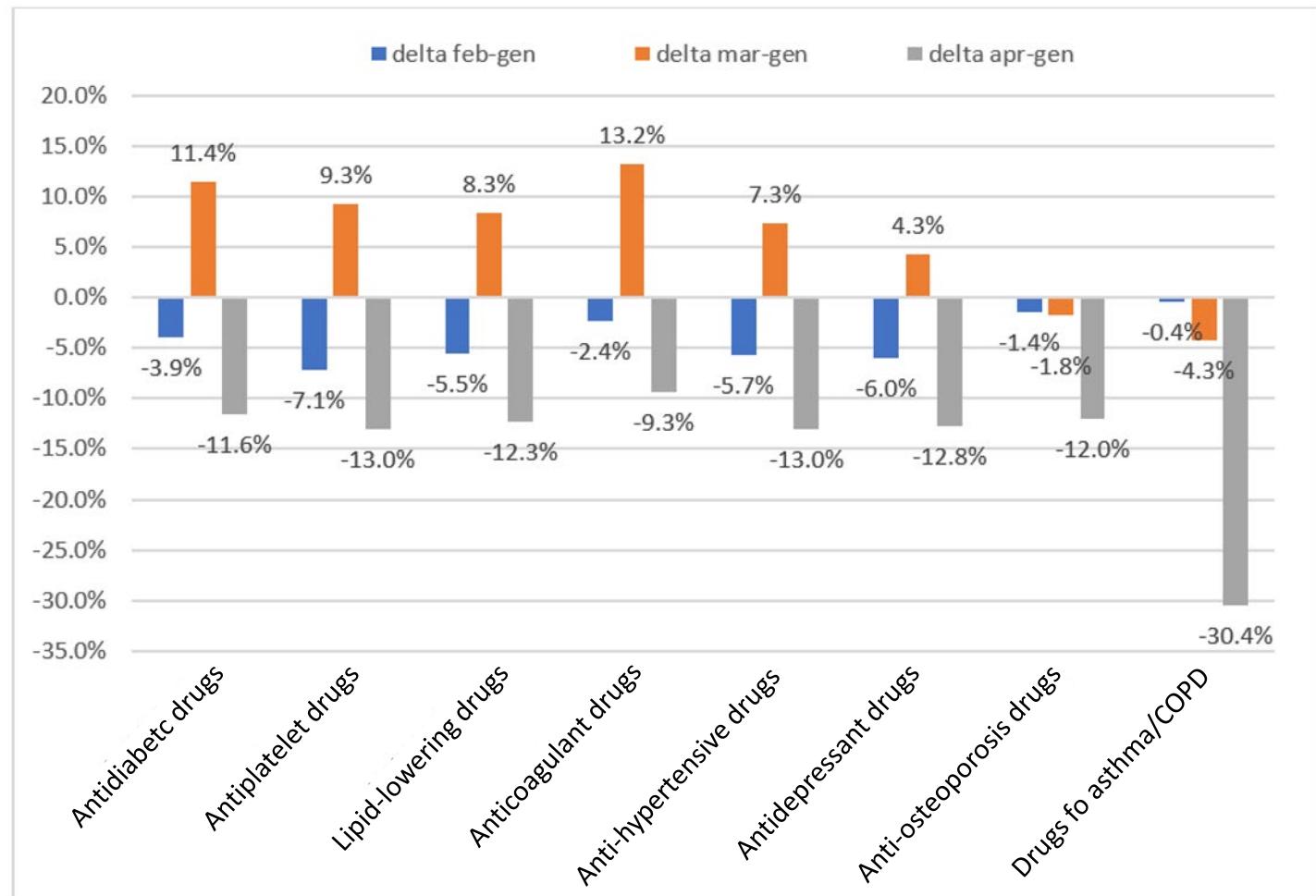
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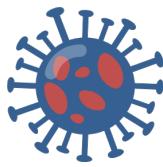


BACKGROUND

A culmination of stay-at-home orders, social distancing requirements, financial pressures, school closures, and increased personal stress raise the possibility of **refilling medication** becoming a lower priority, or an impossibility, due to these unprecedented roadblocks

Per capita consumption per 10,000 inhabitants, difference in each month (February, March and April 2020) compared to January 2020
AIFA Osmed Report





IMPACT OF THE COVID-19 PANDEMIC ON DRUG USE AND HEALTHCARE SERVICES ACCESS IN CHRONIC PATIENTS

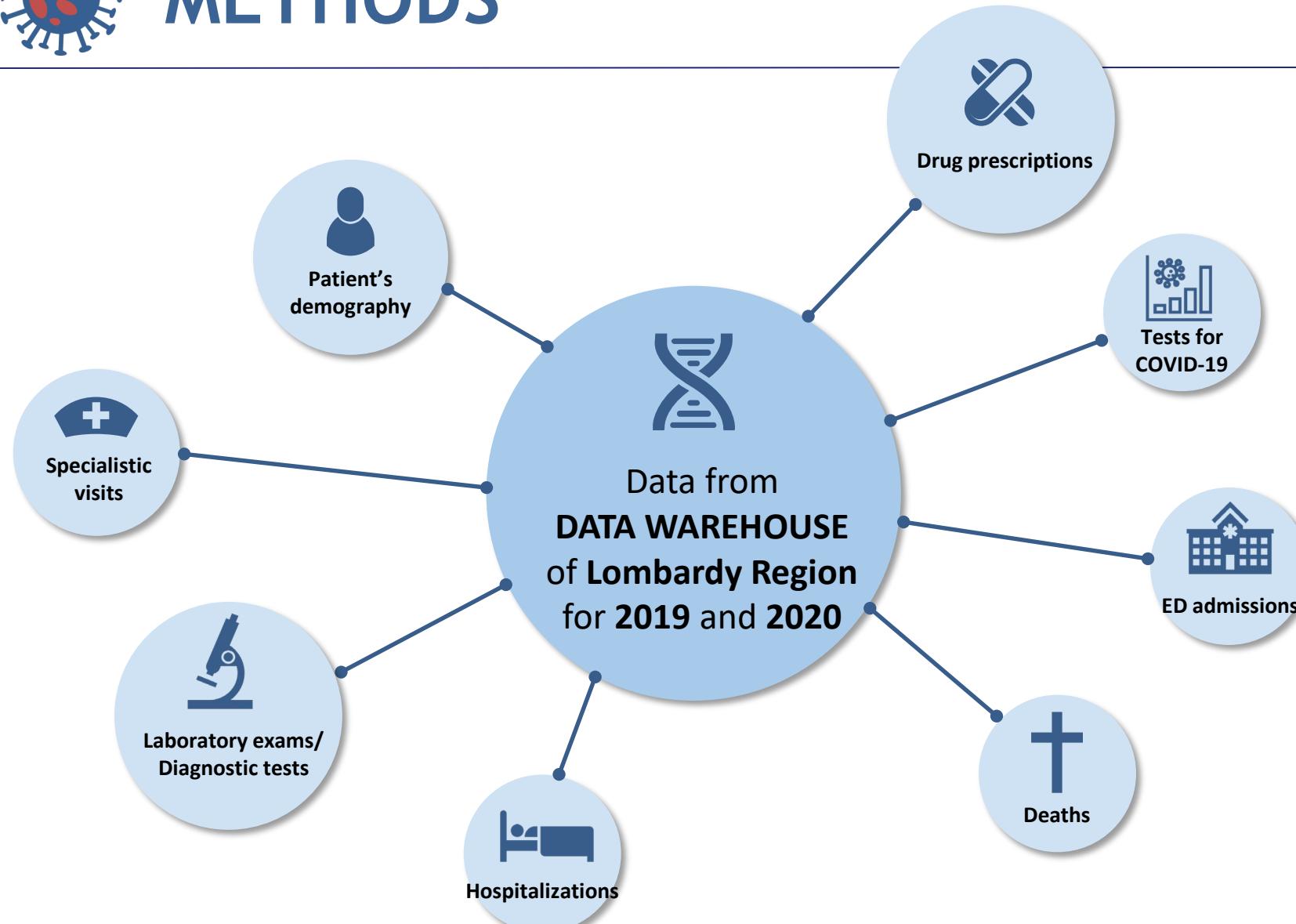


Primary aim

to analyse the variation in drug consumption and/or use of healthcare services by chronically treated patients during the pandemic period

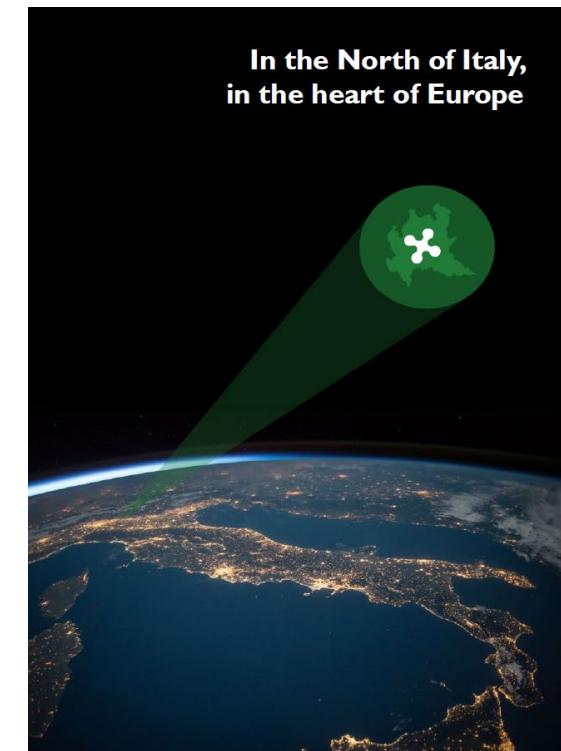


METHODS

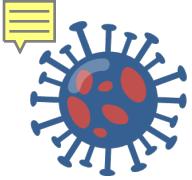


Accesso al Patrimonio informativo regionale tramite Daas 2.0

Emergenza Covid-19



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METHODS



COHORTS SELECTION

Pharmaceutical prescriptions will be used to identify cohorts of patients on chronic treatment



≥65 ys

- Anticoagulant treatment
- Treatment for prostatic hypertrophy



≥40 ys

- Lipid-lowering treatment
- Antihypertensive treatment
- Antidiabetic treatment
- Anti-osteoporosis treatment
- Treatment for chronic respiratory diseases
- Treatment for depression/psychosis



≥18 ys

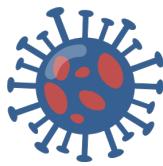
- Treatment for autoimmune diseases
- Treatment for hypothyroidism
- Treatment for hyperthyroidism



<18 ys

- Treatment for dysmetabolic syndromes
- Treatment for neurological syndromes
- Treatment for psychiatric syndromes
- Treatment of inflammatory bowel disease syndromes





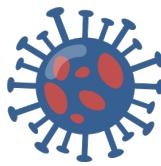
METHODS



PERIOD OF OBSERVATION

For the evaluation of outcomes, data on **pharmaceuticals** will be analyzed:





METHODS



OUTCOMES DEFINITION

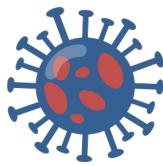
For the evaluation of outcomes, data on **pharmaceuticals** will be analyzed:

At REGIONAL level



DISPENSED DRUGS FOR THE PHARMACOLOGICAL MANAGEMENT OF THE CHRONIC DISEASES





RESULTS

Fonte DWH Regionale Regione Lombardia

N. packages/1000 patients

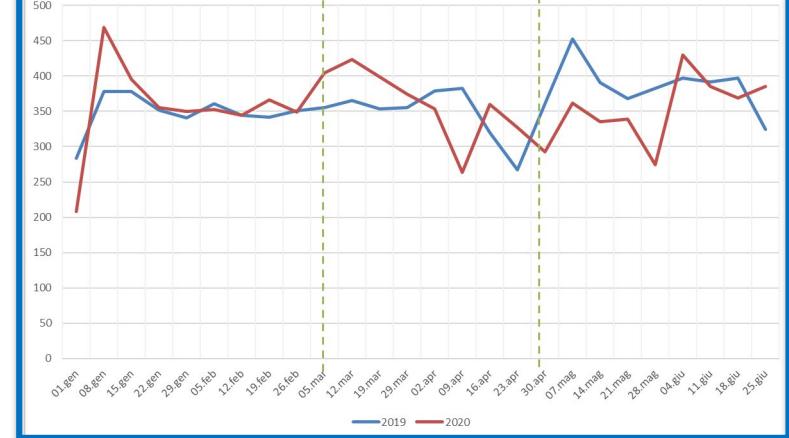
Treatment for chronic respiratory diseases



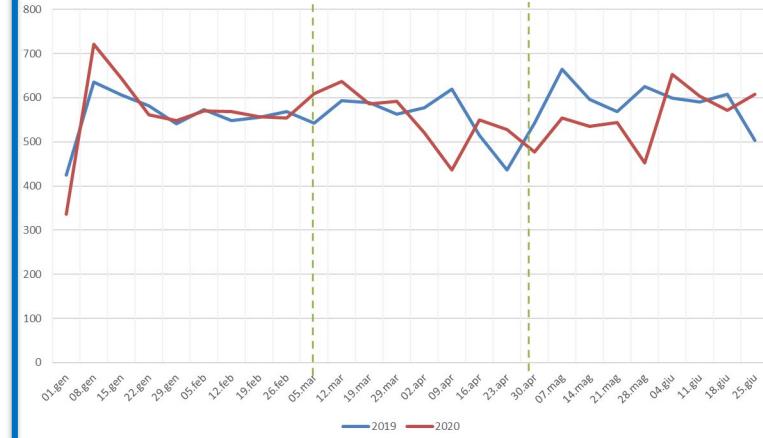
Treatment for hypothyroidism



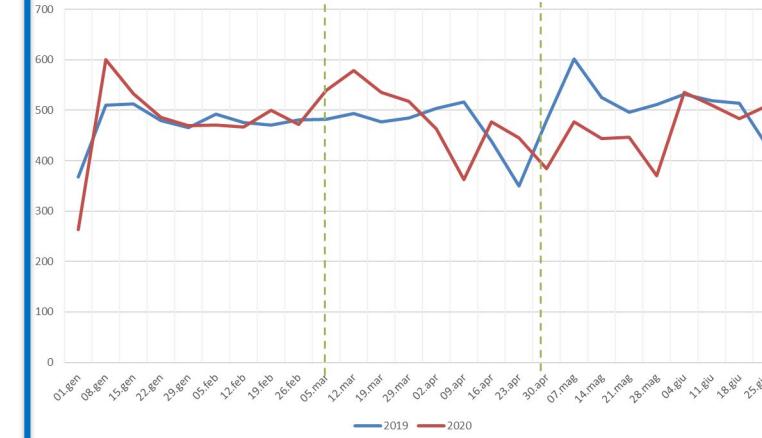
Treatment for prostatic hypertrophy



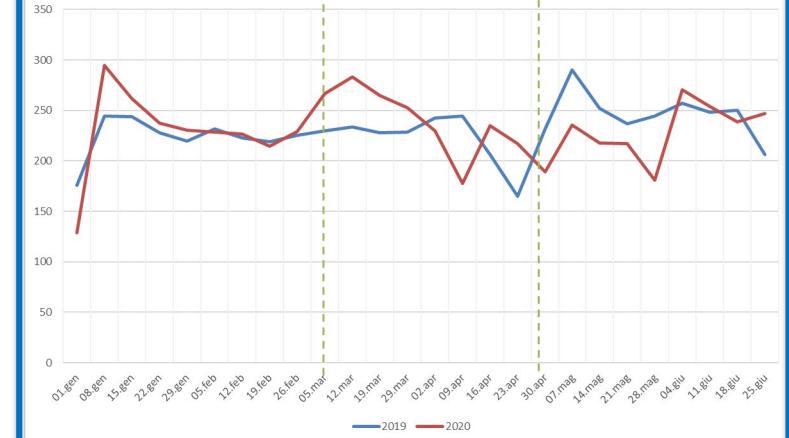
Treatment for depression/psychosis

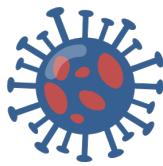


Antihypertensive treatment



Lipid-lowering treatment



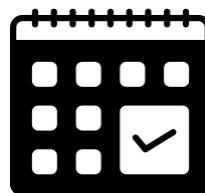


METHODS



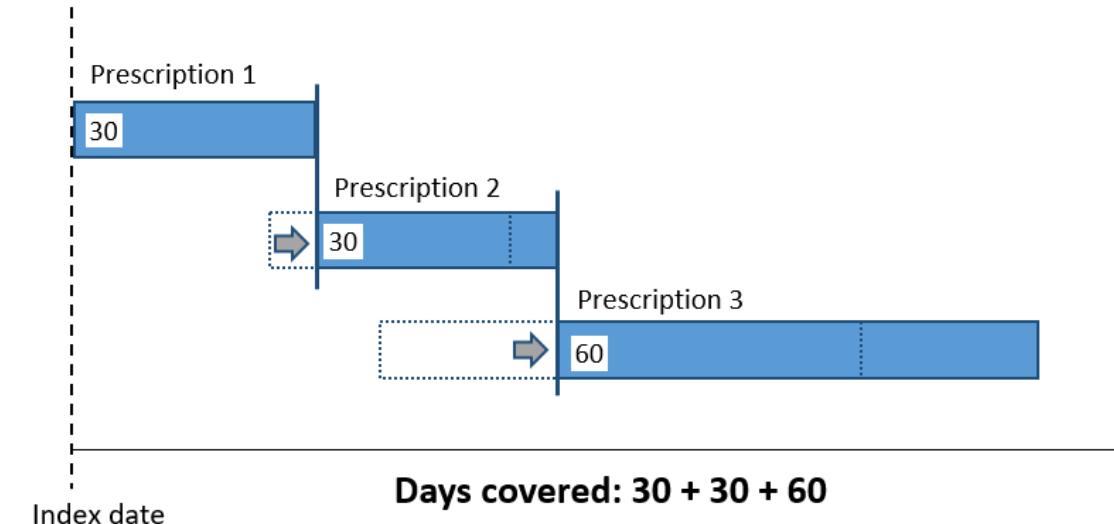
OUTCOMES DEFINITION

At PATIENT level



ADHERENCE TO THE
CHRONIC THERAPY

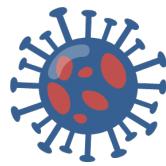
$$PDC = \frac{\sum \text{Days covered by drug prescription}}{\sum \text{Days of observation}}$$



Canfield SL, et al. J Manag Care Spec Pharm. 2019 Oct;25(10):1073-1077



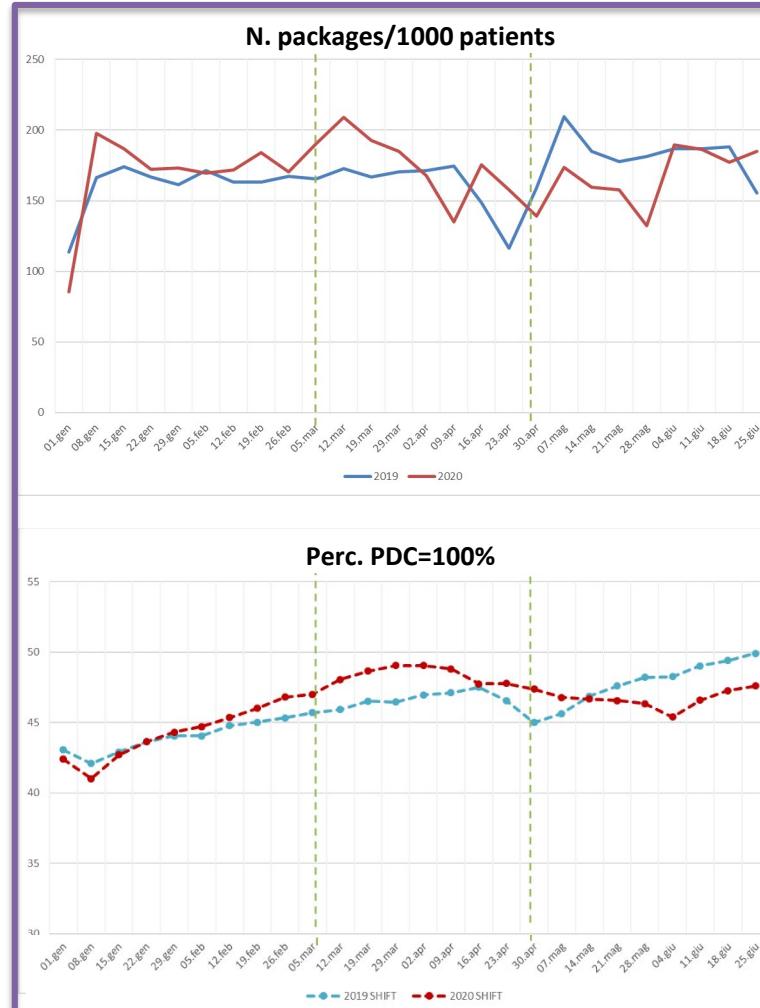
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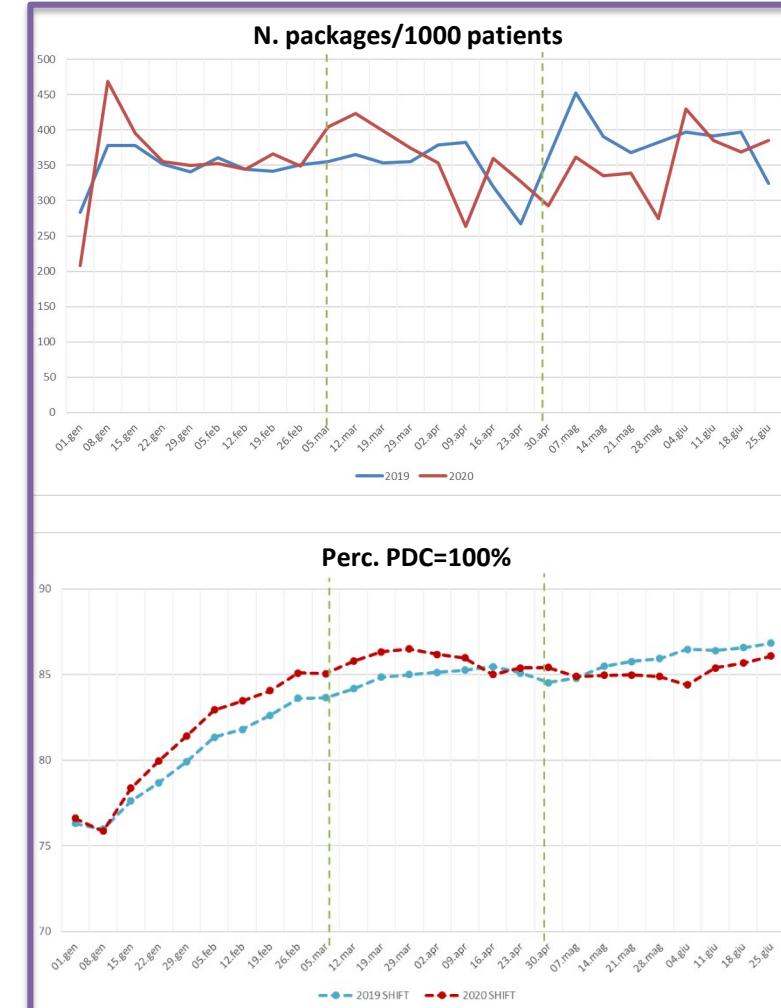
RESULTS

Fonte DWH Regionale Regione Lombardia

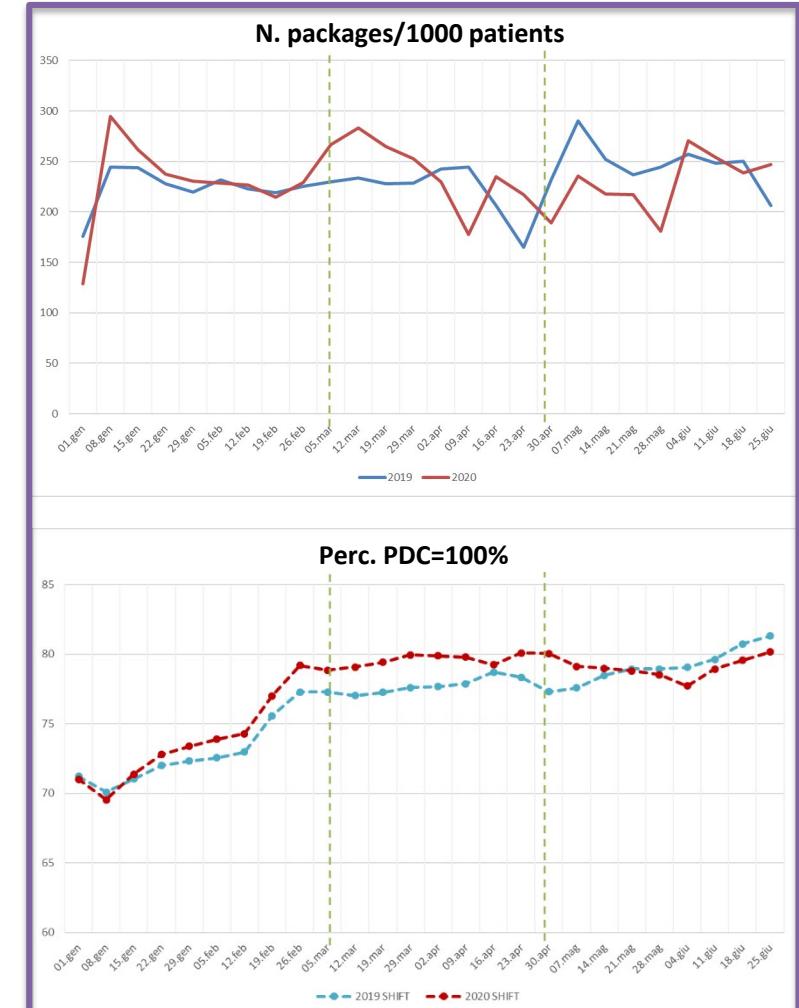
Treatment for hypothyroidism

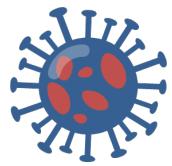


Treatment for prostatic hypertrophy



Lipid-lowering treatment

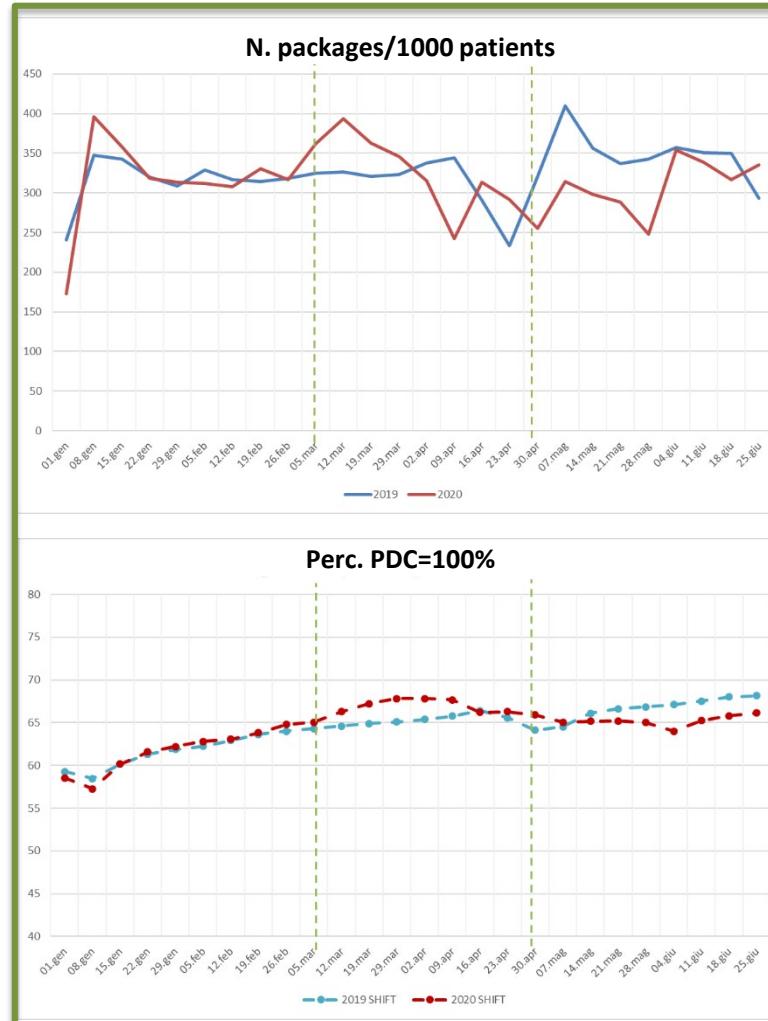




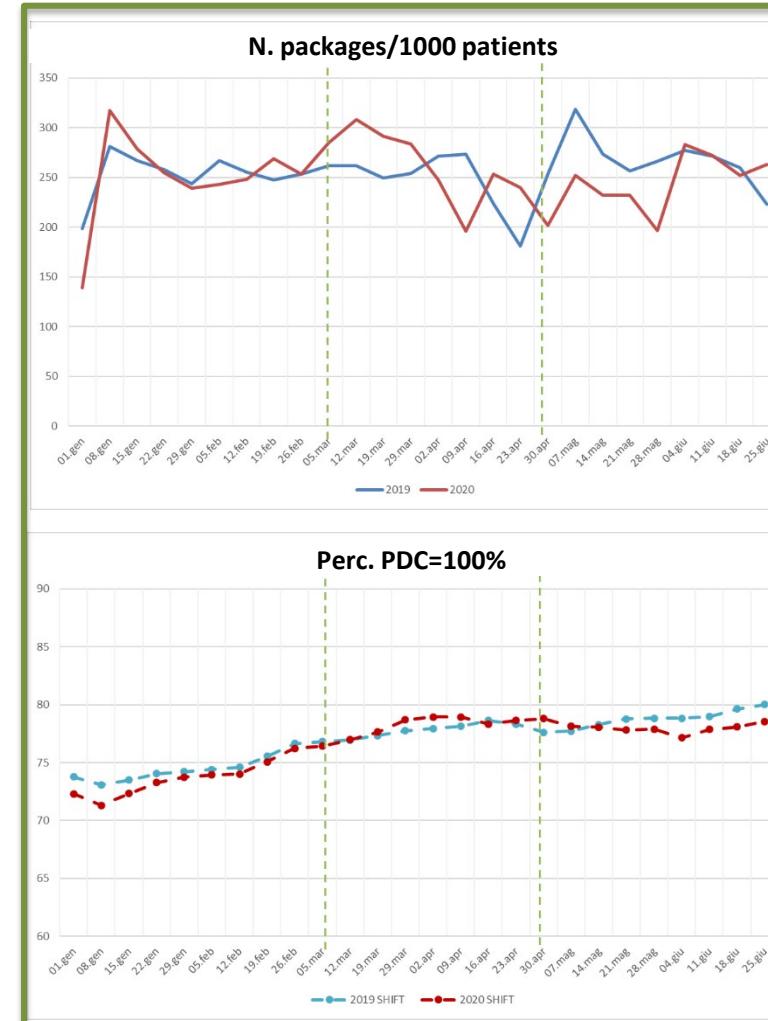
RESULTS – focus on antidiabetic drugs

Fonte DWH Regionale Regione Lombardia

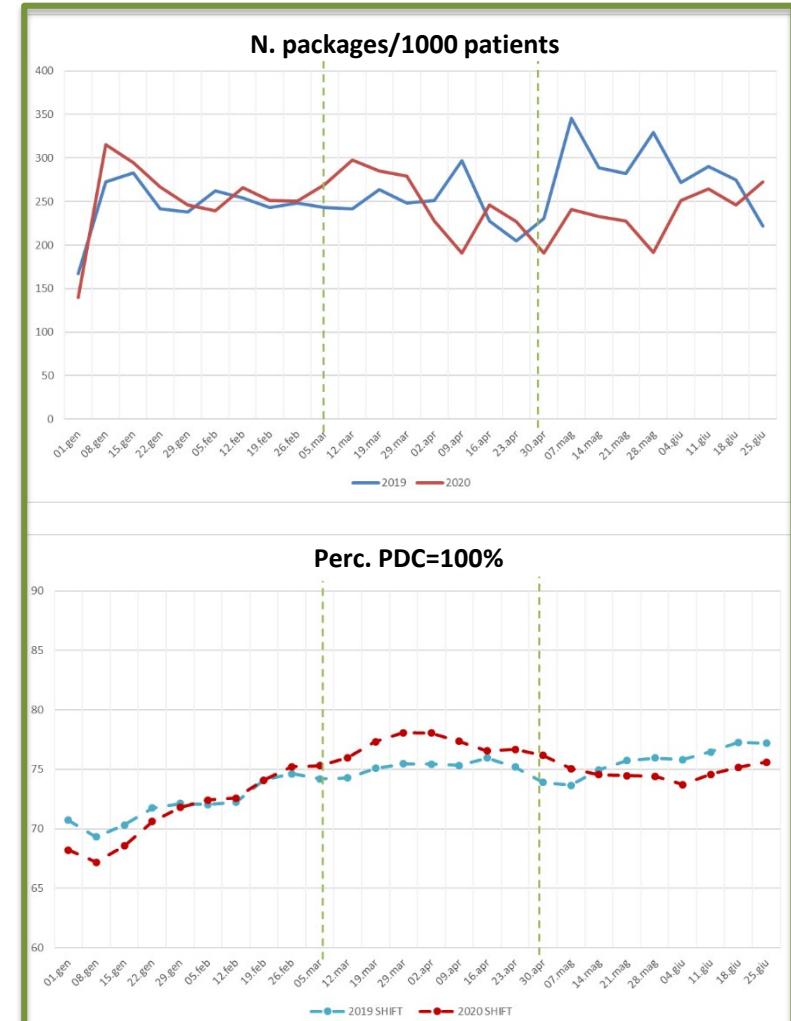
Biguanides

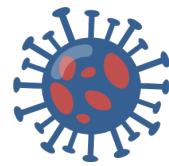


Sulfonylureas



Thiazolidinediones



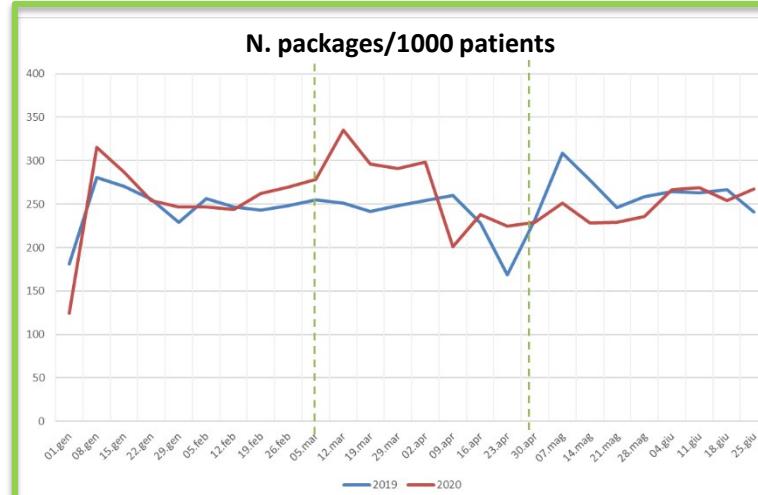


RESULTS – focus on antidiabetic drugs

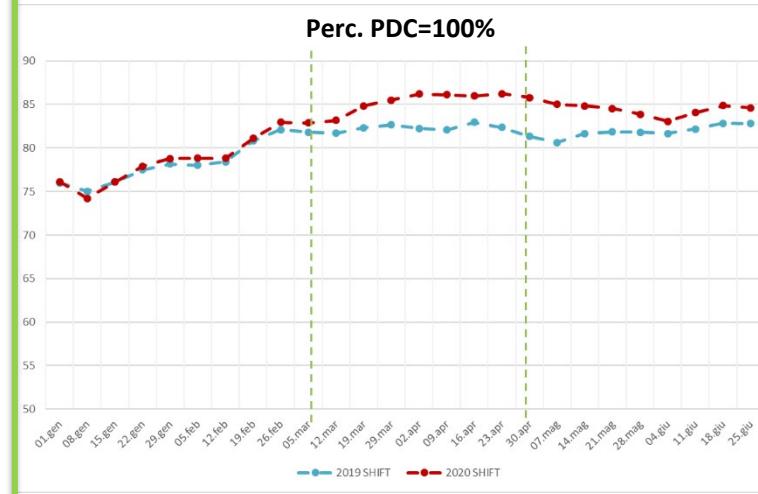
Fonte DWH Regionale Regione Lombardia

DPP-4 inhibitors

N. packages/1000 patients

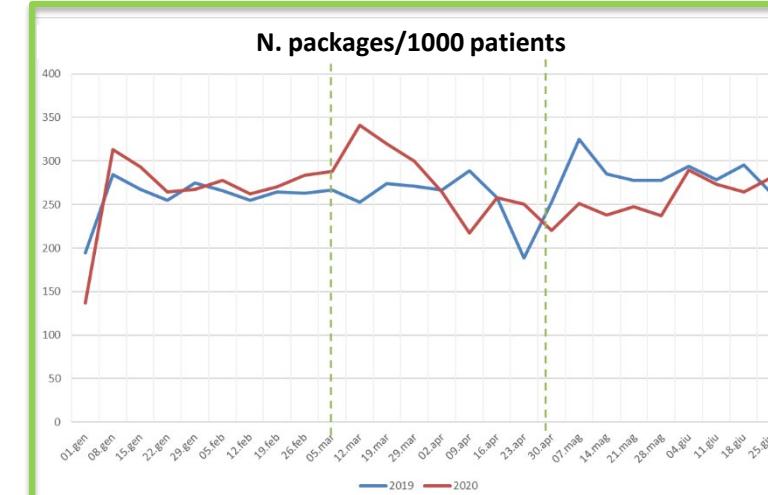


Perc. PDC=100%

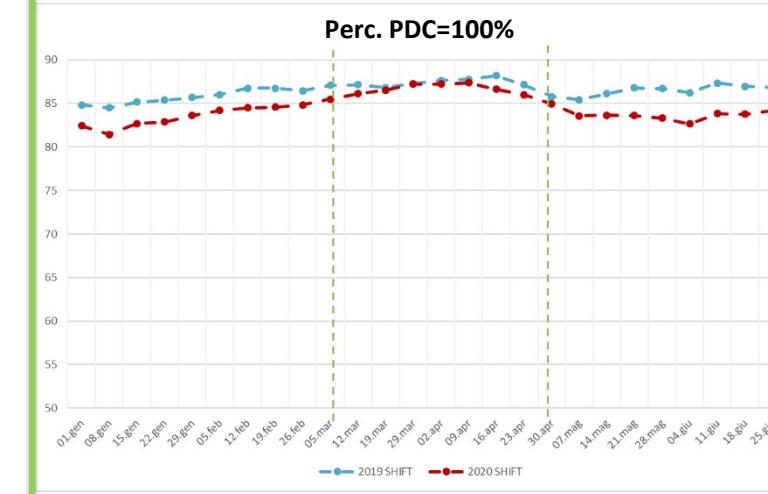


GLP-1 analogues

N. packages/1000 patients

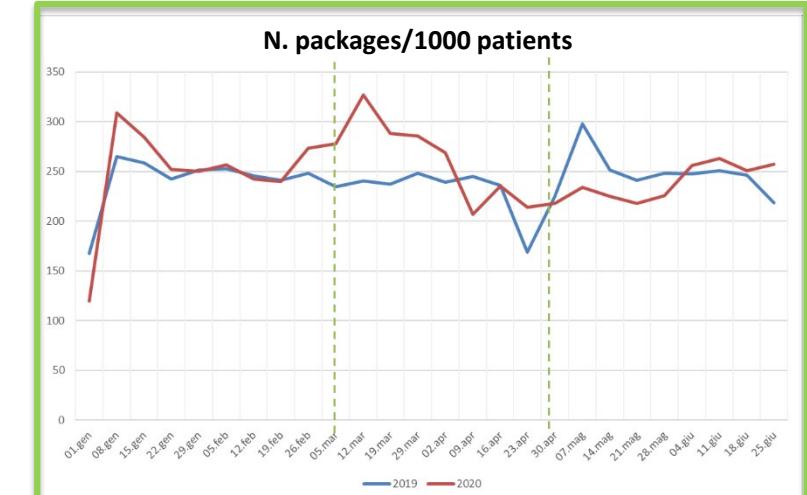


Perc. PDC=100%

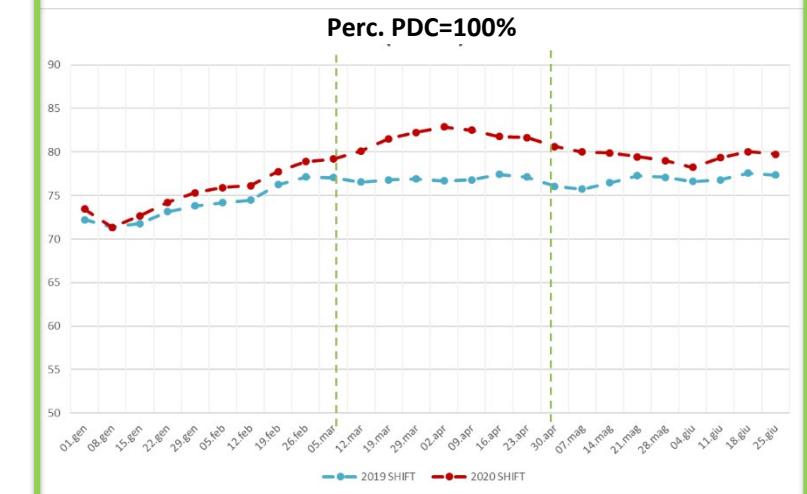


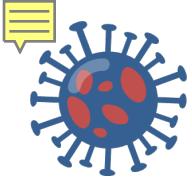
SGLT2 inhibitors

N. packages/1000 patients



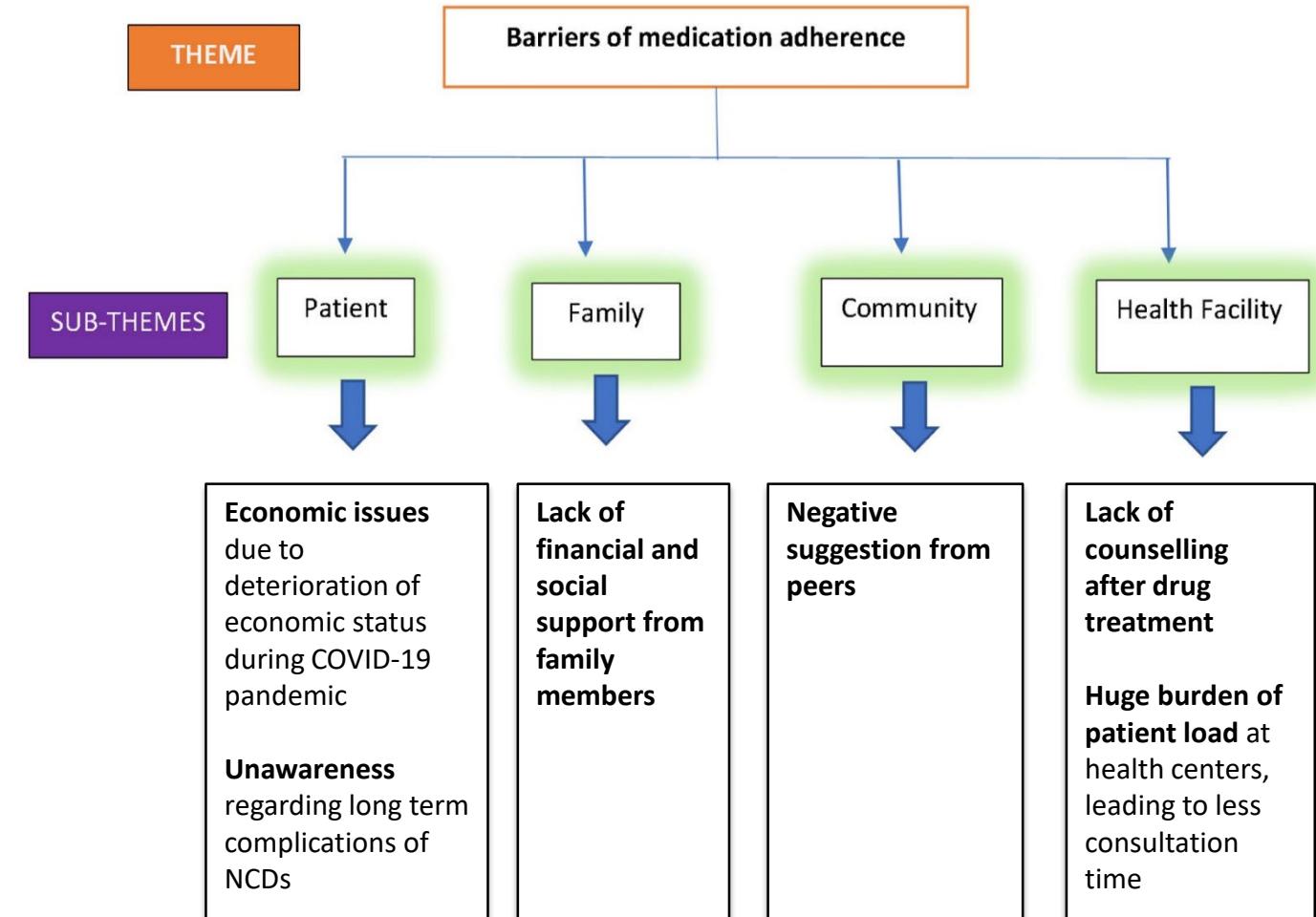
Perc. PDC=100%





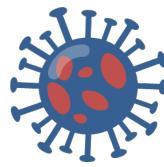
CONCLUSIONS

- ✓ The COVID-19 pandemic has **profoundly affected** the use of healthcare services
- ✓ Evaluating drug covering, we found that the high number of dispensed packages at the beginning of the lockdown period resulted in **a good coverage until April/May**, while **suboptimal in the following months**
- ✓ Our results suggest the need to **evaluate and optimize the approach to chronic patients**, both immediately and in a future scenario after COVID-19



Banerjee A, et al. J Patient Exp. 2021 Sep 7;8:23743735211039330





THANKS

Alberico L. Catapano

Federica Galimberti

Elena Olmastroni

Elena Tragni

Elisabetta Poluzzi

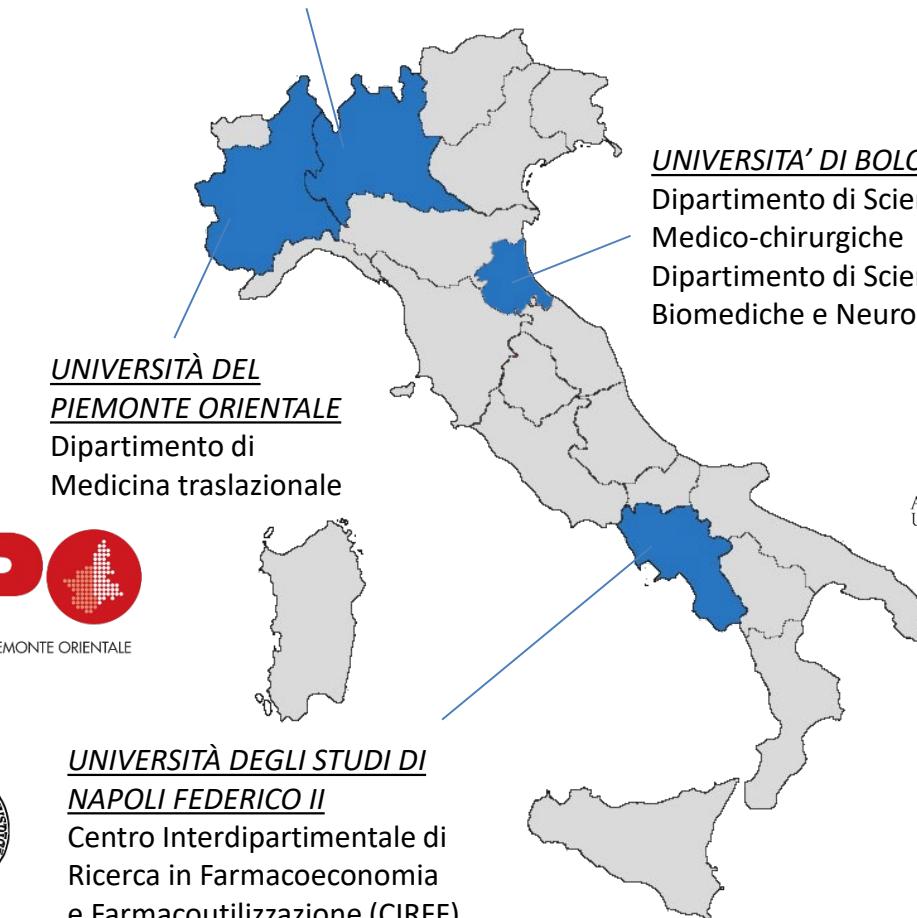
Simona Rosa

Marica Iommi



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DiSFeB – Servizio di Epidemiologia e
Farmacologia Preventiva (SEFAP)
SACCO – Unità di Farmacologia Clinica



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