



COVID-19 Sanitary crisis in Europe

Progress report as of December 31, 2021

Webinar January 21, 2022

Revised version

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Answers to the questionnaire

- + 14 countries :

Austria, Belgium, Bulgaria, Croatia, Northern Cyprus, Czech Republic, France, Germany (VLK/AEMH), Italy, The Netherlands, Portugal, Romania, Slovenia, Spain

- - 3 countries :

Hungary, Poland, Slovak Republic



Countries' total population

| | |
|-------------------|------------|
| ■ Austria | 8,932,664 |
| ■ Belgium | 11,566,041 |
| ■ Bulgaria | 6,916,548 |
| ■ Croatia | 4,036,355 |
| ■ Northern Cyprus | 326,000 |
| ■ Czech Republic | 10,701,777 |
| ■ France | 67,439,599 |
| ■ Germany | 83,155,031 |
| ■ Italy | 59,257,566 |
| ■ The Netherlands | 17,475,415 |
| ■ Poland | 37,840,001 |
| ■ Portugal | 10,298,252 |
| ■ Romania | 19,186,201 |
| ■ Slovak Rep | 5,459,781 |
| ■ Slovenia | 2,108,977 |
| ■ Spain | 47,394,223 |



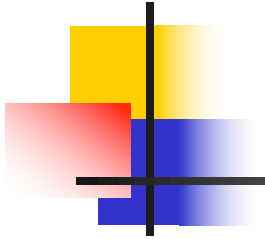
Cases confirmed by RT-PCR 2020-2021 > December 31, 2021

| | |
|-------------------|-----------------------------|
| ■ Austria | 1.359.254 |
| ■ Belgium | 2.075.781 (JHU) (17,7% pop) |
| ■ Bulgaria | 744.298 |
| ■ Croatia | 715.245 |
| ■ Northern Cyprus | 35.983 |
| ■ Czech Republic | 2.480.981 (23,1% pop) |
| ■ France | 9.740.600 (14,4% pop) |
| ■ Germany | 7.541.991 (9% pop) |
| ■ Italy | 8.371.915 (14,1% pop) |
| ■ The Netherlands | 3.410.288 (19,5% pop) |
| ■ Portugal | 1.884.974 |
| ■ Romania | 1.821.849 |
| ■ Slovenia | 465.708 |
| ■ Spain | 7.771.367 (16% pop) |



Hospitalised cases 2020 & 2021

| | |
|-------------------|---------------------------------|
| ■ Austria | total NA (908 at 12/01/2022) |
| ■ Belgium | NA |
| ■ Bulgaria | NA |
| ■ Croatia | 61.153 |
| ■ Northern Cyprus | NA |
| ■ Czech Republic | 170.133 |
| ■ France | total NA (18.321 at 31/12/2021) |
| ■ Germany | NA (data protection law) |
| ■ Italy | 474.003 (DATI GIMBE) |
| ■ The Netherlands | 38.039 |
| ■ Portugal | NA |
| ■ Romania | NA |
| ■ Slovenia | 25.801 |
| ■ Spain | total NA (17.028 at 12/01/2022) |



Number of patients in ICU December 31, 2021

| | |
|-------------------|--------------------------------|
| ■ Austria | total NA (255 at 12/01/2022) |
| ■ Belgium | NA |
| ■ Bulgaria | NA |
| ■ Croatia | total NA (214 at 31/12/2021) |
| ■ Northern Cyprus | 310 |
| ■ Czech Republic | 33.115 |
| ■ France | total NA (3.506 at 31/12/2021) |
| ■ Germany | 157.452 |
| ■ Italy | 8.557 |
| ■ The Netherlands | 16.832 |
| ■ Portugal | NA |
| ■ Romania | NA |
| ■ Slovenia | 4.527 |
| ■ Spain | total NA (2.228 at 12/01/2022) |



Number of deaths (2020 & 2021)

- Austria 13.427 (all locations)
- Belgium 28.267 (JHU)
- Bulgaria 30.890 (all locations)
- Croatia 13.300 (12.538 in hospital-341 nursing homes-287 at home ?)
- Northern Cyprus 139 (133 in hospital – 6 at home)
- Czech Republic 36.249 (32.447 in hospital-3.802 in nursing homes)
- France 123.552 (96.471 in hospital–27.081 nursing homes- at home ?)
- Germany 114.091 (all locations)
- Italy 137.091 (all locations)
- The Netherlands 21.553 (all locations)
- Portugal 19.303 (all locations)
- Romania 58.896 (all locations)
- Slovenia 6.042 (> 70% in hospital)
- Spain 90.508 (58.908 in hospital-31.600 in nursing homes)



Infected HC professionals (confirmed by PCR) 2020 & 2021

| | |
|-------------------|-------------------------------------|
| ■ Austria | NA |
| ■ Belgium | NA |
| ■ Bulgaria | 13.122 |
| ■ Croatia | 17.198 |
| ■ Northern Cyprus | NA |
| ■ Czech Republic | 82.450 |
| ■ France | 63.594 (public & private hospitals) |
| ■ Germany | NA (data protection law) |
| ■ Italy | 158.198 (MoH) |
| ■ The Netherlands | 200.000 (doctors included) |
| ■ Portugal | 19.172 |
| ■ Romania | NA |
| ■ Slovenia | NA |
| ■ Spain | 172.727 (doctors included) |



Deceased HC professionals in 2020 & 2021

- Austria NA
- Belgium NA
- Bulgaria NA (70 ??)
- Croatia 15
- Northern Cyprus 0
- Czech Republic 59
- France 8 nursing staff – 6 other (administrative)
- Germany NA (very few)
- Italy 234
- The Netherlands 31
- Portugal NA
- Romania 104
- Slovenia NA
- Spain 9 nurses – 22 pharmacists (01/2021)



Infected doctors (confirmed by PCR) 2020 & 2021

- Austria NA
- Belgium NA
- Bulgaria 4.928
- Croatia 4.323
- Northern Cyprus 63 (38 salaried – 25 free practice doctors)
- Czech Republic 14.850
- France 28.000 (5.963 salaried & 22.037 free practice doctors)
- Germany NA (data protection law)
- Italy NA
- The Netherlands NA
- Portugal NA
- Romania 2.900 (MoH)
- Slovenia NA
- Spain NA (included in the 172.727 infected HC professionals)



Deceased doctors in 2020 & 2021

- Austria 1 free practice doctor
- Belgium NA
- Bulgaria NA (approx. 90 ?)
- Croatia 6
- Northern Cyprus 1 (retired)
- Czech Republic 42
- France 5 salaried doctors - 49 free practice (active/not retired) doctors
- Germany NA (very few)
- Italy 365
- The Netherlands NA
- Portugal NA (6 at January 2021)
- Romania 47
- Slovenia 0
- Spain 130 salaried doctors (no individual protection at the first wave)

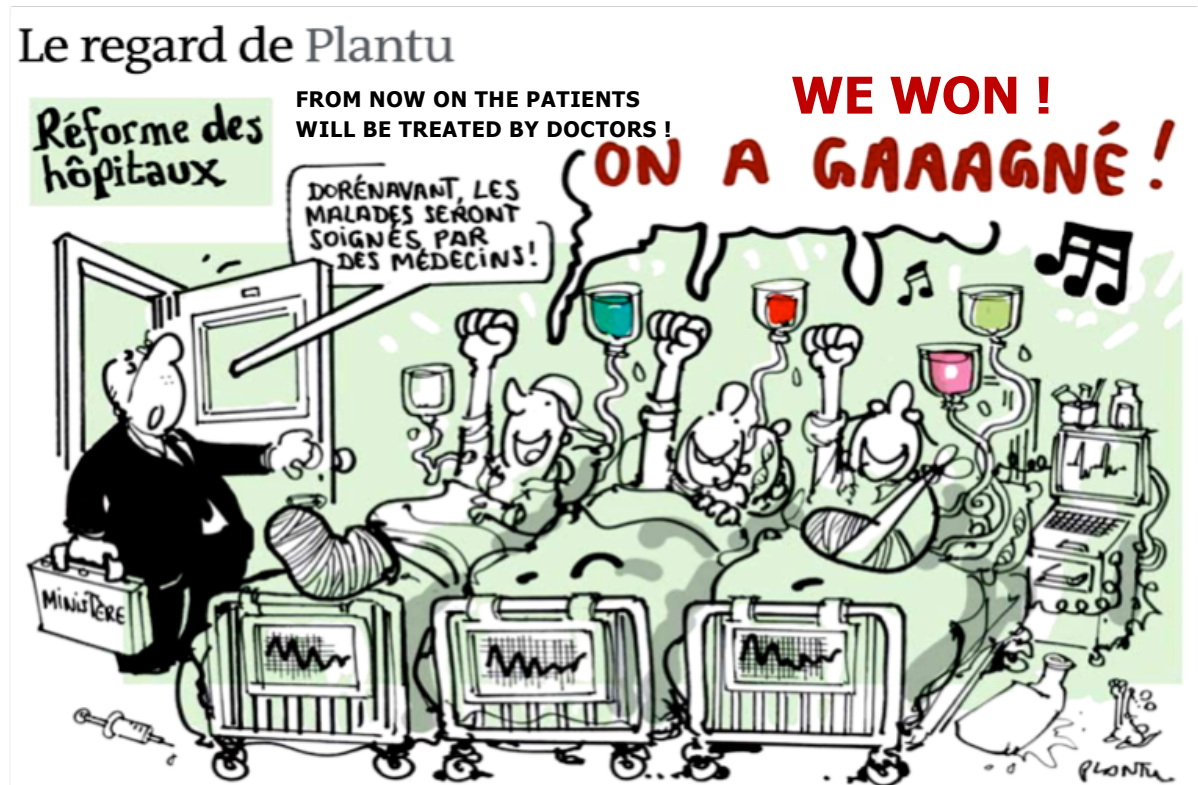


Exceptional service organisation

- Yes > public & private hospitals : Austria, Belgium, Bulgaria, Czech Rep, France, Germany, Italy, The Netherlands, Portugal, Spain
- Yes > public hospitals: Croatia, Northern Cyprus, Slovenia
- NA: Romania

COVID-19 influence on hospital management & Medical Leadership

- Yes: Austria, Bulgaria, Northern Cyprus, Czech Rep, France, Germany, Italy, The Netherlands, Portugal, Romania, Slovenia, Spain
- No: Belgium, Croatia





Special remuneration for doctors in frontline

- **Yes:** Austria, Bulgaria, Croatia (120€/month !), Czech Rep, France, The Netherlands, Portugal, Romania, Slovenia, Spain (according Autonomous Region)
- **No:** Belgium, Germany, Italy, Northern Cyprus, Spain



HC professionals'/doctors' shortage

- **Yes:** Austria, Belgium, Bulgaria, Croatia, Czech Rep, France, Italy, Northern Cyprus, The Netherlands, Portugal, Slovenia, Spain
- **No:** Germany
- **NA:** Romania



New appointed professionals/doctors

- **Yes:** Austria, Belgium, Bulgaria, Czech Rep, France, Italy, Northern Cyprus, Portugal, Romania, Spain
- **No:** Croatia, Germany, The Netherlands (but help from student volunteers for vaccination), Slovenia



Asymptomatic infected HC professionals at work (protected)

- **Yes:** Belgium, Croatia, Czech Rep, France, The Netherlands (only if nursing staff shortage), Slovenia
- **NO:** Austria, Bulgaria, Northern Cyprus, Germany, Italy (quarantine), Romania (14 days quarantine), Portugal, Spain



Antibody tests on HC professionals

- **Yes:** Austria, Bulgaria, Czech Rep, France, Italy, The Netherlands, Romania, Spain
- **No:** Belgium, Croatia, Northern Cyprus, Germany, Portugal, Romania (some hospitals), Slovenia



COVID-19 considered an occupational disease

- **Yes:** Austria, Croatia, Czech Rep, France (14/09/2020), Germany, The Netherlands, Slovenia
- **No:** Belgium, Bulgaria, Northern Cyprus, Italy (accident at work), Portugal, Romania, Spain



Changes in treatment protocols

- **Yes:** Austria, Croatia, Northern Cyprus, Czech Rep, France, Germany, Italy, The Netherlands, Romania, Slovenia, Spain
- **NO:** Belgium, Bulgaria, Portugal



Drugs no more used in COVID-19

- **Yes:** Croatia (hydroxychloroquine), Czech Rep (Isoprinosine-pranobex), Northern Cyprus (hydroxychloroquine, favipiravir), Portugal (hydroxychloroquine), Romania (hydroxychloroquine, lopinavir, ritonavir), Slovenia (monoclonal antibodies with Omicron)
- **No:** Austria, Belgium, Bulgaria, France, Germany, Italy, The Netherlands, Spain



« New drugs » used in COVID-19

- Paxlovid (Pfizer): Czech Rep, France, Germany, Romania
- Molnupiravir (MSD): Austria, Croatia, Northern Cyprus, Czech Rep, Germany, Italy, Romania, Slovenia
- Xevudy (GSK): Austria, Germany, The Netherlands,
- Kineret (Orphan Biovitrum AB): Austria, Germany, The Netherlands



Use of high-titer plasma therapy (monoclonal antibodies)

- **Yes:** Austria, Bulgaria, Croatia, Northern Cyprus, Czech Rep, France, Germany, Italy, The Netherlands, Romania, Slovenia
- **No:** Belgium, Portugal, Spain



Occupancy rates (%) at December 31, 2021

- Austria 45% in ICU (12% COVID)
- Belgium NA
- Bulgaria COVID-19 > 8,6% of the 48.152 hospital beds
- Croatia 62% in ICU – 53,3% in COVID wards
- Northern Cyprus 40% in ICU – 40% COVID wards
- Czech Republic 80% in ICU – 80% in COVID wards – 60% in usual units
- France 78% in ICU (50% COVID)-80% COVID wards-20% usual beds closed
- Germany NA
- Italy 15% in ICU – 25% COVID wards
- The Netherlands 42,2% in ICU
- Portugal 16,8% in ICU – 4% COVID wards – NA usual units
- Romania NA
- Slovenia 174 patients in ICU-534 in COVID Wards
- Spain 19,42% in ICU (1.803 patients) – 10.768 in usual units



Morbidity & mortality variation of other respiratory diseases 2018-2021

- **Yes:** Austria, Belgium, Croatia, Northern Cyprus, Czech Rep, France, Germany, Italy, The Netherlands, Portugal, Romania, Slovenia, Spain
- **No:** Bulgaria



Variation due to more respected protection measures

- **Yes:** Austria, Belgium, Croatia, Northern Cyprus, Czech Rep, France, Germany, Italy, The Netherlands, Portugal, Romania, Slovenia, Spain
- **Other:** The Netherlands > lockdown, restrictions in travelling & social activities



Is COVID-19 vaccination compulsory for the general population?

- Yes: Austria (March 15, 2022), Italy (February 1st, 2022)
- No: Belgium, Bulgaria, Croatia, Northern Cyprus, Czech Rep, France, Germany, Portugal, The Netherlands, Romania, Slovenia, Spain



Vaccination compulsory for the general population

- Austria: by legal majority
- Italy: adults > 50 years old



Is COVID-19 vaccination recommended for the general population?

- **Yes:** Austria, Belgium, Bulgaria, Croatia, Northern Cyprus, Czech Rep, France, Germany, The Netherlands, Portugal, Romania, Slovenia, Spain



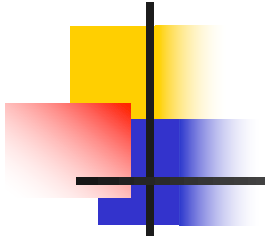
COVID-19 vaccination recommended for the general population

- From the age of 5-11 years with the consent of the parents: Austria, Belgium, Croatia, France, Italy, Portugal, Romania, Slovenia, Spain
- From the age of 12 years with the consent of the parents: Bulgaria, Northern Cyprus, Germany, The Netherlands
- By legal majority: Czech Rep



Percentage of 1st dose in the general population

- Austria 4,5%
- Belgium 85%
- Bulgaria NA
- Croatia 55,68%
- Northern Cyprus 85%
- Czech Republic 1,64% (JHU)
- France 80%
- Germany 75%
- Italy 78%
- The Netherlands 89,1%
- Portugal 93,7%
- Romania 41,5%
- Slovenia 59,5%
- Spain 92,5% (>12 years old)



Percentage of 2nd dose in the general population

- Austria 70,1%
- Belgium 80%
- Bulgaria 26%
- Croatia 48,14%
- Northern Cyprus 76,8%
- Czech Republic 61,86% (JHU)
- France 78%
- Germany 72%
- Italy 68%
- The Netherlands 86%
- Portugal 90,5%
- Romania 40,98%
- Slovenia 56,7%
- Spain 90,5% (> 12 years old)



COVID-19 vaccination compulsory for the HC professionals

- **Yes:** Austria (March 15, 2022), Belgium, France (06/08/2021), Germany (01/03/2022), Italy
- **No:** Bulgaria, Croatia, Northern Cyprus, Czech Rep, The Netherlands, Portugal, Romania, Slovenia, Spain



Percentage of 1st dose for HC professionals

- Austria NA
- Belgium NA
- Bulgaria NA
- Croatia 91,22% doctors – 76,21% HC prof
- Northern Cyprus 95% (non official)
- Czech Republic NA
- France 98% doctors included
- Germany 95% doctors – 90% HC prof
- Italy NA
- The Netherlands NA
- Portugal NA
- Romania NA
- Slovenia > 90% doctors – 65% HC prof
- Spain NA



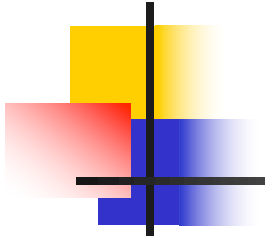
Percentage of 2nd dose for HC professionals

- Austria NA
- Belgium NA
- Bulgaria NA
- Croatia 89,26% doctors – 73,42% HC prof
- Northern Cyprus 95% (non official)
- Czech Republic NA
- France 97% doctors (28% 3rd)-93% HC prof (17,1% 3rd)
- Germany 95% doctors – 90% HC prof
- Italy 98% doctors - 95% HC prof
- The Netherlands NA
- Portugal NA
- Romania NA > 75% doctors-45% HC prof (MoH) ??
- Slovenia > 90% doctors – 65% HC prof
- Spain NA (probably very high > under investigation)



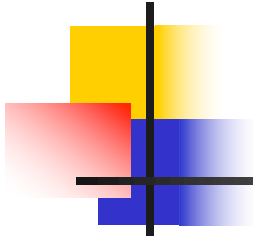
After a 1st dose of AstraZeneca - 2nd dose mRNA vaccine recommended

- **Yes:** Austria, Belgium, Bulgaria, Northern Cyprus, Czech Rep, France, Germany, Italy, The Netherlands, Portugal, Romania, Slovenia, Spain
- **No:** Croatia



3rd dose (booster) recommended for people over 18 years

- **Yes:** Austria, Belgium, Bulgaria, Croatia, Northern Cyprus, Czech Rep, France, Germany, Italy, The Netherlands, Portugal, Romania, Slovenia
- **No:** Spain



3rd dose (booster) recommended for people over 65 years or with associated pathology

- Yes: Spain



Booster dose with Moderna®

- **Yes:** Belgium, Bulgaria, Northern Cyprus, Czech Rep, France, Italy, The Netherlands, Portugal, Romania, Slovenia, Spain
- **NO:** Austria, Croatia, Germany



Number of 3rd dose vaccinations

- Austria 43,9%
- Belgium 70%
- Bulgaria 6,8%
- Croatia 12,74%
- Northern Cyprus 42,4%
- Czech Republic NA
- France 36,86%
- Germany 30%
- Italy 37%
- The Netherlands 38%
- Portugal 35,9%
- Romania 10,8%
- Slovenia NA
- Spain 89,6%>70 years, 86,5%>60years, 72,8%>50years, 59,9%>40 years



Increasing Omicron variant infections

- **Yes:** Austria, Belgium, Bulgaria, Croatia (++) , Northern Cyprus (++) , Czech Rep, France (+++), Germany (++) , Italy, The Netherlands, Portugal, Romania, Slovenia (+++), Spain



Influence on management of patients with other pathologies in hospitals

- **Yes:** Austria, Belgium, Bulgaria, Croatia, Northern Cyprus, Czech Rep, France, Germany, Italy, The Netherlands, Portugal (*a lot of surgical procedures postponed*), Romania, Slovenia, Spain



Influence on management of patients with other pathologies in ICU

- **Yes:** Austria, Belgium, Bulgaria, Croatia, Northern Cyprus, Czech Rep, France, Germany, Italy, The Netherlands, Portugal, Romania (*some hospitals become 100% anticovid hospitals*), Slovenia, Spain



Not vaccinated patients in ICU

- Austria NA
- Belgium very high
- Bulgaria 80-90%
- Croatia 75,1%
- Northern Cyprus 75%
- Czech Republic 90%
- France 80%
- Germany 80%
- Italy 78%
- The Netherlands 75%
- Portugal 90%
- Romania 80%
- Slovenia >75%
- Spain 50%



Ethical debate in ICU on priority for non-vaccinated patients

- **Yes:** Austria, Belgium, France, Germany, Italy, The Netherlands (not very loud)
- **NO:** Bulgaria, Croatia, Northern Cyprus, Czech Rep, Portugal, Romania, Slovenia (not yet), Spain



Social movements against COVID-19 vaccination

- **Yes:** Austria, Belgium, Bulgaria, Croatia, Northern Cyprus, Czech Rep, France (10% antivax & antipass), Germany, Italy, The Netherlands, Portugal, Romania (antivax & provax political parties), Slovenia, Spain



3rd dose mandatory for Digital COVID Certificate in general population

- **Yes:** Northern Cyprus, Czech Rep, France (>18 years-legal majority), Portugal, Romania, Slovenia
- **No:** Austria, Belgium, Bulgaria, Croatia, Germany, Italy, The Netherlands, Spain



3rd dose mandatory for Digital COVID Certificate only > 65 years old

- **Yes:** Italy
- **NO:** Austria, Belgium, Bulgaria, Croatia, Germany, The Netherlands, Spain



Activities linked to Digital COVID

Certificate presentation

(excluding *de facto* unvaccinated population)

Yes: Austria, Belgium, Bulgaria, Croatia,
Northern Cyprus (*no control*), Czech Rep,
France, Germany, Italy, The Netherlands,
Portugal, Romania, Spain

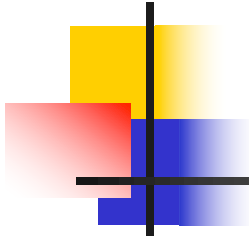
No : Slovenia (*not yet*)



Social movements against Digital COVID-19 Certificate

Yes: Austria, Belgium, Bulgaria, Croatia, Northern Cyprus, France (10% antivax & antipass), Germany, Italy, The Netherlands, Romania (antivax & provax political parties), Slovenia, Spain

No : Czech Rep, Portugal



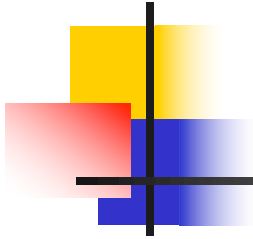
Fake Digital COVID-19 Certificates traffic

- **Yes** : Austria, Belgium, Bulgaria, Croatia (rare), Northern Cyprus, Czech Rep, France (*200.000*), Germany, Italy, The Netherlands, Portugal, Romania, Slovenia (++) , Spain



Restrictions on entry in the country

- **Yes:** Austria, Belgium, Bulgaria, Croatia, Northern Cyprus, Czech Rep, France, Germany, Italy, The Netherlands, Portugal, Romania, Slovenia, Spain



Specific COVID-19 requirements when entering the country

- **According to EU rules:** Bulgaria, Croatia, Germany, Italy, The Netherlands, Portugal, Spain
- **EU rules adapted by local government:** Austria, Belgium, Northern Cyprus, Czech Rep, France, Romania, Slovenia



EU Digital COVID Certificate + recent negative RT-PCR test

Yes: Austria (excepted 3rd booster dose), Bulgaria, Northern Cyprus, Czech Rep (according to vaccination level & country), France (some non-EU countries), Germany (some non-EU countries), Portugal

NO: Belgium, Croatia, Italy, The Netherlands, Romania, Slovenia, Spain



EU Digital COVID Certificate + quarantine

Yes for *red list countries* :

Bulgaria, Croatia, France, Germany, Italy, The Netherlands

NO: Austria, Belgium, Northern Cyprus, Portugal, Romania, Slovenia, Spain

NA : Czech Rep



Restrictions December 31, 2021

- Education: Austria, Bulgaria, Croatia, Germany, Portugal, Slovenia, Spain
- Transports: Austria, Bulgaria, Germany, Italy, Portugal, Slovenia
- Restaurants: Austria, Bulgaria, Germany, Italy, The Netherlands, Portugal, Romania, Slovenia, Spain
- Bars: Austria, Bulgaria, Croatia, France, Germany, Italy, The Netherlands, Portugal, Romania, Slovenia, Spain
- Nightclubs : Belgium, Bulgaria, Croatia, France, Germany, Italy, The Netherlands, Portugal, Romania, Slovenia, Spain
- Culture : Austria, Belgium, Bulgaria, Croatia, Germany, Italy, The Netherlands, Portugal, Romania, Slovenia, Spain
- Others: Bulgaria, Italy, The Netherlands (contact occupancies)

- No restrictions: Northern Cyprus, Czech Rep



Compulsory to wear a mask

- **Education:** Austria, Bulgaria, Croatia, Northern Cyprus, Czech Rep, France, Germany, Italy, The Netherlands, Portugal, Romania, Slovenia, Spain
- **Transports:** Austria, Bulgaria, Croatia, Northern Cyprus, Czech Rep, France, Germany, Italy, The Netherlands, Portugal, Romania, Slovenia, Spain
- **Restaurants:** Austria, Croatia, Northern Cyprus, Czech Rep, France, Germany, Italy, The Netherlands, Portugal, Romania
- **Bars:** Austria, Croatia, Northern Cyprus, Czech Rep, France, Germany, Italy, The Netherlands, Portugal, Romania
- **Nightclubs :** Austria, Croatia, Northern Cyprus, Czech Rep, France, Germany, Italy, The Netherlands, Portugal, Romania
- **Culture :** Austria, Croatia, Czech Rep, France, Germany, Italy, The Netherlands, Portugal, Romania, Slovenia, Spain
- **Streets :** Austria, Belgium, France, Italy, Romania, Spain
- **Others:** Austria, Bulgaria, Italy, The Netherlands, Spain



Persistent economic impact of COVID-19 crisis

Yes: Austria, Croatia, France, Germany, Italy,
Northern Cyprus, Portugal, Slovenia, Spain

No: Belgium



Persistent economic impact on GDP

Yes: Austria, Belgium, Bulgaria, Croatia, Northern Cyprus, Czech Rep, Italy, The Netherlands, Portugal, Slovenia, Spain

No: France, Germany, Romania



Persistent economic impact on unemployment

Yes: Austria, Belgium, Bulgaria, Northern Cyprus, France, Portugal, Spain

No: Croatia, Czech Rep, Germany, Italy, The Netherlands, Romania, Slovenia



Additional comments

- **Czech Republic** Occupancy of ICU's and standard wards was changed during the time, according to the pandemic situation, and occupancy of beds. The wards were structuralized to and from "covid zone", according to majority of hospitalized patients.
- **Italy** Dear all, I find it truly unproductive and worthless to continue to collect data on the Covid-19 pandemic that are not in the least comparable both in terms of collection method between country and country and for the adjustments that each country makes to justify the related requirements. For 2020 see previous report. The use of new drugs depends more on the timing with which national drug agency proceeds to approve it.
- **Slovenia** Now the situation is worsening every day because a lot of people is becoming positive (Omicron) and undergoing into quarantine (risk of lockdown). The actual shortage of HC personal now is even worse. The problem is that now the infected people are also those who received the full vaccination even with the 3rd dose. Unfortunately people do not behave in the right way and the essential measures to fight the epidemic are not taken seriously.