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Coronapandemin i världen och Sverige

ANDERS TEGNELL.



- Pandemics has been a part of human history even since we started living in societies. Their impact has varied but often been considerable and partly affected how we are living today. Will covid 19 affect us in the future and how will future pandemics affect us?



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PUBLIC NOTICE

In view of the severity of the present

Epidemic of Influenza

and in order that all efforts may be concentrated on the stamping out of the disease, the local Board of Health, after consultation with Kingston Medical Society and the Mayor, has enacted that after Oct. 16th, and until further notice,

1. Theatres and Moving Picture Houses shall be closed and remain closed
2. Churches and Chapels of all denominations shall be closed and remain closed on Sundays.
3. All Schools, Public or Private, including Sunday Schools, shall close and remain closed.
4. Hospitals shall be closed to visitors.
5. No public shall be admitted to courts except those essential to the prosecution of the cases called.
6. The Board advises the public most strongly not to crowd into street cars and to avoid as much as possible any crowded train or an assembly of any kind.

Provisions have been made by the Kingston Medical Society whereby all cases applying for assistance will receive the same either by registered practitioners or by final year medical students acting under instructions. Therefore every case of illness should send in a call to a physician.

A. R. B. WILLIAMSON,
Medical Health Officer.



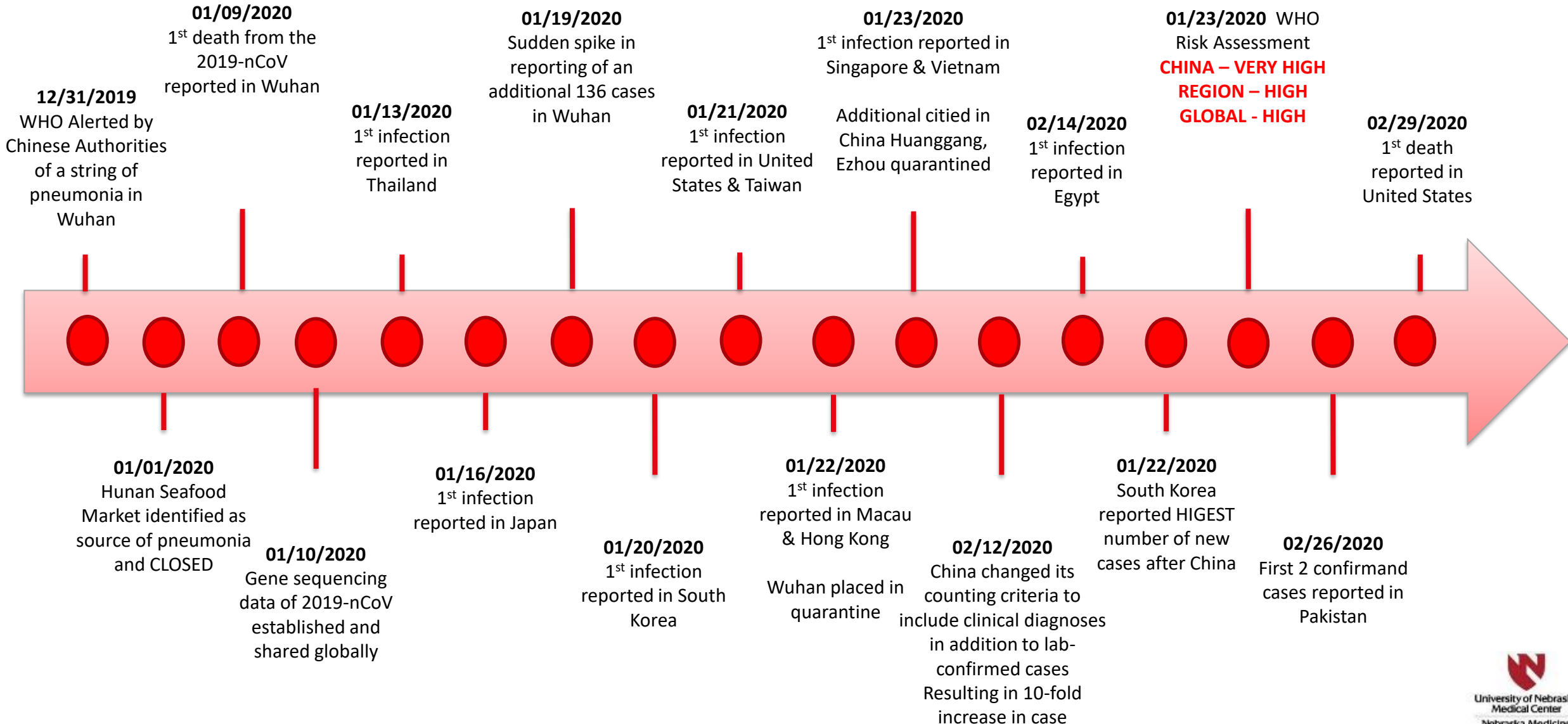
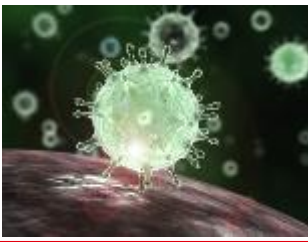
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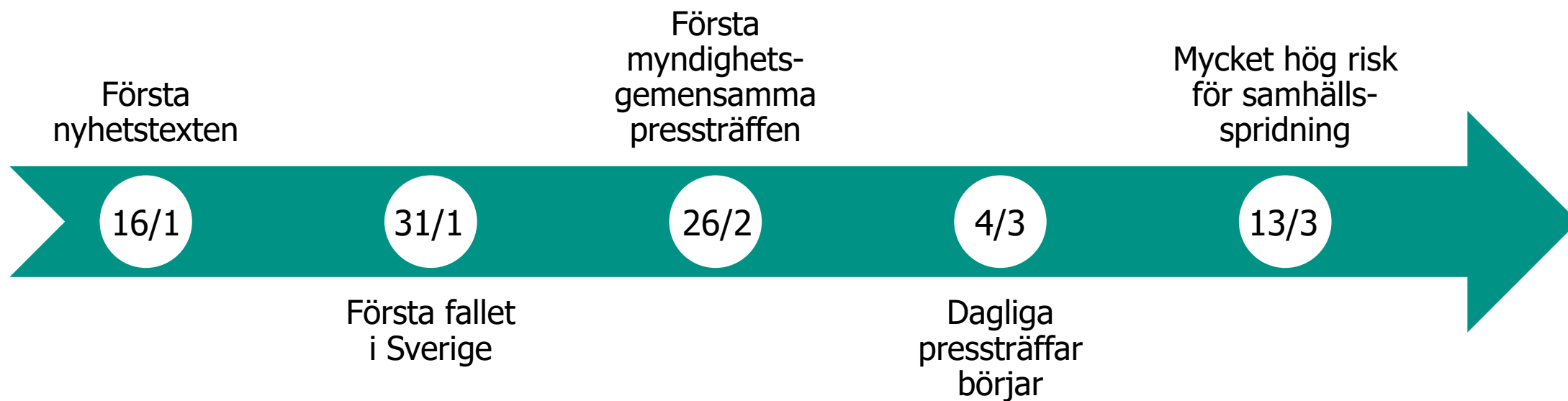
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COVID-19 Outbreak: Key Events



Hur det började i januari 2020



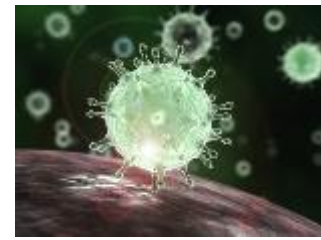
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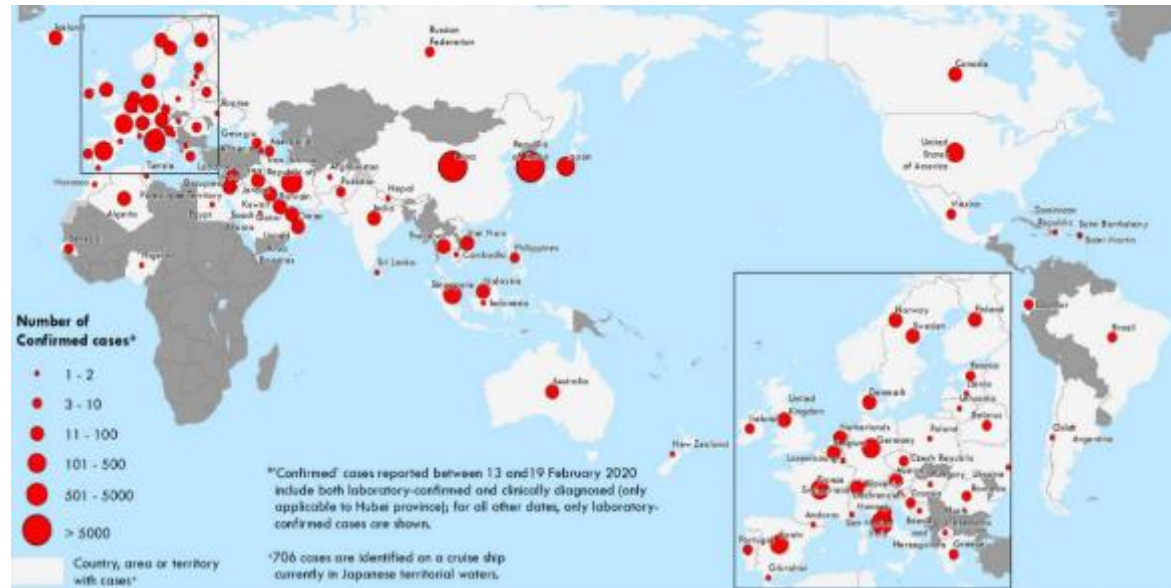
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COVID-19 Distribution of Lab-confirmed Cases: Globally (March 08, 2020)



The coronavirus COVID-19 is affecting 104 countries and territories around the world and 1 international conveyance (the Diamond Princess cruise ship harbored in Yokohama, Japan)



Selected Countries Reporting Highest Number of Cases/Deaths in **Asia**

China: 80,703/3,089 (CFR: 3.8%)
 South Korea: 7,313/50 (CFR: 0.7%)
 Iran: 6,566/194 (CFR: 2.9%)
 Japan: 502/7 (CFR: 1.4%)

Selected Countries Reporting Highest Number of Cases/Deaths in **Africa**

Algeria: 20/0 (CFR: 0.0%)
 Egypt: 49/1 (CFR: 2.0%)
 Nigeria: 1/0 (0.0%)

Selected Countries Reporting Highest Number of Cases/Deaths in **Europe**

Italy: 7,375/366 (CFR: 5.0%)
 France: 1,126/19 (CFR: 1.7%)
 Germany: 1,040/0 (CFR: 0.0%)
 Spain: 673/17 (CFR: 2.5%)

Selected Countries Reporting Highest Number of Cases/Deaths in **America**

USA = 517/21 (CFR: 4.0%)
 Canada 64/0 (CFR: 0.0%)

Oceania

Australia: 80/6 (6 new cases/3 new deaths)

Italy: 1,492 new cases and 133 more deaths past 24 hours not available

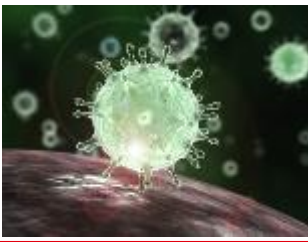
Iran: 743 new cases with 49 more deaths in the past 24 hours

S. Korea: 272 new cases with 2 more deaths in the past 24 hours

France: Over 177 new cases and 32 more deaths in the past 24 hours

USA: 82 new cases and 2 more deaths in the past 24 hours

China: Over 52 new cases with 28 more deaths in the past 24 hours

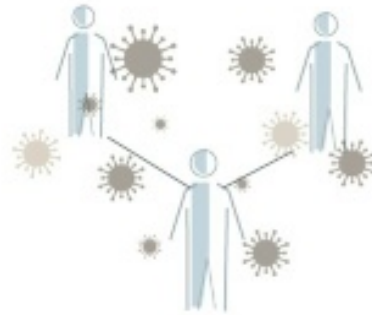


What is a "Superspreader?"

In general

- Infected person infects a number of other individuals, directly or indirectly
- This happens in many diseases including common flu

Common infection



Superspreader

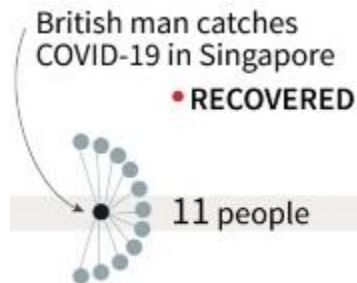


- Weak immune system, behaviors, degree of contact, travel patterns, can contribute to spread but hard to trace.
- Person can spread virus without exhibiting symptoms.

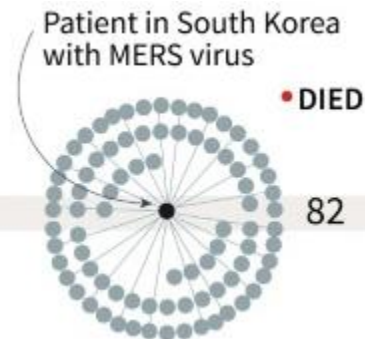
Recent Cases

- Superspreader status
- Infected directly or indirectly

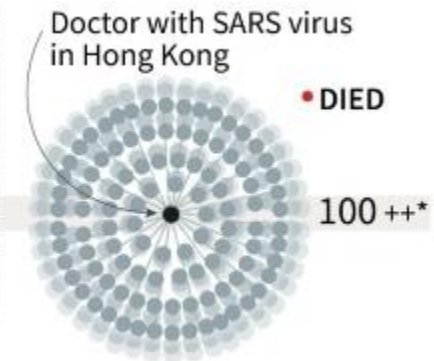
2020



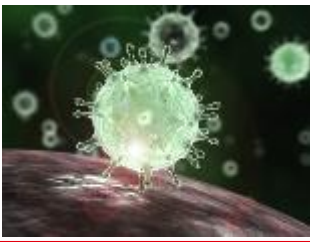
2015



2003

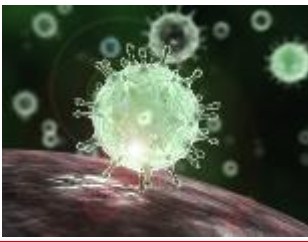


COVID-19 Cruise Ship Lab-confirmed Cases



- Diamond Princess cruise ship was quarantined in Japan since February 3, 2020.
- 696 confirmed cases and 7 deaths.
- There were about 400 Americans on the ship.
- The returning passengers have been subject to a 14-day quarantine and will be housed at two locations: Travis Air Force Base in California and Joint Base San Antonio-Lackland in Texas.
- Passengers were screened before leaving Japan to avoid symptomatic people from boarding the plane.
- Once they return to the United States, the passengers were housed separately from

COVID-19 Nursing Home Outbreak: Seattle, Washington, USA



The outbreak at the Life Care in Kirkland, Washington

- 108 residents and 180 staff
- 50% showed signs and symptoms
- 16 fatalities
- Based on data from China the disease kills nearly 15% of people over 80 years old and 8% percent of people in their 70s — the very population that makes up more than half the population of US nursing homes & long-term/assisted living facilities.
- This outbreak exposed the great vulnerability of the nation's nursing homes and long-term/assisted living facilities, and the 2.5 million Americans who live in them.



Sverige



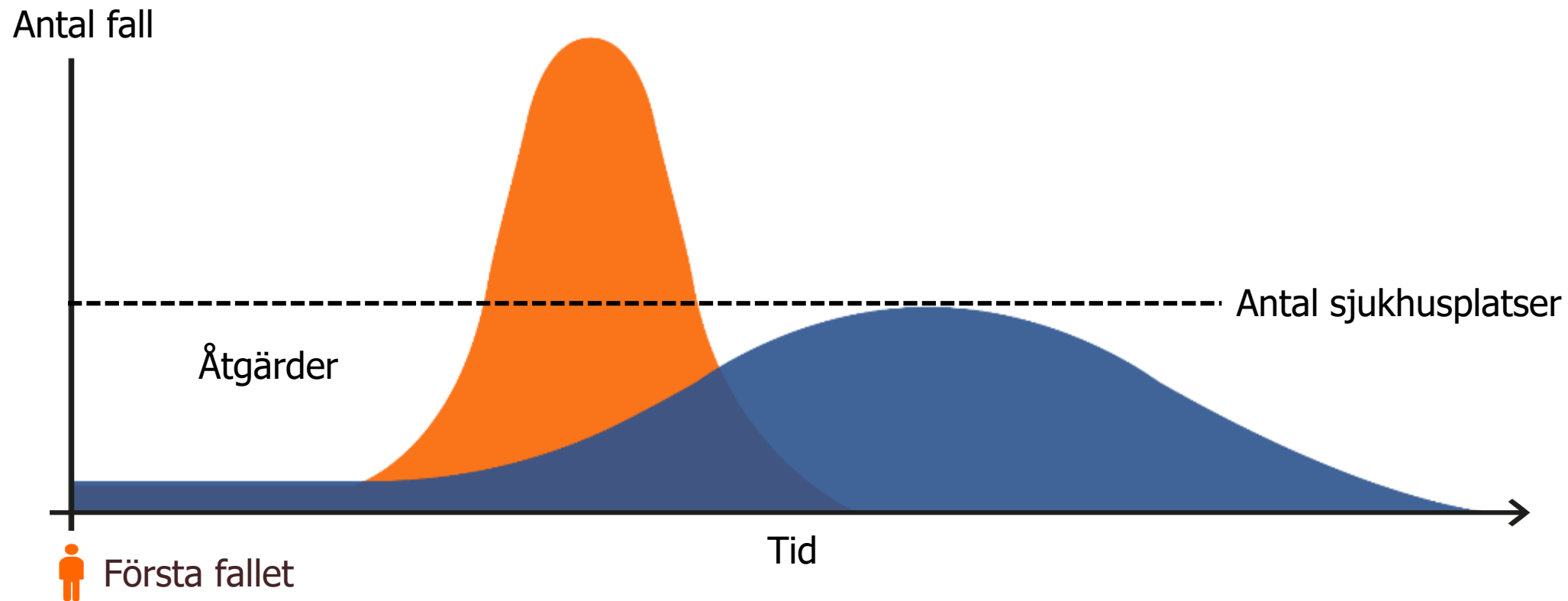
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Plana ut kurvan



Tillsammans kan vi bromsa smittan



Stanna hemma även om du bara känner dig lite sjuk.



Håll avstånd till andra både inomhus och utomhus.



Tvätta händerna ofta med tvål och vatten.



Avstå sociala sammanhang med större antal deltagare.

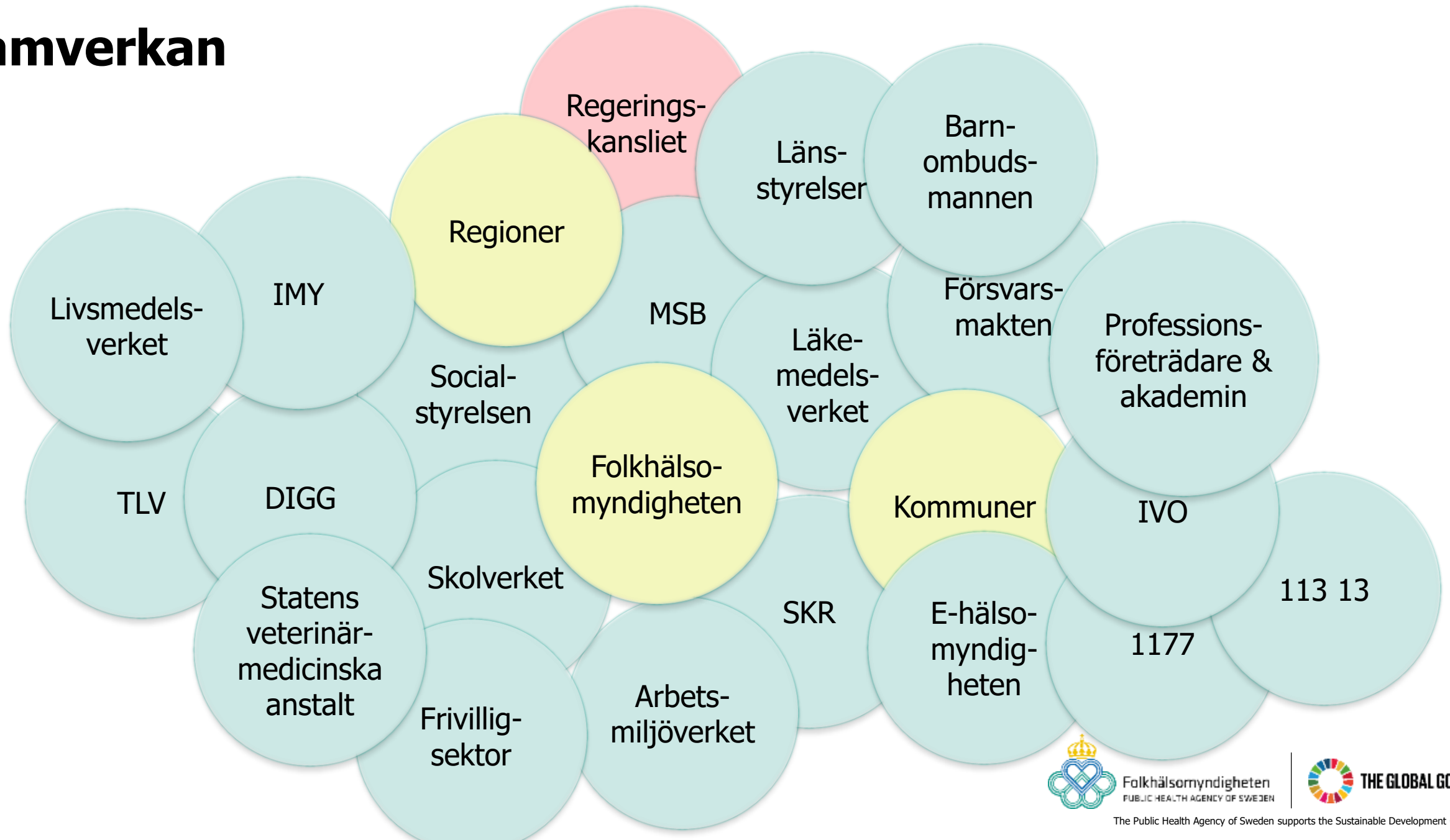


Arbeta hemifrån om det finns möjlighet.



Testa dig vid symtom.

Samverkan



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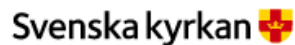
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Internationell samverkan/informationsdelning

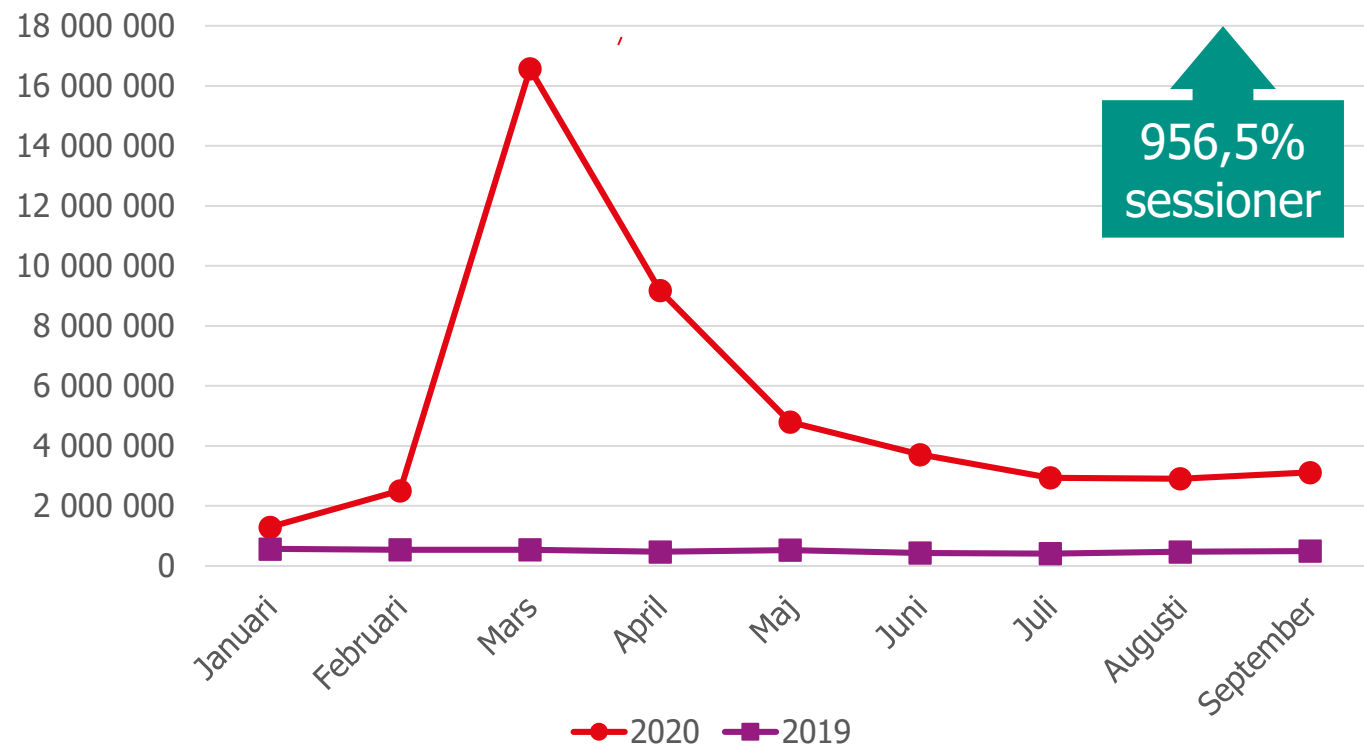
- "Formell", framförallt informationsdelning med visst utrymme för diskussioner
 - ECDC
 - WHO
 - EU, ffa Health security committee, HSC men även inom relevanta Joint actions
- Mer informell samverkan - nordiska ländernas motsvarigheter (FHI, SSI, THL, Island) med öppna diskussioner och delning av information
 - Generellt om åtgärder och läge i smittspridning
 - Grupper för specifika frågor så som modelleringar, skolfrågor, vaccination etc.
- Vissa bilaterala kontakter



Omfattande extern samverkan



Hög efterfrågan på information - webben



- Frekventa uppdateringar av information på webben utifrån det förändrade kunskapsläget och behov hos målgrupper.
- 1700 webbsidor med fokus covid-19 i maj 2022



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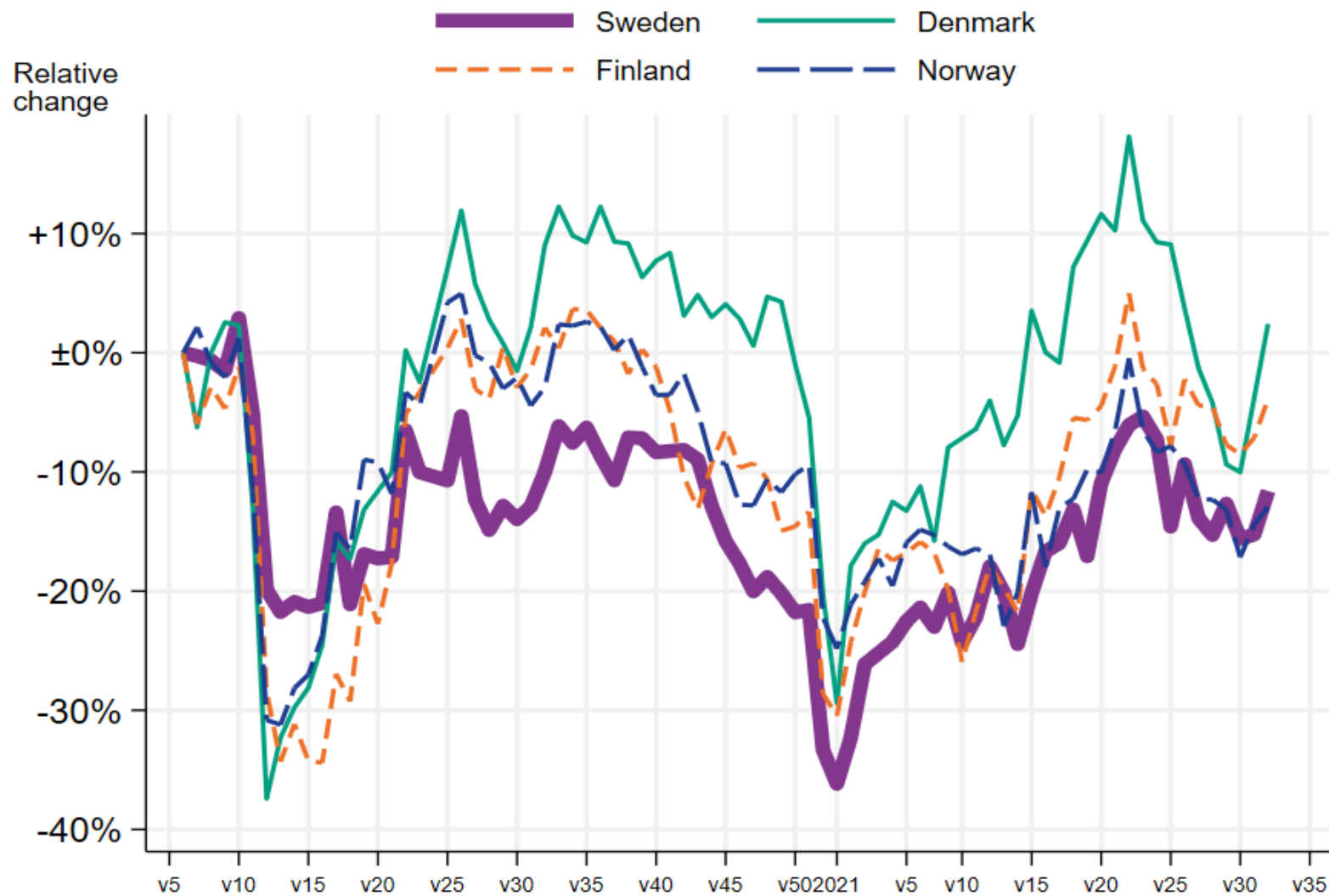


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Vilket genomsnitt fick rekommendationerna?

-effekten på rörlighet i de nordiska länderna



Data source – Telia mobile phone movements



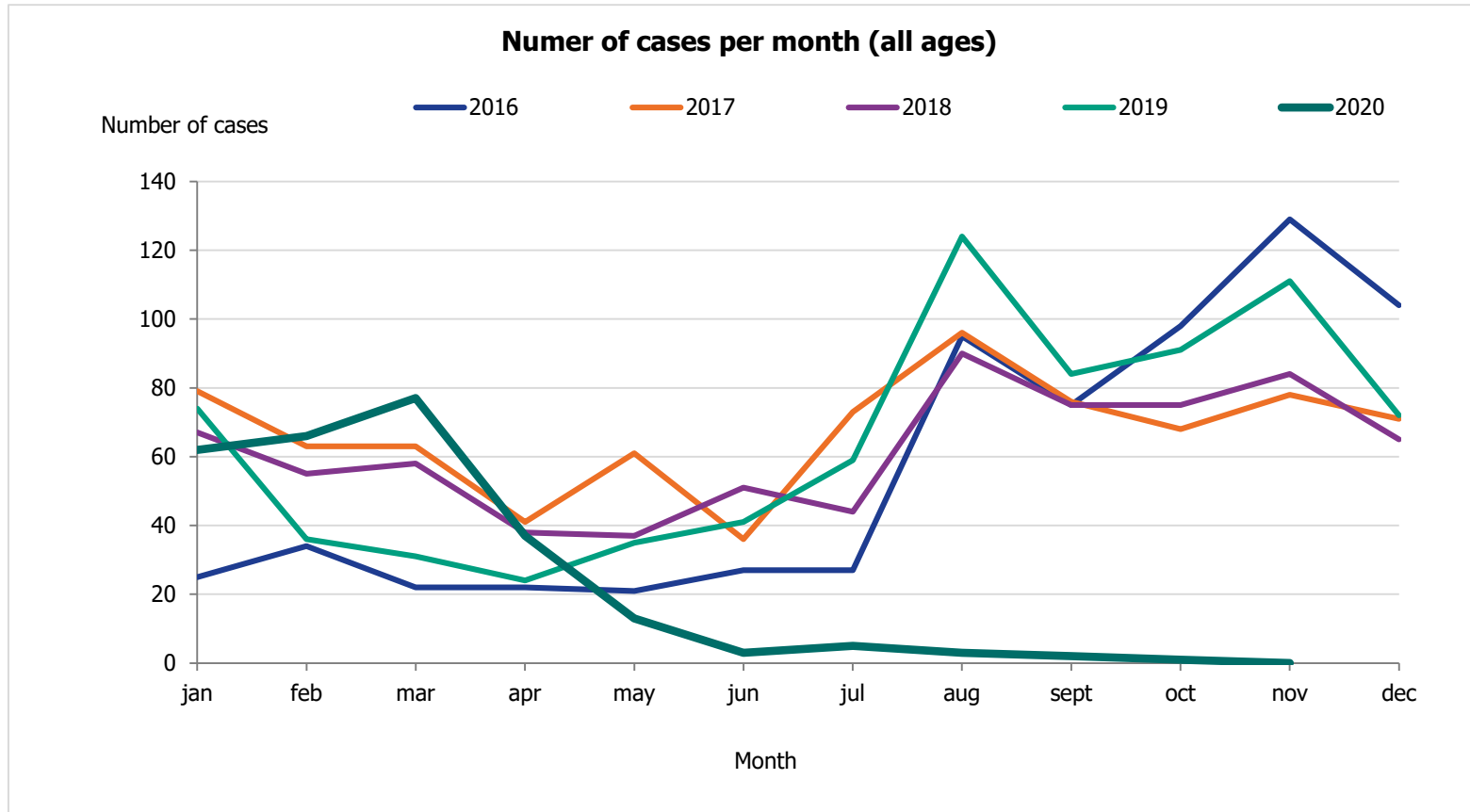
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Kikhosta



Övervakning av andra smittsamma sjukdomar (droppsmitta) visar på kraftigt minskad smittspridning



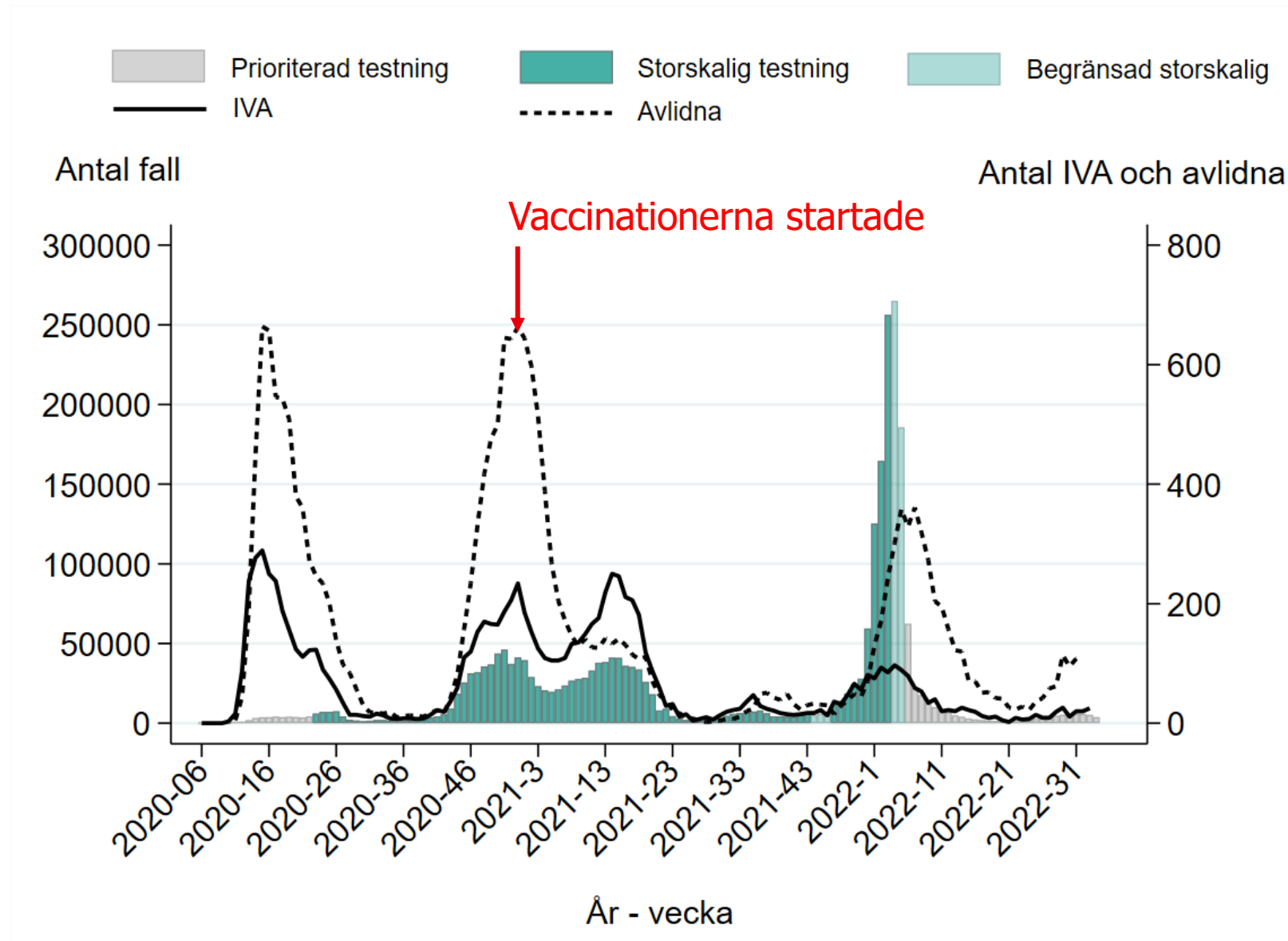
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Covid-19 i Sverige 2022 - nu



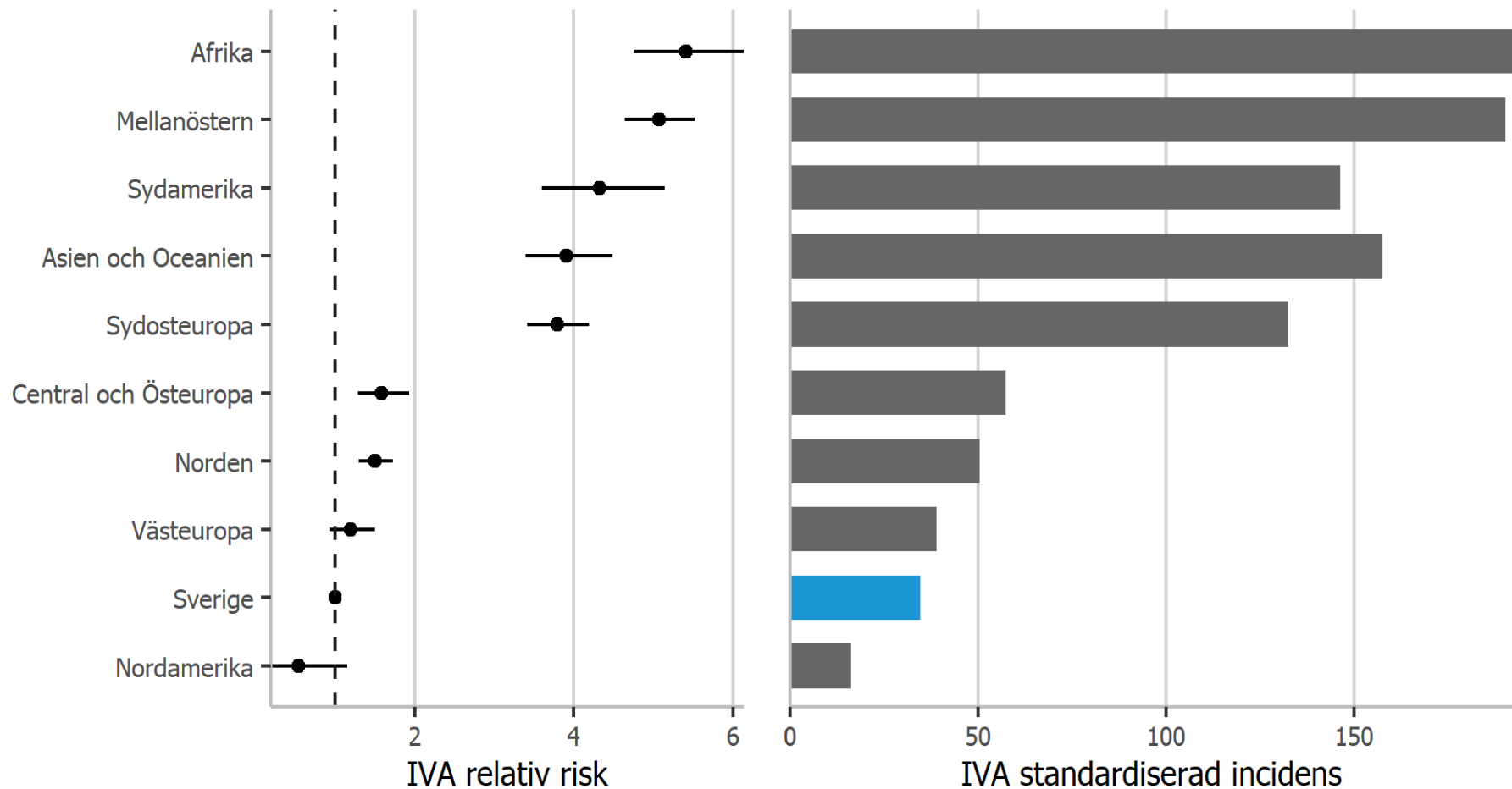
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Relative Risk and Standardised Incidence for needing ICU-care for persons according to country/region of birth



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Areas affected

- The elderly
 - Excess mortality in institutions
 - Isolation
 - Mental health etc



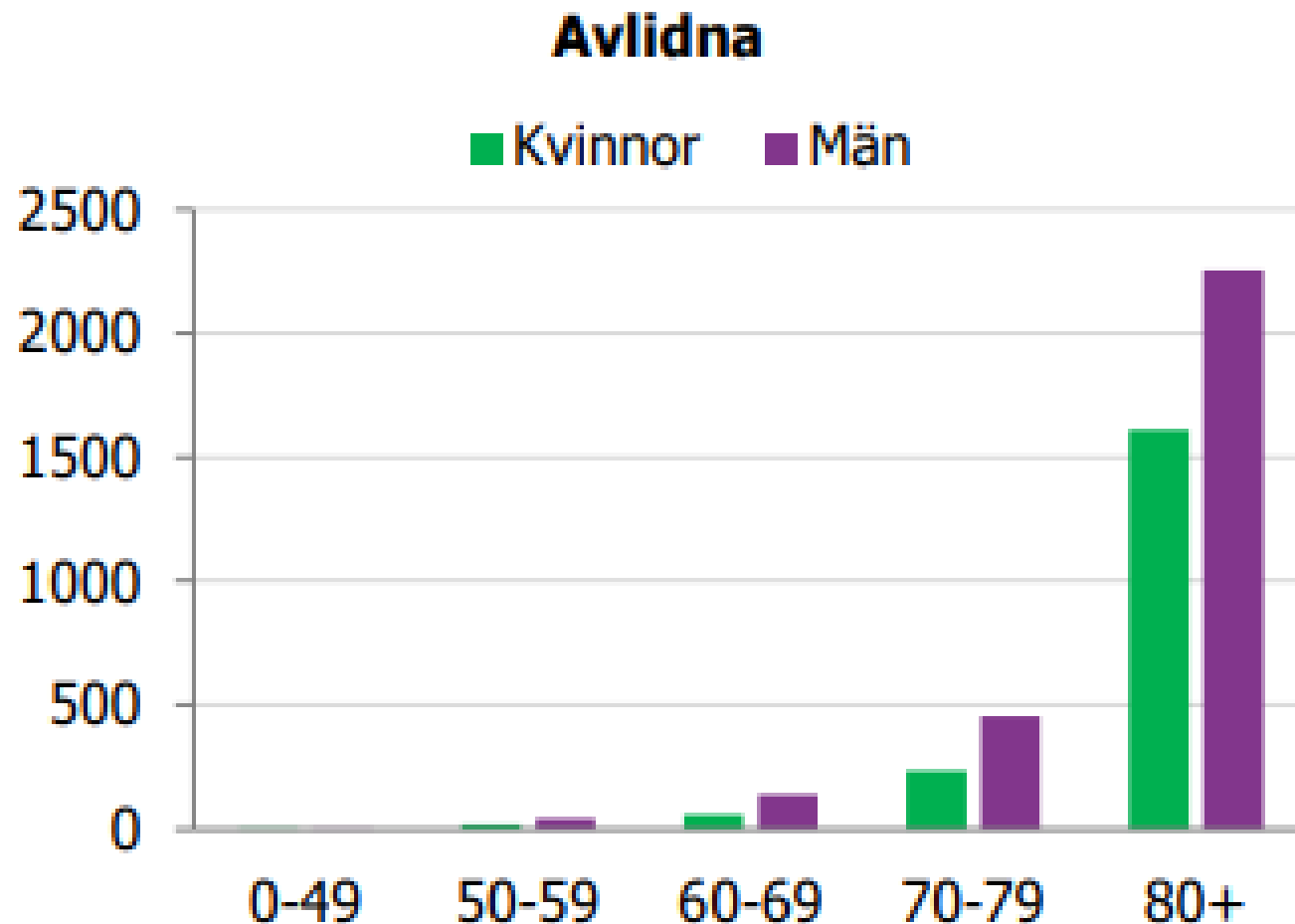
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Ålder och kön den största riskfaktorn



Avlidna med covid-19 (antal per 100 000), fördelat på ålder och kön, 2020 och 2021.



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Mortality in the elderly

| age | number | | % that died |
|----------------------------------|--------|------|-------------|
| 70-74 | 1 436 | 9,9 | 0,27 |
| 75-79 | 2 255 | 15,6 | 0,47 |
| 80-84 | 3 057 | 21,1 | 1,05 |
| 85-89 | 3 516 | 24,3 | 2,07 |
| Socialtjänstensinsats/boendeform | | | |
| Särskilt boende | 6 413 | 44,2 | 7,13 |
| Hemtjänst | 4 133 | 28,5 | 2,07 |



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| Åldersgrupp | Fall senaste 7 dagarna | 7 dagars kumulativ incidens per 100,000 invånare | 14 dagars kumulativ incidens per 100,000 invånare | Procentuell förändring 7 senaste dgr mot 7 dgr innan* |
|-------------|------------------------|--|---|---|
| 0-9 år | 92 | 8 | 15 | 5 |
| 10-19 år | 106 | 9 | 20 | -23 |
| 20-29 år | 679 | 52 | 110 | -9 |
| 30-39 år | 759 | 54 | 109 | -1 |
| 40-49 år | 752 | 58 | 113 | 4 |
| 50-59 år | 878 | 67 | 139 | -6 |
| 60-69 år | 570 | 52 | 109 | -10 |
| 70-79 år | 474 | 47 | 108 | -23 |
| 80-89 år | 618 | 139 | 312 | -20 |
| 90+ år | 289 | 291 | 625 | -13 |
| Total | 5217 | 50 | 106 | -9 |



Areas affected

- Hard to reach
 - A heterogenous group
 - Affected more than others
 - Lower vaccin coverage
 - Similarities with other areas of public health



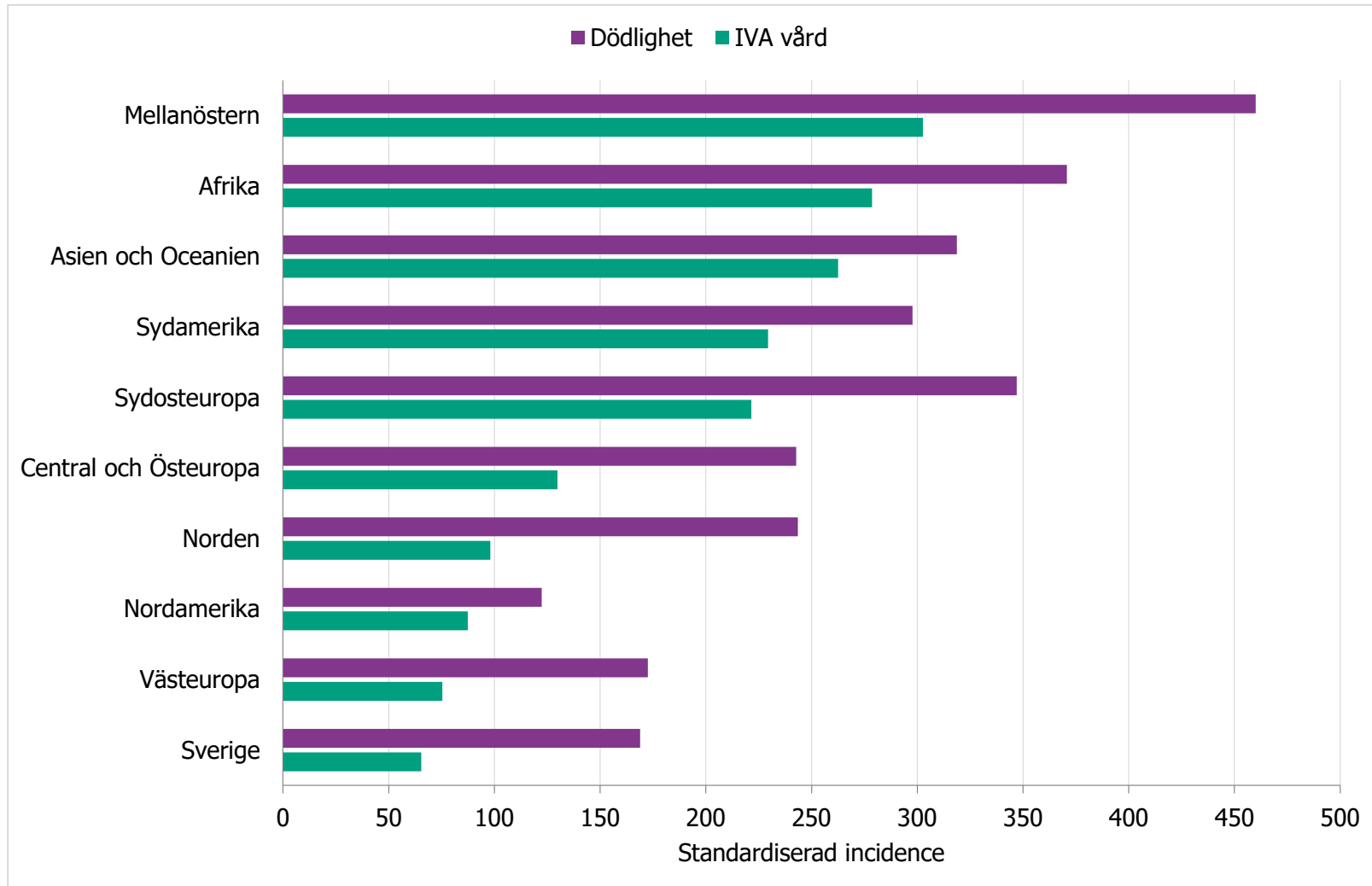
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Demografi och sjuklighet i Covid-19



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Den psykiska hälsan har varit relativt stabil i Sverige under pandemin



- Relativt stabil psykisk hälsa i befolkningen 2020-21
- Samma mönster vad det gäller psykisk ohälsa finns som före pandemin



Varningsflaggor:

- Tecken på ökad stress, ffa för unga kvinnor under 2021
- I vissa grupper finns det tecken på ökad psykisk ohälsa



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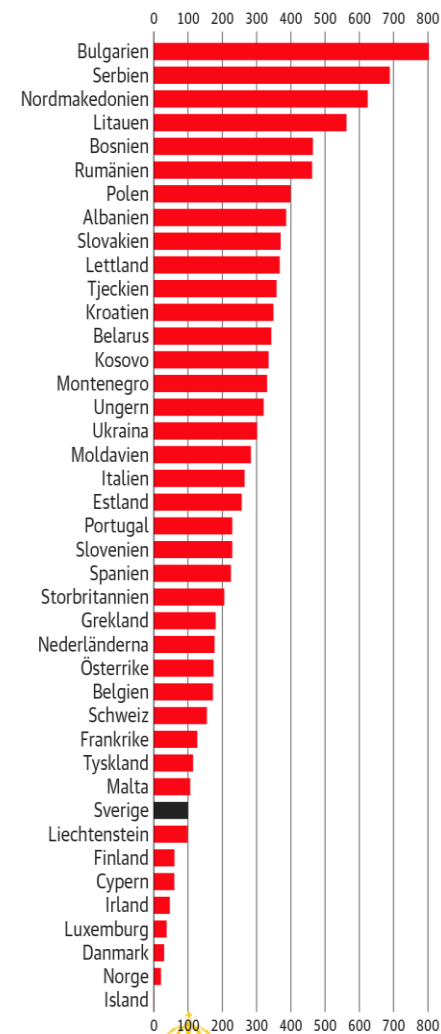


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Hur drabbades vi?

- Pandemin har haft ett högt pris globalt och nationellt
- Sverige relativt hög sjuklighet och dödlighet i covid-19 under våren 2020
- Sverige bland den lägsta överdödlighet i EU totalt under pandemiåren 2020-2022
- Vissa grupper i samhället har drabbats särskilt hårt av covid – livsvillkor och den underliggande hälsan har varit avgörande
- Folkhälsan i Sverige överlag god – men vi ser sannolikt inte alla konsekvenserna ännu





Introduction

Excess deaths by age groups in the U.S. and peer countries during the pandemic

Causes of excess mortality

Excess potential years of life lost during the pandemic in the U.S. and peer countries

Discussion

Excess Potential Years of Life Lost in 2020, per 100,000 People in Age Group

| | Ages 0-14 | Ages 15-64 | Ages 65-74 | All, Ages 0-74 |
|-------------|-----------|------------|------------|----------------|
| U.S. | -367 | 1,446 | 2,313 | 1,171 |
| U.K. | -279 | 632 | 944 | 488 |
| Canada | 364 | 339 | 722 | 384 |
| Austria | -33 | 229 | 499 | 215 |
| Belgium | -702 | 153 | 1,404 | 131 |
| Netherlands | 35 | -21 | 749 | 80 |
| Switzerland | 120 | -1 | 307 | 51 |
| France | -216 | -66 | 1,033 | 32 |
| Germany | -91 | -4 | 373 | 26 |
| Sweden | 9 | -93 | -46 | -67 |
| Australia | -127 | -89 | 69 | -82 |

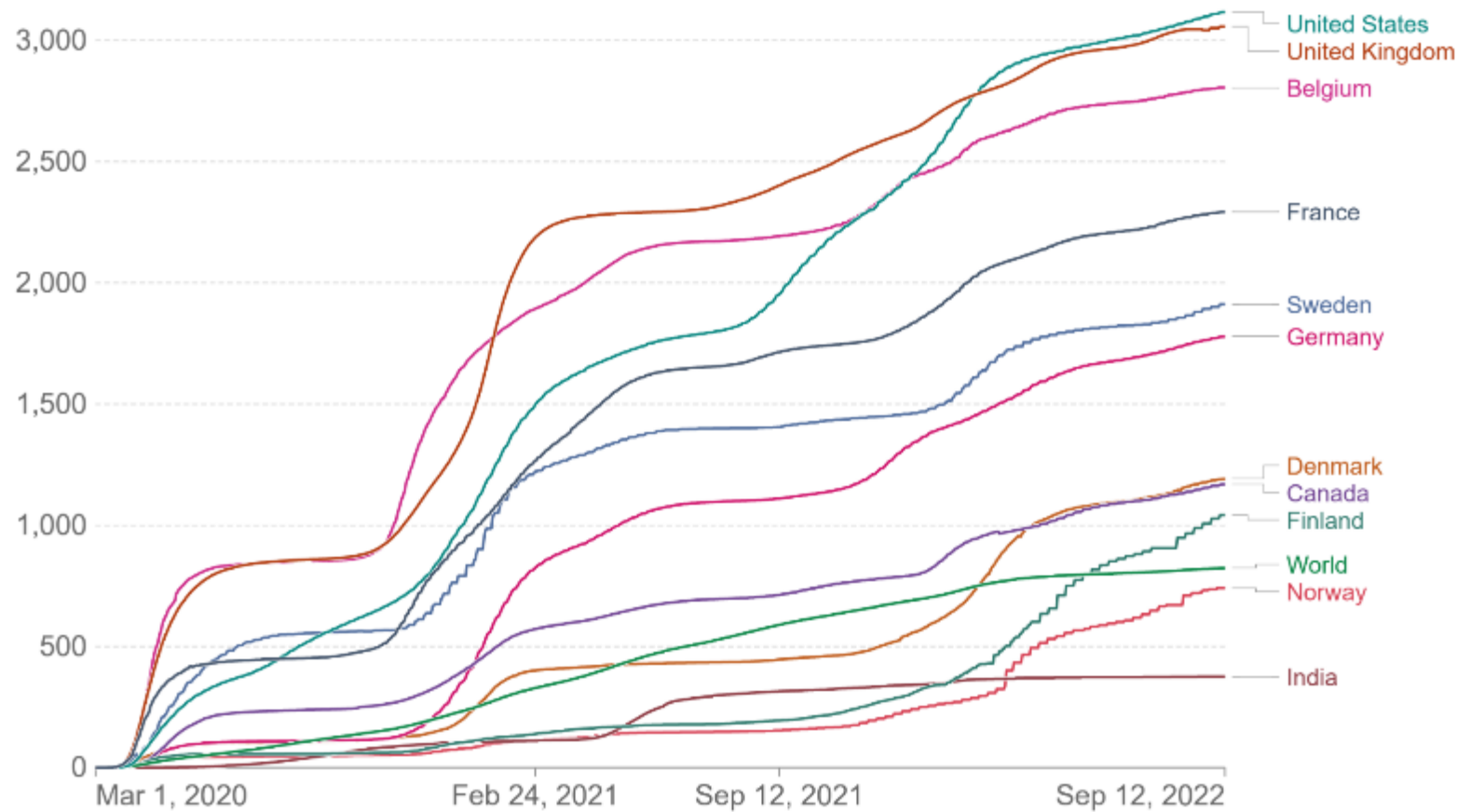
Notes: Excess potential years of life lost rates are per 100,000 people within age group in each country. Excess potential years of life lost were calculated up to age limit of 75. Excess deaths were summed within each age group for 2020 MMWR weeks 1-52.

Source: [KFF analysis of the Human Mortality Database](#) • [Get the data](#) • PNG



Cumulative confirmed COVID-19 deaths per million people

Due to varying protocols and challenges in the attribution of the cause of death, the number of confirmed deaths may not accurately represent the true number of deaths caused by COVID-19.



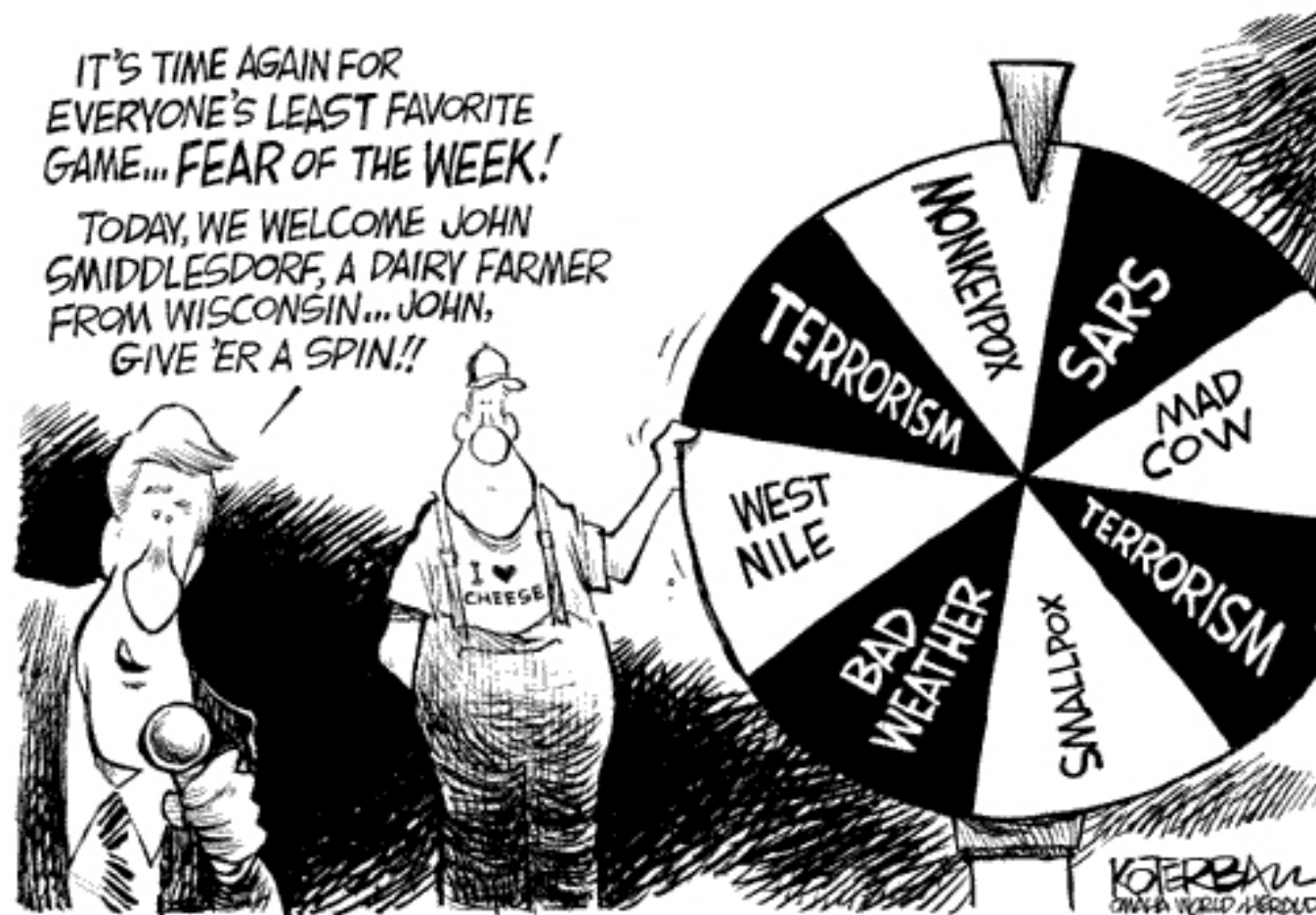
Hannah Ritchie, Edouard Mathieu, Lucas Rodés-Guirao, Cameron Appel, Charlie Giattino, Esteban Ortiz-Ospina, Joe Hasell, Bobbie Macdonald, Diana Beltekian and Max Roser (2020) - "Coronavirus Pandemic (COVID-19)". Published online at OurWorldInData.org. Retrieved from: <https://ourworldindata.org/coronavirus> [Online Resource]



SARS – Some Lessons

- Nature is inventive and unpredictable
- Next crisis a plane ride away
- Hospitals = Magnifiers of risk
- Economic Impacts - (contagion fear) exceed and last beyond other disasters
- Role of Media- hinder and help?
- Communications - public and players
- Underlying Chronic Disease=Mortality
- Leadership, coordination, communication vital in public health emergencies
- Strong infrastructure, expertise and surge capacity is essential

Vad händer nästa gång?



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