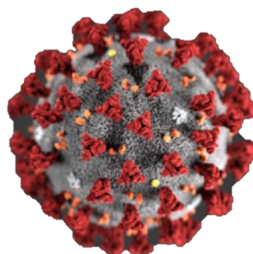


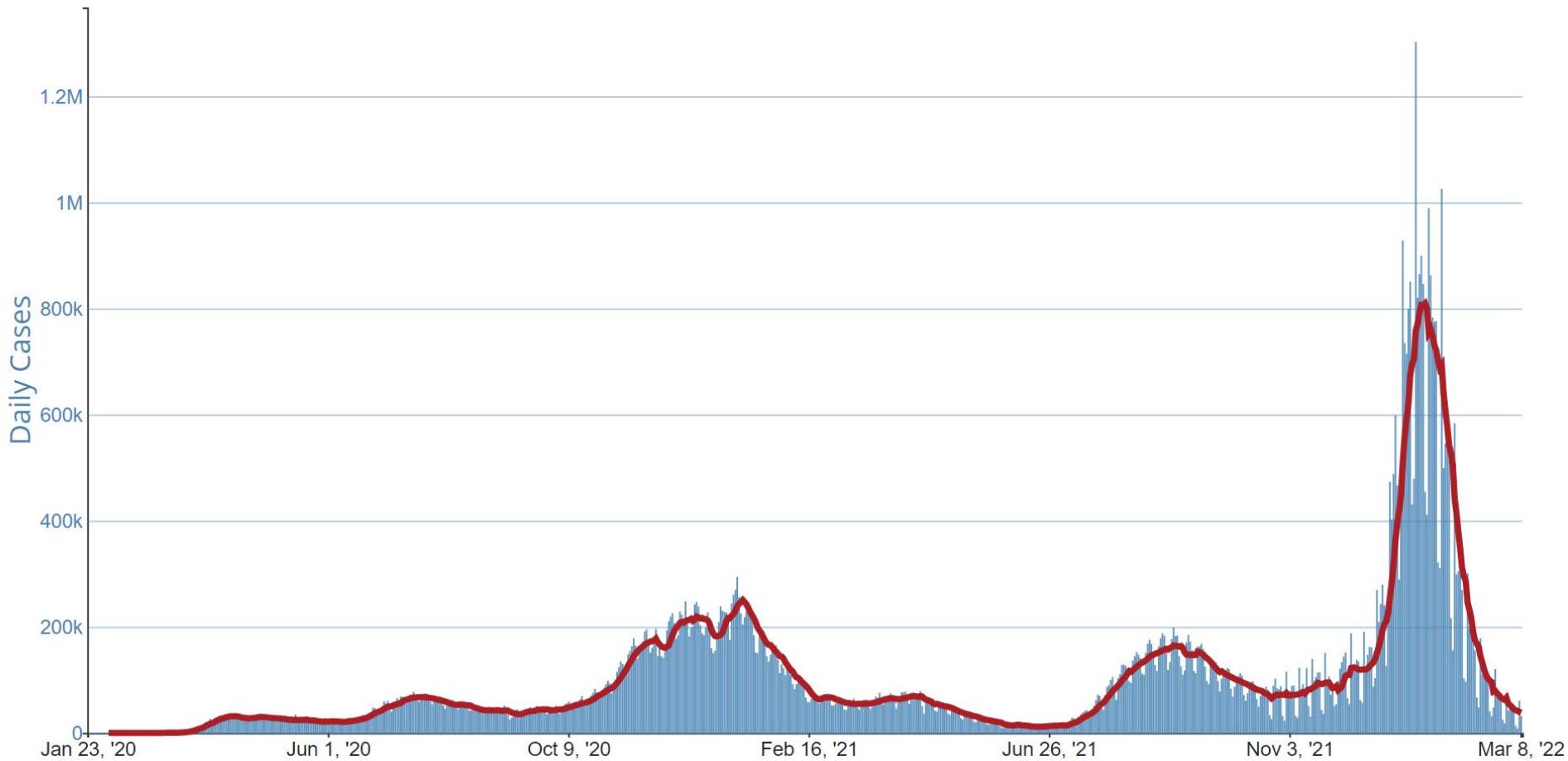
New Hampshire COVID-19 Healthcare Provider and Public Health Partner Call

March 10, 2022



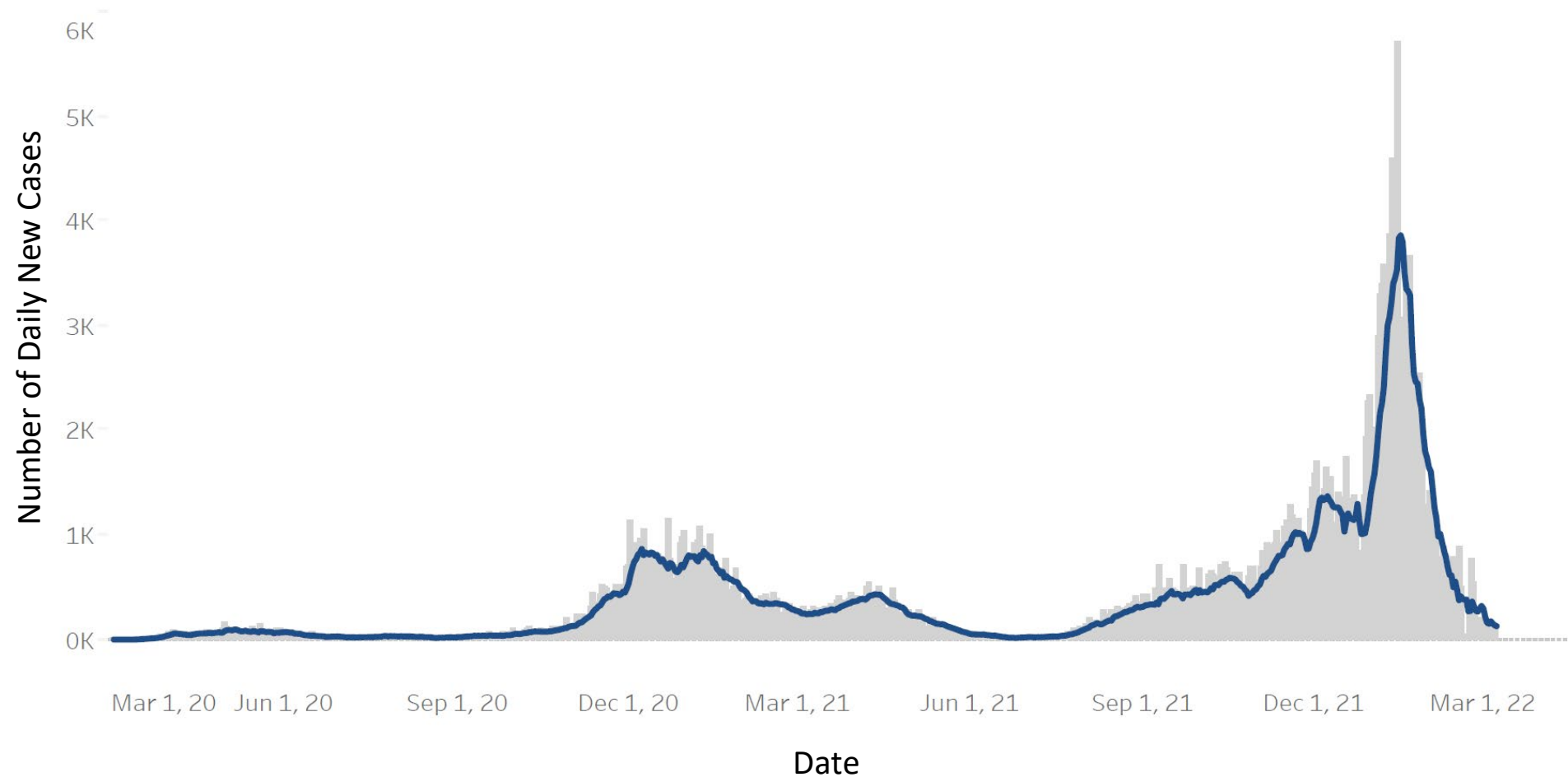
Epidemiology Update

U.S. National Daily Incidence of COVID-19



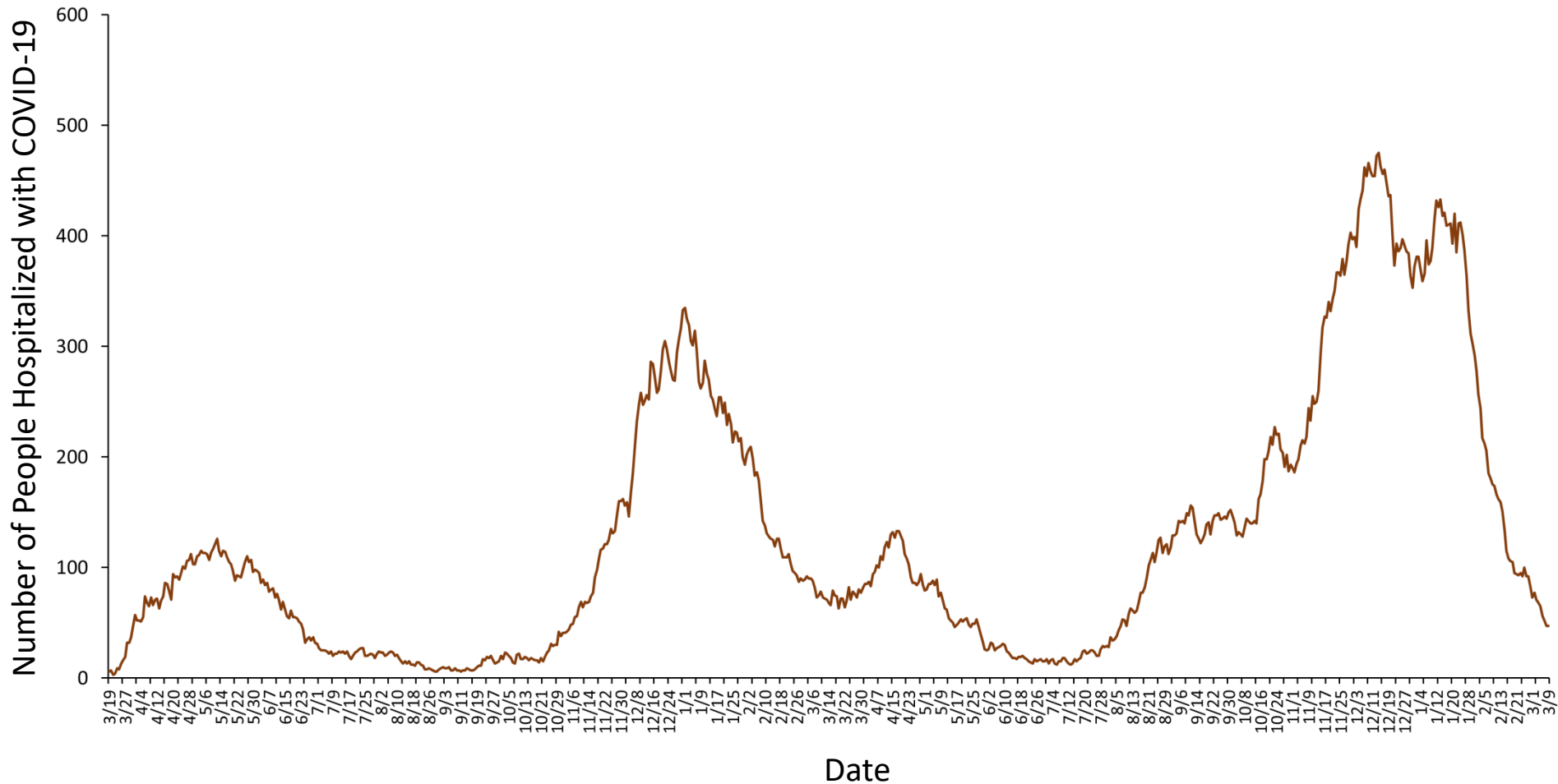
https://covid.cdc.gov/covid-data-tracker/#trends_dailytrendscases

Number of New COVID-19 Cases per Day in NH



<https://www.nh.gov/covid19/dashboard/overview.htm#dash>

Number of People Hospitalized with COVID-19 Each Day in NH (Hospital Census)



<https://www.nh.gov/covid19/dashboard/overview.htm#dash>

Average Number of COVID-19 Deaths per Day in NH (Based on Date of Death)

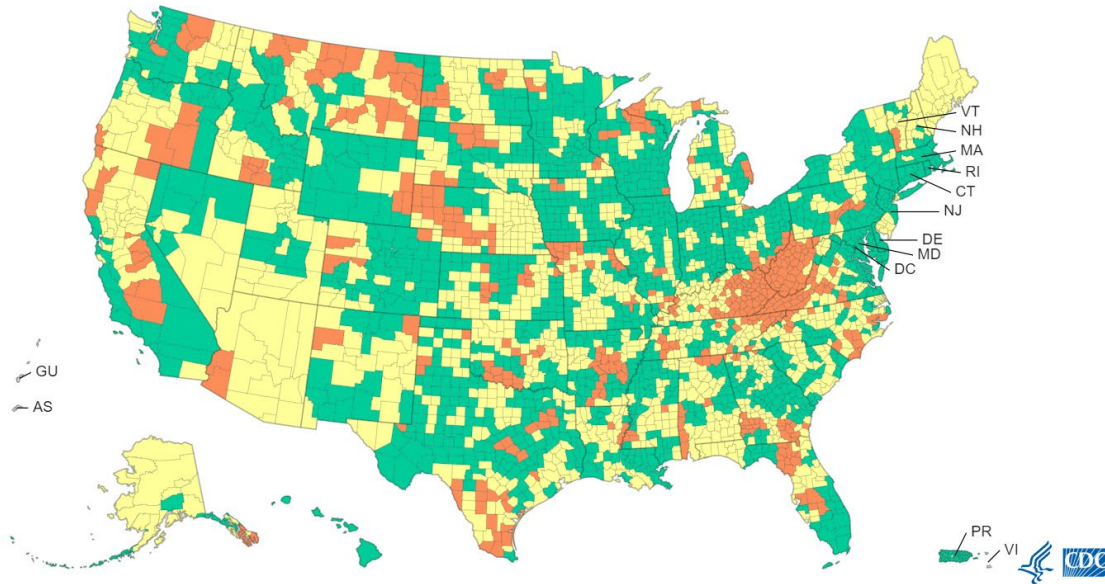


<https://www.nh.gov/covid19/dashboard/overview.htm#dash>

U.S. COVID-19 Community Levels by County Map

Updated Mar. 3, 2022 Languages Print

Data provided by CDC
Updated: March 3, 2022



Legend

- High
- Medium
- Low

Data Table (Scroll right for additional data)



Download Data (CSV)



CDC's COVID-19 Community Level Metrics

COVID-19 Community Levels – Use the Highest Level that Applies to Your Community

New COVID-19 Cases Per 100,000 people in the past 7 days	Indicators	Low	Medium	High
Fewer than 200	New COVID-19 admissions per 100,000 population (7-day total)	<10.0	10.0-19.9	≥20.0
	Percent of staffed inpatient beds occupied by COVID-19 patients (7-day average)	<10.0%	10.0-14.9%	≥15.0%
200 or more	New COVID-19 admissions per 100,000 population (7-day total)	NA	<10.0	≥10.0
	Percent of staffed inpatient beds occupied by COVID-19 patients (7-day average)	NA	<10.0%	≥10.0%

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COVID-19 Community Level Metrics by NH County (3/3/22)

County Name	Inpatient Bed Utilization	Hospital Admissions per 100k	Cases per 100k	COVID-19 Community Level
Belknap County, NH	3.70%	7.4	190.86	Low
Carroll County, NH	3.70%	7.4	255.57	Medium
Cheshire County, NH	7.90%	3.4	218.18	Medium
Coos County, NH	0.00%	0	361.18	Medium
Grafton County, NH	3.40%	9.8	325.97	Medium
Hillsborough County, NH	3.70%	7.4	197.11	Low
Merrimack County, NH	3.70%	7.4	201.47	Medium
Rockingham County, NH	2.60%	4.1	194.66	Low
Strafford County, NH	7.60%	3	414.14	Medium
Sullivan County, NH	3.40%	9.8	250.31	Medium

CDC's Healthcare Infection Prevention and Control Guidance

- Still based on the older “Level of Community Transmission” metrics

Interim Infection Prevention and Control Recommendations for Healthcare Personnel During the Coronavirus Disease 2019 (COVID-19) Pandemic

Updated Feb. 2, 2022 [Print](#)

CDC's new [COVID-19 Community Levels](#) recommendations do not apply in healthcare settings, such as hospitals and nursing homes. Instead, healthcare settings should continue to use [community transmission rates](#) and continue to follow CDC's infection prevention and control recommendations for healthcare settings.

NH COVID-19 HAN, Update #58: Paxlovid & Molnupiravir Distribution

Prescribing Requirements

- Providers must be familiar with prescribing indications and requirements:
 - Paxlovid:
 - FDA's [Fact Sheet for Healthcare Providers](#)
 - FDA's [Fact Sheet for Patients, Parents and Caregivers](#) (must be provided to patients and caregivers prior to prescribing Paxlovid)
 - Molnupiravir:
 - FDA's [Fact Sheet for Healthcare Providers](#)
 - FDA's [Fact Sheet for Patients and Caregivers](#) (must be provided to patients and caregivers prior to prescribing molnupiravir)

Accessing Paxlovid and Molnupiravir

- These two oral antiviral medications are now being allocated to certain commercial pharmacies in New Hampshire, and are available through routine prescribing
 - Molnupiravir can currently be prescribed through certain Walgreens, CVS, and Rite Aid pharmacies
 - Paxlovid will be available at Walgreens pharmacy locations over the next two weeks (see Table 1 in HAN)
 - The federal [COVID-19 Test to Treat](#) program is also allocating Paxlovid and molnupiravir to certain CVS Minute Clinic locations starting this week (see Table 2 in HAN)
 - As allocations increase, distribution will expand to other pharmacy locations. Providers should check the federal HHS [COVID-19 Therapeutics Locator](#) for availability of therapeutics by location

Table 1: Paxlovid Distribution to NH Walgreens Pharmacies

Pharmacy	Address	City	State	Zip
Distributed 3/9/2022				
Walgreens	288 SANDOWN RD	EAST HAMPSTEAD	NH	03860
Walgreens	48 PORTSMOUTH AVE	EXETER	NH	03833
Walgreens	440 WEST ST	KEENE	NH	03431
Walgreens	620 LAFAYETTE RD	HAMPTON	NH	03842
Walgreens	104 S MAIN ST	ROCHESTER	NH	03867
Walgreens	606 VALLEY ST	MANCHESTER	NH	03102
Walgreens	3 AIRPORT RD	WEST LEBANON	NH	03784
Walgreens	12 MAIN ST	EPPING	NH	03042
Walgreens	283 MAIN STREET	NASHUA	NH	03063
Walgreens	45 COURT ST	LACONIA	NH	03246
Walgreens	274 DELLS RD	LITTLETON	NH	03561
Walgreens	571 NASHUA ST	MILFORD	NH	03055
Walgreens	1498 WHITE MOUNTAIN hwy	NORTH CONWAY	NH	03860
Walgreens	1 GLENWOOD AVE	DOVER	NH	03820
Walgreens	142 LOUDON RD	CONCORD	NH	03301
Walgreens	14 PINNACLE LN	WALPOLE	NH	03608
Walgreens	177 MAIN STREET	LANCASTER	NH	03584
Walgreens	50 SOUTH MAIN STREET	WOLFEBORO	NH	03894
Walgreens	200 PLEASANT STREET	BERLIN	NH	03570
Walgreens	91 MAIN STREET	COLEBROOK	NH	03576
Walgreens	910 ROUTE 16	OSSIPEE	NH	03814
To Be Distributed 3/16/2022				
Walgreens	167 S BROADWAY	SALEM	NH	03079
Walgreens	227 S MAIN ST	MANCHESTER	NH	03102
Walgreens	131 NASHUARD	LONDONDERRY	NH	03053
Walgreens	258 WALLACE RD	BEDFORD	NH	03110
Walgreens	550 AMHERST ST	NASHUA	NH	03063
Walgreens	615 DANIEL WEBSTER HWY	MERRIMACK	NH	03054
Walgreens	1298 HOOKSETT RD	HOOKSETT	NH	03106
Walgreens	91 CALEF HWY	LEE	NH	03861
Walgreens	4 SANBORN RD	TILTON	NH	03276
Walgreens	53 ROUTE 27	RAYMOND	NH	03077
Walgreens	217 DANIEL WEBSTER HIGHWAY	NASHUA	NH	03063
Walgreens	90 DERRY STREET	HUDSON	NH	03051
Walgreens	151 BRIDGE STREET	PELHAM	NH	03076
Walgreens	3 PLAISTOW RD	PLAISTOW	NH	03865

Table 2: Current Federal COVID-19 Test to Treat CVS Minute Clinic Locations

Pharmacy	Address	City	State	Zip
CVS Minute Clinic	4 Hall St	Concord	NH	03301
CVS Minute Clinic	214 Daniel Webster Highway	Nashua	NH	03060
CVS Minute Clinic	512 South Broadway	Salem	NH	03079
CVS Minute Clinic	250 Mammoth Rd	Manchester	NH	03109
CVS Minute Clinic	321A Lafayette Rd	Hampton	NH	03842
CVS Minute Clinic	50 STERLING WAY	DOVER	NH	03820

COVID-19 Therapeutics Locator

The national map below displays public locations that have received shipments of U.S. Government-procured COVID-19 therapeutics under U.S. Food and Drug Administration (FDA) Emergency Use Authorization (EUA) authority. The long-acting antibody combination, Evusheld; monoclonal antibody treatments, bebtelovimab and sotrovimab; as well as the oral antiviral therapies, Paxlovid and molnupiravir are products authorized by the FDA for either prevention ([Evusheld](#)) or treatment ([Paxlovid](#), [sotrovimab](#), [bebtelovimab](#), and [molnupiravir](#)) of COVID-19. The locations displayed in the locator have reported available courses within the last 7 days.

As of January 24, 2022, allocations of bamlanivimab/etesevimab and REGEN-COV have been paused following [FDA's revised EUAs for both products limiting their use due to the omicron variant](#).

These therapies require a prescription by a licensed and authorized provider. The therapeutics locator is intended for provider use. Patients should not contact locations directly unless instructed to do so by their healthcare provider.

Additional resources and information related to [COVID-19 Therapeutics](#) currently distributed by the federal government can be found on the [ASPR COVID-19 Therapeutics page](#). For questions regarding this site, contact HPOP.Therapeutics@hhs.gov.

Find Locations

Search by therapy and by zip code to find potential locations.

State, Territory, or Jurisdiction
All
Therapeutic Selector
All

Locations
21,429

Use search glass below to find locations near an address.

*LAPINCARE
1339 EAST 21 ST, BROOKLYN, NY 11210
Sotrovimab, Product #00173-0901-86
6 Available

1237 - PIEDMONT HEALTHCARE
375 Hospital Street, Mocksville, NC 27028
Paxlovid, Product #00069-1085-30
12 Available

1237 - PIEDMONT HEALTHCARE
375 Hospital Street, Mocksville, NC 27028
Molnupiravir, Product #00006-5055-06
29 Available

13th Ave Pharmacy
5211 13th Ave, Brooklyn, NY 11219
Sotrovimab, Product #00173-0901-86
12 Available

17225-FARMACIA HEIDI
CALLE COLON # 260, AGUADA, PR 00602
Molnupiravir, Product #00006-5055-06
56 Available

17225-FARMACIA HEIDI
CALLE COLON # 260, AGUADA, PR 00602
Paxlovid, Product #00069-1085-30
20 Available

307 Infusion Pharmacy, LLC
1030 N. Poplar St, Casper, WY 82601
Sotrovimab, Product #00173-0901-86
6 Available

38TH STREET PHARMACY

Evusheld
Available: 169,090

Molnupiravir
Available: 801,341

Paxlovid
Available: 201,163

Bebtelovimab
Available: 37,660

Sotrovimab
Available: 129,323

Esri, FAO, NOAA | CDC, HHS | HHS
Powered by Esri

COVID-19 Therapeutics Locator



Therapeutic Distribution Locator for Provider Use
State, Territory, or Jurisdiction: All
Therapeutic Selector: All

Locations
21,429

*LAPINCARE 1339 EAST 21 ST, BROOKLYN, NY 11210 Sotrovimab, Product #00173-0901-86 6 Available
1237 - PIEDMONT HEALTHCARE 375 Hospital Street, Mocksville, NC 27028 Paxlovid, Product #00069-1085-30 12 Available
1237 - PIEDMONT HEALTHCARE 375 Hospital Street, Mocksville, NC 27028 Molnupiravir, Product #00006-5055-06 29 Available
13th Ave Pharmacy 5211 13th Ave, Brooklyn, NY 11219 Sotrovimab, Product #00173-0901-86 12 Available
17225-FARMACIA HEIDI CALLE COLON # 260, AGUADA, PR 00602 Molnupiravir, Product #00006-5055-06 56 Available
17225-FARMACIA HEIDI CALLE COLON # 260, AGUADA, PR 00602 Paxlovid, Product #00069-1085-30 20 Available
307 Infusion Pharmacy, LLC 1030 N. Poplar St, Casper, WY 82601 Sotrovimab, Product #00173-0901-86 6 Available
38TH STREET PHARMACY

Use search glass below to find locations near an address

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Molnupiravir Available: 801,341
Paxlovid Available: 201,163
Bebtelovimab Available: 37,660
Sotrovimab Available: 129,323

Esri, FAO, NOAA | CDC, HHS | HHS
Powered by Esri

<https://covid-19-therapeutics-locator-dhhs.hub.arcgis.com/>

COVID-19 Therapeutics Locator



Therapeutic Distribution Locator for Provider Use
State, Territory, or Jurisdiction
New Hampshire
Therapeutic Selector
All

Locations

165

- ACHS - Littleton
25 Mount Eustis Rd, Littleton, NH 03561
Paxlovid, Product #00069-1085-30
38 Available
- ALICE PECK DAY MEMORIAL HOSPITAL
10 ALICE PECK DAY DRIVE, LEBANON, NH 03766
Sotrovimab, Product #00173-0901-86
19 Available
- ANDROSCOGGIN VALLEY HOSPITAL
59 PAGE HILL ROAD, BERLIN, NH 03570
Sotrovimab, Product #00173-0901-86
12 Available
- Androscoggin Valley Hospital
59 Page Hill, Berlin, NH 03570
Bebtelovimab, Product #00002-7589-01
5 Available
- Androscoggin Valley Hospital
59 Page Hill, Berlin, NH 03570
Evusheld, Product #00310-7442-02
70 Available
- Androscoggin Valley Hospital
59 Page Hill, Berlin, NH 03570
Paxlovid, Product #00069-1085-30
24 Available
- CATHOLIC MEDICAL CENTER
100 MCGREGOR STREET, MANCHESTER, NH 03102
Sotrovimab, Product #00173-0901-86
22 Available
- CATHOLIC MEDICAL CENTER PHARMACY

🔍 Use search glass below to find locations near an address.

- ⊕
Evusheld
Available: 832
- ◆
Molnupiravir
Available: 2,832
- ⬢
Paxlovid
Available: 727
- **Bebtelovimab**
Available: 116
- **Sotrovimab**
Available: 454

COVID-19 Therapeutics Locator



Therapeutic Distribution Locator for Provider Use
State, Territory, or Jurisdiction
New Hampshire
Therapeutic Selector
All

Locations
165

ACHS - Littleton
25 Mount Eustis Rd, Littleton, NH 03561
Paxlovid, Product #00069-1085-30
38 Available

ALICE PECK DAY MEMORIAL HOSPITAL
10 ALICE PECK DAY DRIVE, LEBANON, NH 03766
Sotrovimab, Product #00173-0901-86
19 Available

ANDROSCOGGIN VALLEY HOSPITAL
59 PAGE HILL ROAD, BERLIN, NH 03570
Sotrovimab, Product #00173-0901-86
12 Available

Androscoggin Valley Hospital
59 Page Hill, Berlin, NH 03570
Bebtelovimab, Product #00002-7589-01
5 Available

Androscoggin Valley Hospital
59 Page Hill, Berlin, NH 03570
Evusheld, Product #00310-7442-02
70 Available

Androscoggin Valley Hospital
59 Page Hill, Berlin, NH 03570
Paxlovid, Product #00069-1085-30
24 Available

CATHOLIC MEDICAL CENTER
100 MCGREGOR STREET, MANCHESTER, NH 03102
Sotrovimab, Product #00173-0901-86
22 Available

CATHOLIC MEDICAL CENTER PHARMACY

Use search glass below to find locations near an address.

⊕

◆

⬢

●

■

Paxlovid Available: 727

Bebtelovimab Available: 116

Sotrovimab Available: 454

COVID-19 Therapeutics Locator

Therapeutic Distribution Locator for Provider Use
State, Territory, or Jurisdiction
New Hampshire
Therapeutic Selector
Paxlovid

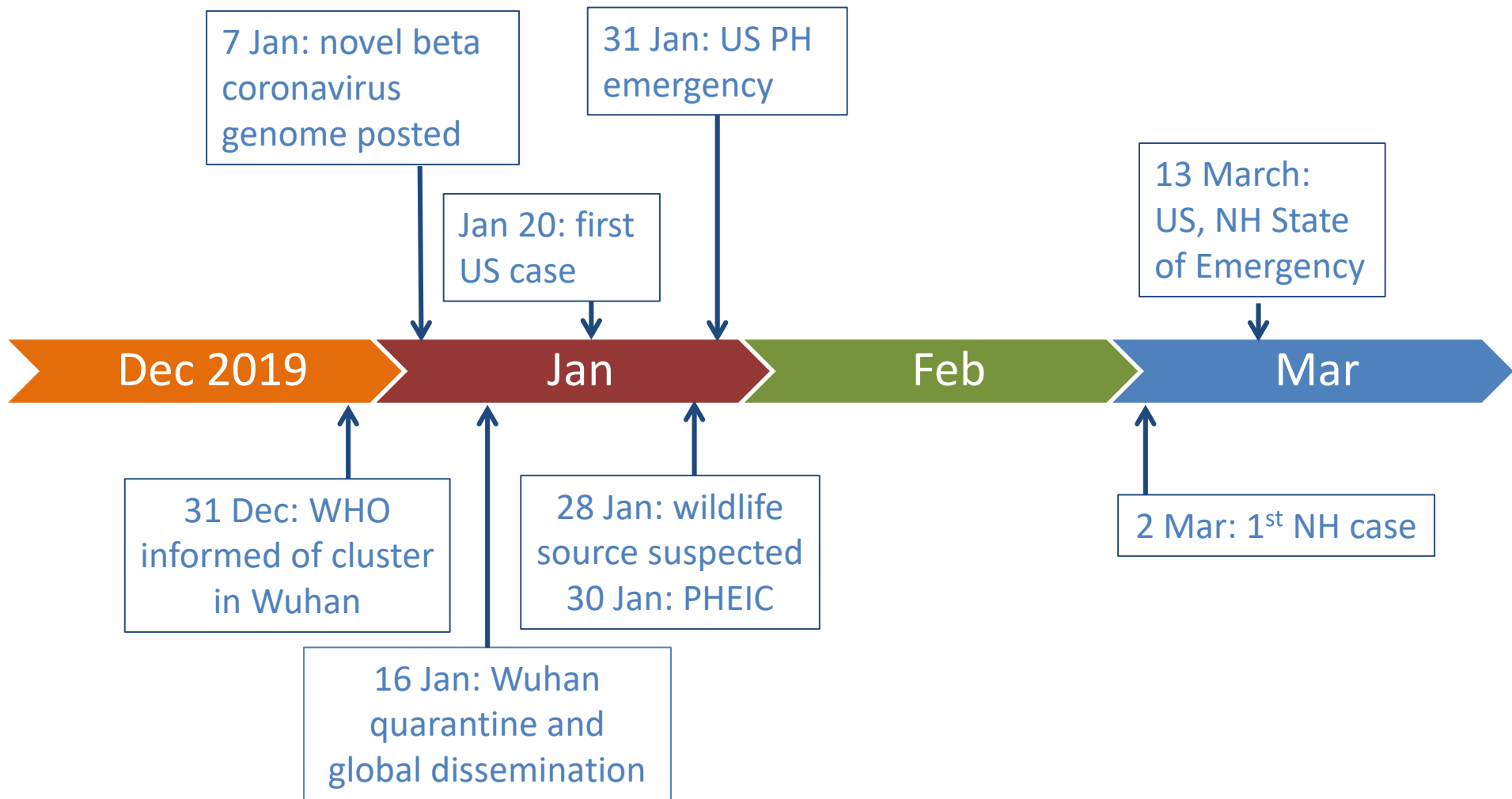
Locations
20

- ACHS - Littleton
25 Mount Eustis Rd, Littleton, NH 03561
Paxlovid, Product #00069-1085-30
38 Available
- Androscoggin Valley Hospital
59 Page Hill, Berlin, NH 03570
Paxlovid, Product #00069-1085-30
24 Available
- CATHOLIC MEDICAL CENTER PHARMACY
100 MCGREGOR ST, MANCHESTER, NH 03102-3730
Paxlovid, Product #00069-1085-30
40 Available
- Centerra Pharmacy
12 Centerra Parkway, Lebanon, NH 03756
Paxlovid, Product #00069-1085-30
51 Available
- Cheshire Medical Retail Pharmacy
580-90 Court Street, Keene, NH 03431
Paxlovid, Product #00069-1085-30
74 Available
- CONCORD HOSPITAL INPATIENT PHARMACY
250 Pleasant St, Concord, NH 03301
Paxlovid, Product #00069-1085-30
94 Available
- CORE PRIMARY CARE - STRATHAM
118 PORTSMOUTH AVE, STRATHAM, NH 03885-2487
Paxlovid, Product #00069-1085-30
20 Available
- COTTAGE HOSPITAL

🔍 Use search glass below to find locations near an address.

- ⊕
Evusheld
Available: 0
- ◆
Molnupiravir
Available: 0
- ⬠
Paxlovid
Available: 727
- **Bebtelovimab**
Available: 0
- **Sotrovimab**
Available: 0

SARS-CoV-2 Origins



Genome analysis

From a slide deck Feb 17 2020!

- Based on 24 genomes, lack of diversity points to single spillover from animals to humans
- Nov 2019 jump from reservoir to humans
- Animal reservoirs not confirmed
 - Most closely related to viruses in rhinolophid bats in Asia, Europe
 - Bridge reservoir?



Imai N, Cori, A, Dorigatti I, et al at WHO Collaborating Centre for Infectious Disease Modelling, MRC Centre for Global Infectious Disease Analysis, J-IDEA, Imperial College London, UK
[https://commons.wikimedia.org/wiki/File:Bat\(20070605\).jpg](https://commons.wikimedia.org/wiki/File:Bat(20070605).jpg)

GEISELMED.DARTMOUTH.EDU

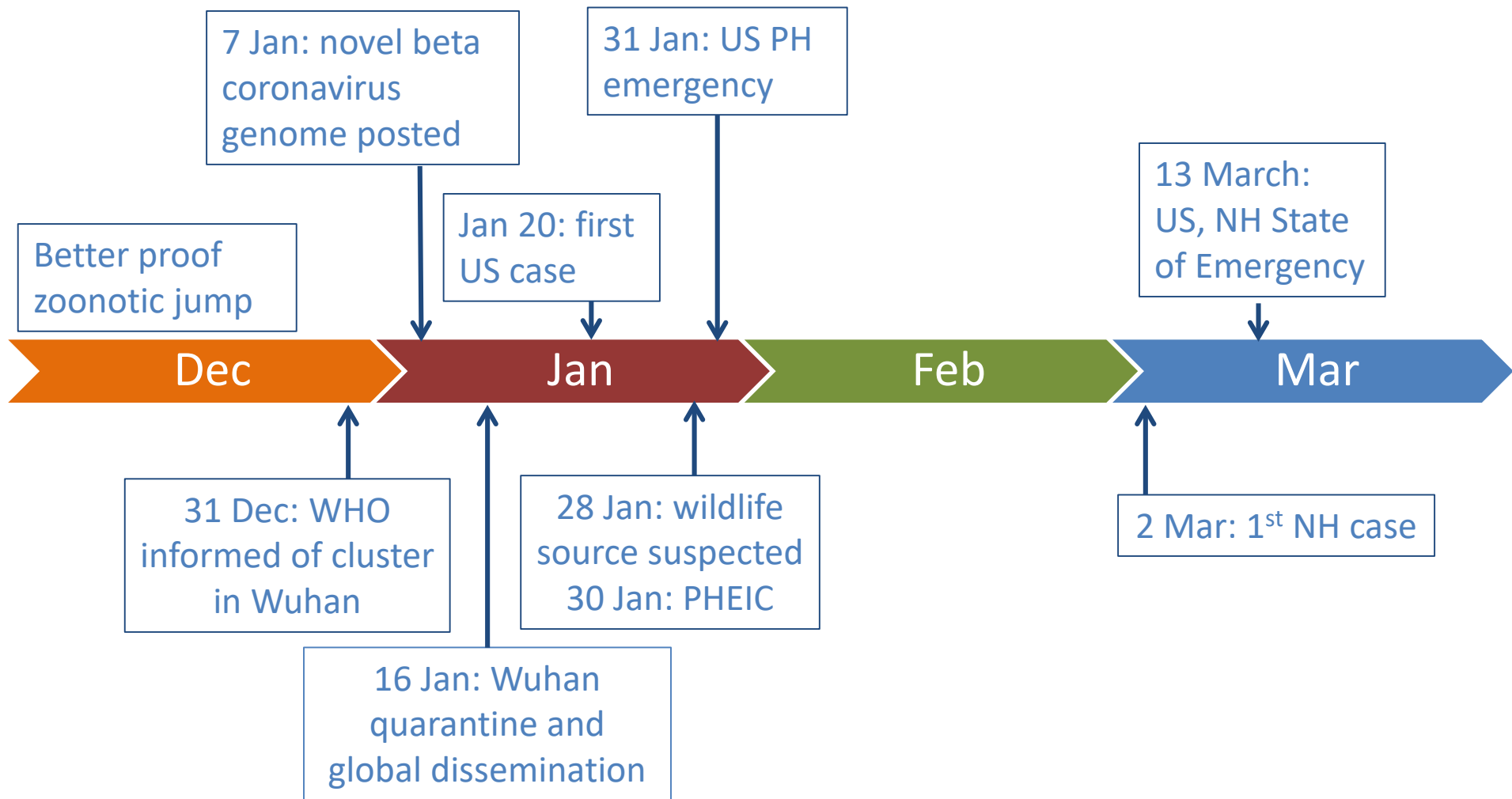
Origin of SARS-CoV-2

- Yet question of whether pandemic began with a spillover from wildlife sold at Market or a leak from a Wuhan virology lab has given rise to pitched geopolitical battles and debates over how best to stop the next pandemic
- Lines of evidence have consistently pointed to animal spillover at Wuhan Huanan Seafood Market:
 - First human case was a vendor in Market
 - Additional human clusters at Market
 - Virus found in wildlife areas of Market, but animals removed/culled before testing
 - Strains found in species that had been present



**MOST
EMERGING INFECTIOUS
DISEASES ARE ZOOONOTIC**

~75% of EIDs



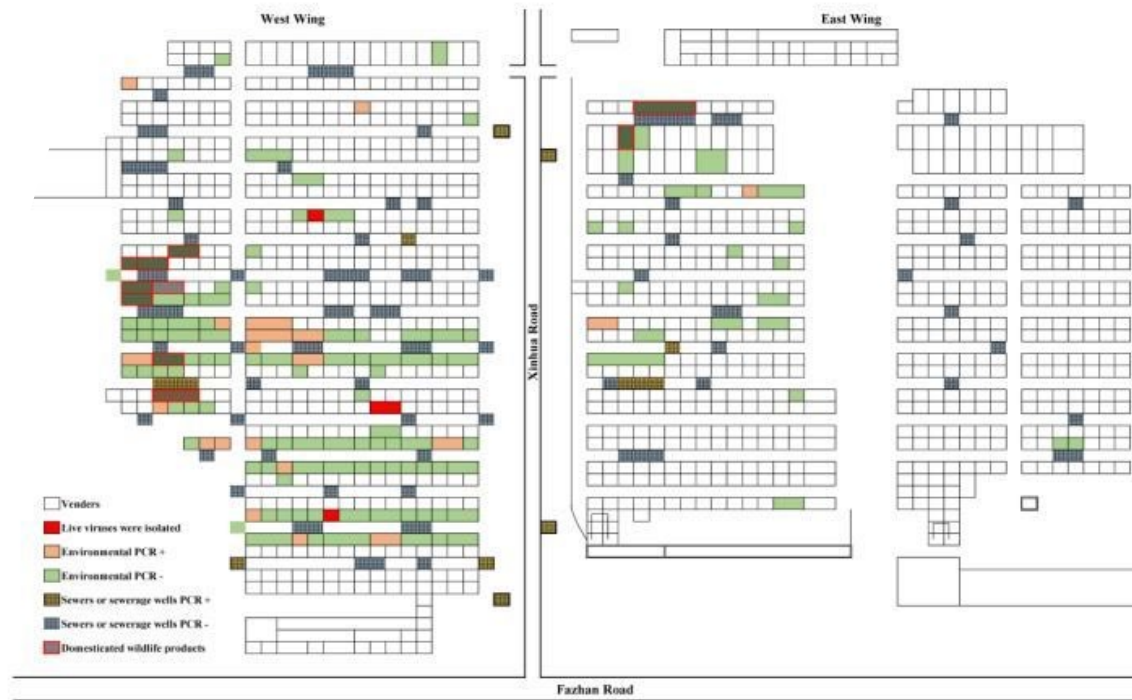
3 Recent Reports

- [Gao et al](#) analysis of genetic traces of coronaviruses collected at Market Jan 2020
- [Worobey et al](#) spatial and genomic analyses
- [Pekar et al](#) study of early genomic diversity

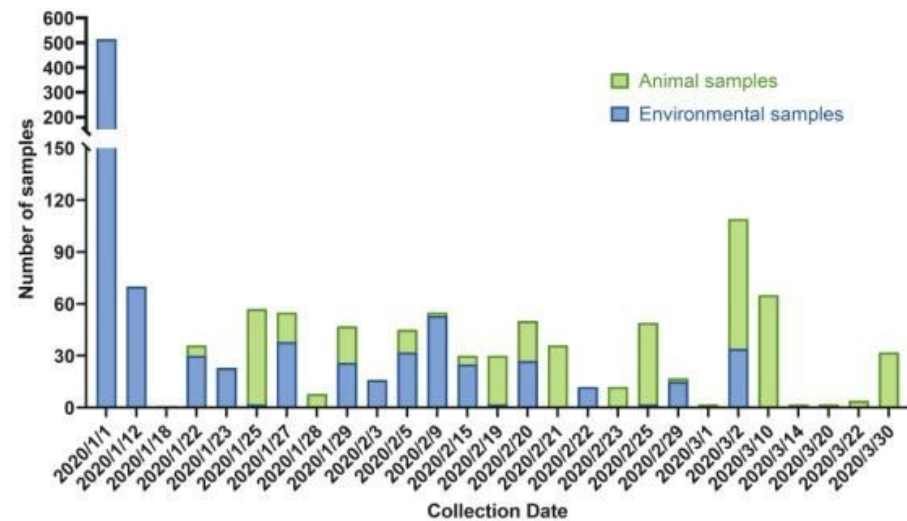


Gao et al

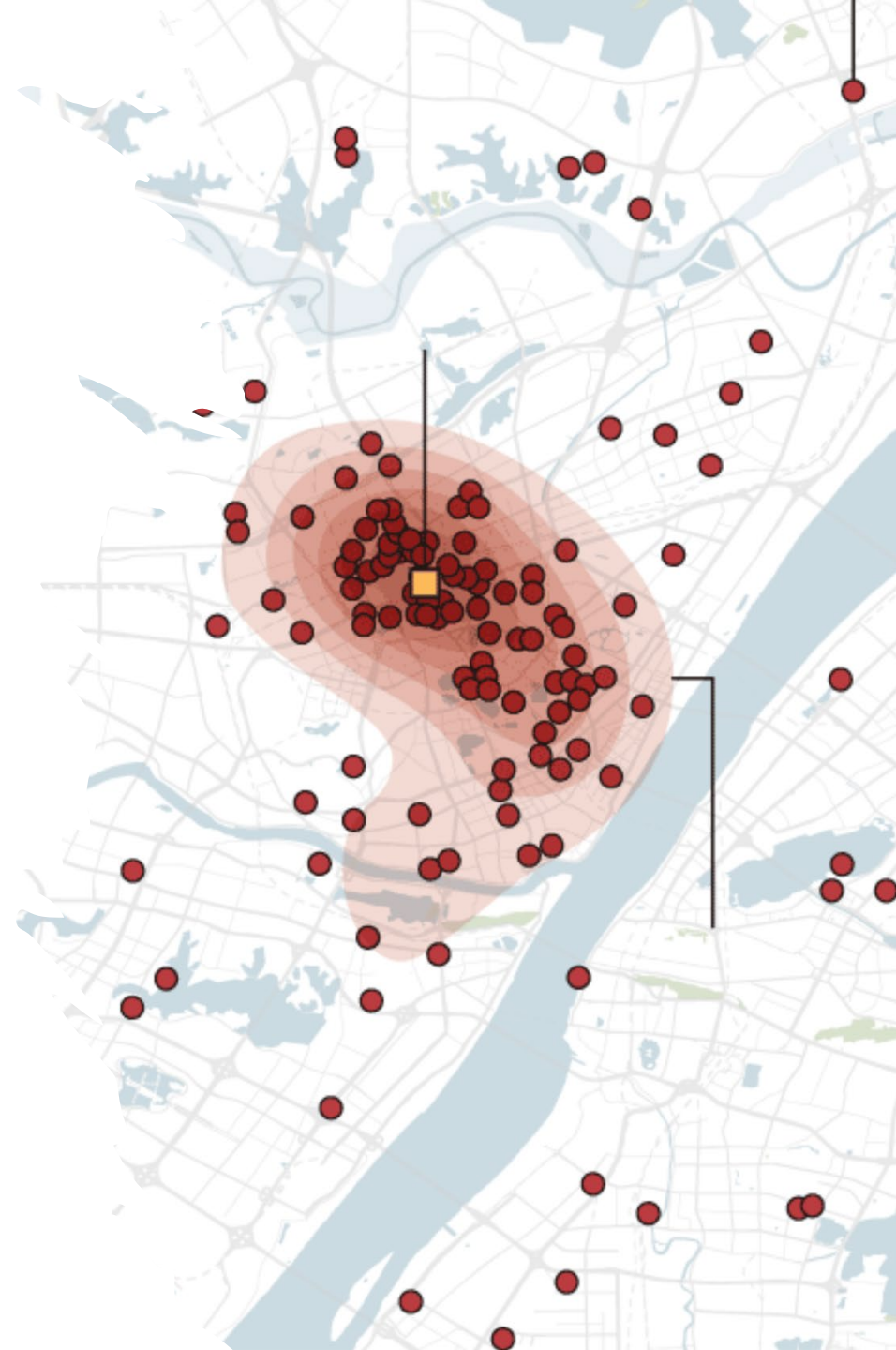
- 1380 samples collected from environment and animals
- Of 73 positive from environment, 99.980% - 99.993% identical to human ancestral lineages A and B
- Suggests ancestral lineages concentrated in Market – at least an amplifying setting if not origin

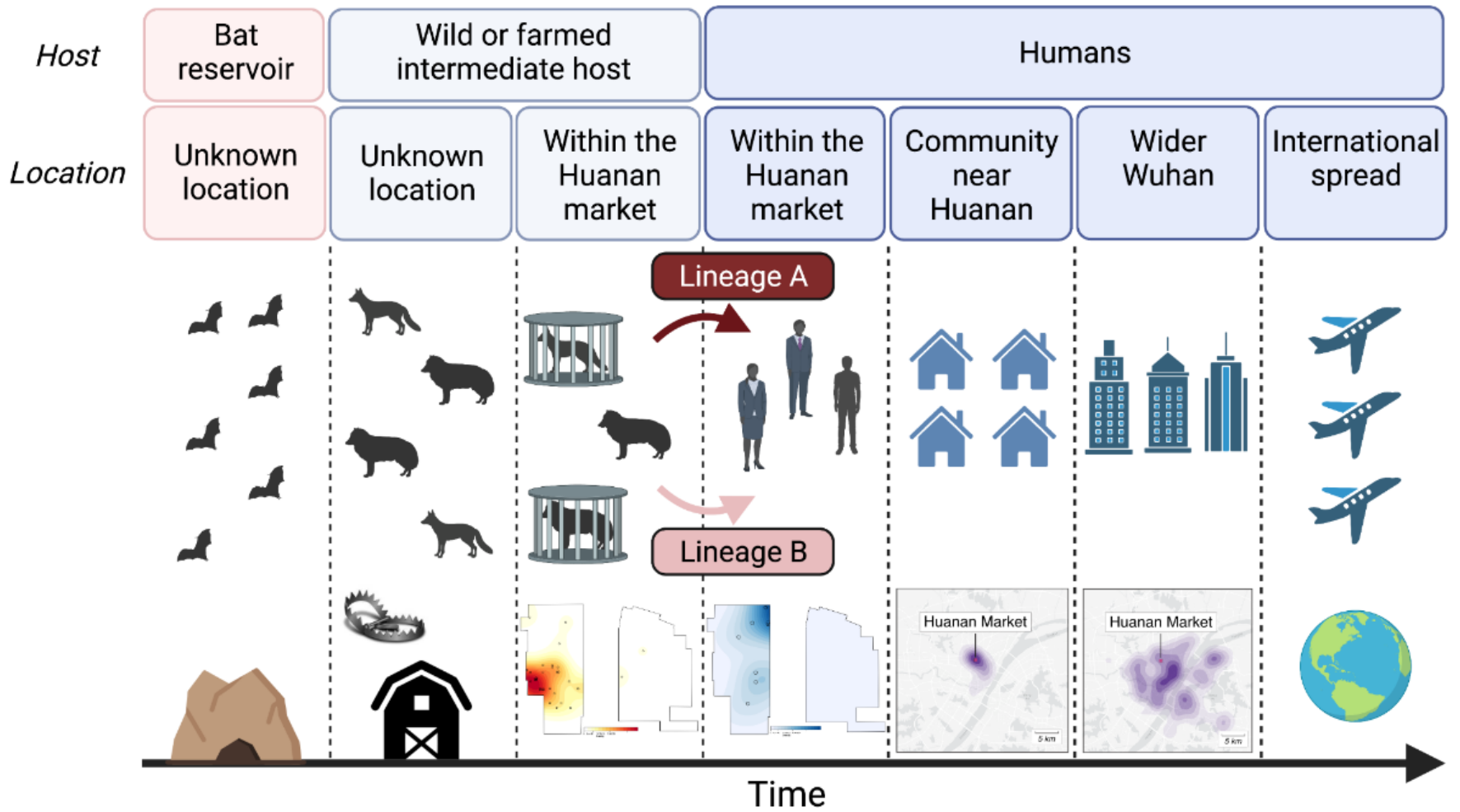


B



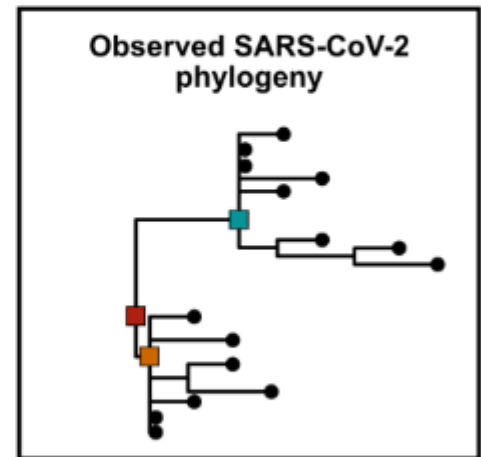
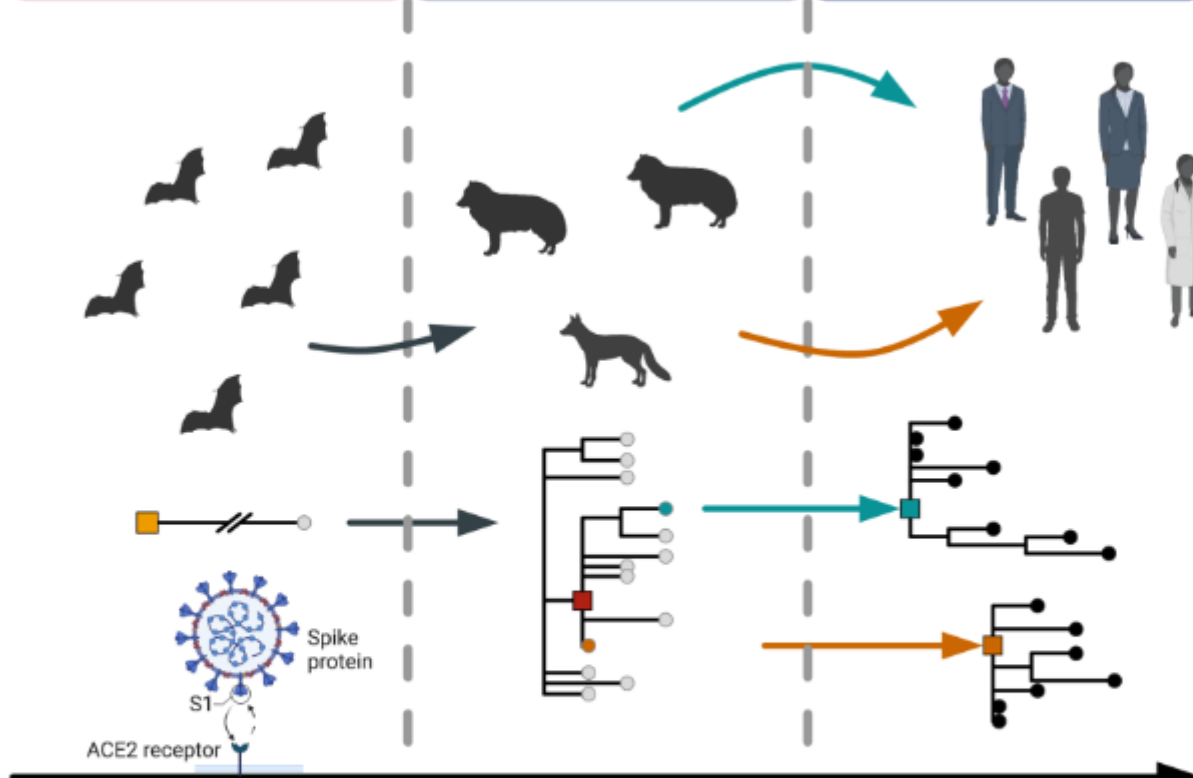
- [Worobey et al](#) spatial analysis of 156 human cases in Wuhan Dec 2019
- 5 environmental samples linked to single stall that sold live animals: to a metal cage, to carts used to move animals, and to a machine used to remove birds' feathers
- Used Weibo to identify 737 cases seeking help for COVID in Jan and Feb 2020, which suggested community spread from the Market as epicenter





SARS-CoV-2
emergence
very likely
resulted from
at least two
zoonotic
events

- Pekar et al epi/genetic analysis of 1,16 strains proposes bat ancestral haplotype (progenitor) gained ability to bind ACE2 receptor, jumped to and evolved in intermediate host animals
- Two jumps from animals to humans in Market, then each adapted to humans independently
 - Lineage B late-Nov/early-Dec 2019 and no earlier than early Nov
 - Lineage A occurred weeks later
- Analogous to SARS-CoV-1, MERS-CoV
- Highly unlikely 2 lineages introduced accidentally from lab



Time ➔

- | | | |
|---|--|--|
| ■ recCA-like bat virus | ■ MRCA of SARS-CoV-2 | ■ Lineage B MRCA |
| ● Unsampld viral genomes | ● Unsampld lineage B progenitor | ■ Lineage A MRCA |
| ➔ Introduction into intermediate host | ● Unsampld lineage A progenitor | ● Sampled viral genomes |
| | ➔ Earlier introduction into humans | |
| | ➔ Later introduction into humans | |

- RATG13 from horseshoe bat is (only) 96% identical to SARS-CoV-2
- Genome of SARS-CoV-2 strain from pangolins was 99% identical to infected people, acc China's official Xinhua news agency
- 26 March 2020: [Lam et al](#) found SARS-CoV-2 related coronaviruses in Malayan pangolins





Raccoon Dogs

- Used for food and fur in China
- Noted positive samples clustered near this species' vendors and shown to harbor SARS CoV-2 and other coronaviruses
- Akin to SARS-CoV-1 animal reservoir

In Search of Direct Progenitor

- [Study](#) of 696 specimens archived 2017-8 from
 - Sunda pangolins (*Manis javanica*)
 - Chinese pangolins (*Manis pentadactyla*) confiscated from illegal wildlife trade
 - Common palm civets (*Paradoxurus hermaphroditus*) raised on wildlife farms in Viet Nam
- 12 pangolins positive for Sarbecovirus



No. individuals and specimens positive for Flavivirus, Paramyxovirus, Filovirus, Orthomyxovirus and Coronavirus	% Individuals and specimens positive for Sarbecoviruses - E-gene assay	% Individuals and specimens positive for Sarbecoviruses - RdRp-gene assay
0/299	0/299 (0%)	0/299 (0%)
7/3 and 0/5	0/3 and 0/5 (0%)	0/3 and 0/5 (0%)
and 0/392	7/243 (2.88%) and 12/392 (3.06%)	0/243 and 0/392 (0%)

Q&A