INTREPID Alliance Antiviral Landscape: Overview of 13 Priority Viral Families*

As of December 18, 2024, for the 13 Viral Families with Greatest Risk of Pandemic Potential, Clinical Phase & Approved Antiviral Compounds Fall Into 9 of 13 and Preclinical Into 7 of 13 Viral Families

Primarily Respiratory Transmission

	Disease Indication (n)**	
Pillar	Preclinical (103)	Clinical (39)
Adenoviridae	X	• HuAdeno A-G (1)
Coronaviridae	COVID-19 (74)MERS-CoV (5)SARS-CoV-1 (5)Seasonal CoV (1)	• COVID-19 (25)
Orthomyxoviridae	Influenza (12)	Influenza (10)
Paramyxoviridae	Hendra virus (1)Measles (1)Nipah virus (3)Parainfluenza (1)	X
Picornaviridae	X	• Polio (2)

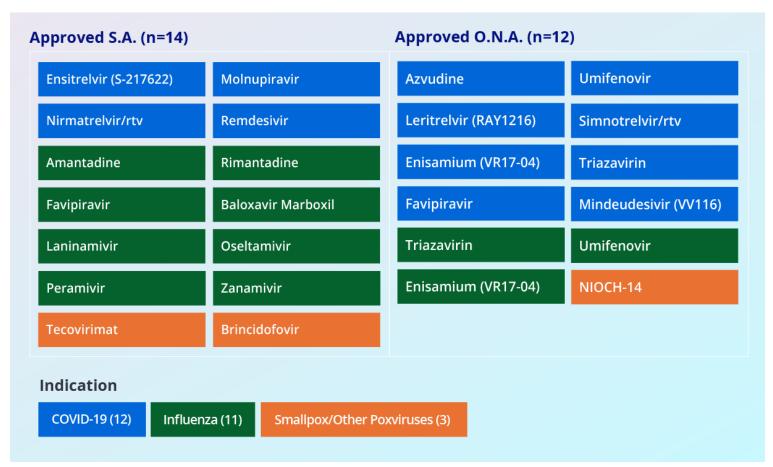
• Rhinovirus (1)

X = absence of preclinical or clinical phase antivirals

Primarily Contact/Vector-Mediated Transmission			
	Disease Indication (n)**		
Pillar	Preclinical (22)	Clinical (13)	
Arenaviridae	Junin virus (1)Lassa fever (1)	Lassa fever (3)Chapare hem. fever (1)	
Filoviridae	X	• Ebola (2)	
Flaviviridae	Dengue (5)West Nile (1)Yellow fever (1)Zika (2)	• Dengue (3)	
Hantaviridae	X	X	
Nairoviridae	X	Crimean Congo hem. fever (2)	
Peribunyaviridae	X	X	
Poxviridae	• Mpox (8)	• Mpox (2)	
Togaviridae	Chikungunya (3)	X	

^{*}As of December 18, 2024; **Number of compounds in ongoing development.

Approved Antivirals: COVID-19, Influenza, Smallpox/Other Poxviruses*

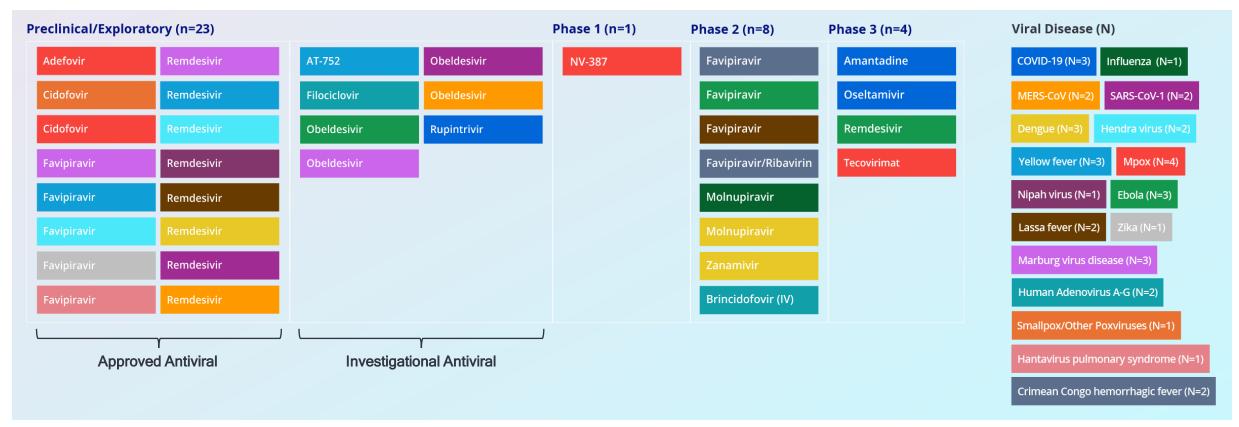


- 22 distinct antiviral compounds have received regulatory approval for COVID-19, Influenza, or Smallpox/Other Poxviruses
- 4 compounds are approved for COVID-19 and Influenza (favipiravir, triazavirin, umifenovir, and enisamium)
- 3 compounds have regulatory authorization by Animal Rule Development or similar mechanism
 - Tecoviramat is approved for Smallpox in U.S.
 & EU, and Cowpox and Mpox in EU only
 - Brincidofovir for Smallpox in U.S.
 - NIOCH-14 for Smallpox in Russia



Antiviral-Indication Expansions: Preclinical & Clinical Compound/Indications (N=36)

Investigational: Antiviral compounds in clinical phase development for a different virus disease indication. Approved: Antiviral compounds approved for treatment of a different virus disease indication.



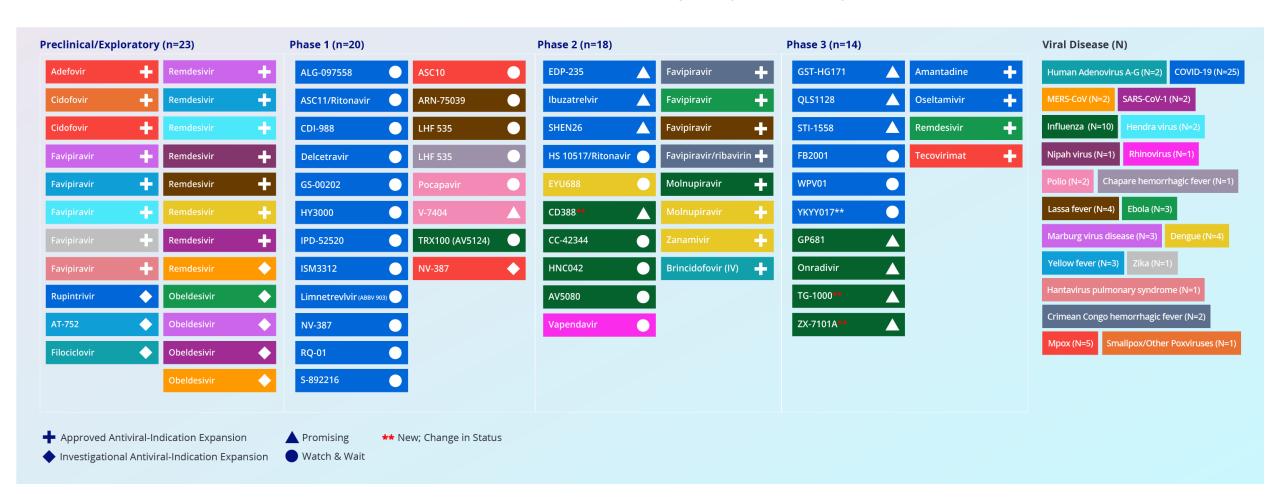
- ▶ 6 of these antivirals (favipiravir, remdesivir, molnupiravir, amantadine, oseltamivir, & zanamivir) are approved for treatment of COVID-19 and/or Influenza.
 - ▶ Adefovir is approved for treating Hepatitis B virus disease and cidofovir is approved for treating CMV disease.
 - ► Tecovirimat is approved for treating smallpox.
- Favipiravir and remdesivir have the most indication expansions under evaluation (9 each).



^{*}As of December 18, 2024; Clinical phase Investigational (Unapproved) and Approved antivirals being explored for expanded indications.

All Clinical Phase & Approved Antivirals (N=75)

INTREPID Alliance Analysis (4th Edition)*

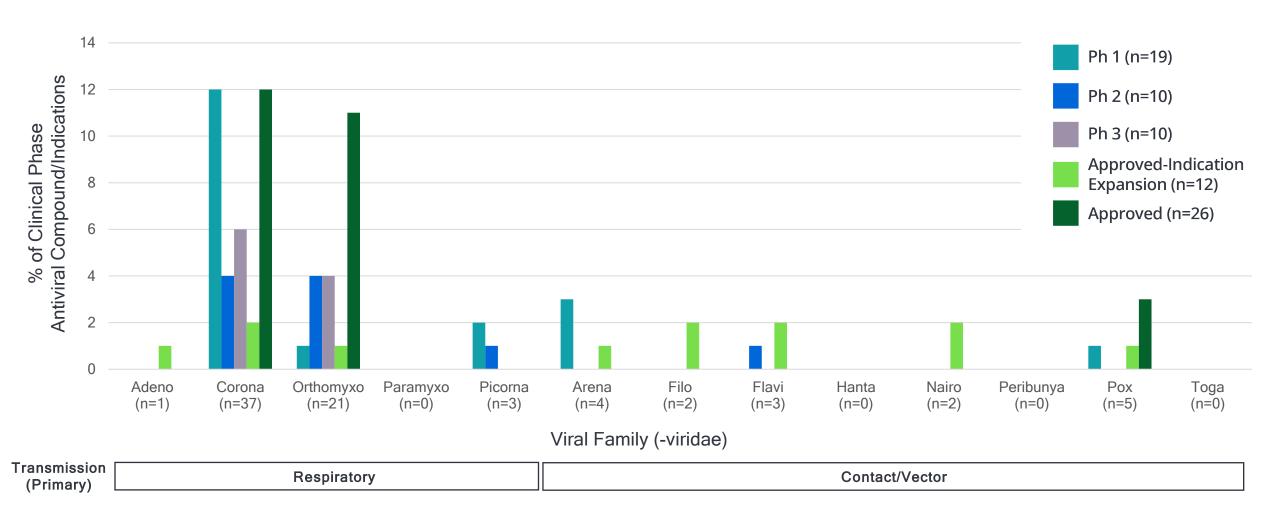




^{*}December 18, 2024 data with "Promising" Analysis defined in March 2024.

The Majority of Clinical Phase Antiviral Compound/Indications Are Targeting Coronaviruses and Orthomyxoviruses*

% Clinical Phase Antiviral Compound/Indications by Virus Family (4th Edition, N=78)

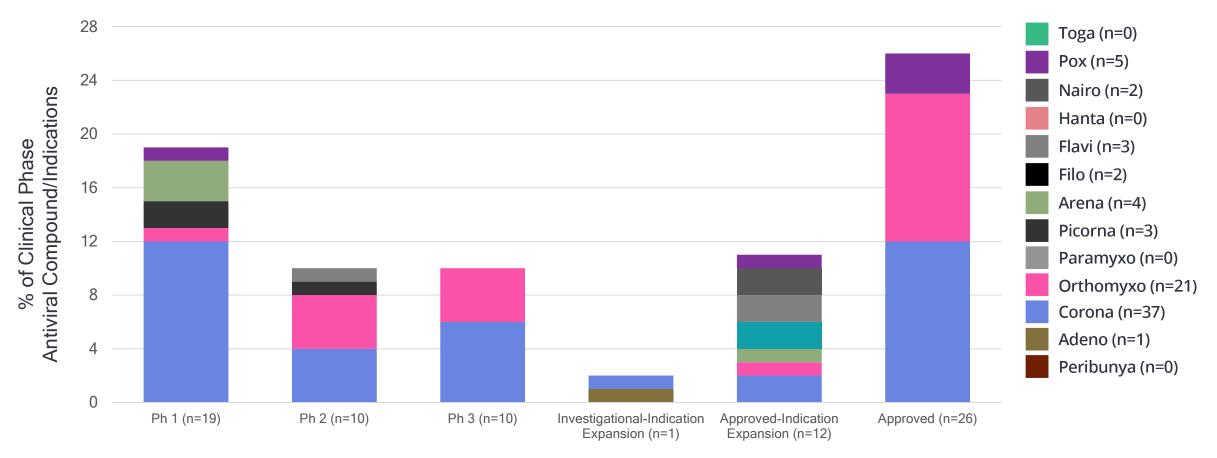


^{*}As of December 18, 2024. Adenoviridae has 1 clinical phase program listed in Archived.



The Majority of Clinical Phase Antiviral Compound/Indications Are Targeting Coronaviruses and Orthomyxoviruses*

% Clinical Phase Antiviral Compound/Indications by Virus Family (4th Edition, N=78)



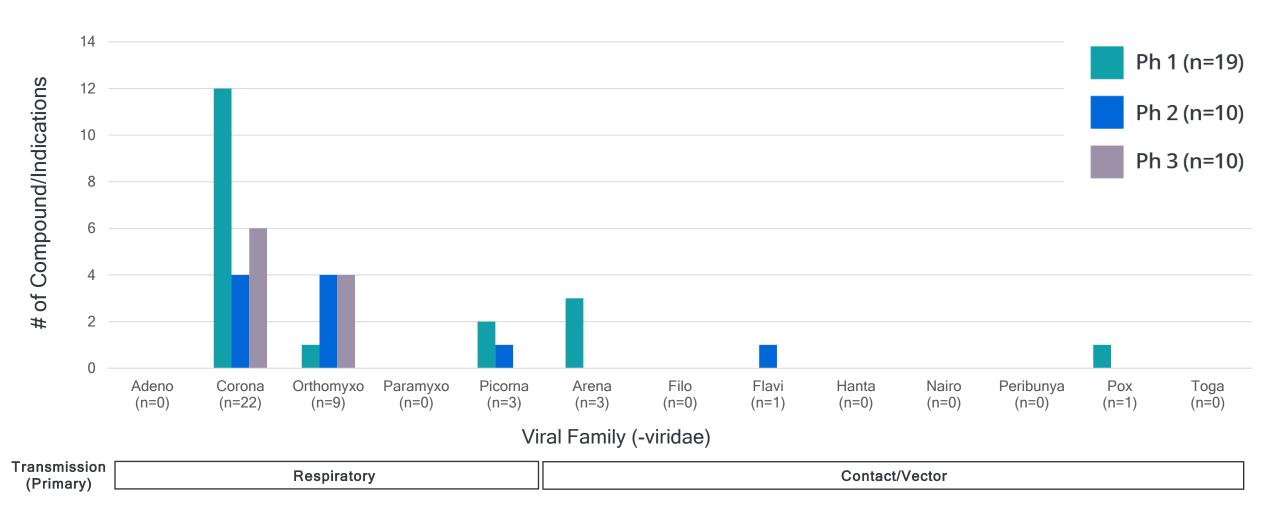
Phase of Development (n)



^{*}As of December 18, 2024.

"Promising" Clinical Compounds Analysis (4th Edition)*

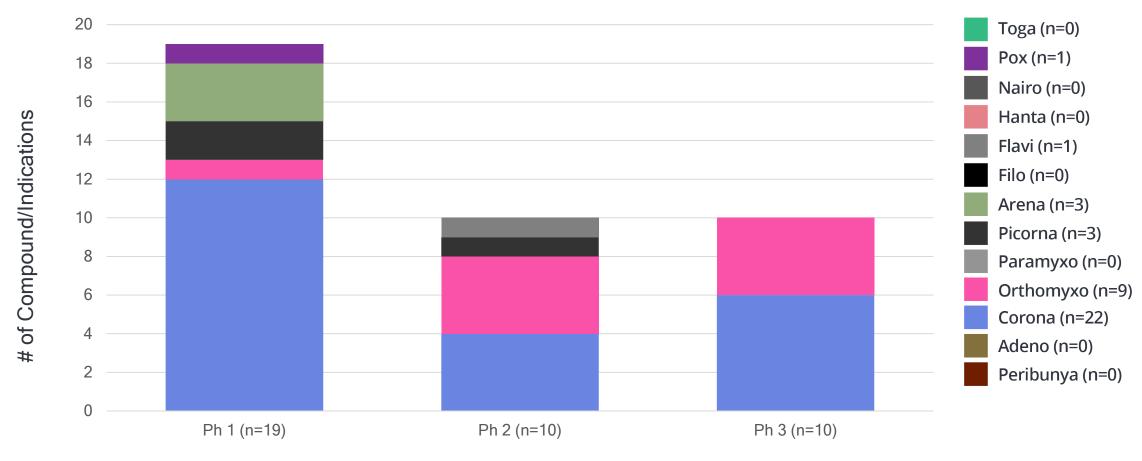
Unapproved Compounds (Promising and Watch & Wait) by Virus Family (N=39)





"Promising" Compounds Analysis (4th Edition)*

Novel Compound/Indications (Promising and Watch & Wait) by Phase of Development (N=39)



Phase of Development (n)



Disclaimer

The INTREPID Alliance is a not-for-profit consortium of innovative biopharmaceutical companies committed to accelerating antiviral research, aiming to ensure that we have a stronger pipeline and are better prepared for future pandemics.

As part of our efforts, the INTREPID Alliance maintains and publishes a centralized list of promising investigational candidate compounds, with the purpose of knowledge-sharing and to support better pandemic preparedness. These compounds have been selected based on objective, scientific criteria, using publicly available sources, and at arm's length from commercial influence of our member companies. See criteria listed in the report "Antiviral Clinical Development Landscape and Promising Clinical Compounds." The designation of certain compounds as promising is based upon currently available information, and exclusively upon an assessment against these criteria. "Promising" is not a promotional claim. Candidate compounds have not been assessed by regulatory authorities to be safe and efficacious for the treatment of disease in humans. Our content is designed to be factual, informative, and non-commercial. It is not designed or intended to advertise or promote any pharmaceutical product or therapy or to advance the commercial interests of any company.

