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**KFF** 

# Achilles' Heel: Elderly COVID-19 Vaccination Policy in China

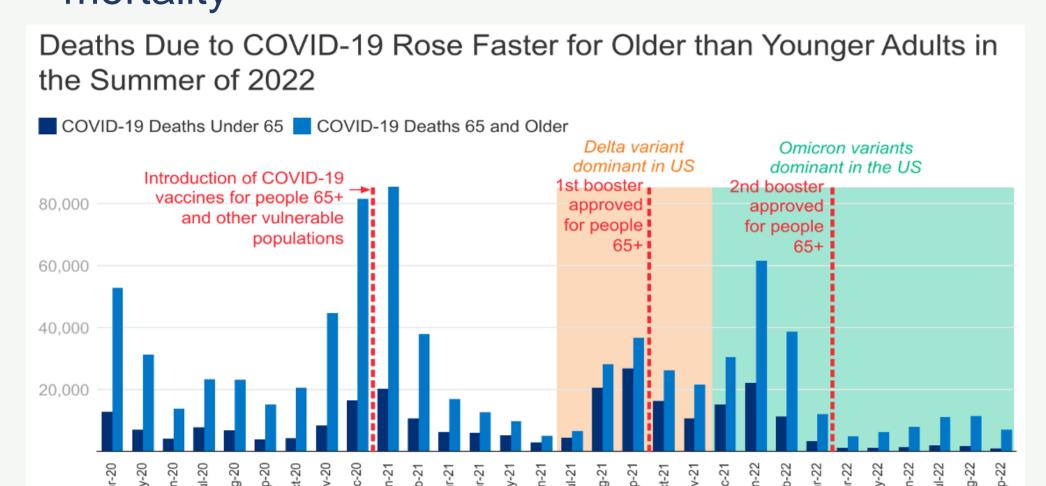
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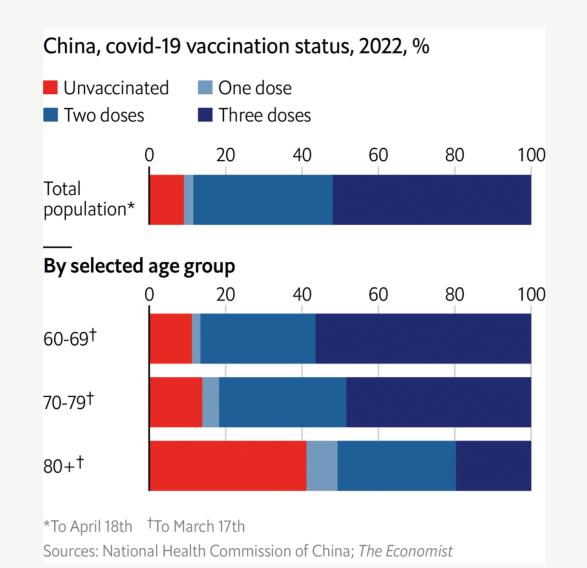
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# Introduction

### Background

- Covid deaths for older adults rose again in 2022 at a faster rate for older than younger adults
- China's COVID-19 response was further optimized in late 2022, transferring to living with the virus
- With booster uptake lagging, the elderly remain at high risk of morbidity and mortality





### **Facts in China**

✓ COVID-19 vaccination is free and accessible.

SOURCE: KFF analysis of CDC Provisional COVID-19 Death Counts by Sex and Age, as of the week ending October 1, 2022.

- ✓ Low prevalence of COVID-19 vaccine hesitancy
- ✓ Strong executive power and highly compliant population

# Why has China experienced a struggle in vaccinating its elderly

- Complicated underpinnings
- Typical studies focus more on the individual-level determinants
- ❖ We want to examine how the macro-level factors (e.g. policy, politics, cultural value, media) explain the poor elderly vaccination issue

### Data collection

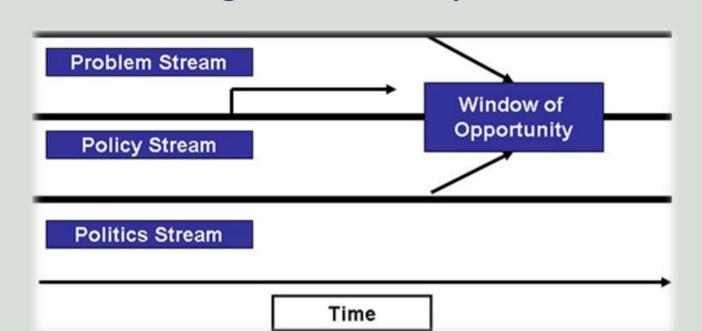
- ❖ 95 transcripts of press conferences of the Joint Prevention and Control Mechanism (JPCM) of the State Council from Oct 20, 2020, to Feb 27, 2023
- COVID-19 vaccination-related policy documents, media coverage, previous research evidence

# Data analysis

- Thematic analysis of the qualitative data via NVivo 12
- Inductive and deductive coding were applied to generate themes

# Theoretical framework

John Kingdon's Multiple Streams Framework



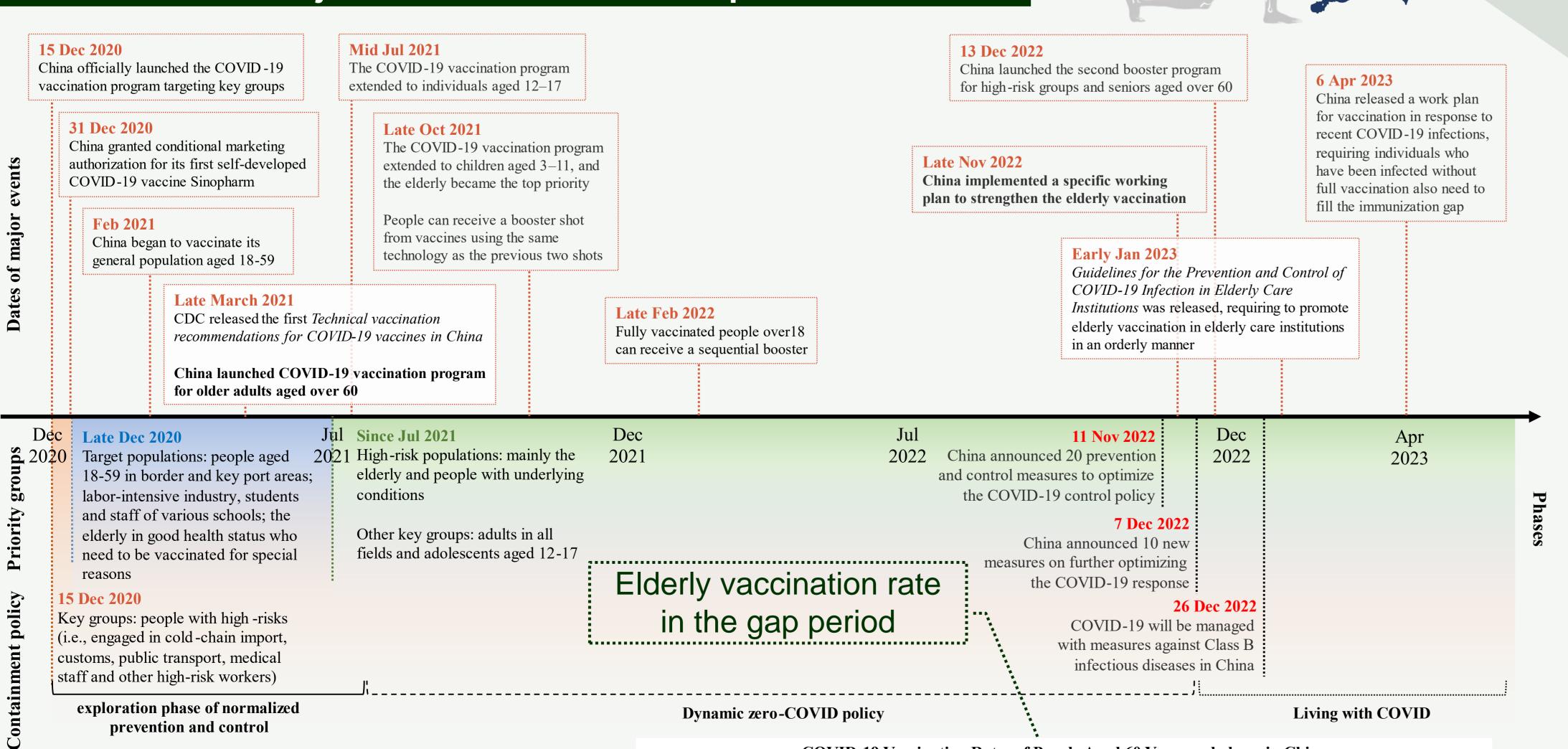
**Problem** is recognized with sufficient attention Politics are amenable to change **Policy** solution is feasible

Codes Descriptions Policy interpretations and implementations of COVID-Vaccination strategy Vaccination policy 19 vaccination policies, such as booster vaccination, sequential vaccination Vaccination promotion Discourse related to vaccination promotion Vaccination practice Procedures and notes Procedures and important notes of vaccination, such as precautions for the elderly, convenience channel for the elderly, observation time, etc. Local experiences Experience sharing of cities/rural areas/nursing homes with good performance **Problems** Problems occurred through the implementation process of vaccination program Vaccine safety Clinical evidence Data evidence mentioned to support the general vaccination strategy **AEFIs** and Statements and descriptions of Adverse Event Contraindications Following Immunization(AEFI) and contraindications

✓ Policy window will open when the convergence of the three streams occur

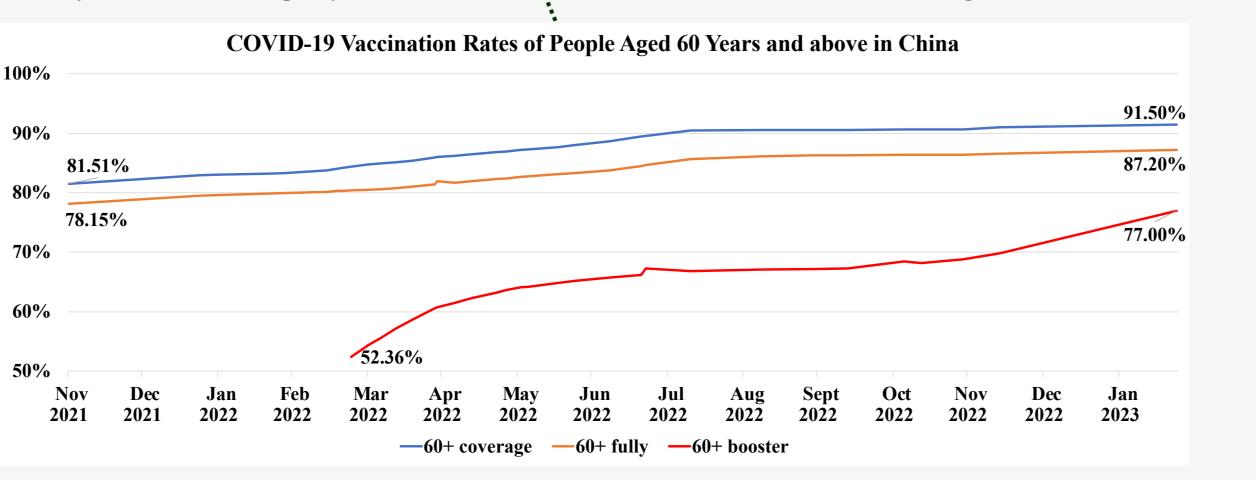
# Findings

# Timeline of the major COVID-19 vaccination policies in China



# Policy review

- Policies that relate specifically to the elderly are **few**
- Trend of vaccination rates among the elderly remains stable



# **Problem stream**

### Priority setting

Priority was given to key industry personnel and young people with high risks instead of the elderly

"large-scale vaccination for the elderly population aged 60 and above would only be conducted after obtaining sufficient safety and efficacy data in clinical trials"

(He Qinghua, first-level inspector of the NCDC, Mar 2021)

A deontological approach to protect seniors with a good intention

"Adults over 18 are the main target groups for vaccination, as they are much more mobilized and can establish an effective protective barrier for the elderly and children at home"

(Wu Liangyou, deputy director of the NCDC, Apr 2021)

### Problem recognition

- The core of the zero-Covid policy is "rapid elimination of outbreaks when cases are detected"
- resources were thus poured into infection control, little was invested in getting people vaccinated at first

# **Political stream**

- Ideologically-driven complacency towards vaccination
- "Side effect" of satisfactory containment outcomes of the previous outbreaks
- Use economic nudges instead of political coercive measures
- Discrepancy between central government intention and local implementations
- Central government: "informed, agreed, voluntary" while setting rigid goals
- Local authorities: simplistic and one-size-fits-all approaches to reach KPI

# Policy stream

- Variation of information and over-emphasis on the risk for people with comorbidities
- Early emphasis on the insufficient clinical data left bad first impression Clinical trials of vaccines did not obtain sufficient data on the safety and efficacy for the elderly

(deputy director of the NHC, Mar 2021)

Broad and ambiguous statements of contraindications hampered the elderly

Guideline version	Eligible conditions (n)	Conditions could defer (n)	Ineligible conditions (n)	Other conditions (n)
1st: Apr 2021	29	5	5	14
2 <sup>nd</sup> : May 2021	31	6	6	15
3 <sup>rd</sup> : Sep 2021	33	8	9	15
4 <sup>th</sup> : Jul 2022	33	8	9	14

Inconsistence of vaccination policy content and not well-standardized vaccination practice

COVID-19 booster vaccination was started in Oct 2021:

"Better use the vaccines produced by the initial vaccine manufacturers

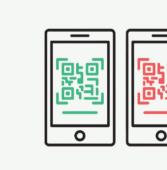
or at least choose the vaccines of the same technologies"

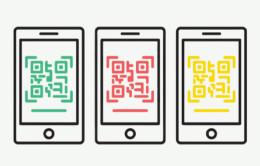
Sequential immunization was introduced in <u>Feb 2022</u>:

"Encourage mixing different technologies of vaccines to boost people's immune systems and reinforce herd immunity against the disease"

- High reliance on digital management systems
- Digital technologies largely overlooked the elderly









The analysis implies that China has missed the best policy window to encourage the vaccination of the elderly due to poor convergence of the problem, policy and political streams.

# **❖** Problem stream

- Attention allocation and decision timing are critical in the multiple decisionmaking processes
- Problem recognition and priority assessment should allow flexible adjustment according to changes in the in the actual situation

# **❖** Political stream

 Be aware of tension and flexibility in policy interpretation and implementation between central and local authorities



# Policy stream

- Policy should be clearly disseminated to the public through **consistent messaging** to avoid distrust
- Average benefits of digital systems for a population can impose individual inconveniences on vulnerable groups
- Authoritarian governments are more likely to institute strict censorship of major media to control the information flow outreach to the public
- Message framing and shifting should be gently and gradually

# **□** Key References

- 1. The Lancet Healthy Longevity. Are older adults the key to ending China's lockdowns? The Lancet Healthy Longevity. 2022;3(6):e367.
- 2. Zheng W, Yan X, Zhao Z, Yang J, Yu H. COVID-19 vaccination program in the mainland of China: a subnational descriptive analysis on target population size and current progress. Infectious Diseases of Poverty. 2021 Oct 15;10(1):124.
- 3. An Z, Wang F, Pan A, Yin Z, Rodewald L, Feng Z. Vaccination strategy and challenges for consolidating successful containment of covid-19 with population immunity in China. BMJ. 2021 Dec 2;375:e066125.
- 4. Kingdon JW. Agendas, Alternatives, and Public Policies. HarperCollins College Publishers; 1995. 254 p.

### People aged 18-59 in border and key port areas; labor-intensive industry, students and staff of various schools; the elderly in special Step 2: High-risks groups Mainly the elderly and people with underlying conditions Step 3-1: Other key groups Since Jul 2021 Adults in all fields and adolescents aged 12-17 Step 3-2: Other key groups Since Oct 2021

The Step-by-step Approach

Step 1-1: Key groups

Dec 2020 - Mar 2021

People with high-risks: cold-chain import, customs, public transport,

Step 1-2: Target groups

Dec 2020 - Jun 2021



Children aged 3-11 and the elderly became the top priority

Strengthen Step 1: Older adults





