# WEBINAR SERIES



Ripple Effects: Concentric Impacts of the Pandemic

Presented by RGA

November 12, 2020 | 2:00 - 3:00 PM ET

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# **Ripple Effects**

Concentric Impacts of the Pandemic

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November 12, 2020



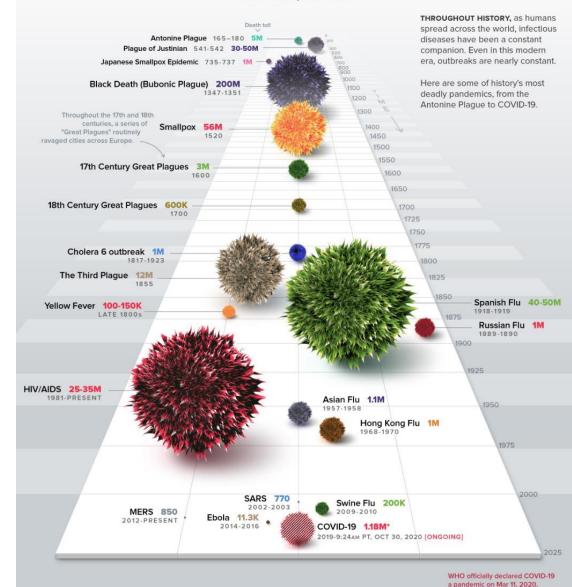
# Looking Backward to Look Forward

If you've seen one, you've seen...one

- Limited data points to analyze
- Every situation unique
  - Epidemiology
  - External influences
  - Response capabilities
- The "ripple effects" can be surprising and far-reaching

## HISTORY OF PANDEMICS

PAN-DEM-IC (of a disease) prevalent over a whole country or the world.



**DEATH TOLL** 

[HIGHEST TO LOWEST]

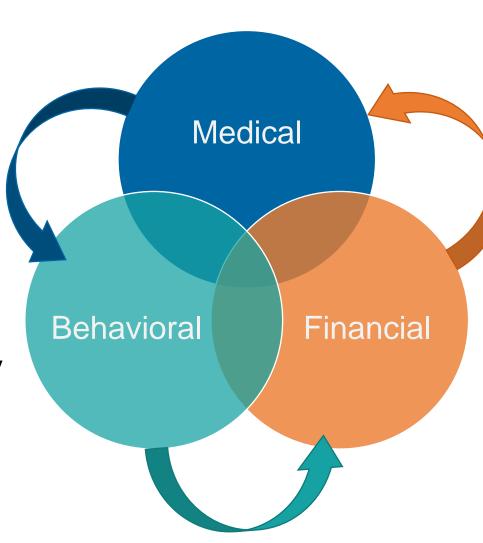
and data is still coming in.



## Ripple Effects: Interdependent Impacts

# Behavioral 8

- Mitigation actions
- Consumer/ intermediary trends
- Government, central bank, and regulatory actions
- Adverse selection







- Healthcare delivery capacity
- Therapeutics & vaccines
- Secondary ripple effects
  - e.g., motor vehicle accidents, cancer screening, flu

## Financia



- Impact of mitigation
- Balance sheet resilience
- Macro-economic conditions



# Potential Long-Term Impact on Insurance Industry



- Long-term impact on COVID-19 survivors
- Mortality improvement trends
  - Short-term vs. longer-term
  - Research and medical advances
  - Behavioral changes
- Evolution of risk assessment
- Investment in expertise

## **Financial**



- Balance sheet impacts
  - Asset portfolios
  - Recalibration of capital models
- Strategic business analysis
- Longer-term impact of interventions
- Consumer impacts
  - Unemployment
  - Disability
  - Disposable income

# **Behavioral**



- Demand dynamics
  - Perception of value of insurance/reinsurance
  - Distribution channels
  - Risk transfer by companies
- Optionality, adverse selection, and fraud
- Regulatory/ratings
  - Coverage requirements
  - Extended grace periods
  - Capital ratios
- Trust
  - Models, financial strength, social responsibility

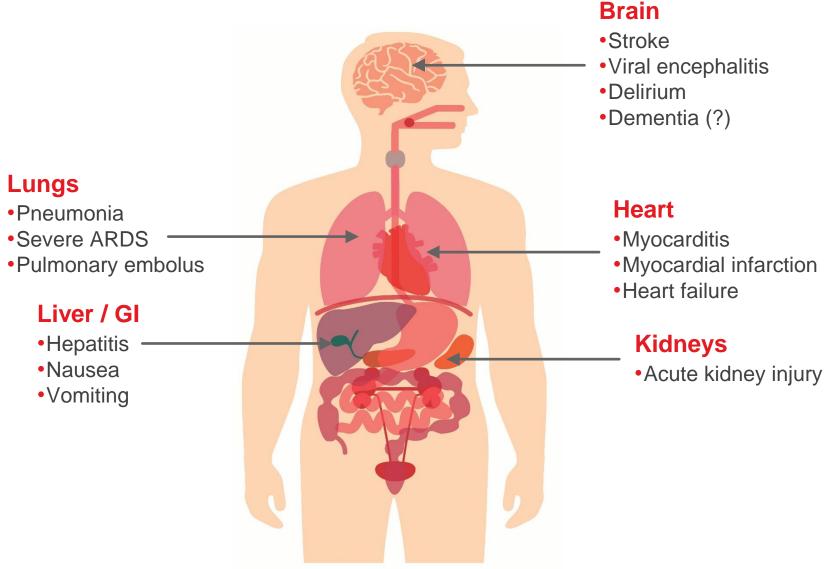




# Medical Ripple Effects



# **COVID-19 Tropism for Multiple Organs**





# COVID-19 Ripple Effects and Insurance Impact



#### **Headwinds**

- Substance abuse
- Reduced cancer screenings
- Reduction in elective and non-elective procedures
- Mental health effects of social isolation and economic deprivation
- Effect of sedentary lifestyle



### **Tailwinds**

- Compression of morbidity
- Reduced cancer screenings
- Reduction in elective procedures and wellness benefits
- NH and maternity deferral
- Reduced traffic fatalities and occupational injuries
- ? Reduced influenza impact
- New COVID-19 consumer needs



# 1 Million

Estimated number of U.K. smokers who have quit the habit since the onset of the pandemic

90%

Reduction in breast, colon, and cervical cancer screenings at pandemic's peak



# A Case Study in Missed Screenings



What is the typical all-cause mortality reduction related to cancer screening?



Populationspecific effects (and protections)



But ... what about (just) delayed cancer screening?

- How long is the delay?

Screening alternatives?



Will pandemic fatigue extend to medical visits?



The effect of underwriting

# COVID-19 Mortality Drivers: A Framework for Assessing the Evidence

- Headwind or tailwind?
- Body system or process
- COVID-19 disease severity
- Impact assessment
- Direct vs. indirect
- Mortality vs. morbidity (vs. both)
- All-cause vs. cause-specific
- Time to impact
- Product line affected



# Framework for Assessing Impact of COVID-19 on Future Mortality

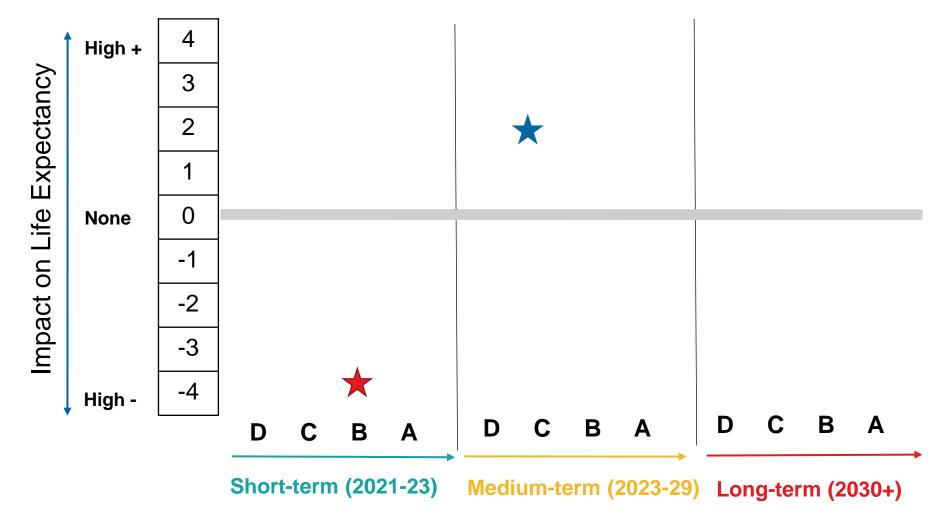
Likelihood	Scale
Certain	Α
Extremely Likely	В
Somewhat Likely	С
Unlikely	D



Indicates high likelihood of material impact on future mortality



Indicates some likelihood of moderate impact on future mortality





# COVID-19 Ripple Effects and Insurance Impact



### **Therapeutics**

- Patient populations (mild, moderate, or severe)
- Mortality vs. morbidity reduction
- Production and distribution
- Cost



### **Vaccines**

- Efficacy, efficacy, efficacy
- Data in older individuals
- Vaccine hesitancy
- Production and distribution
- Critical mass for mortality reduction?
- Public policy
- Underwriting policy



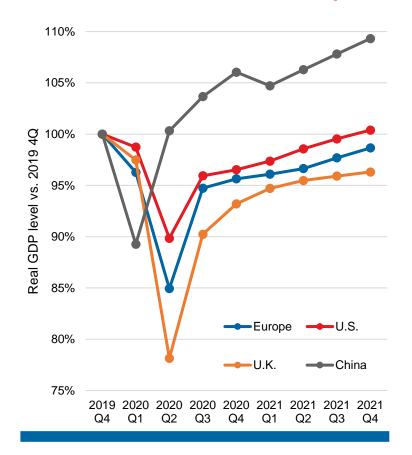


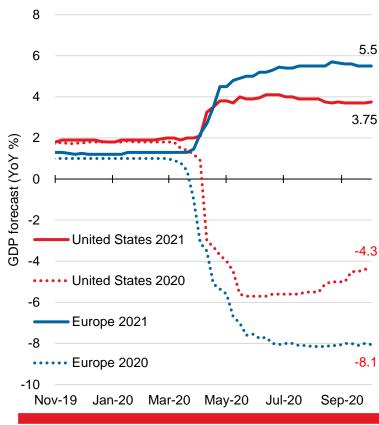


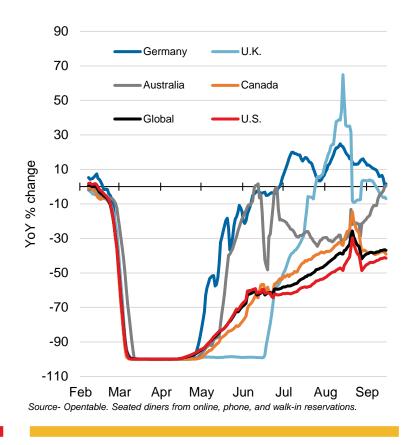
# Financial Ripple Effects



# Broad Financial Impact: Depth of Economic Growth Interruption







- U.S. GDP forecast to recover to precrisis levels by the end of 2021
- Europe is one to two quarters behind
- U.K. outlook tainted by Brexit

- There has been a faster-thanexpected recovery in the U.S., leading to forecast revisions being higher
- However, high-frequency economic data (open table diners displayed) is losing momentum and will likely remain subdued until there is a widely distributed vaccine



# Broad Financial Impact: Breadth of Consequences

- A sampling of the drivers (example list focus is economic winners/losers, financial impacts)
- Medical: Resource demand shifts and opportunities
  - Equipment, development of COVID-19 treatments and vaccines
  - Masks (and fashion …?)
- Economic shutdowns or demand plunge
  - Extended impact on airlines and travel
  - Permanent small business closures
- Policy responses to fill the economic activity divot driving debt up and yields down
  - Lower forever (lower for way too long) interest rate environment
  - What are the implications of zero rates? Negative rates?
- Reevaluation of living, working, shopping, and recreation/entertainment in crowded spaces
  - Some trends accelerated: pain for retail, joy for online giants, further embracing of technology
  - Some trends stalling or reversing: Densification; rent vs. own; driving; airline pilot shortages



## Financial Impacts: Exploring Three Changing Landscapes

#### **Dedensification**

- Work from anywhere
- Risk of being shut in
- What amount and type of space is needed, at home and in the office?
- Risk of proximity?
- Effective limit to the size or density of a city?
  - Mass transit
  - Skyscraper occupancy

Real Estate Risk & Value

### **Higher Debt & Lower Rates**

- Fiscal policy response to cushion shutdowns spiked government deficits and debt across countries
- Monetary policy response to aid the economy and stabilize markets drove yields lower
  - cut target interest rates
  - increased asset purchases

Low / No / Negative Yields

#### **Investments**

- Shutdown risk premium
- Supply and demand shifts
- Low total yield (or zero or negative)
- Incentive shifts
- Uncertainty on commercial real estate valuations
- ESG / responsible

**Market Impacts** 



# Dedensification: City, Office, Housing Impacts

Net Migration			
City	2019	2020	
New York	-0.7%	-4.4%	
Los Angeles	-0.8%	-3.5%	
San Francisco	-0.6%	-2.6%	
Seattle	0.2%	-3.7%	
Dallas	-0.9%	-4.6%	
Miami	-2.0%	-3.0%	

Source: Barclays

 Net "out migration" has picked up for some cities

#### Office/Home

- How many people work remote?
  Home needs?
- Office space needs?
- Who bears the cost?
- Who reaps the reward?
- Uncertainty over net impact on office space demand in the future

Average Home Price Growth (YTD 2020 Cumulative through August)		
Urban	3.3%	
Suburban	3.7%	
Rural	2.4%	

Major U.S. Cities – Neg	
(Avg. Change in Price Feb -	- June 2020)
New York	-2.5%
San Francisco	-1.5%

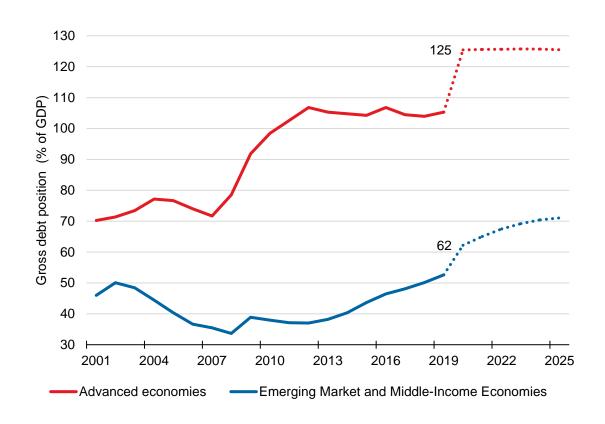
Source: Barclays, Zillow, U.S. Census

- Home prices higher across urban, suburban, and rural
- Prices down in two major cities

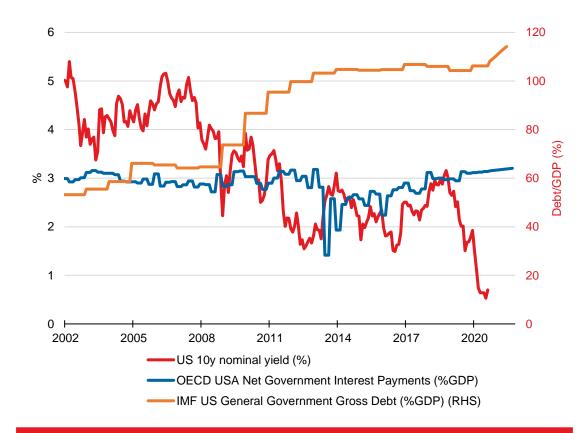
## Shifting demand trends impact real estate property values



# Higher Debt: Impact of Fiscal Policy Response



 Government debt ratios across the globe are experiencing jumps in 2020 as governments battle the COVID-19 crisis

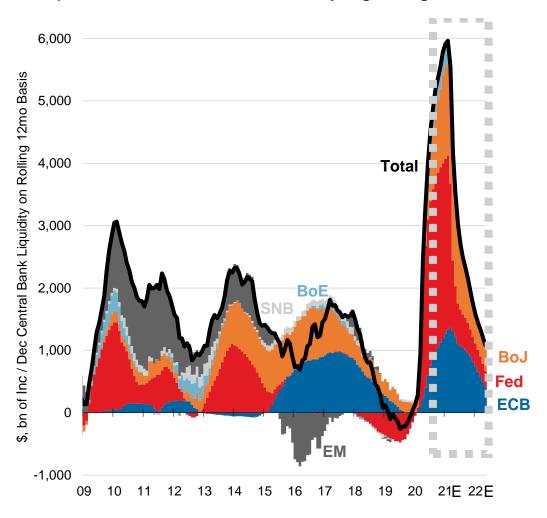


- The cost of the total debt has barely moved due to falling rates. Are governments willing and able to take the pain of higher rates?
- Will this incentivize financial repression?

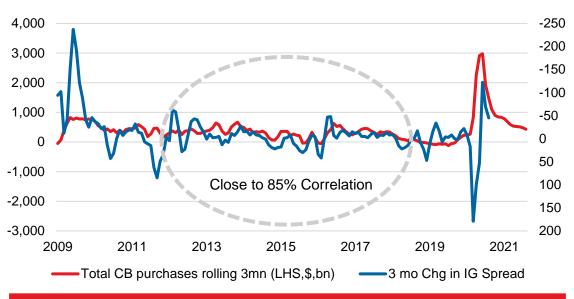


# Lower Yields: Monetary Policy Response Lowered Spreads / Yields

### Major Central Bank Bond-Buying Programs



#### Central Bank Flows and Historical Correlations

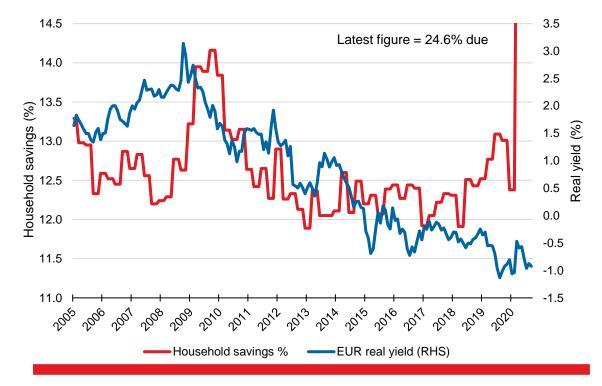


- The size and speed of the monetary policy response surpassed actions during the Great Financial Crisis: rates, asset purchases, programs
- Central bank actions succeeded in stabilizing financial markets and lowering financing rates
- Historical analysis indicates central bank flows are a strong driver of credit spreads and asset prices



## Sustained Lower Yields: Broad Implications

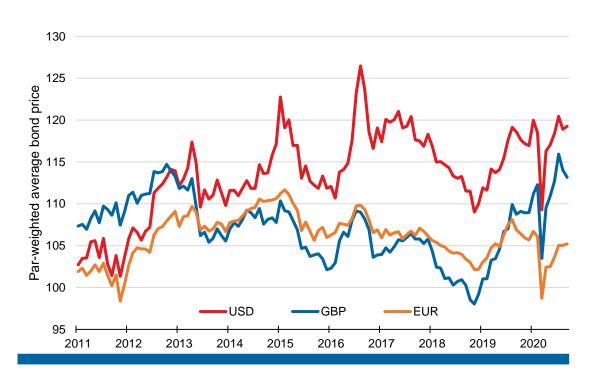
- Psychological implications and incentives of zero or negative rates?
  - Negative rates don't make sense
  - Zero means no time "value" to money
  - Saving and borrowing incentives?
    - Worst of both worlds?
- Business impacts of lower rates
  - Lower investment income
  - More expense pressure
  - Less downside risk cushion for investments
- Market implications

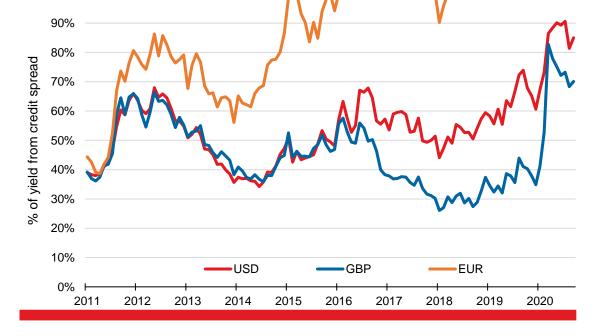


- Unintended consequences Europe
  - Savings rates headed up after rates went negative
  - Less return on savings → need to save more



## Sustained Lower Yields: Credit Market Implications





- Yields down, bond prices up
- Good news: portfolio value up
  - Bad news: prices well above \$100 risk greater loss severity in a restructuring
    - USD \$119, GBP \$113 (Each up ~ \$20 in 2020)

Less total yield to offset losses

100%

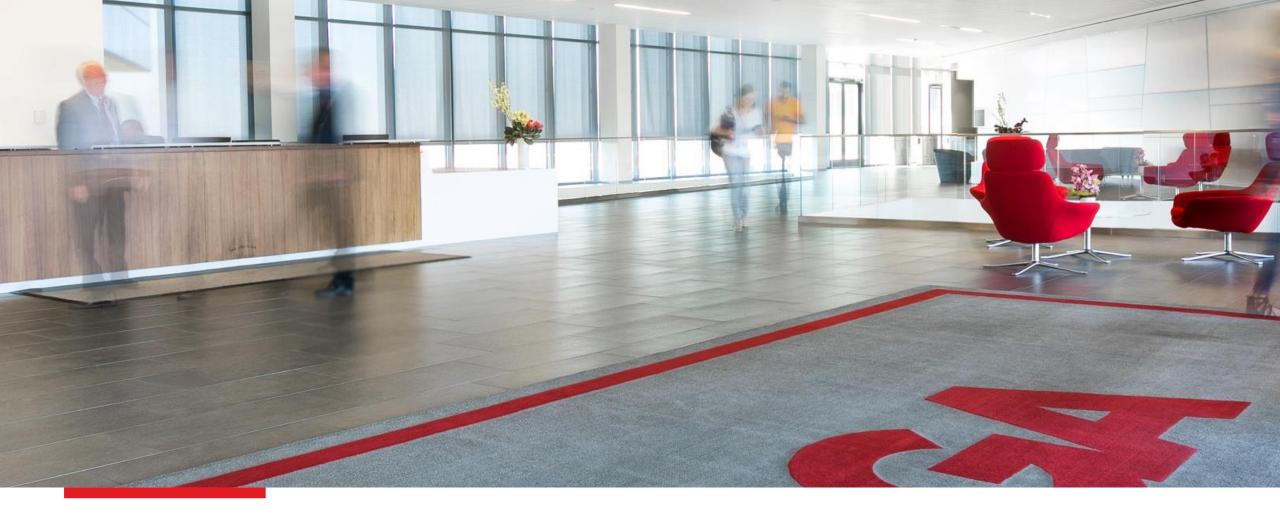
- Remember getting yield "risk-free"?!
- Credit spreads now make up a record percentage of the all-in corporate bond yield



# Summary

- Financial ripple effects from COVID-19 and related shutdowns have been broad
- Work/home/city impacts are causing uncertainty about real estate valuation
- Additional factors weighing on yields, again, for the near-to-medium term
- Investment risk/rewards have shifted unfavorably
- Credit costs are absolute, and the risk-free yield "free ride" is over, at least for now
- Less yield continues to put pressure on expenses, business models, stress scenarios





# Q&A

Moderated by Kathryn Cox, SVP and Head of Business Development U.S. Mortality Markets, RGA



### **Questions?**

### Contact: RGA Client & Marketing Services Team > <a href="mailto:CMSTeam@rgare.com">CMSTeam@rgare.com</a>

# Thank You



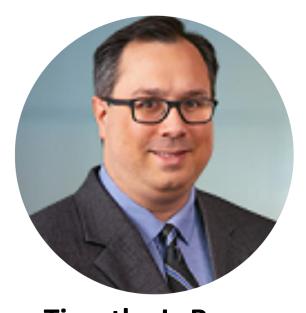
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