

Impact of covid-19 on Indian economy

Submitted by

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Introduction

- Corona virus is one of the deadly viruses which is caused by Severe acute respiratory syndrome corona virus 2 (SARS-CoV2).
- This Pandemic is imposing two kind of shock on countries, first is health shock and other is economic shock.
- Coronavirus has caused a Global Recession.
- Economist suggest that recession worse than the recession in 1930s
- Nationwide lockdown was announced on March 23, 2020, due to this all economic activities came to halt.
- This Pandemic has struck India at a time when our GDP was already slowing down, and Unemployment was on a rise due to poor economy over the years.



Research Question

What is the Impact of coronavirus on Indian Economy.



Objective

This study analyzes the Impact of this Pandemic on the Economy of India.

Rationale of the study

- All the sectors have been hit severely by the pandemic. It is of great importance to know the effects on each sector because in a developing country like India, single change in one sector can effect a lot of lives, as all these sectors are interdependent on each other.
- Small change/setback in a sector can drastically influence the 'Healthcare system', of the country.
- So, the study helps to understand how these can affect the future of healthcare.

Methodology

- This study is based on Secondary data which was collected from Google scholar, newspaper article, like the Economic times etc.
- The top recommended articles were selected from the Google scholar. All the articles selected were based on impact of corona on Indian Economy.



MINT GRAPHITI

DISEASE BURDEN

In all likelihood, the Indian economy, already facing the fallout of a slowdown, will suffer another shock as the spreading coronavirus begins to take its toll.

THE CAUSE

112

Total cases

13

States/UTs affected

10

Total recovered

2

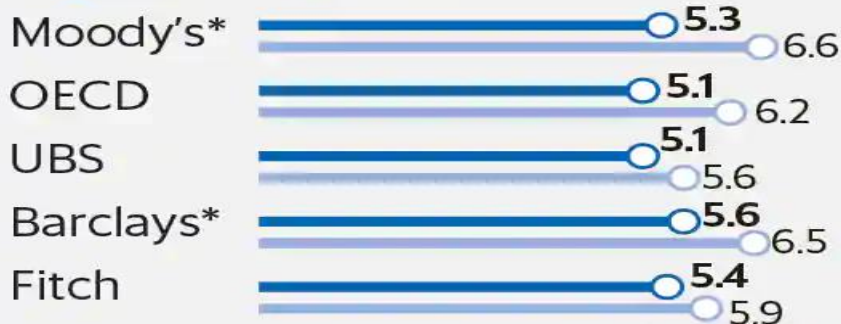
Number of deaths

THE EFFECT

Growth to slow

—○ Now —○ Earlier

Y-o-y in %

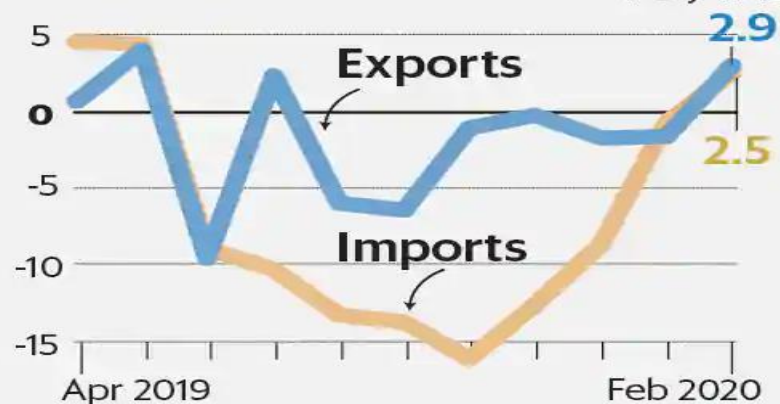


*Calendar year 2020

FY21 growth expectations

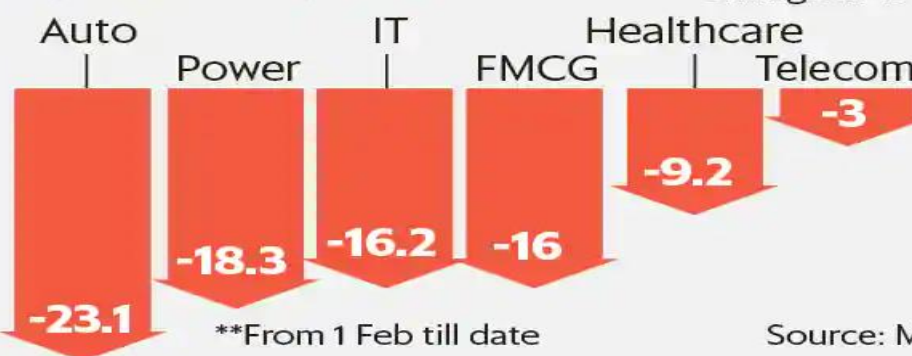
Trade falters

Y-o-y in %



Market sinks**

Change in %



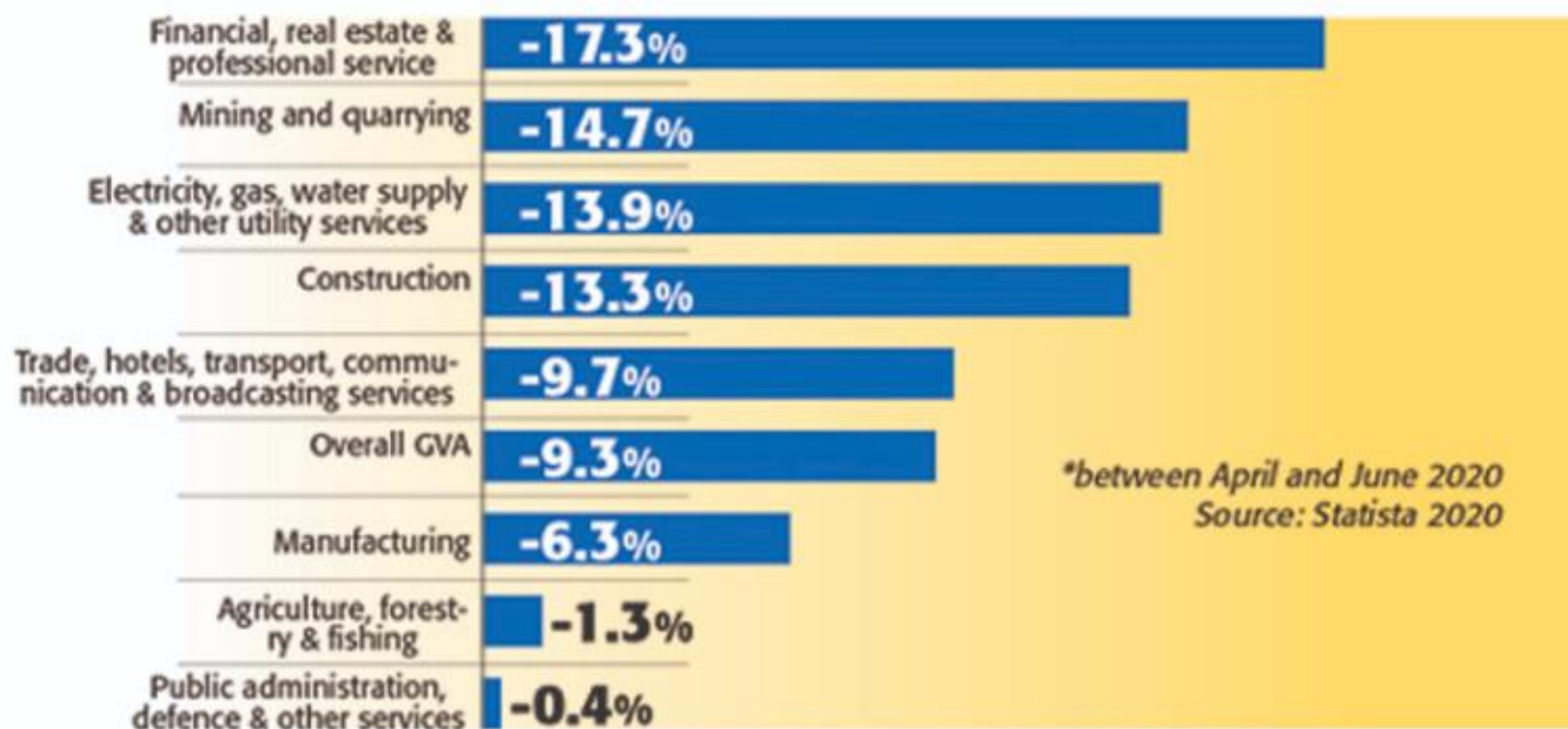
**From 1 Feb till date

Turbulence hurts



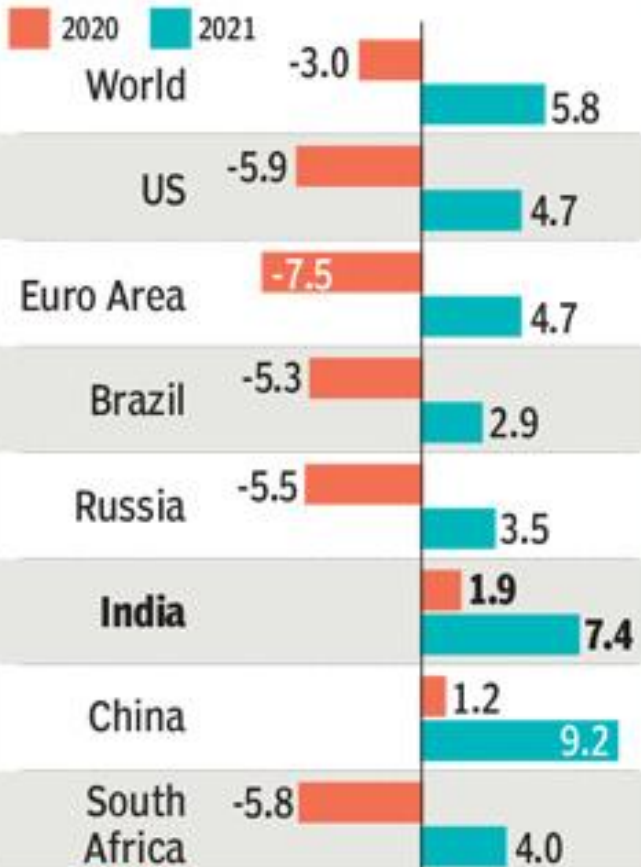
Source: Mospi, commerce ministry, Bloomberg, Mint research

ESTIMATED IMPACT FROM COVID-19 ON INDIA BY SECTOR GVA



HOW TOP ECONOMIES MAY PERFORM

IMF's growth (%) projections



WHAT OTHER AGENCIES SAY ON INDIA

GROWTH FORECAST (%) FOR 2020-21



“This is a crisis like no other, and there is substantial uncertainty about its impact on people's lives and livelihoods... This makes the Great Lockdown the worst recession since the Great Depression, and far worse than the Global Financial Crisis

GITA GOPINATH | CHIEF ECONOMIST, IMF



TOI

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Impact on different Sectors

- The travel and tourism industry has been very severely affected.
- The Indian Association of Tour Operations(IATO) estimated the hotel, travel and aviation sector to incur losses of up to Rs 8,500 crores.
- The Indian cinema industry likely face a loss of INR 200-250 crores over the next 2-3 months.
- Passenger cars alone, production reduced by 240,000 units(10% of total annual production)
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Impact on different Sectors

- Due to travel restrictions revenues have taken a hit in the railway, airline, and cab segment of the transportation.
- Activities at seaport has ceased with a decline in Export and Import.
- According to CLSA report pharmacy, chemical and electronics business might see supply chain issues and prices might go up by 10%
- The main concern is unemployment. As people in every sector are at risk of losing their job.

Opportunity amongst threats

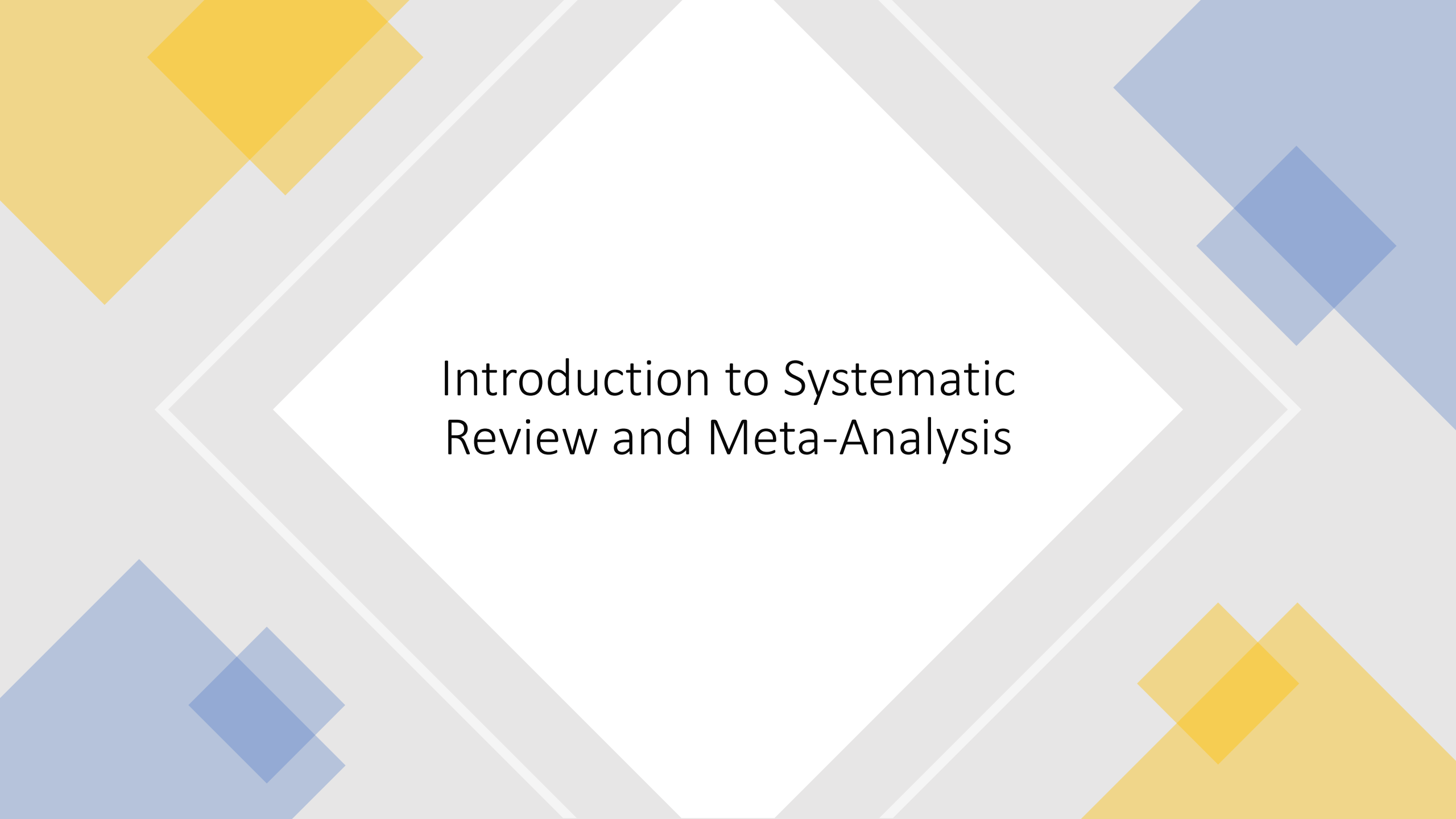
- Digital and Internet Economy
- Online skill development
- Online Groceries
- Digital Content
- Specialty chemicals
- Pharma
- Atmnirbhar Bharat- Alternative to China.

Conclusion

- The main concern for government is saving lives of people in this pandemic.
- There are Postponement of non-emergency procedures and appointments
- Leading to 30% drop in patients nationwide
- India is expected to recover from this shock in Q4 FY 2021.

Reference

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Introduction to Systematic Review and Meta-Analysis

Introduction



Introduction to Systematic Review and Meta-Analysis is an online course offered by Johns Hopkins University on an online learning platform, Coursera. It is a 6-week graded course with 9 modules along with 2 peer reviewed assignments.



The course has two instructors, Dr. Tianjing Li, an Assistant Professor of Epidemiology and Dr. Kay Dickersin, Professor of Epidemiology at John Hopkins University. The course introduces to comprehensive methods for performing systematic review and meta-analysis.

Course Objectives

An Introduction to Systematic Review and Meta-analysis was created with three objectives,

1. To learn the steps that comprise a systematic review and meta-analysis.
2. To be able to read critically in the future, read the literature of a systematic review and meta-analysis.
3. To be able to integrate the results of systematic reviews in research or clinical practice.

Course Contents

There are seven steps to perform a Systematic Review:

1. Establish a research team
2. Develop a protocol
3. Data collection, locating the studies and screening the results
4. Abstract data and appraise risk of bias in the individual studies
5. Synthesize findings, interpret, and assess overall body of evidence
6. Summarize in a Report
7. Update

Framing the Question:

Components of Well-Constructed and Answerable Clinical Questions,

- **P** – Patients or populations
- **I** – Interventions/Exposure
- **C** – Comparison group(s)
- **O** – Outcome



Assessing the Risk Of Bias in Clinical Trials:

There are three main types of bias:

- Selection bias
- Information bias
- Bias in the analysis.



MINIMIZING METABIAS:

Reporting guidelines that help identify areas to consider for reducing bias:

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- 
- 
- PRISMA: It is the reporting guideline for systematic reviews of clinical trials.
 - MOOSE: It is old but still useful reporting guideline for observational studies.

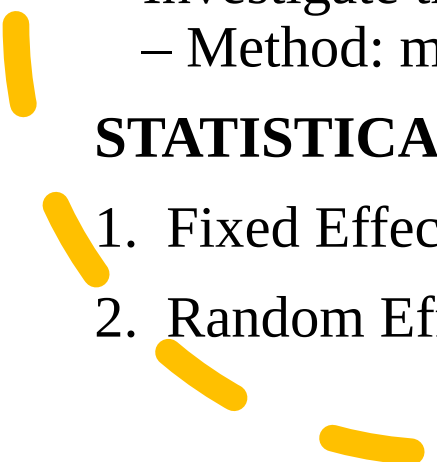


PLANNING THE META-ANALYSIS:

Analysis Plan:

- Obtain size of effect from similar studies estimating the same effect – Method: Standard pair-wise meta-analysis
- Compare multiple intervention for the same condition – Method: Network meta-analysis.
- Investigate the relationship between the size of an effect and characteristics of the studies – Method: meta-regression.

STATISTICAL METHODS FOR META-ANALYSIS:

1. Fixed Effects Model
 2. Random Effects Model
- 

Methodology

The course is a 6-week online course (approximately 16 hours) divided into 9 modules. The course has 41 videos, 3 readings and 2 peer graded assignments. Weeks 2 to 5 have a graded quiz of 5 questions at the end of the module.

All the videos are concise and in lucid English language with subtitles to understand. The course is very insightful and contains a discussion page for learners to discuss and ask doubts to the course guide. There are various appropriate pictures and tables used for better understanding.



Key Learnings



Describe the stages of conducting a systematic review.



Formulating an answerable research question using the “Participants Interventions Comparisons Outcomes (PICO)” framework.



Collection and extraction of data from clinical trial studies.



Critically appraise the risk of bias of studies.



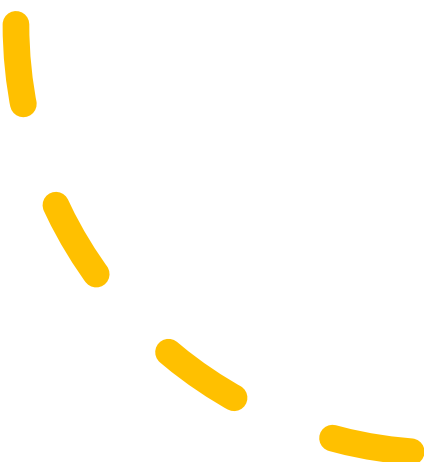
Explain and interpret the results of meta-analyses.



References

<https://www.coursera.org/learn/systematic-review>





Thank you