

Summer Training at
Public Health Foundation of India (PHFI), Gurgaon.
April 2020-June 2020

- **ASSESSMENT OF COVERAGE AND INFRASTRUCTURE OF
EMPLOYEES' STATE INSURANCE SCHEME**
- **INTRODUCTION TO SYSTEMATIC REVIEW AND META-ANALYSIS**

Under the guidance of Dr. Alok Mathur



A Report by
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MBA- Hospital and Health
Management
2019-2021

Contents-

- Part1-Remote internship



- Part 2-Online course



S.W.O.T Analysis of Remote Learning

STRENGTHS	WEAKNESS
• Competent mentors and teachers. • Practicing physical distancing. • Work and home balance. • Ease of accessibility to data. • Compliance with changing circumstances. • Shared decision making.	• Reiteration of tasks. • Interruption in networks. • Decreased interpersonal communication between colleagues. • Power cut issues.
OPPORTUNITY	THREATS
• Inculcating paperless working. • Skill development in virtual learning. • Open environment for the prosper of ideas. • Participation in the multiple, relevant researches.	• Risk of modified work environment. • Incoordination in timing of work among the colleagues. • Inability to learn from experience of mentors.

A statutory body under the Ministry of Labour and Employment

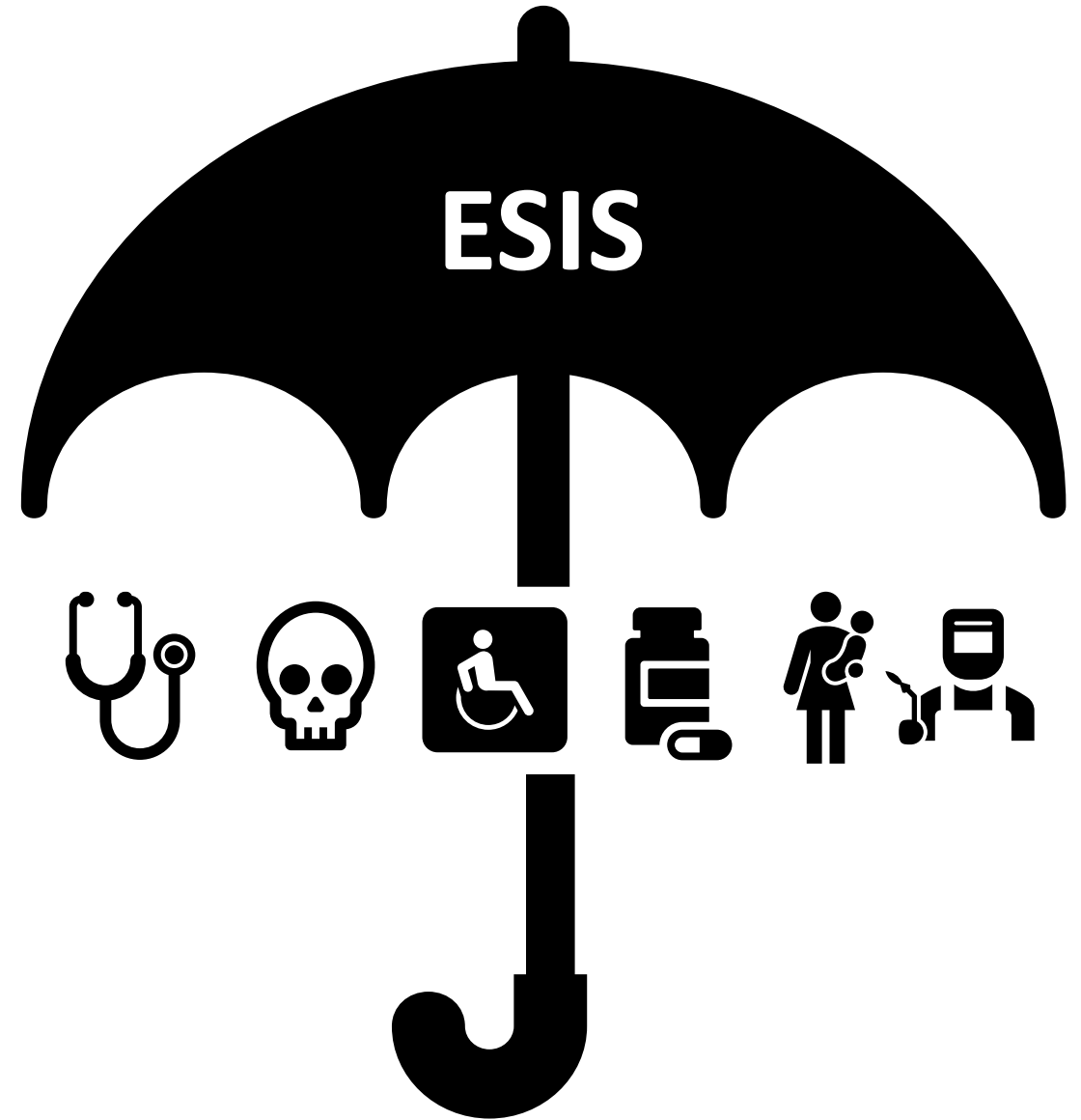


Part 1-Remote Internship

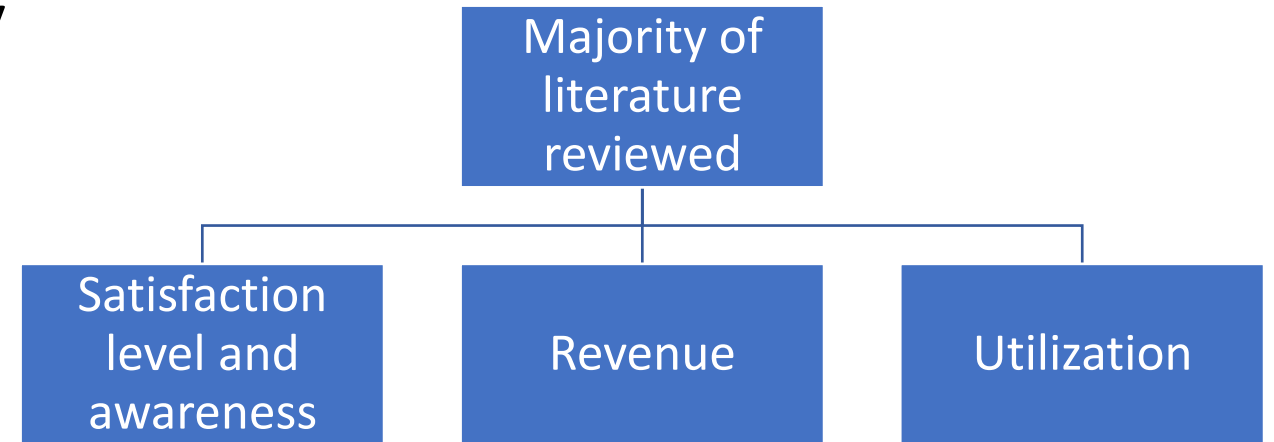
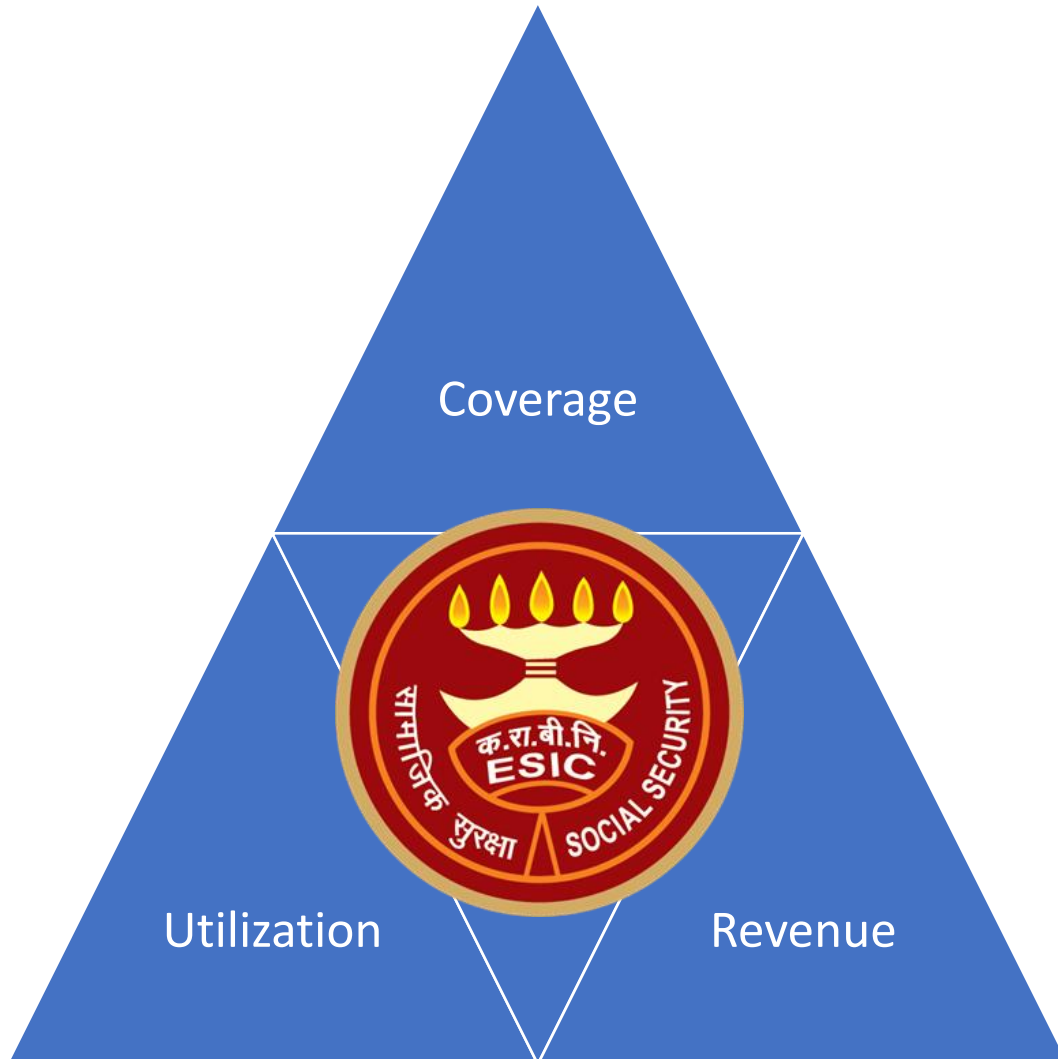
**Assessment Of
Coverage And
Infrastructure Of
Employees' State
Insurance Scheme**

Introduction

- Employment State Insurance Scheme (ESIS) is a self-financed, unified and multifaceted Indian social security system for the employees and their dependents of the organized sector of employment, covering and encompassing the whole nation.
- With the launch in 1952, the Employment State Insurance Corporation (ESIC) panels the functioning of ESIS.
- In factories commissioning 10 or more persons and establishment commissioning 10 or 20 or more persons relying on the norms of different States, in the notified zones.
- This is accomplished with the minimal contribution paid in form of premium.
- Attaining societal safety by providing monetary benefits and cash payments in hours of need for the workers of the organized sector is foremost goal of the scheme.



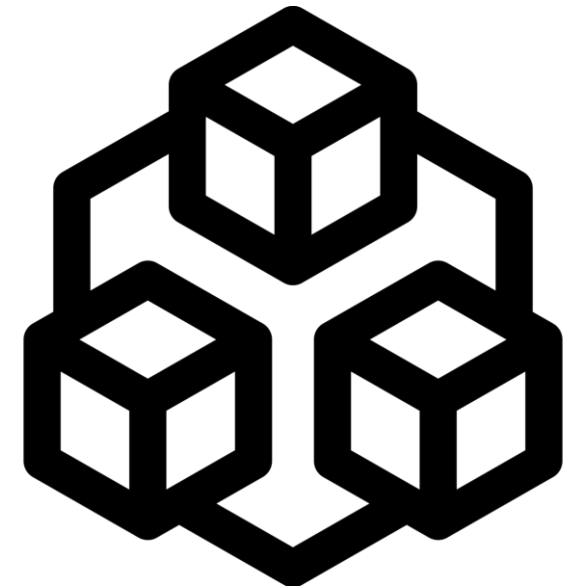
Rationale of the study



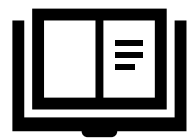
- ESIS holds importance in the Indian context. However, less data is documented about coverage and infrastructure of ESIS country wide. Therefore, to fill this existing gap in literature we conducted a descriptive study to assess the coverage and infrastructure of ESIS.
- The data for these indicators has been taken from the annual reports of ESIC from year 2000 to 2018. This will further help to explore and bridge the gap in the literature regarding coverage and infrastructure of ESIS.

Objectives of the study

- The objective of the study is to assess the coverage and infrastructure under the ESI corporation over the year 2000 till 2018 and interpret the trend and patterns wherein the corporation is lacking to implement effective and efficient ways to provide social security to the labor class.
- To assess the extent and dimension of coverage and infrastructure under ESIC over a time period of 2000-2018.
- To assess the gaps in coverage and infrastructure under ESIS..



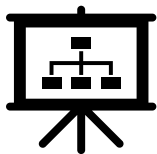
Methodology



Descriptive Design



2000-2018



Tables and Graphs



ESIC Annual Reports

Indicators used to assess the coverage and infrastructure are as follows:.

1.Coverage- Number of :



States/UTs



Employers



Employees



Family Units



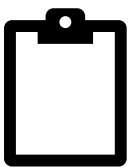
Implemented
Centers



Beneficiaries



Women



Inspections
& Surveys



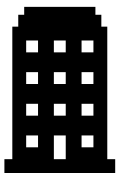
Hospitals & Annexes



Dispensaries



Beds



Inspection Offices



Insurance Medical
Practitioners



Insurance
Medical Officers

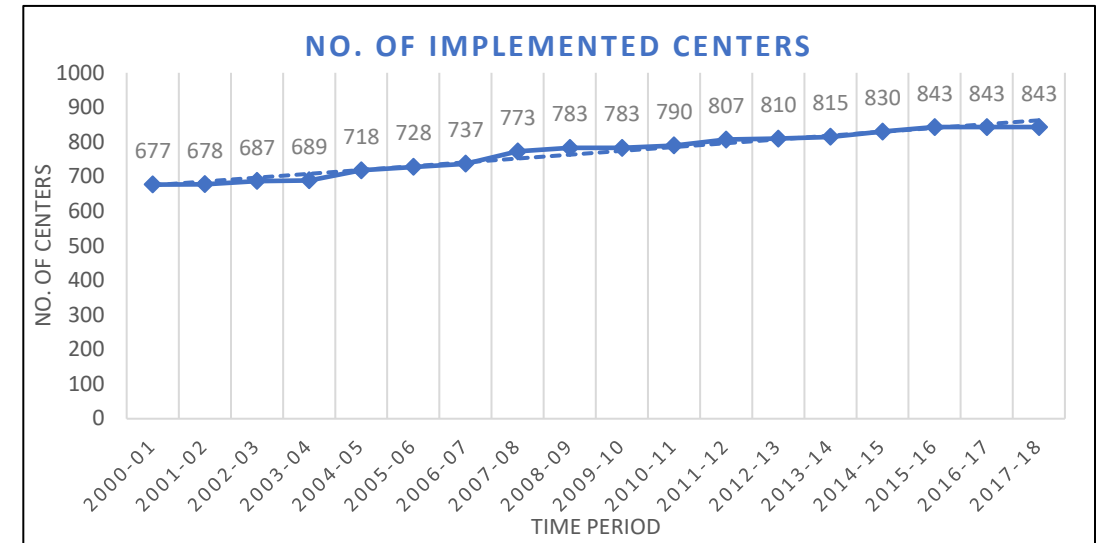
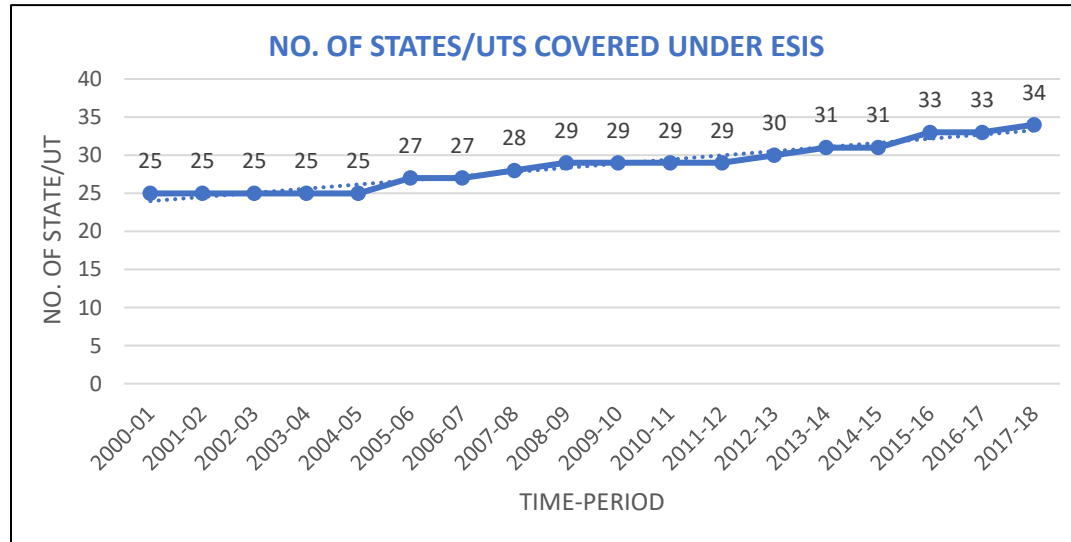


Beds
Commissioned

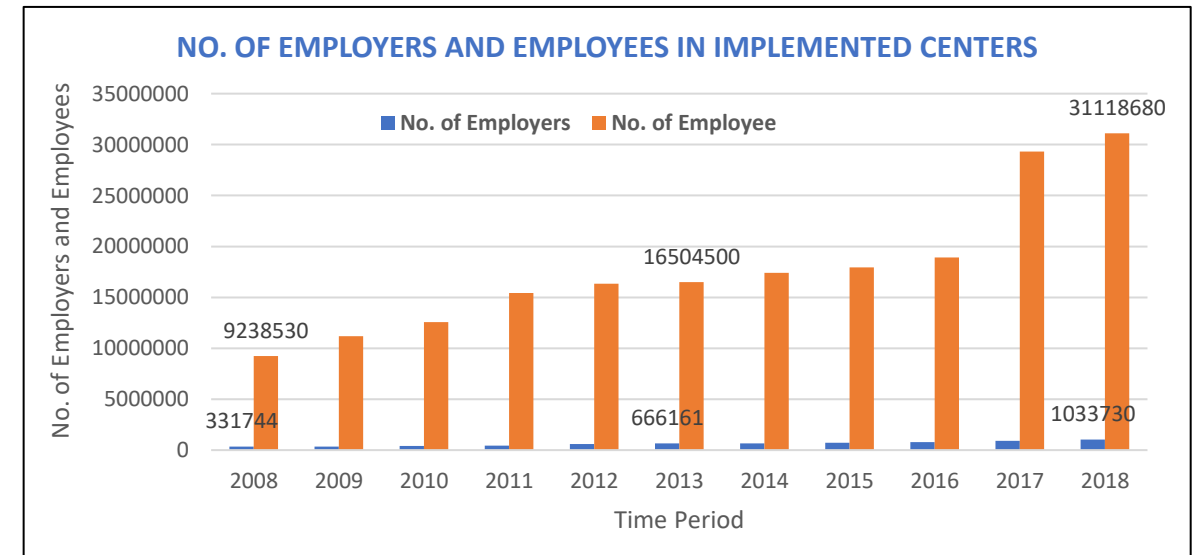


Indian System of
Medicine(AYUSH)

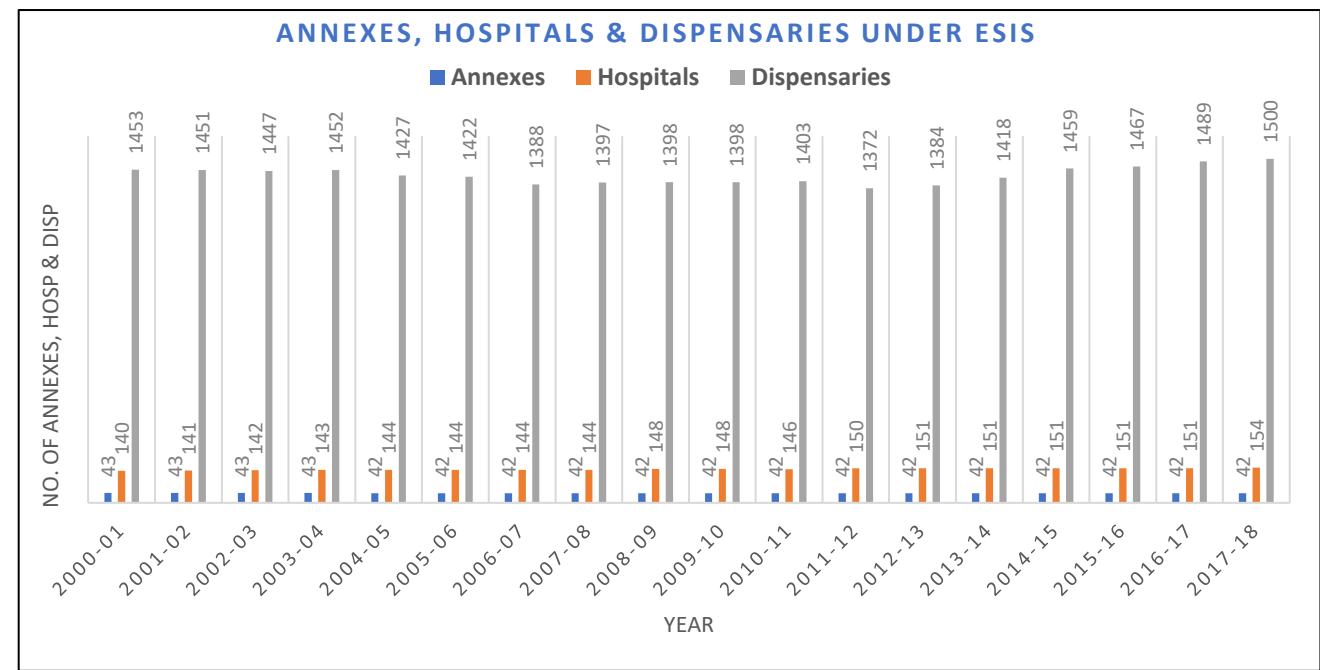
Findings



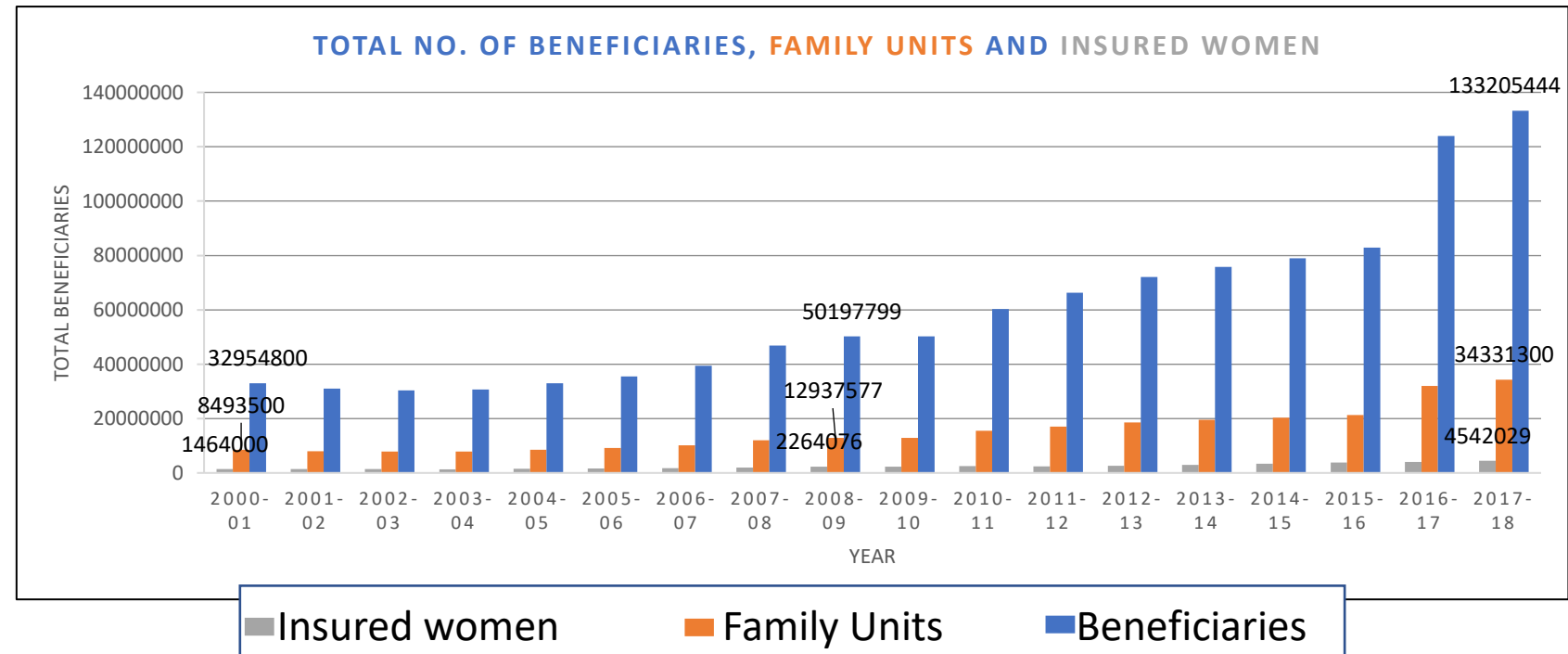
- While the number of States and Union Territories showed a growth of 36%, the implemented centers grew by 24.50% .
- The nationwide total number of employees and employers both increased approximately by 334%



- The annexes decreased by 2.38% and the hospital increased by 10% but the dispensaries increased only 3%

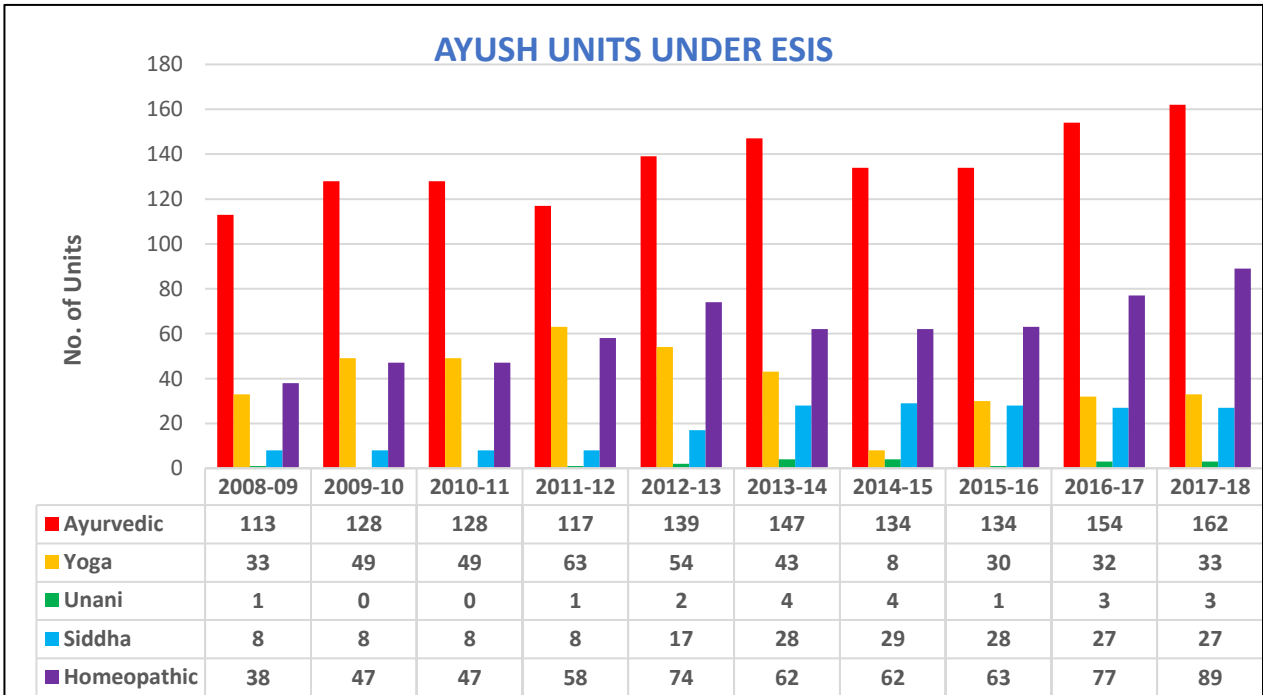
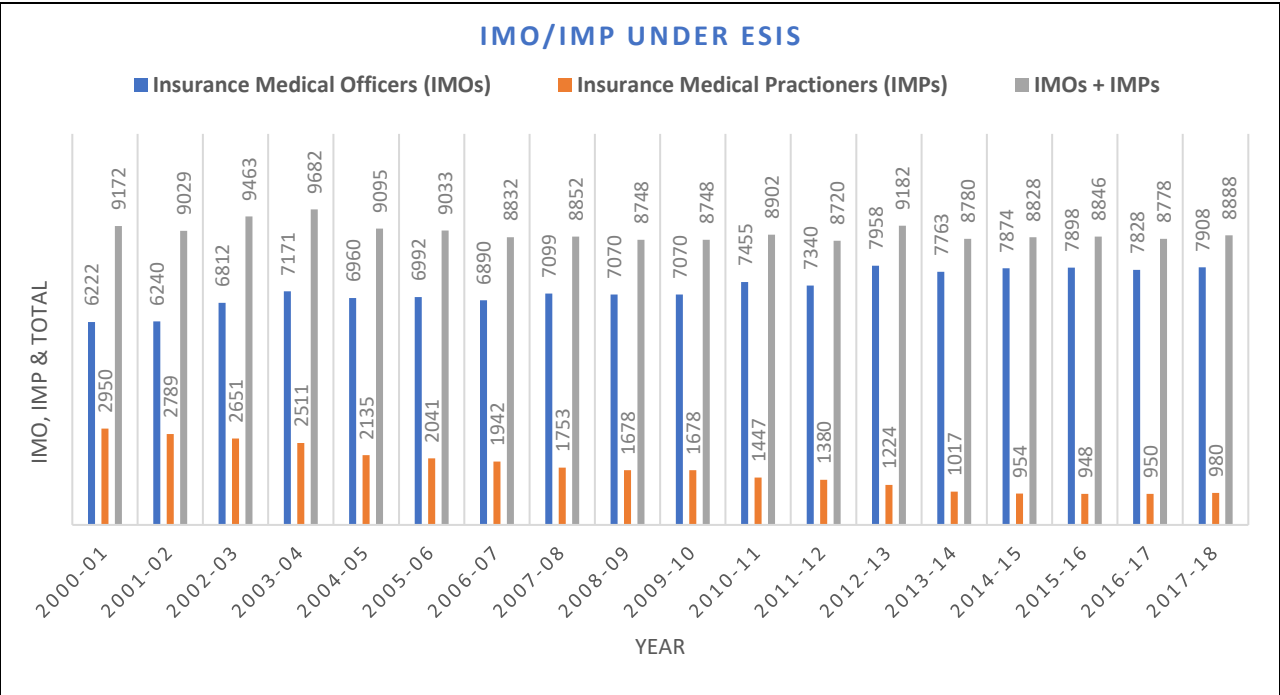
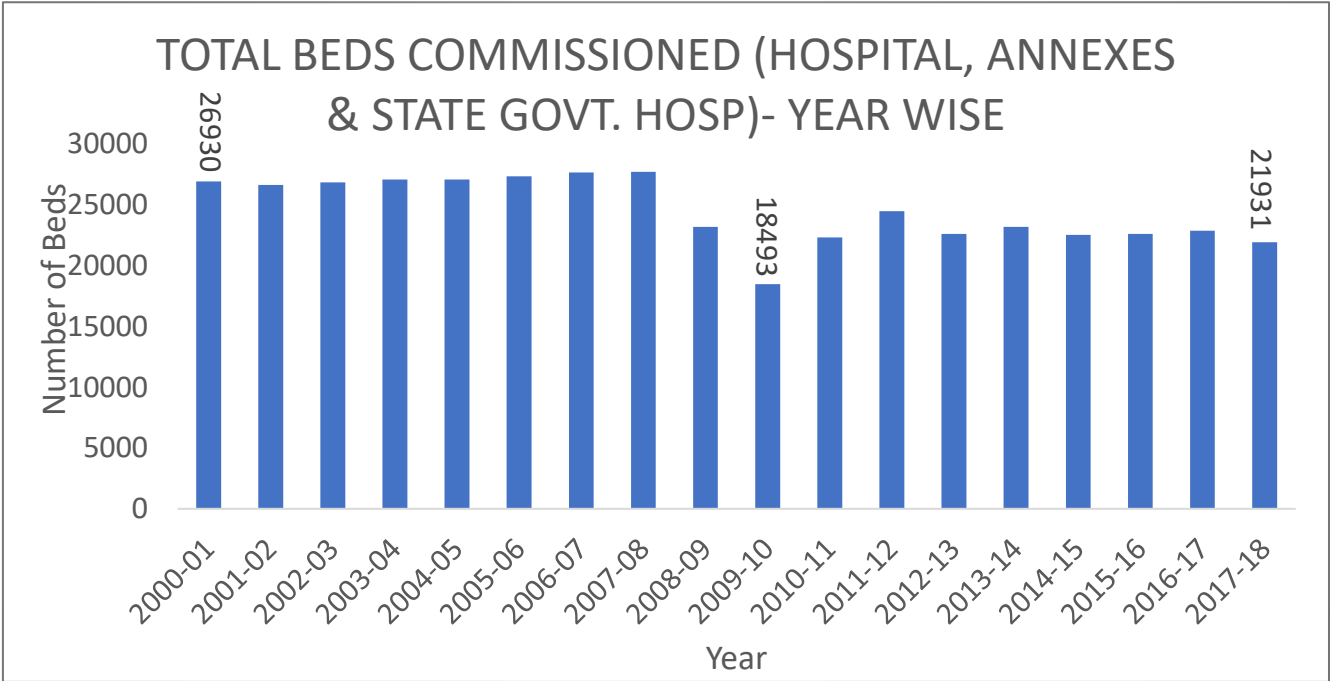


- Growth%
 - Beneficiaries- 304%
 - Family Units- 304%
 - Insured Women- 210%

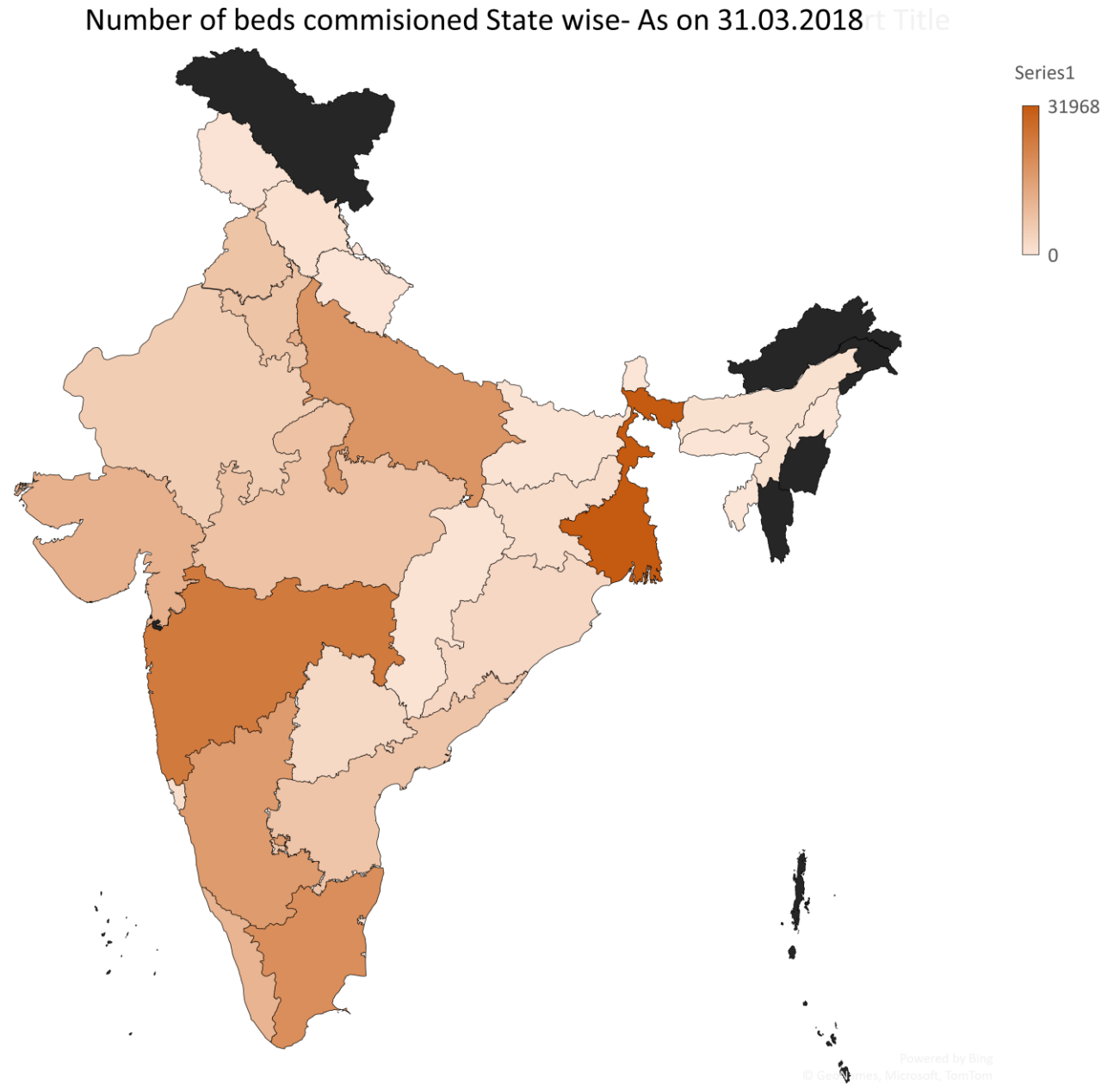


The total number of beds commissioned declined by 18% with 3% decline in IMPs + IMOs collectively.

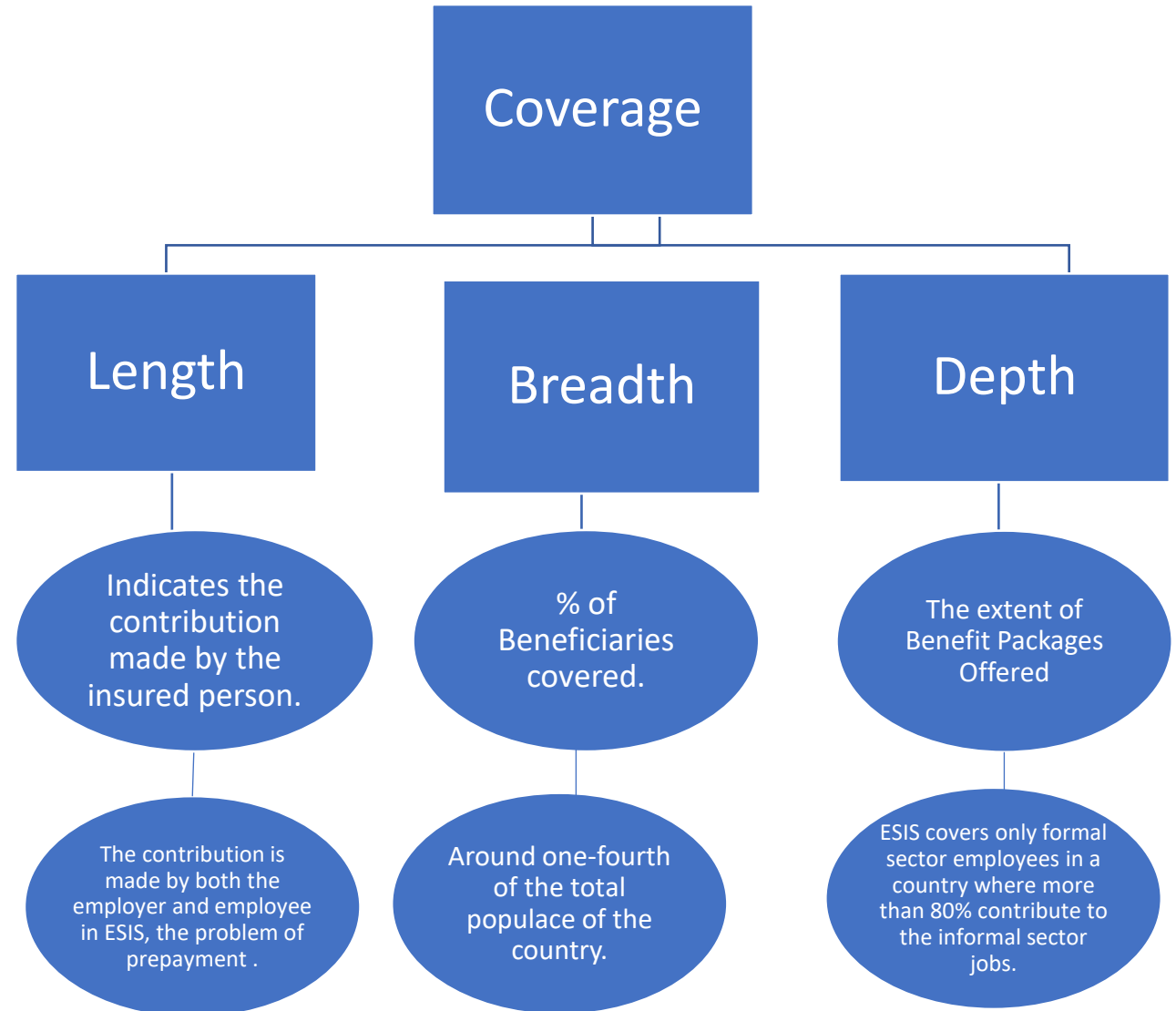
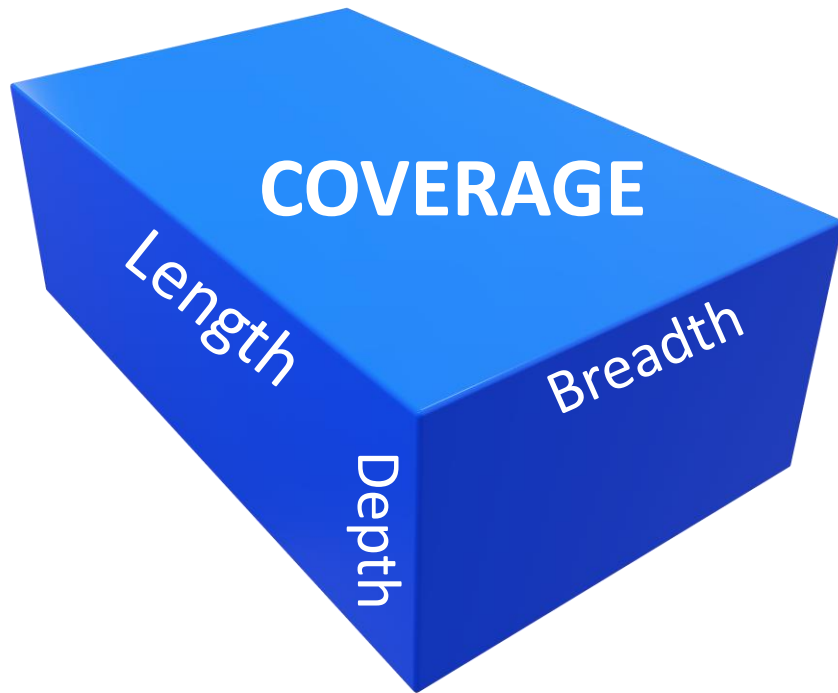
AYUSH industry showed a new boom with a growth of 62%



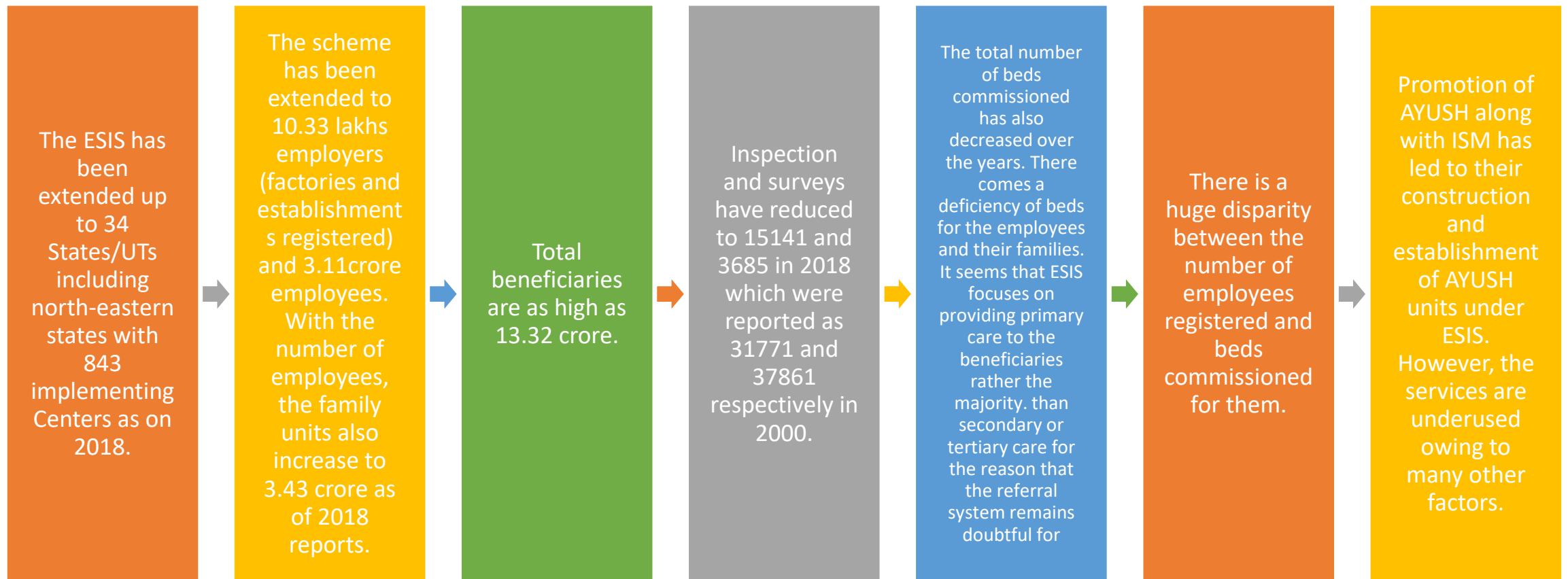
- As on 31.03.2018, the state wise data of Indian states and Union territories showed absence of commissioned beds in Ladakh, regions of Arunachal Pradesh, Manipur and Mizoram.
- West Bengal and Maharashtra show highest grade of commission.



Conclusive Dimensions of Coverage



Conclusions



Recommendations

Ladakh and Manipur, 2 out of the total 36 States and Union Territories, are yet to be covered under the ESIS.

Inspections and surveys are to be further to be increased, registered and collaborated with proper monitoring, evaluation and functioning of the infrastructure of the scheme. Consequently, further helping in formulating policies and scrutinizing the working of the scheme as well.

The number of beds and diagnostic facilities should increase proportionately with the number of insured employees and their families to have a balance between the two.

Expansion of AYUSH amenities through coverage and infrastructure can further develop ESIS.

The coverage should be extended to informal/unorganized sectors like the agricultural workers, small- and medium- scale businesses too encompassing the disparities like migration.

Exploration and abridging the gaps in ESI scheme with further study and research is the way forward.

- Ahlin, Tanja, Mark Nichter, and Gopukrishnan Pillai. 2016. “Health Insurance in India: What Do We Know and Why Is Ethnographic Research Needed.” *Anthropology & Medicine* 23(1): 102–24. <https://www.tandfonline.com/doi/full/10.1080/13648470.2015.1135787> (May 26, 2020).
- Centre for Occupational and Environmental Health. 1996. “Employees’ State Insurance Scheme.”
- Dash, U, and VR Muraleedharan. 2011. “How Equitable Is Employees’ State Insurance Scheme in India: A Case Study of Tamil Nadu.” *Department of Humanities and Social Sciences Indian Institute of Technology Madras*.
- ESIC Annual Report. 2017. *ESIC Annual Report 2017-18*. ESI. Annual Report.
- Forgia, Gerard, and Somil Nagpal. 2012. *Government-Sponsored Health Insurance in India: Are You Covered?*
- Garg, Prema. 2018. “AN ASSESSMENT OF THE WORKING MECHANISM OF EMPLOYEES STATE INSURANCE CORPORATION.”
- *INSURANCE INSTITUTE OF INDIA*. 2015. . Annual Report.
- International Labour Organisation. 1996. “International Labour Standards on Social Security.” <https://www.ilo.org/global/standards/subjects-covered-by-international-labour-standards/social-security/lang--en/index.htm> (May 26, 2020).
- K Jayaprakash, Raju Dr HG, and Thanuja Dr R. 2016. “Employees State Insurance (E.S.I) Corporation.” *JOURNAL OF THE INDIAN ASSOCIATION OF PUBLIC HEALTH DENTISTRY Vol:2011 ISSUE:18* 2011(18).
- Kannan, K., and N, V. 2007. “Social Security in India: The Long Lane Treaded and the Longer Road Ahead Towards Universalization.” https://www.researchgate.net/publication/24116523_Social_Security_in_India_The_Long_Lane_Treaded_and_the_Longer_Road_Ahead_Towards_Universalization (May 15, 2020).
- M, Divya, and Dr. B.Vijayachandran Pillai. 2014. “AN ASSESSMENT OF AWARENESS AND SATISFACTION ON EMPLOYEE STATE INSURANCE SCHEME IN THE SERVICE SECTOR IN KERALA.” *International Journal of Management and Social Science Research Review, Vol.1, Issue.5, Nov - 2014*. VOI 1(ISSUE 5).
- Mann, Jeet Singh. 2010. *Comprehensive Social Security Scheme for Workers*. Deep and Deep Publications.
- Mehta, Usha. 1961. “THE WORKING OF THE EMPLOYEES’ STATE INSURANCE SCHEME IN INDIA: AN ASPECT OF CENTRE-STATE RELATIONS.” *The Indian Journal of Political Science* 22(3): 205–13. <https://www.jstor.org/stable/41853882> (May 21, 2020).
- Ministry of Labour and Employment, GOI. 2019. “Employees’ State Insurance Corporation, Ministry of Labour & Employment, Government of India.” <https://www.esic.nic.in/> (May 15, 2020).
- Mitra, Deblina. 2017. “Effectiveness of Medical Benefits under ESI Scheme: A Study on the Employees of Organised Sector in Kolkata.” VOL-2*(ISSUE-3*).
- Murugan, K. R., and K. Manimekalai. 2019. *Social Exclusion and Inclusion of Women in India: Volume - 2*. MJP Publisher.
- Nandi, Arindam, Ashvin Ashok, and Ramanan Laxminarayan. 2013. “The Socioeconomic and Institutional Determinants of Participation in India’s Health Insurance Scheme for the Poor.” *PLOS ONE* 8(6): e66296. <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0066296> (May 26, 2020).
- National Health Portal of India. 2015. “Employment State Insurance Scheme (ESIS) | National Health Portal Of India.” https://www.nhp.gov.in/employment-state-insurance-scheme-esic_pg (May 15, 2020).
- Pritchett, Lant, and Lawrence H. Summers. 1996. “Wealthier Is Healthier.” *The Journal of Human Resources* 31(4): 841–68. <https://www.jstor.org/stable/146149> (May 26, 2020).
- Verma, Ramesh et al. 2012. “Evaluation of Utilization of Health Care Services under Employees State Insurance Scheme in District Rohtak, Haryana.” *Indian Journal of Health and Wellbeing* 2012, 3(3), 688-691 3(3)(688–691).
- WHO. 2020. “Constitution.” *Definition of Health*. <https://www.who.int/about/who-we-are/constitution> (May 26, 2020)

References

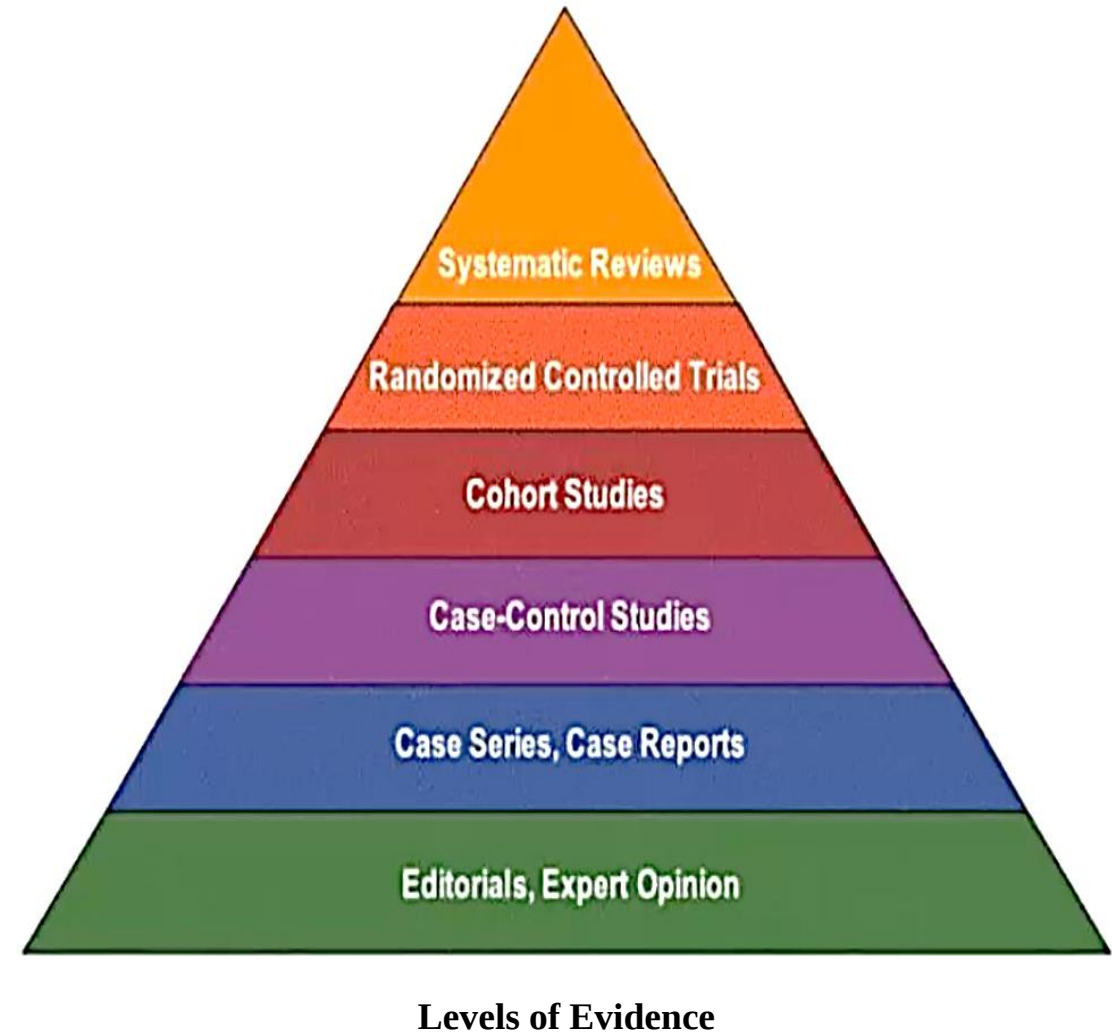


Part 2- Online Course

- **INTRODUCTION TO SYSTEMATIC REVIEW AND META-ANALYSIS**
- **By John Hopkins University**

COURSE DESCRIPTION

- The course on “Introduction to Systematic Review and Meta-analysis” of Randomized Control Trials, requires six weeks of commitment with four-six hours per week.
- This course helps in the formulation of an accountable research question, describe exclusion and inclusion measures, the examination of the evidence, excerpt data, evaluate the menace of bias in randomized clinical trials and complete a meta-analysis. The course is English with the availability of subtitles.
- The course is provided by John Hopkins University, who are premiers in the field of research and analysis in healthcare.



OBJECTIVES OF THE COURSE



To determine and understand the steps while conducting a systematic review and meta-analysis.



To gain the ability to critically read literature in systematic review and meta-analysis, in the future.



To advance the skill to assimilate the outcomes of the systematic review into the future works by answering “Participants Interventions Comparisons Outcomes” (PICO) outline and framework.



To gain knowledge of better practices doing searches, collecting, and extracting the data for systematic reviews.



To define means to critically evaluate the menace of “bias of clinical trials “and elaborate on the risk of bias.



To advance in the field of skill development with introduction and interpretation of metabias and qualitative synthesis.



To develop and refine clinical question that can be addressed by a systematic review

Course Contents

Video Lectures

Readings

Quizzes

Peer Review Assignments

Field Videos

Grading Policy

- The final grade is calculated as follows-
- Each quiz = 9 percent of the total grade. ($9 \times 7 = 63\%$)
- Peer Review 1 = 15 percent of the total grade.
- Peer Review 2 = 22 percent of the total grade.

Key Learnings



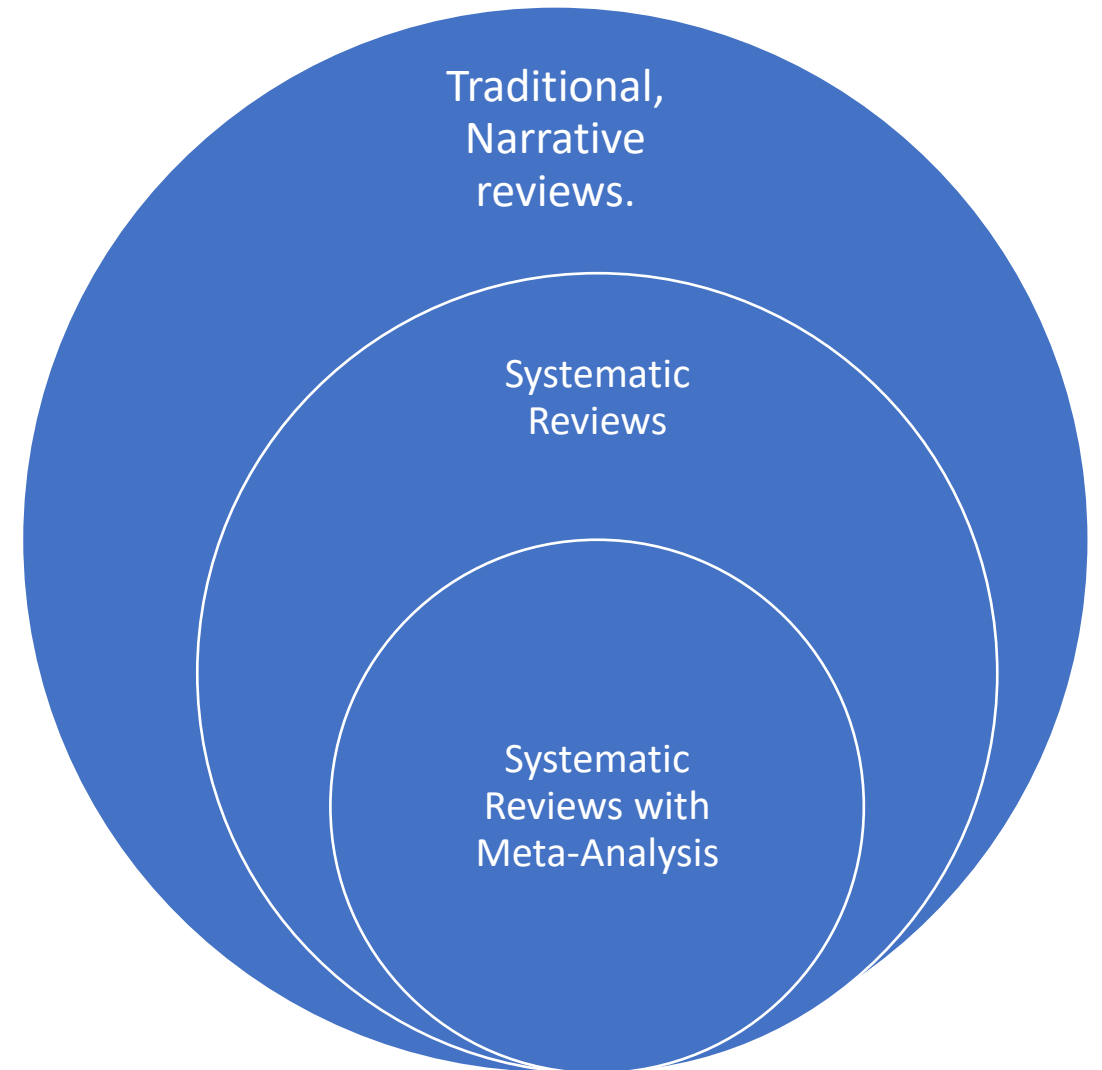
Systematic Review practices unambiguous, prearranged methods to categorize, select, evaluate, recapitulate, and produce results from comparable but distinct studies.



Meta-analysis is the numerical technique of investigating and quantifying a hefty assemblage of results from discrete studies.



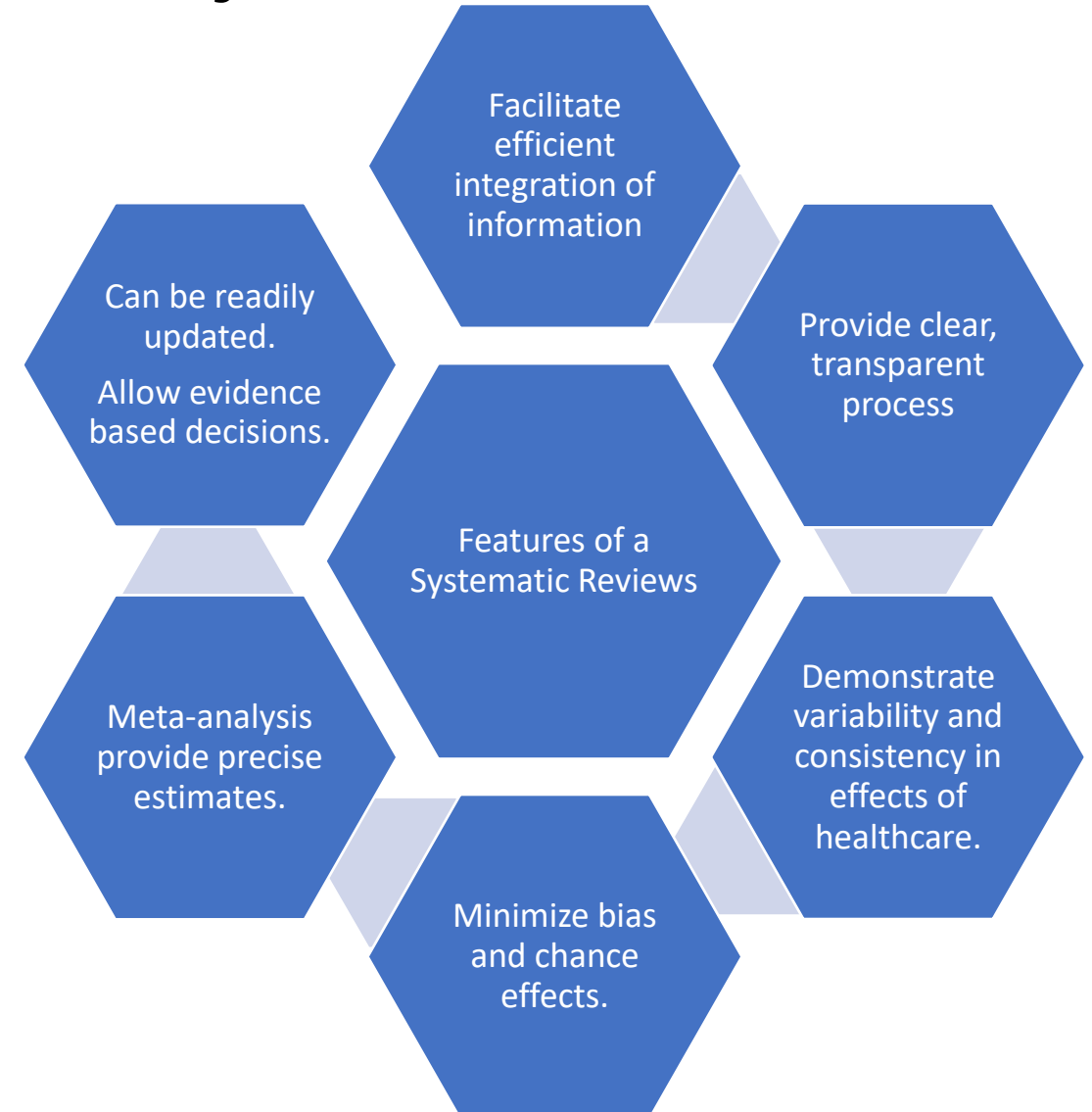
Systematic reviews summarize the evidence based healthcare, medicine, policy, public health and sky is the limit.



Steps of a Systematic Review



Features of a Systematic Reviews



Structure of Systematic Reviews



1. Background and description of motivation for meta-analysis.



2. Methods

Description of search strategy
Eligibility criteria
Description of data abstraction and management
Quality assessment
Statistical methods



3. Results

Search yield
Qualitative Synthesis
Quantitative Synthesis



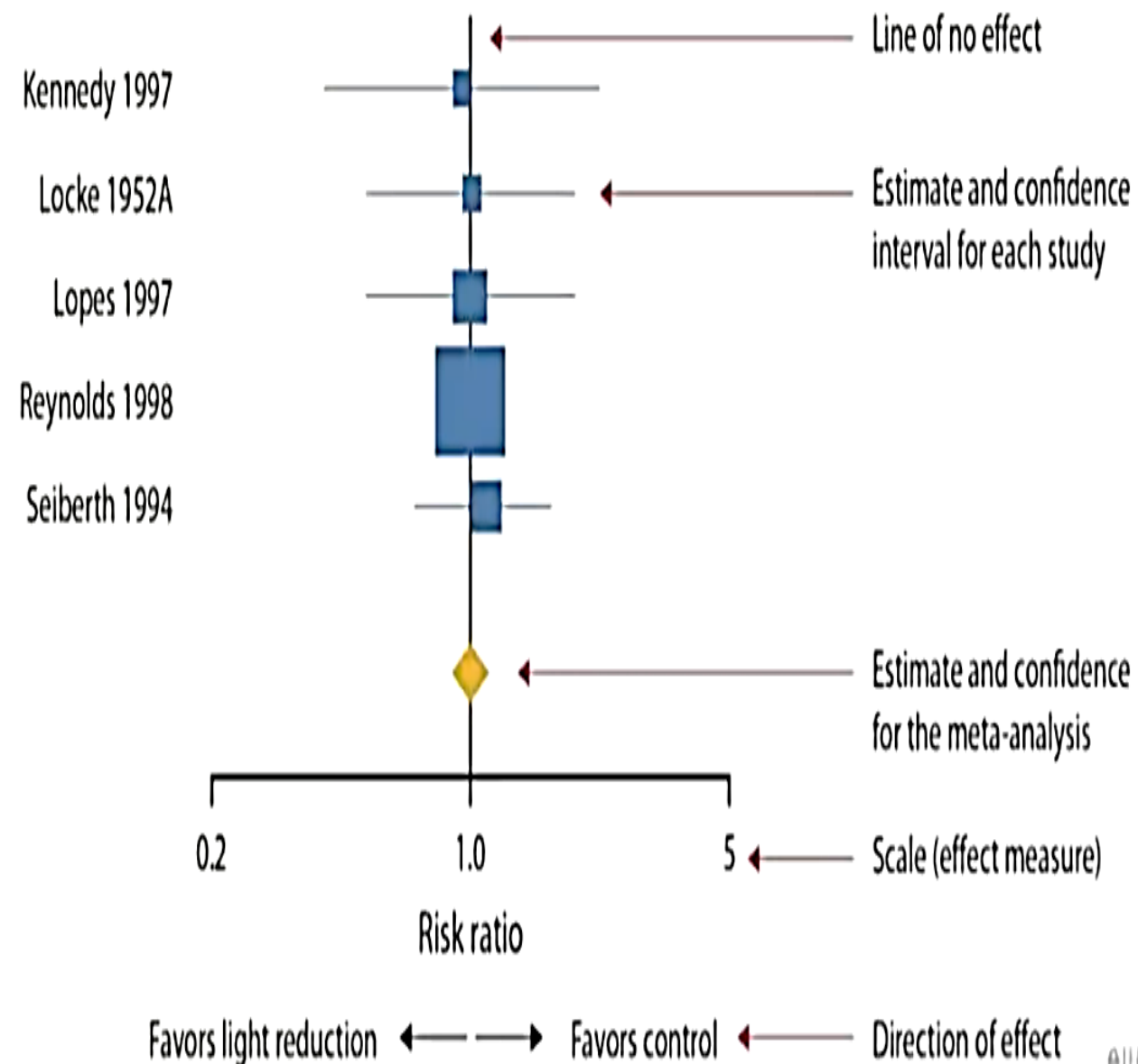
4. Discussion and findings.

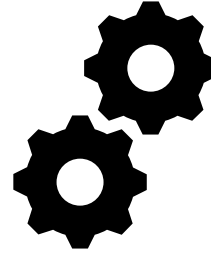
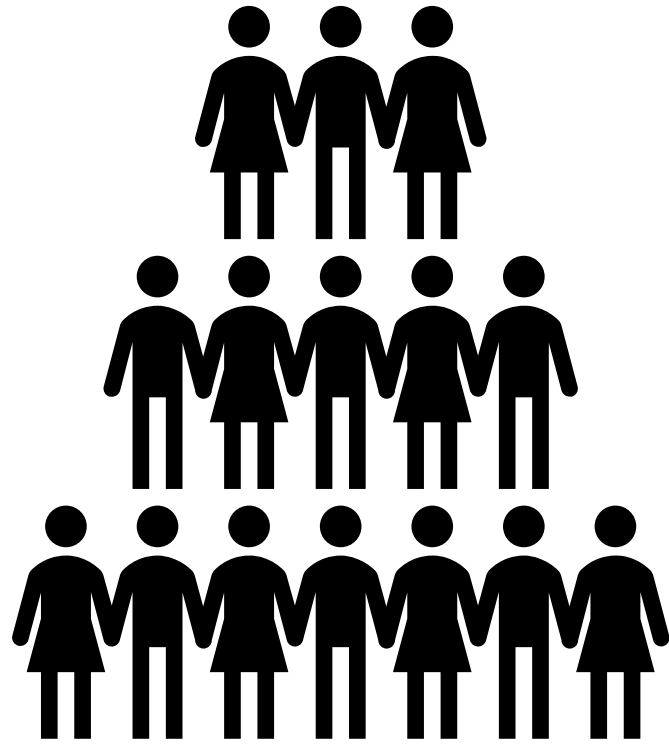
One Size Does NOT Fit All! Use Your Question Classification to Seek the Appropriate Type of Evidence

Question	Look for evidence from:
Incidence, prevalence	Surveys, cohort studies
Therapy	Clinical trials
Screening	Clinical trials
Diagnostic accuracy	Clinical trials, cross sectional studies
Prognosis	Clinical trials, cohort studies
Harm	Clinical trials, cohort studies, case control studies
Etiology	Cohort studies, case control

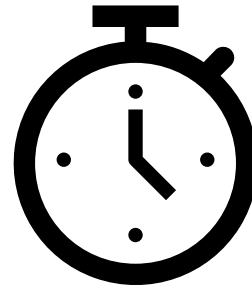
Major referential electronic databases are- “PubMed, MEDLINE, EMBASE, ISI web of science Cochrane library, national and regional databases, object-specific databases and citation databases.”

Estimates with 95% Confidence Intervals





Elements of an answerable question include-



P-Population with disorders, conditions or area of interests

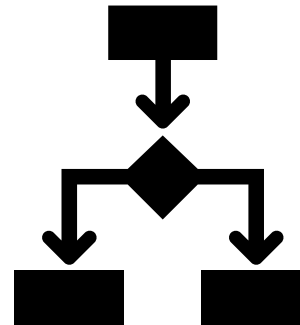
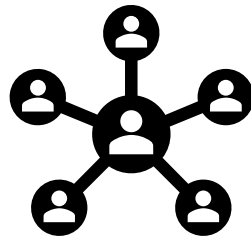
I-Intervention/exposure with a time interval, dosage concentration or course of administration

C-Comparison or control group

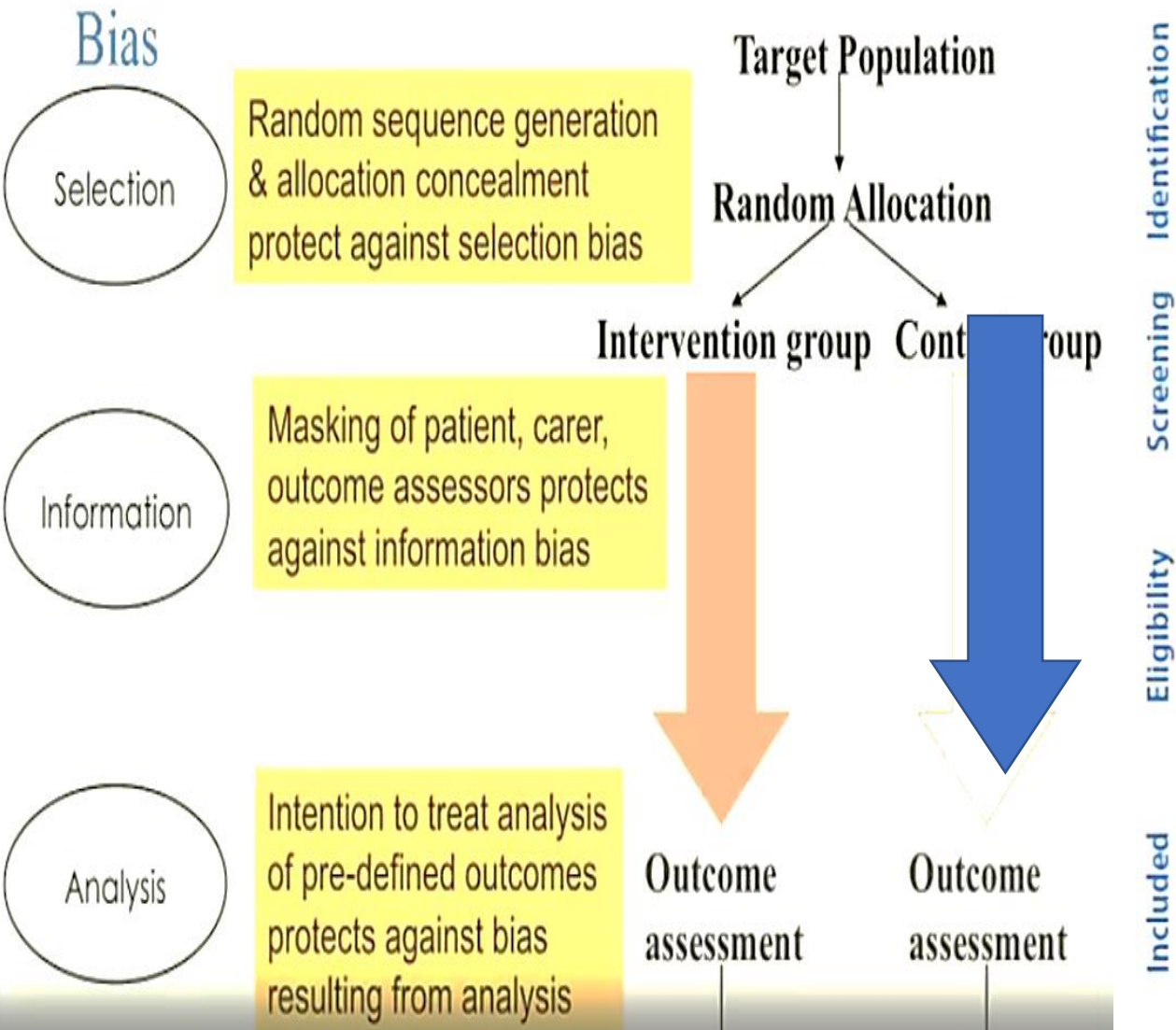
O-Outcome defining criteria

T-Timing or duration

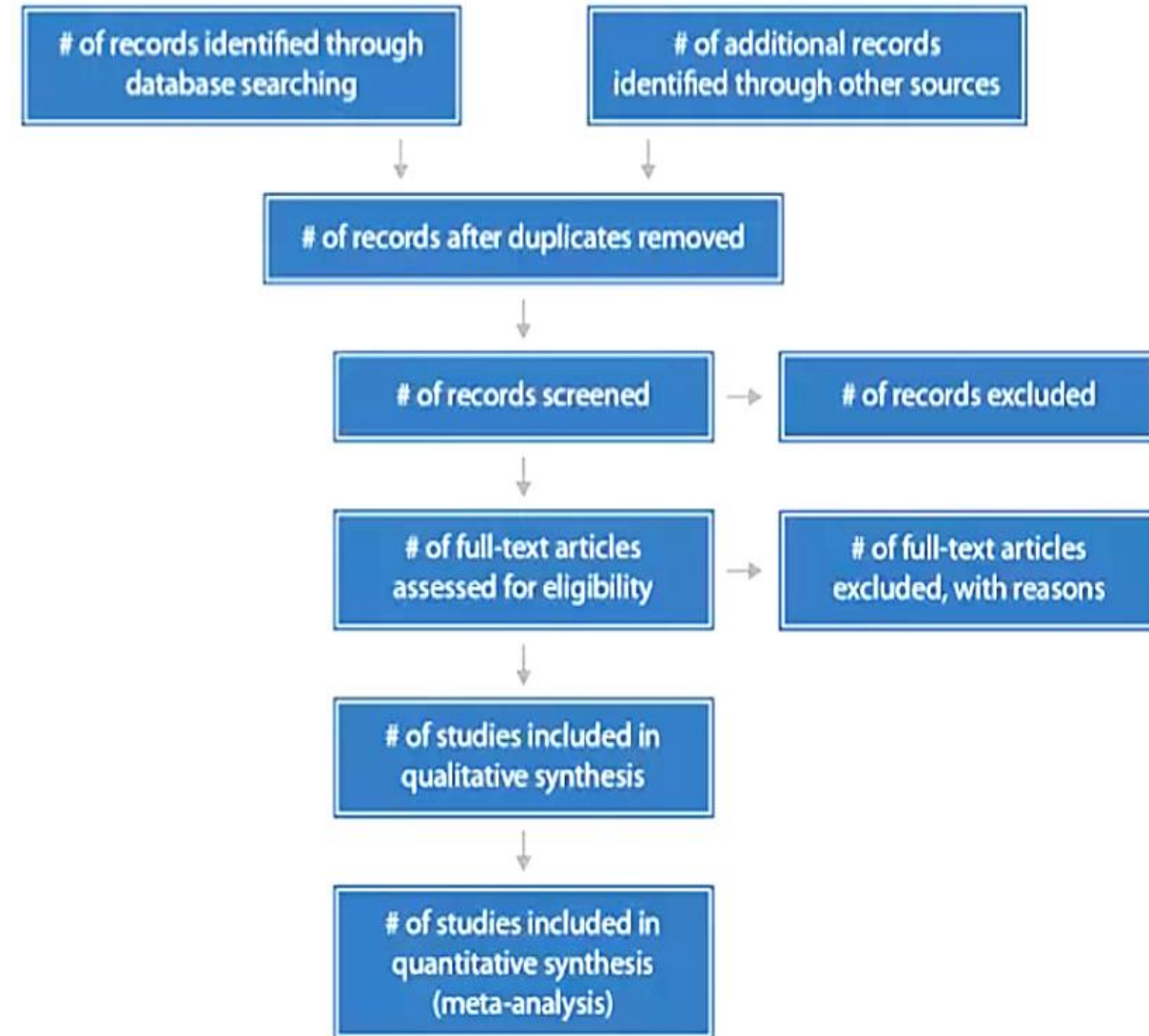
S-Setting



Sources of Bias and flow of information.



Flow of information through the different phases of a systematic review

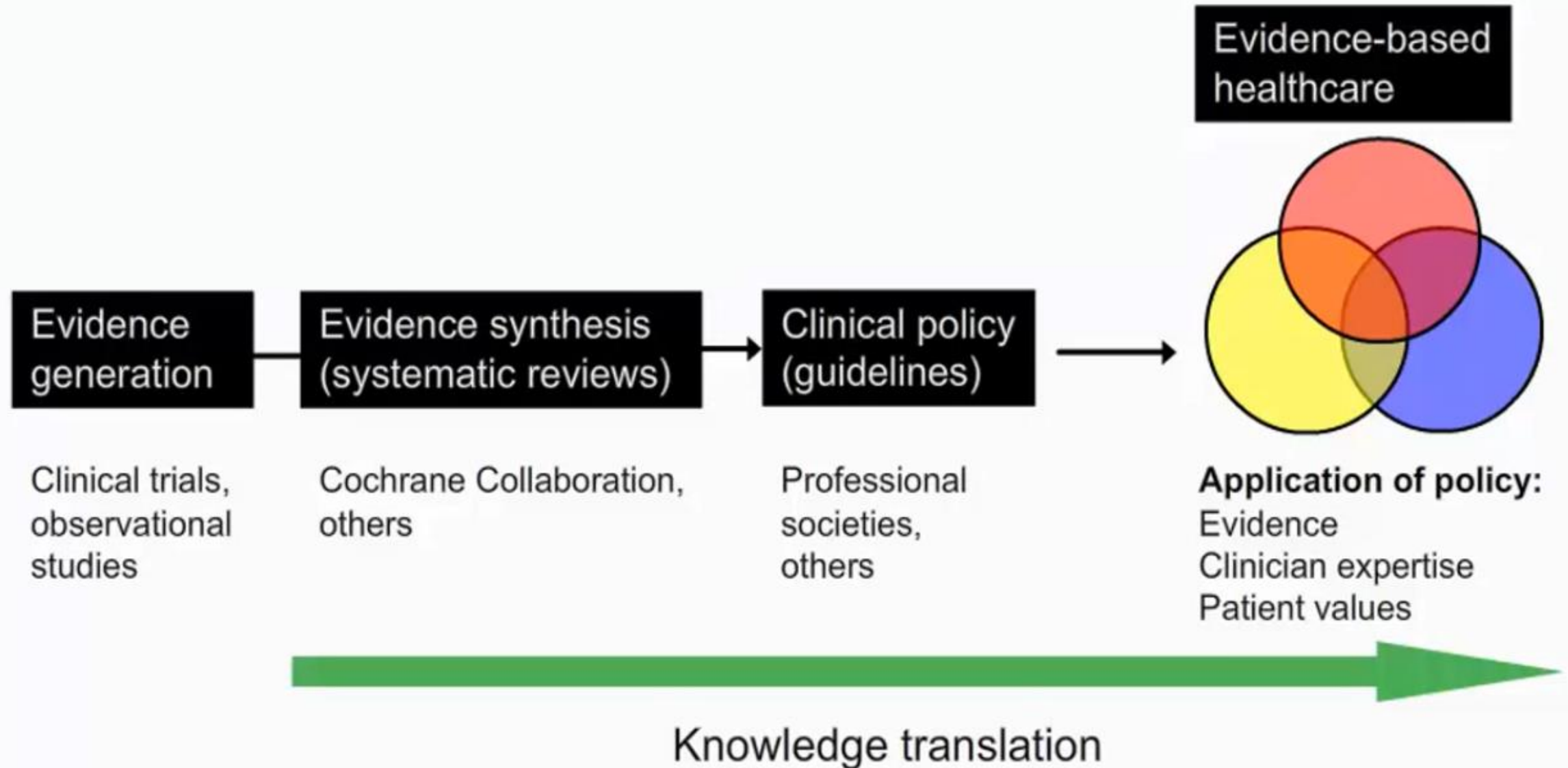


Public health implications.

- Systematic review is the highest level in the hierarchy of evidence for intervention study.
- Need of the hour to turn to evidence based policy, economics, healthcare and research.
- Engaging stakeholders and make the information accessible to them.
- A more efficient way for the evidence based needs assessment, capacity assessment and health assessment.



Knowledge Translation: from Clinical Research to Practice Decisions





Thank You