INNOVATION AND VALUE INITIATIVE

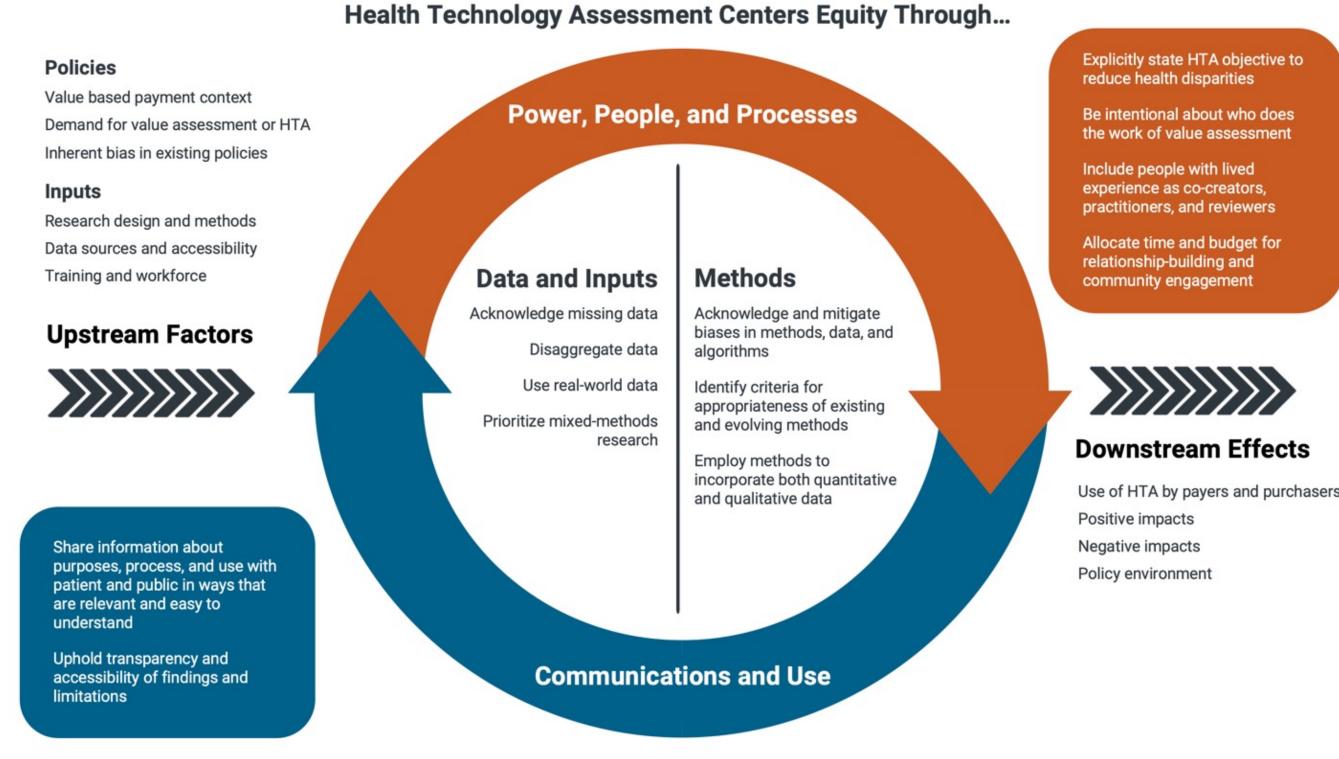
# BACKGROUND

- Prior multi-stakeholder interviews revealed a broad consensus that there is no value without equity, requiring an intentional focus on equity from the beginning through the entire HTA process.
- The IVI Health Equity in HTA Framework (Figure 1) provides a consensus-developed resource to drive practice change by all stakeholders in the HTA ecosystem.
- Practical guidance is needed on how to incorporate this framework into HTA, including a need to identify potential data approaches or methods from the current literature to ensure an equity-focused HTA process.

#### **STUDY OBJECTIVE**

This review aims to identify potential data approaches and methods to incorporate equity considerations in health economic evaluations and health technology assessments (HTA).

### Figure 1. IVI Health Equity in HTA Framework



# METHODS

- We searched PubMed to identify literature published during 10 years prior to January 19, 2023, that proposed data approaches, analytic methods, or frameworks to facilitate equityinformed economic evaluations.
- Inclusion criteria were: (1) peer-reviewed; (2) published in English; (3) proposed, discussed, or used methods to consider equity, disparity, or social determinants of health in economic evaluations.
- We excluded articles that: (1) only documented disparity or inequity problems, (2) were conceptual discussions without providing methodologies or framework, or (3) simply reported subgroup analyses without considering equity as an objective of the study.
- Identified studies were generally grouped into the following categories:
- (1) Engagement and process: discussed stakeholder engagement and processes for equitydriven HTA and roles of stakeholders during the evaluation process.
- (2) Methods and data: included frameworks, methods, or data resources that can operationalize equity-centered evaluations.
- (3) Communication and use: discussed how to communicate HTA to disparate audiences, including patients, to highlight potential biases or missing subgroup data that may potentially exacerbate inequities when used for decision-making.
- These domain categories had been identified through preliminary literature reviews and inputs from 40 stakeholders with various backgrounds (academia, clinician, industry, patient groups, etc.) via individual interviews and roundtable discussions.
- Considering a given article could be categorized to more than one domain, we describe our findings separately for each domain.
- Four researchers performed parallel independent screening of abstracts. Full-text review was conducted by two reviewers, and discrepancies were discussed and resolved., Data analysis was conducted using Microsoft Excel®.





## Exploring Frameworks and Methodology to Incorporate Equity in Health Economics Evaluation: A Scoping Review

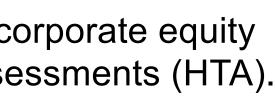
Tim C. Lai, BSc<sup>1</sup>, Michelle Y. Cheng, MHS<sup>2</sup>, Richard H. Chapman, PhD<sup>2</sup>, Melanie Ridley<sup>2</sup>, Ellen Schultz<sup>2</sup> <sup>1</sup>Auburn University Harrison College of Pharmacy, Auburn, AL, <sup>2</sup>Innovation and Value Initiative, Alexandria, VA, USA

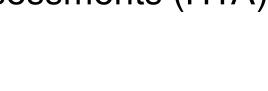
# RESULTS

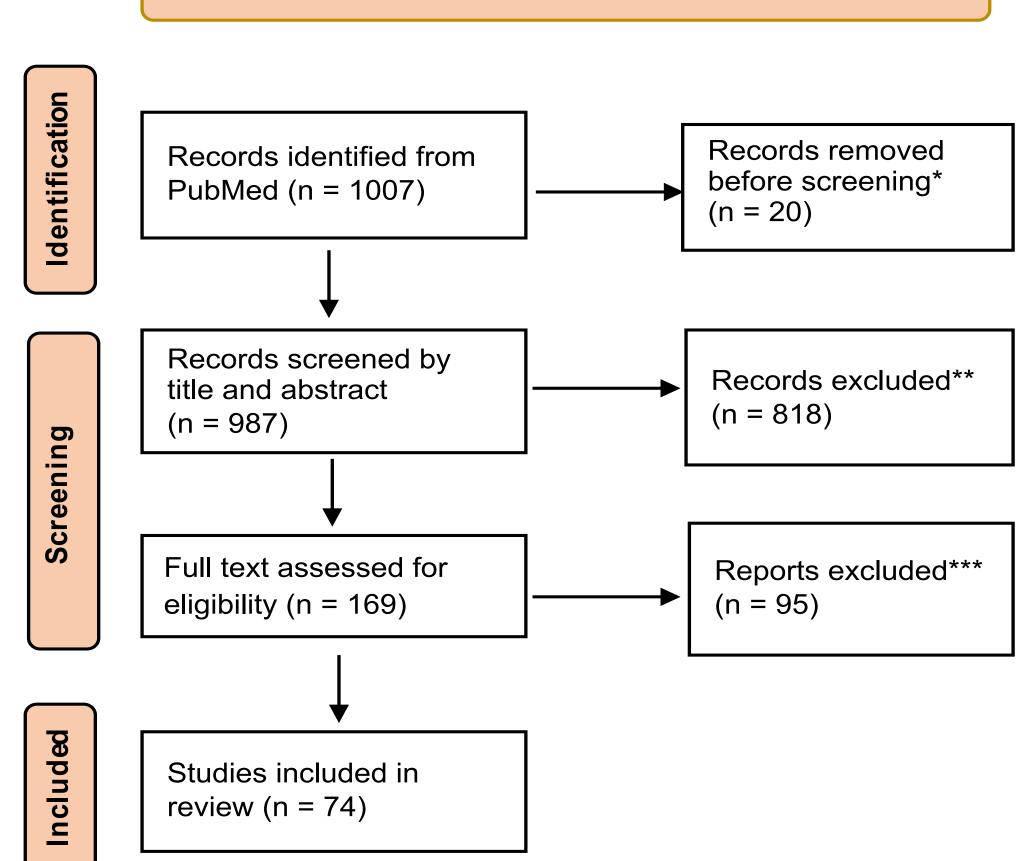
- Of the 1,007 articles identified in the initial search, 74 studies were included in the review (Figure 2).
- Nine studies (12%) were related to engagement and process, 58 studies (78%) were related to methods and data, and 16 studies (22%) were related to communication and use. (Studies could fall into >1 category.)

#### Figure 2. PRISMA Diagram of Article Screening and Review

Identification of studies via databases

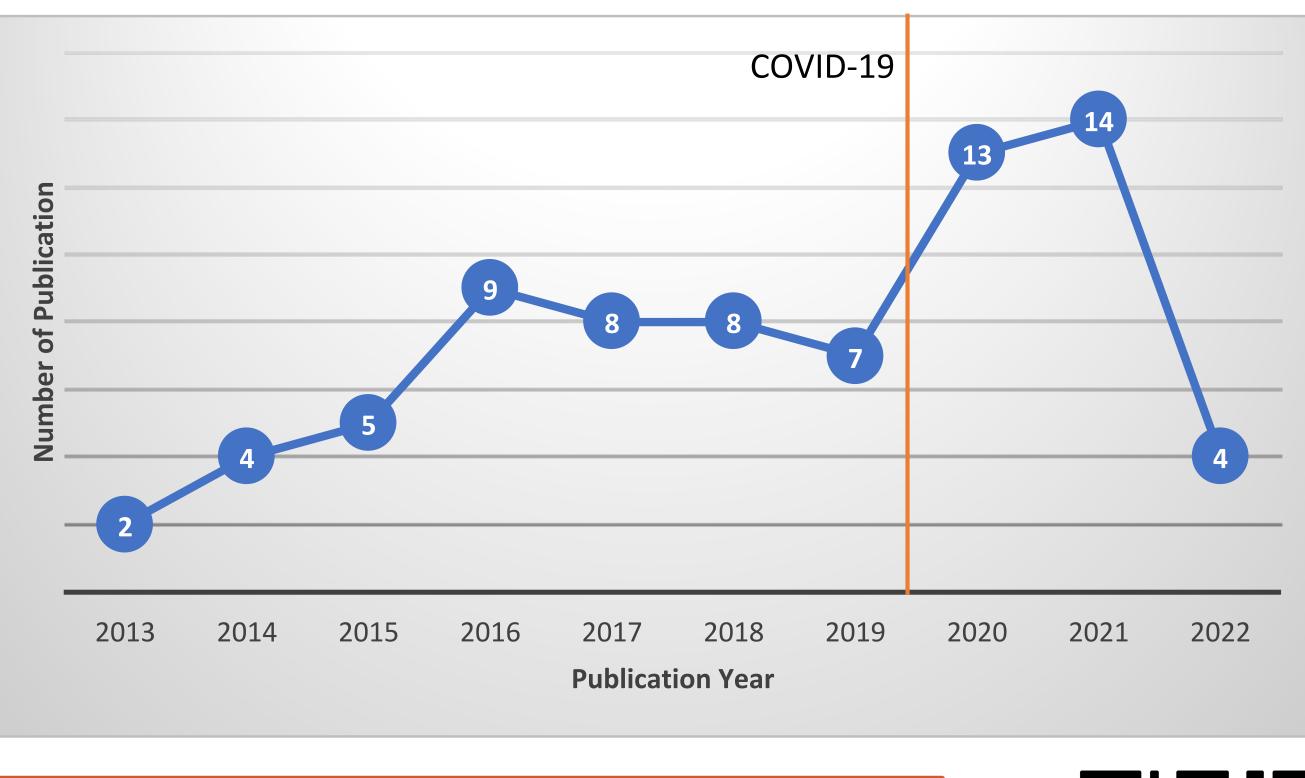






- \* Duplicate records removed (n = 1) / Records removed because non-English (n = 19) \*\* Reasons to exclude: Documentation only / No equity consideration in HTA / Not related to analytic methods / Uncertain or lack of information \*\*\*Reasons to exclude: Not related or applicable to HTA / Equity is not study focus or objective
- Figure 3 provides an overview of included studies categorized by publication year. Publications gradually increased from 2013 to 2016 and remained relatively constant through 2019. Another peak is reached after COVID-19.

### Figure 3. HTA Equity-focused Articles by Publication Year



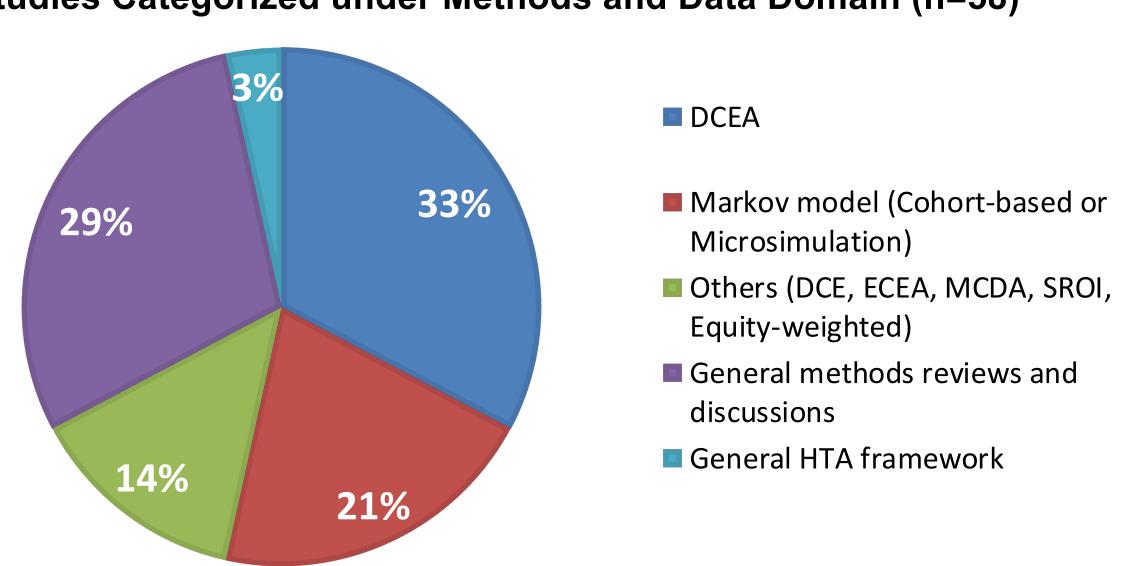
## CONTACT

- Email: <u>michelle.cheng@thevalueinitiative.org</u>
- > Website: <u>https:://thevalueinitiative.org/health-equity-initiative/</u>





#### Figure 4. Studies Categorized under Methods and Data Domain (n=58)



Abbreviations: DCEA – Distributional Cost-Effectiveness Analysis; DCE – Discrete Choice Experiment; ECEA - Extended Cost-Effectiveness Analysis; MCDA – Multi-Criteria Decision Analysis; SROI – Social Return on Investment

- domains (n=58).
- or discussed method (n=19).
- disparities in intervention outcomes.
- literature does not reflect their use in current practice.

# CONCLUSIONS

Equity-related health economic literature has focused more on methods, with less attention to engagement processes or communication of results.

Data challenges limit equity-focused economic evaluation in practice.

This broad review of equity in economic evaluation processes, data, methods, and communications/use shows that more comprehensive equity-focused evaluation frameworks or guidance may be necessary to increase the use of equity-informed methods in HTA.

## REFERENCES

- 10.1177/0272989X11426484.
- 25;37:e17. doi: 10.1017/S0266462320002275.

• **Figure 4** shows the types of articles classified under the Methods and Data

Distributional cost-effectiveness analysis (DCEA) was the most frequently used

12 studies used Markov-model approaches with a focus on equity. Cohort-based model analyses generally compared results among subgroups to account for potential intervention impacts on health disparities. Microsimulation models included individual characteristics associated with SDOH to account for potential

• An equity-focused HTA framework<sup>1</sup> and checklist<sup>2</sup> have been developed but the

 Several articles focused on methodology discussions and reviewing potential barriers to conducting equity-focused HTA, with a key challenge being lack of disaggregated data to perform equity-informed evaluations.

1. Culver AJ, Bombard Y. An equity framework for health technology assessments. Med Decis Making. 2012 May-Jun;32(3):428-41. doi:

2. Benkhalti M, Espinoza M, Cookson R, Welch V, Tugwell P, Dagenais P. Development of a checklist to guide equity considerations in health technology assessment. Int J Technol Assess Health Care. 2021 Jan

## www.thevalueinitiative.org