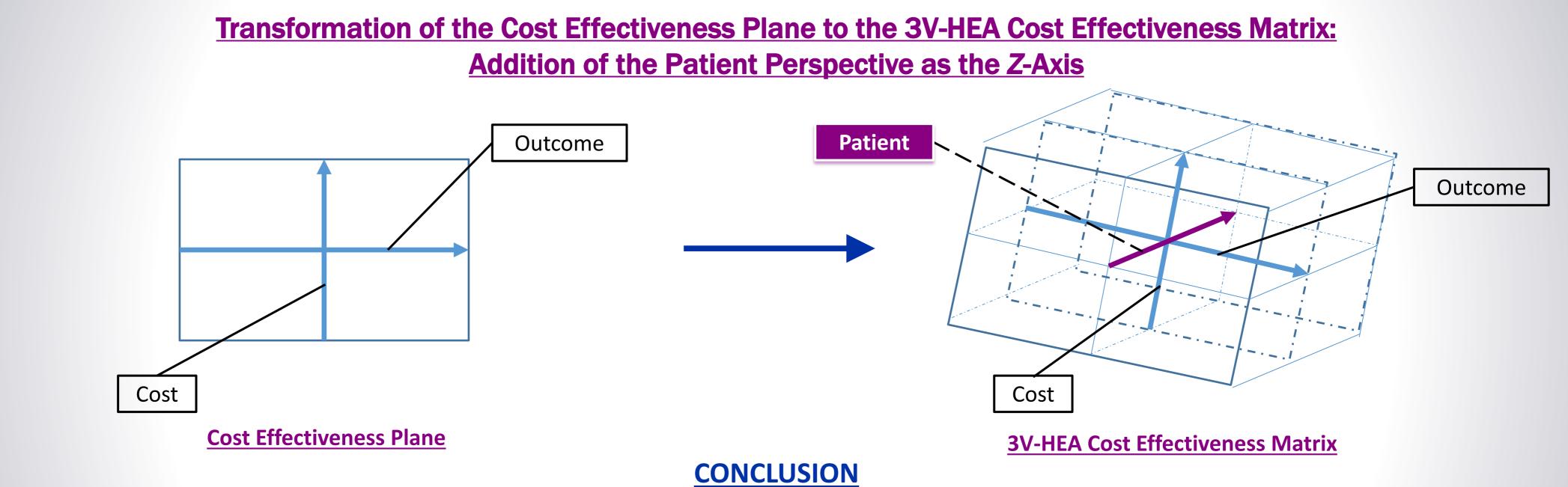
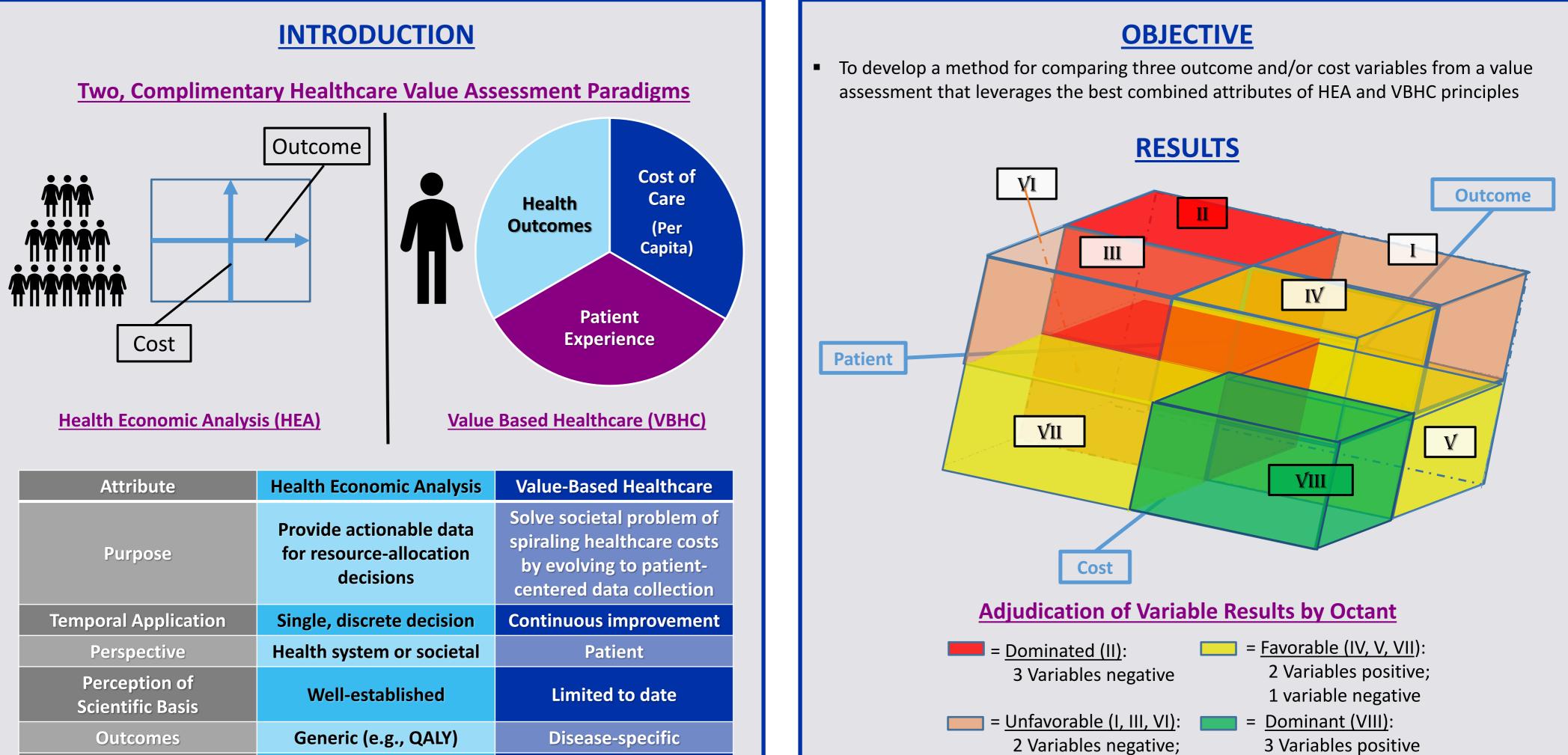
Three-Variable Health Economic Analysis (3V-HEA): Adding the Patient Perspective as the Z-Axis

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- 3V-HEA holds enormous potential to advance value assessment for use in:
 - Informing HEA coverage decision making by including the individual patient perspective
 - Standardizing the reporting of the three variables from VBHC programs



Outcomes	Generic (e.g., QALY)	Disease-specific
Applicability of Results to Decision Making	Clear and direct	Unclear
Service Delivery Focus	Clinicians	Patients
QALY = Quality adjusted life year		

The Need for Cross-Stakeholder Perspective Value Assessment

- Although recent HEA recommendations¹ require data from two, distinct perspectives (from among that of the society, health system/payer, and patient) no method has allowed simultaneous comparison of outcomes generated across the two perspectives, so personal cost impact has been subjugated as a line item in health system level costs.
- Multi-perspective comparisons have potential to apply the triple value healthcare model² which aims to simultaneously address individual level value, along with both technical and allocative value at the population level.

2 Variables negative; 1 variable positive

- Each octant in a 3V-HEA bears a consistent positional relationship to the standard of care axes that can be used to drive decision making:
 - Interventions with incremental results falling in Octant VIII are adopted
 - Results falling in Octants I, II, III, and VI are rejected, and
 - Results in Octants IV, V, and VII must be adjudicated

Representative Use Cases

- Assessment of Cost-Effectiveness including Both Clinician and Patient Perspectives (VBHC)
 - Requires single score reflection of patient outcomes
 - e.g., ICHOM Standardized data set-driven derivation of the "VBHC-QALY"³
- Personalized Shared Decision-Making Aide
- "Triangulated" Shared Decision-Making⁴ Aide
- Triple Value Healthcare Model² directed program assessments

REFERENCES

- 1. Sanders GD, Neumann PJ, et al. Recommendations for conduct, methodological practices, and reporting of cost-effectiveness analyses: second panel on cost-effectiveness in health and medicine. Jama, 2016;316(10) 1093-1103.
- 2. Jani A, Jungmann S, Gray M. Shifting to triple value healthcare: reflections from England. Zeitschrift für Evidenz, Fortbildung und Qualität im Gesundheitswesen. 2018; 130: 2-7.
- Walraven J, Jacobs MS, Uyl-de Groot CA. Leveraging the similarities between cost-effectiveness analysis and value-based healthcare. Value in Health, 2021; 24(7):1038-44. 3.
- 4. Binder-Finnema P, Dzurilla K, et al. A qualitative exploration of triangulated shared decision making in rheumatoid arthritis. Arthritis Care Res, 2019; 71(12):1576-82

