



Cedarville University
DigitalCommons@Cedarville

The Research and Scholarship Symposium

The 2016 Symposium

Apr 20th, 11:00 AM - 2:00 PM

A Systematic Review of the Cost-Effectiveness of Chemotherapy Regimens

Chelsea R. Manion

Cedarville University, cmanion@cedarville.edu

Eric Blizzard

Cedarville University, eblizzard216@cedarville.edu

Emily Bruce

Cedarville University, emilybruce@cedarville.edu

Hannah Chittenden

Cedarville University, hchitten@cedarville.edu

David Fisher

Cedarville University, djfisher@cedarville.edu

See next page for additional authors

Follow this and additional works at: http://digitalcommons.cedarville.edu/research_scholarship_symposium

 Part of the [Pharmacoeconomics and Pharmaceutical Economics Commons](#)

Manion, Chelsea R.; Blizzard, Eric; Bruce, Emily; Chittenden, Hannah; Fisher, David; Hickinbotham, Lia G.; Moon, Abigail; Rudy, Nicholas; Chen, Aleda; and Coe, Kristi, "A Systematic Review of the Cost-Effectiveness of Chemotherapy Regimens" (2016). *The Research and Scholarship Symposium*. 16.

http://digitalcommons.cedarville.edu/research_scholarship_symposium/2016/poster_presentations/16

This Poster is brought to you for free and open access by DigitalCommons@Cedarville, a service of the Centennial Library. It has been accepted for inclusion in The Research and Scholarship Symposium by an authorized administrator of DigitalCommons@Cedarville. For more information, please contact digitalcommons@cedarville.edu.



Presenters

Chelsea R. Manion, Eric Blizzard, Emily Bruce, Hannah Chittenden, David Fisher, Lia G. Hickinbotham, Abigail Moon, Nicholas Rudy, Aleda Chen, and Kristi Coe



A Systematic Review of the Cost-Effectiveness of Chemotherapy Regimens

Background: The rising cost of chemotherapy dramatically increases the burden on healthcare and presents new challenges in achieving optimal patient outcomes. New treatments, in general, are more specialized but show minor progress in regards to efficacy. Accordingly, the threat of overpaying for chemotherapy regimens has increased. There is a need for a comprehensive review to compile relevant studies in order to inform clinician decisions on the basis of cost-effectiveness and quality of life.

Objectives: The objective of this project is to assess the cost-effectiveness of anticancer medications with a special focus on the quality of life of patients undergoing chemotherapy, with the intent to form recommendations that unite evidence-based literature with clinical practice. The long-term goal is to create a clinical reference for prescribers to use in order to make more informed decisions on chemotherapy regimens.

Methodology: In line with the objectives above, eligibility criteria were established to refine the database results. An initial literature search will be conducted to verify the appropriateness of the eligibility criteria and search terms. Upon finalizing study selection parameters, abstracts will be reviewed and full-text articles will be retrieved. Grey literature will be searched to eliminate publication bias. Hand searchers will be performed to ensure all studies in relevant journals will be retrieved. Selected articles will be reviewed and rated based on a modified GRADE approach.

Analysis: Studies will be given a preference status based on their GRADE score. Final recommendations will be made at the professional judgments of the researchers based on pharmacoeconomic data extracted from studies weighted by preference status.