

East Tennessee State University

Digital Commons @ East Tennessee State University

Appalachian Student Research Forum

2020 ASRF Presentations

Stability of Ampicillin in Normal Saline Following Refrigerated Storage and 24-hour Pump Recirculation

Mariah A. Huskey

East Tennessee State University

Paul O. Lewis

Ballad Health

Stacy D. Brown

East Tennessee State University

Follow this and additional works at: <https://dc.etsu.edu/asrf>

Huskey, Mariah A.; Lewis, Paul O.; and Brown, Stacy D., "Stability of Ampicillin in Normal Saline Following Refrigerated Storage and 24-hour Pump Recirculation" (2020). *Appalachian Student Research Forum*. 8. <https://dc.etsu.edu/asrf/2020/presentations/8>

This Oral Presentation is brought to you for free and open access by the Events at Digital Commons @ East Tennessee State University. It has been accepted for inclusion in Appalachian Student Research Forum by an authorized administrator of Digital Commons @ East Tennessee State University. For more information, please contact digilib@etsu.edu.

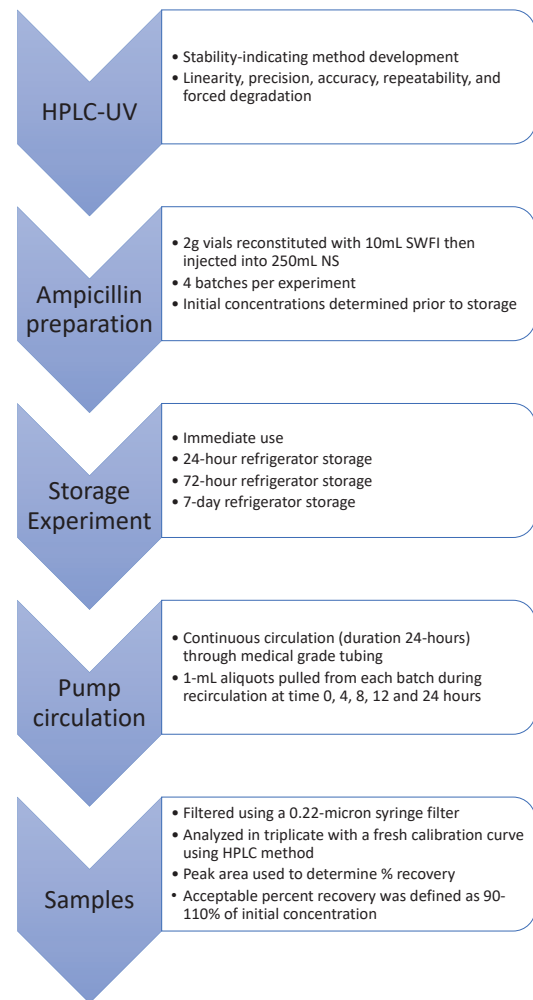
Stability of ampicillin in normal saline following refrigerated storage and 24-hour pump recirculation

Mariah Huskey, BS, PharmD Candidate
huskeym@etsu.edu

PURPOSE

- Use of ampicillin in outpatient parenteral antimicrobial therapy (OPAT) has historically been complicated by frequent dosing and short beyond use dates. This study investigates the possibility of preparing ampicillin in normal saline for continuous infusion and storing it prior to use.

METHODS

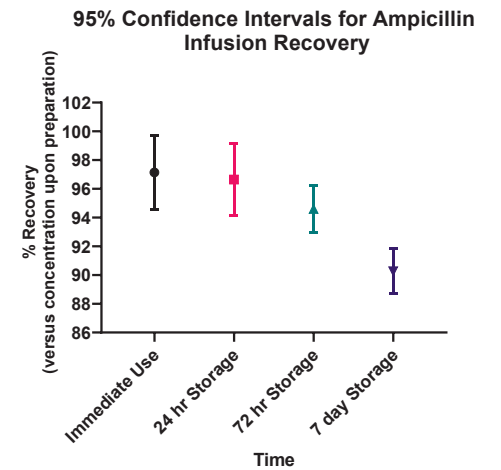
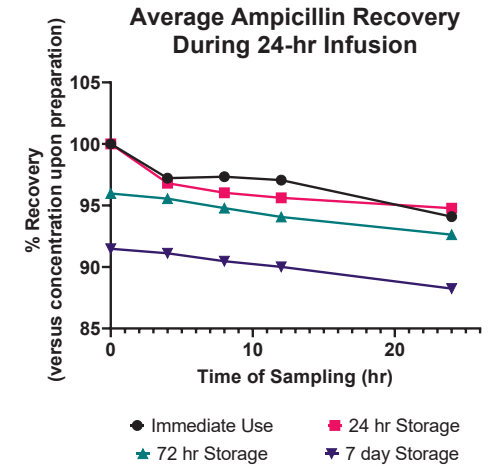


Ampicillin can be prepared and stored in a refrigerator for up to 72-hours prior to continuously infusing at room temperature over 24-hours with less than a 10% loss of potency.



Take a picture to learn more about our research group

RESULTS



- Percent recovery remained above 90% for all batches and time points except for the 7-day storage experiment after 4 hours of circulation through the medical grade tubing

Mariah Huskey BS, PharmD Candidate¹, Paul Lewis PharmD, BCPD (AQ-ID)², Stacy Brown PhD¹



BILL GATTON
COLLEGE of PHARMACY

EAST TENNESSEE STATE UNIVERSITY

