

## Grant Application

1	<b>Project Title</b>	<b>Utilizing ATP Testing to Improve Patient Safety Through Reduction of Contamination</b>
2	Clinical or Operational Area	Infection Prevention Department
3	Healthcare System	AdventHealth
4	Hospital or Entity Name	AdventHealth Shawnee Mission
5	Applicant Name	Tammy Cunningham
6	Applicant Title	Infection Prevention Manager
7	E-mail Address	Tammy.cunningham@adventhealth.com
8	Telephone	913-676-2063
9	Mailing Address, City, State, Zip Code	9100 W. 74 <sup>th</sup> Street Infection Prevention Department Shawnee Mission, KS 66204
10	<b>Please list the names and titles/roles of the additional members of the project team:</b>	
	<b>Name:</b>	<b>Title/Role:</b>
	<b>Catherine Miller</b>	Infection Preventionist
	<b>Kelly Case</b>	Infection Preventionist
	<b>Dennis McKenzie</b>	Infection Preventionist
11	Name of Senior Risk Management or Corporate Insurance Representative	Lori Cue Administrative Director of Quality, Risk, and Safety
12	Mailing Address, City, State, Zip Code	9100 W. 74 <sup>th</sup> Street Quality Department Shawnee Mission, KS 66204

**13. The issue being addressed involves the following clinical areas: (Check all that apply)**

- Ambulatory Care
- Emergency Services
- Hospital/System-wide Focus
- Obstetrics/Perinatal
- Radiology/Imaging Services
- Surgical/Peri-Operative
- Other (Please specify): Endoscopy areas

**14. Briefly describe the project and its importance to the organization: (two paragraphs maximum, please attach any supporting documentation)**

ATP measures adenosine triphosphate, an enzyme present in all organic matter, living and once living. ATP testing is done by swabbing high-touch areas, then inserting the swab into the ATP machine, also called a luminometer, which detects residual ATP.

The presence of ATP is an indication that surfaces have had improper cleaning and/or the presence of contamination. The Infection Prevention Department at AdventHealth Shawnee Mission would like to begin using ATP testing to monitor the presence of contamination on high-touch surfaces throughout the facility, including all inpatient units, emergency departments, imaging services, and ambulatory areas.

AdventHealth Shawnee Mission has seen an increase in healthcare-associated infections (HAIs). ATP testing of high-touch areas throughout the hospital would help the Infection Prevention department identify possible areas of contamination due to inadequate cleaning practices. Contamination can lead to patient HAIs, which in turn can lead to increased length of stay, increased morbidity and mortality for our patients, and potentially decreased reimbursements.

**15. Describe how this project will improve patient safety or reduce the potential for liability. (one paragraph maximum)**

Inadequate cleaning processes can lead to patient infections due to contamination. ATP testing can help to identify when areas have been inadequately cleaned due to the presence of adenosine triphosphate. Infection Prevention will use the data to find trends and potential gaps in processes. Once these gaps have been identified, action items can be developed to change processes, allowing for improved cleaning areas. Patient areas, particularly patient rooms, have a high turnover with rapid cleaning being performed after patients are discharged, so that a new patient can be admitted. Ensuring patients are admitted to a room that is properly cleaned of infectious materials is paramount to improving patient safety, and reducing morbidity and mortality.

**16. What metric(s) will be used to measure progress and determine the success of this project?? (one paragraph maximum)**

Infection Prevention plans to perform a sampling of ATP swabs throughout unit/department. Before and after cleanliness will be identified through this testing. When contamination is found, identifying possible process gaps will be done and action items developed. Making small process changes, implementing these changes, and evaluating improvement will then be done. Measuring progress will be identified not only through decreased HAIs in patients, but in the number of ATP swabs found to not have residual ATP.

**17. Please describe the tangible results of the project that can be quantified and shared as best practices with other AEIX members? (one paragraph maximum)**

Improved cleaning processes through ATP testing can be quantified and shared with other AEIX members. Best practices would include any deficiencies in cleaning practices, identified barriers to proper cleaning, and improvements made in any process gaps. Decreased HAI numbers can also be shared.

**18. Please provide a financial estimate of the project**                      The average cost of an ATP machine is \$1800.00 The average cost of ATP swabs is \$385 for a box of 100 swabs. The projected cost of the 12-month project is \$6420, including the ATP machine and 12 months of swabs. [Click or tap here to enter text.](#)

**19. What is the expected timeframe for completion of this project?**                      One year would allow for the collection or meaningful data with development of action items for any identified opportunities for improvement, as well as evaluation of these improvements.

**20. Is this project based on successful practices evaluated from literature or other healthcare providers?**  Yes  No

**21. Is this project based on an original concept created by the project team?**  Yes  No

**22. Do you have plans to publish the project results in a professional publication or networking forum?**  Yes  No

**23. Is there anything else you'd like to share about this project?**

[Click or tap here to enter text.](#)



# Evaluation of Grant Application

The evaluation must be completed and signed by the senior risk manager or corporate insurance representative. Please evaluate the Award Application by indicating the best answer to the question.

## 1. How will this project improve safety and/or reduce liability?

- Little effect on safety and liability (1)
- Some improvement but metrics are not defined and/or it is not clear that measurable effect can be sustained (2)
- Strong effect with clearly defined metrics (3) *research shows ATP testing improves cleanliness.*

## 2. What is the potential to share this project or practice with other AEIX members?

- Little potential – i.e. implementation requires major budgetary commitment, topic is highly specialized, and/or metrics are not clearly defined (1)
- Some potential but process may be hard for another organization to implement, and/or its application may be limited
- i.e. major budgetary commitment, topic is highly specialized, and/or metrics are not clearly defined (2)
- Strong potential for producing best practices (3)

## 3. What level of impact will this project or practice have on the severity of risk exposure?

- Little chance of impacting severity of risk but could address other issues (1)
- Some potential to impact risk exposure (2)
- Strong ability to impact severe malpractice exposure caused by significant risk events (3) *elimination or reduction of HAI's SSI*

## 4. What level of innovation best describes this project?

- Project/practice is new to this organization and is based primarily on firmly established best practices (1)
- Project/practice was created primarily by applicants with some assistance from an outside vendor and contains well-established best practices with additional innovative features (2)
- Project/practice was created solely by applicants and could be included in established literature or industry best practices (3)

## 5. Share your comments or recommendations.

<i>Lori K Cuel</i>	<i>Admin Director</i>	<i>8/16/24</i>
<i>Quality Risk &amp; Safety</i>		
<i>816.506.6720 cell</i>	<i>lori.cuel@adventhealth.com</i>	

Send the completed application in Word format, supporting documentation, and signed evaluation to [lane\\_taylor@premierinc.com](mailto:lane_taylor@premierinc.com) by **Friday August 16, 2024**.

**Thank you for your submission. In continued pursuit of our mission and vision to partner with forward-thinking healthcare leaders, inspire innovation, and provide the leading pathway for managing risk, we may share your project with other members of American Excess. However, this project will not be shared outside of the American Excess Insurance membership without your prior consent.**