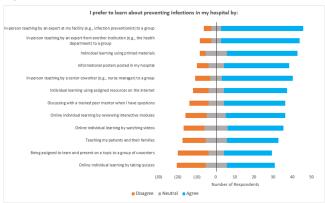
Figure 3. Preferred Learning Styles Among Frontline Healthcare Workers in Two Long-Term Acute Care Hospitals



to effective C. auris prevention among frontline healthcare workers in 2 LTACHs. While staff members successfully identified most prevention strategies for C. auris, they may benefit from enhanced education and training programs that support multiple learning styles.

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Presentation Type:

Oral Presentation

Subject Category: Medical Informatics

From Abstract to Article: Publication Rates of Abstracts Presented at the SHEA Spring Conference 2018 and 2021

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Background: Conferences play a crucial role in the early dissemination of significant research to peers and experts within the same field. They provide a platform for receiving feedback, fostering collaborations, and refining groundbreaking findings, which can eventually be developed into full articles for publication in peer-reviewed journals. The transition of presented abstracts to full research journal publications is a key metric for evaluating research productivity, quality, and dissemination. Despite this, there is limited data on the proportion of abstracts that are ultimately

| | No. (%) | Not published, No. (%) | Chi-square statistics | P value |
|---|---------------------|---------------------------|---------------------------|-------------------|
| ear of Presentation | | | | |
| 2018 (194) | 88 (45.4) | 106 (54.6) | X^2 (1, N = 351) = 3.5 | .06 |
| 2021 (157) | 87 (55.4) | 70 (44.6) | | |
| Overall (351) ^a | 175 (49.9) | 176 (50.1) | | |
| ype of presentation | | | | |
| Oral presentation (67) | 35 (52.2) | 32 (47.8) | X^2 (1, N = 351) = 0.18 | .66 |
| Poster presentation (284) | 140 (49.3) | 144 (50.7) | | |
| itudy design ^b | | | | |
| Case series (6) | 1 (16.7) | 5 (83.3) | X^2 (3, N = 351) = 0.24 | .24 |
| Original article (326) | 162 (49.7) | 164 (50.3) | | |
| SRMA (2) | 1 (50) | 1 (50) | | |
| Other/not listed (17) | 11 (64.7) | 6 (35.3) | | |
| Affiliation of authors ^c | | | | |
| Same (124) ^d | 46 (37.1) | 78 (62.9) | X^2 (1, N = 194) = 9.5 | .002 f |
| Different (70) e | 42 (60) | 28 (40) | | |
| Number of abstract authors | | | | |
| Less than or equal to 6 (216) | 94 (43.5) | 122 (56.5) | X^2 (1, N = 351) = 9.02 | .003 ^f |
| More than 6 (135) | 81 (60) | 54 (40) | | |
| igure 1: Analytical comparison of varia | ables among publish | ned and nonpublishe | d abstracts from SHEA sp | ring 2018 and |

| Variable | Number (%)* |
|--|----------------------------------|
| Time to publication in months, mean ± SD (min-max) | |
| 2018, n = 194 | 12.88 ± 9.4 (0-51) ^a |
| 2021, n = 157 | 14.95 ± 11.7 (0-44) ^a |
| Overall, n = 351 | 13.91 ± 10.6 (0-51) ^a |
| Publication rate at the end of 1st year | |
| 2018 | 49 (25.3) |
| 2021 | 38 (24.2) |
| Publication rate at the end of 2 nd year | |
| 2018 | 83 (42.8) |
| 2021 | 69 (43.9) |
| Publication rate at the end of 3 rd year | |
| 2018 | 86 (44.3) |
| 2021 | 81 (51.6) |
| Publication rate at the end of 4 th year | |
| 2018 | 87 (44.8) |
| 2021 | 87 (55.4) |
| Number of authors, mean ± SD (min-max) | |
| 2018 | |
| Presented abstract | 6.08 ± 3.3 (1-25) |
| Published article | 7.8 ± 3.6 (3-20) |
| 2021 | |
| Presented abstract | 6.76 ± 4.2 (1-23) |
| Published article | 9.16 ± 6.3 (1-37) |
| Mean Impact Factor of destination journal, mean ± SD (min-max) | |
| 2018 | 4.88 ± 6.96 (1.4-63.5) |
| 2021 | 4.22 ± 6.08 (0.44-53) |
| Authorship changes | |
| Consistent with abstracts ^b | 34 (19.4) |
| Change in the first author | 51 (29.1) |
| Change in number or order of authors | 141 (80.6) |
| Top 5 destination journals for publication | |
| Infection Control & Hospital Epidemiology | 51 (29.1) |
| American Journal of Infection Control | 34 (19.4) |
| Antimicrobial Stewardship & Healthcare Epidemiology | 16 (9.1) |
| Open Forum Infectious Diseases | 10 (5.7) |
| | - 4.4 |

Figure 2: Description of resultant publications from SHEA spring 2018 and 2021 conferences.

Abbreviations: SD, standard deviation; min, minimum value, max, maximum value

*Data is represented as number (%) unless otherwise specified.

Clinical Infectious Diseases

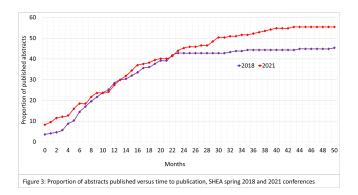
^a The minimum number of months to publication is zero because some abstracts were published before the presentation. With the conference dates as the reference point, the time to publication for these abstracts is counted as zero months.

^b The authorship number and order remained the same in the publication as in the abstract.

published as full articles in peer-reviewed journals. Method: All abstracts (351) presented at the SHEA Spring Conference in 2018 and 2021 were indexed and cataloged from the 2018 online archive and the 2021 Antimicrobial Stewardship & Healthcare Epidemiology journal supplement. We then manually searched the top 20 results of both Google Scholar and PubMed to determine the publication status of each abstract as of Jan 10, 2025. Publication status criteria included: matching at least three keywords between the abstract and any resulting manuscript, having at least one common author, and publication occurring after and inclusive of the year of abstract acceptance. Data was compiled into an Excel spreadsheet, categorizing abstracts as 'yes' or 'no' for publication. Publication rates were then calculated using Excel formulas based on these categorizations. Factors associated with publication were evaluated, and publication metrics were described. Result: All 351 abstracts were analyzed. Among these, 175 (49.9%) were published as full articles in peer-reviewed journals indexed in Google Scholar or PubMed. Abstracts presented in 2021 and those presented orally had higher publication rates, though the association was statistically nonsignificant (p = 0.06 and p = 0.66, respectively). Abstracts with authors from different institutions and those with more than six authors showed a statistically significant association with higher publication rates (p = 0.002 and p = 0.003, respectively). Infection Control & Hospital Epidemiology was the most common journal in which abstracts were ultimately published, accounting for 51 (29.1%) of the publications. The publication rates surpass those reported in most similar studies of

All authors from the same institution.
At least one author from a different institution

Statistically significant at p < 0.05



| Study, first author, year | Specialty | Meeting and year evaluated | No. published/No. presented (%) |
|-------------------------------|-----------------------------------|----------------------------|------------------------------------|
| Johnson, 2022 ¹ | Infectious Disease | ID Week 2017 & 2018 | 236/887 (26.6) |
| Rosmarakis, 2005 ² | Infectious Disease & Microbiology | ICAAC 1999 & 2000 | 68/190 (36) |
| Amarilyo, 2013 ³ | Rheumatology | ACR/ARHP 2006 | 1270/2149 (59.1) |
| Fosbøl, 2012 ⁴ | Cardiology | AHA 2006 to 2008 | 3921/11365 (34.5) |
| Gandhi, 2016 ⁵ | Gastroenterology | ACG 2008 | 249/791 (31.5) |
| Baddam, 2018 ⁶ | Hematology | ASH 2011 | 327/685 (48) |
| | | | |

Figure 4: Comparative studies analyzing abstracts published from infectious disease and various other

Abbreviations: ICAAC, Interscience Conference on Antimicrobial Agents and Chemotherapy; ACR/ARHP, American College of Rheumatology & Association of Rheumatology Health Professionals: AHA. American Heart Association; ACG, American College of Gastroenterology; ASH, American Society of Hematology

10.1093/ofid/ofac415

² 10.1096/fj.04-3140lfe ³ 10.1002/acr.21864

10.1161/circulationaha.112.120535

10.1002/aih.24695

other internal medicine and subspecialty conferences, including IDWeek. Conclusion: Approximately half of the abstracts presented were subsequently published as full articles. Collaborative research, involving more authors and authors from different institutions, was associated with a higher publication rate. These findings highlight the strong academic impact of SHEA-presented research. Further research into the barriers to publication is warranted to improve the dissemination of conference abstracts.

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Presentation Type:

Oral Presentation

Subject Category: Molecular Epidemiology

Real-time detection of Staphylococcus aureus transmission in hospitals Kristine Rabii¹, Courtney Takats¹, Gregory Putzel², Alice Tillman², Magdalena Podkowik³, Julia Shenderovich⁴, Natalia Argüelles⁴, Hochman¹, Anusha Srivastava⁵, Alejandro Pironti¹, Sarah Audrey Renson⁶ and Bo Shopsin⁶

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Genomic surveillance of Staphylococcus aureus in hospitals usually focuses on clinical infections, missing transmissions from asymptomatic carriers and delaying detection and timely intervention. To address the issue, we performed whole-genome sequencing (WGS) on over 5,000 S. aureus isolates obtained from colonization screens at admission, in addition to standard clinical cultures, at two interconnected urban hospitals. By integrating genomic data with timestamped location information, we identified hundreds of transmissions missed by standard methods. However, nearly 70% of transmissions were detected during readmission after the index case had been discharged. This finding indicates that even with dense genomic sampling, real-time detection remains challenging due to asymptomatic carriage. Therefore, effective monitoring of nosocomial S. aureus transmission will likely require WGS and colonization sampling at both admission and discharge. The data also highlight patient- and strain-specific factors, including methicillin resistance, as predictors of S. aureus spread, which may enable cost-effective, targeted sequencing surveillance

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doi:10.1017/ash.2025.228

Presentation Type:

Oral Presentation

Subject Category: Molecular Epidemiology

Lessons from Implementing Wastewater-Based Epidemiological Monitoring in a Northern California Acute Care Hospital, June-July 2024

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¹Stanford University School of Medicine; ²Stanford University and ³Stanford Health Care

Background: Wastewater-based epidemiology has demonstrated effectiveness in monitoring trends of viral infections at the city, state, and national levels. It captures data independent of testing intensity, providing a comprehensive biological sample of pathogens excreted in all secretions, that is unaffected by individual testing behaviors. Traditional healthcare-associated infection surveillance relies on case-based approaches, which can be resource-intensive, prone to misclassification, and may miss patients who are colonized. We aimed to evaluate the feasibility of implementing wastewater-based epidemiology in an acute care hospital for monitoring pathogens relevant to infection prevention and control. Methods: In this pilot study, we deployed a Teledyne ISCO 5800™ wastewater autosampler to collect weekly composite 1000 mL samples (15 mL every 151 minutes) from the final Stanford Hospital outflow point before wastewater merged with the community system. Wastewater samples were processed within 48 hours of collection. The solid phase was separated via centrifugation, followed by nucleic acid extraction employing silica-based purification techniques optimized for efficient inhibitor removal. Droplet digital PCR was conducted targeting pathogens previously validated by the WastewaterSCAN program (https://www.wastewaterscan.org/en/pathogens). We compared hospital wastewater nucleic acid concentrations with the number of positive tests/cultures at Stanford Hospital during the same period and with Wastewaterscan community wastewater data. Results: We collected three weekly composite samples: Jun 20-26, Jul 10-17, and Jul 18-25. Challenges included the location of the final outflow, and the autosampler's size (132 x 74 x 84 cm and 88.5 kg). The outflow point was situated in a high-traffic area for patients and staff, requiring barricades to ensure safety and prevent interference with sampling equipment. In terms of interpreting results, viral nucleic acid concentrations (e.g., influenza, SARS-CoV-2) appeared to parallel the number of clinical cases and were similar to community wastewater trends (Figure 1). Most antimicrobial resistance genes, including vanA (Figure 2) and carbapenemase genes (KPC, NDM, OXA-48, VIM) (Figure 3), showed limited alignment with clinical cases; however, mecA exhibited some alignment (Figure 2). Hospital wastewater had higher resistance gene concentrations than community wastewater from San Mateo County (Figure 4). Conclusion: Continuous collection of hospital wastewater proved challenging, mainly from logistical issues such as equipment size and access limitations. Clinical respiratory virus trends appeared to be reflected in wastewater data. However, trends for antimicrobial resistance genes may be influenced