



Cedar Fowler

Clinical Assistant Professor, Anesthesiology, Perioperative and Pain Medicine

 Resume available Online

CLINICAL OFFICE (PRIMARY)

- **Center for Academic Medicine Pediatric Anesthesia**

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Bio

CLINICAL FOCUS

- Anesthesia

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Anesthesiology, Perioperative and Pain Medicine

PROFESSIONAL EDUCATION

- Board Certification: Anesthesia, American Board of Anesthesiology (2021)
- Fellowship: Stanford University Anesthesiology Fellowships (2020) CA
- Residency: Stanford University Anesthesiology Residency (2019) CA
- Internship: Alameda County Highland Hospital Internal Medicine Residency (2016) CA
- Medical Education: Tufts University School of Medicine (2015) MA
- M.D., Tufts University School of Medicine , Medicine (2015)
- Ph.D, University of Cambridge , Immunology (2014)
- MPH, Tufts University School of Medicine , Public Health (2015)

Research & Scholarship

CLINICAL TRIALS

- Breath Metabolomics in the Laboring Parturient, Not Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Anesthesia (Fellowship Program)
- Obstetric Anesthesia (Fellowship Program)

Publications

PUBLICATIONS

- **Postpartum sleep quality and physical activity profiles following elective cesarean delivery: a longitudinal prospective cohort pilot study utilizing a wearable actigraphy device.** *International journal of obstetric anesthesia*
Pandal, P., Carvalho, B., Shu, C. H., Ciechanowicz, S., O'Carroll, J., Aghaeepour, N., Fowler, C., Simons, L. E., Druzin, M. L., Panelli, D. M., Sultan, P.
2024; 62: 104305
- **ASO Visual Abstract: Improved Postoperative Pain Management Outcomes After Implementation of Enhanced Recovery After Surgery (ERAS) Protocol for Cytoreductive Surgery and Hyperthermic Intraperitoneal Chemotherapy (CRS-HIPEC).** *Annals of surgical oncology*
Yue, T. M., Sun, B. J., Xu, N., Ohkuma, R., Fowler, C., Lee, B.
2024
- **Improved Postoperative Pain Management Outcomes After Implementation of Enhanced Recovery After Surgery (ERAS) Protocol for Cytoreductive Surgery and Hyperthermic Intraperitoneal Chemotherapy (CRS-HIPEC).** *Annals of surgical oncology*
Yue, T. M., Sun, B. J., Xu, N., Ohkuma, R., Fowler, C., Lee, B.
2024
- **Continuous wound infusion catheter as part of a multimodal analgesia regimen for post-Caesarean delivery pain: a quality improvement impact study.** *BJA open*
Fowler, C., Stockert, E., Hoang, D., Guo, N., Riley, E., Sultan, P., Carvalho, B.
2024; 9: 100242
- **Effect of an electronic medical record nudge to improve quality improvement program tracking of neuraxial catheter replacements in obstetric patients.** *BMJ open quality*
Fedoruk, K., Xie, J., Wang, E., Fowler, C., Riley, E., Carvalho, B.
2023; 12 (4)
- **ASO Visual Abstract: Impact of Successful Implementation of an Enhanced Recovery After Surgery (ERAS) Protocol for Patients Undergoing Cytoreductive Surgery and Hyperthermic Intraperitoneal Chemotherapy (CRS-HIPEC).** *Annals of surgical oncology*
Sun, B. J., Yue, T. M., Xu, N., Fowler, C., Lee, B.
2023
- **Impact of Successful Implementation of an Enhanced Recovery After Surgery Protocol for Patients Undergoing Cytoreductive Surgery and Hyperthermic Intraperitoneal Chemotherapy.** *Annals of surgical oncology*
Sun, B. J., Yue, T. M., Xu, N., Fowler, C., Lee, B.
2023
- **Outpatient Treatment With Gabapentin in Women With Severe Acute Pain After Cesarean Delivery Is Ineffective: A Randomized, Double-Blind, Placebo-Controlled Trial.** *Anesthesia and analgesia*
Fowler, C., Chu, A. W., Guo, N., Ansari, J. R., Shafer, S. L., Flood, P. D.
2023
- **The effects of sildenafil on ciliary beat frequency in patients with pulmonary non-tuberculous mycobacteria disease: phase I/II trial.** *BMJ open respiratory research*
Fowler, C., Wu, U., Shaffer, R., Smith, C., Barnhart, L., Bryant, C., Olivier, K., Holland, S. M.
2020; 7 (1)
- **Feasibility study of a smartphone pupillometer and evaluation of its accuracy.** *Journal of clinical monitoring and computing*
Neice, A. E., Fowler, C. n., Jaffe, R. A., Brock-Utne, J. G.
2020
- **Performance of Litholyme compared with Sodasorb carbon dioxide absorbents in a standard clinical setting.** *British journal of anaesthesia*
Fowler, C. J., Burbridge, M. A., Jaffe, R. A., Brock-Utne, J. G.
2019; 122 (1): e11–e12
- **Performance of Litholyme (TM) compared with Sodasorb (TM) carbon dioxide absorbents in a standard clinical setting** *BRITISH JOURNAL OF ANAESTHESIA*
Fowler, C. J., Burbridge, M. A., Jaffe, R. A., Brock-Utne, J. G.

2019; 122 (1): E11–E12

- **TNF overproduction impairs epithelial staphylococcal response in hyper IgE syndrome.** *The Journal of clinical investigation*
Myles, I. A., Anderson, E. D., Earland, N. J., Zarembek, K. A., Sastalla, I., Williams, K. W., Gough, P., Moore, I. N., Ganesan, S., Fowler, C. J., Laurence, A., Garofalo, M., Kuhns, et al
2018; 128 (8): 3595–3604
- **Assessing the Collective Dynamics of Motile Cilia in Cultures of Human Airway Cells by Multiscale DDM** *BIOPHYSICAL JOURNAL*
Feriani, L., Juenet, M., Fowler, C. J., Bruot, N., Chioccioli, M., Holland, S. M., Bryant, C. E., Cicuta, P.
2017; 113 (1): 109–19
- **Closed-Loop Anesthesia: Wave of the Future or No Future? You're Wrong, I'm Right.**
Fowler, C. J., Ching, H.
Springer International Publishing Switzerland.2017; 1: 19–20
- **Pulmonary Nontuberculous Mycobacterial Infection A Multisystem, Multigenic Disease** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
Szymanski, E. P., Leung, J. M., Fowler, C. J., Haney, C., Hsu, A. P., Chen, F., Duggal, P., Oler, A. J., McCormack, R., Podack, E., Drummond, R. A., Lionakis, M. S., Browne, et al
2015; 192 (5): 618–28
- **PULMONARY NONTUBERCULOUS MYCOBACTERIAL INFECTION: A MULTISYSTEM MULTIGENIC DISEASE**
Szymanski, E. P., Leung, J. M., Fowler, C. J., Liu, X., Devine, S. E., Fraser, C. M., Tettelin, H., Olivier, K. N., Holland, S. M.
SPRINGER/PLENUM PUBLISHERS.2015: 309
- **STAT1 Gain of Function Mutations are Infrequent in Pulmonary Nontuberculous Mycobacterial Infection**
Szymanski, E. P., Leung, J. M., Fowler, C. J., Liu, X., Devine, S. E., Fraser, C. M., Tettelin, H., Olivier, K. N., Holland, S. M.
SPRINGER/PLENUM PUBLISHERS.2014: 362
- **A Familial Syndrome of Pulmonary Nontuberculous Mycobacteria Infections** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
Leung, J. M., Fowler, C., Smith, C., Adjemian, J., Frein, C., Claypool, R. J., Holland, S. M., Prevots, R. D., Olivier, K.
2013; 188 (11): 1373–76
- **Abnormal Nasal Nitric Oxide Production, Ciliary Beat Frequency, and Toll-like Receptor Response in Pulmonary Nontuberculous Mycobacterial Disease Epithelium** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
Fowler, C. J., Olivier, K. N., Leung, J. M., Smith, C. C., Huth, A. G., Root, H., Kuhns, D. B., Logun, C., Zelazny, A., Frein, C. A., Daub, J., Haney, C., Shelhamer, et al
2013; 187 (12): 1374–81
- **Clinical experience with a simple algorithm for plerixafor utilization in autologous stem cell mobilization** *BONE MARROW TRANSPLANTATION*
Chen, A. I., Bains, T., Murray, S., Knight, R., Shoop, K., Bubalo, J., Fowler, C., Slater, S., Maziarz, R. T.
2012; 47 (12): 1526–29
- **Preserving immunogenicity of lethally irradiated viral and bacterial vaccine epitopes using a radio- protective Mn²⁺-Peptide complex from Deinococcus.** *Cell host & microbe*
Gaidamakova, E. K., Myles, I. A., McDaniel, D. P., Fowler, C. J., Valdez, P. A., Naik, S., Gayen, M., Gupta, P., Sharma, A., Glass, P. J., Maheshwari, R. K., Datta, S. K., Daly, et al
2012; 12 (1): 117–124
- **Sterility Without Loss of Immunogenicity with Irradiated Vaccine Preparations of Viruses and Staphylococcus Aureus**
Myles, I. A., Gaidamakova, E. K., McDaniel, D. P., Fowler, C. J., Valdez, P. A., Gayen, M., Gupta, P., Sharma, A., Glass, P., Maheshwari, R. K., Daly, M. J., Datta, S. K.
SPRINGER/PLENUM PUBLISHERS.2012: 365
- **Gene Therapy of Canine Leukocyte Adhesion Deficiency Using Lentiviral Vectors With Human CD11b and CD18 Promoters Driving Canine CD18 Expression** *MOLECULAR THERAPY*
Hunter, M. J., Tuschong, L. M., Fowler, C. J., Bauer, T. R., Burkholder, T. H., Hickstein, D. D.
2011; 19 (1): 113–21

- **Analysis of Donor Demographic and Laboratory Parameters Affecting CD34(+) Cell Mobilization In Healthy Allogeneic Pediatric Peripheral Blood Stem Cell (PBSC) Donor.**
Fowler, C. J., Yau, Y., Bolan, C. D., Leitman, S.
AMER SOC HEMATOLOGY.2010: 929

- **Life-threatening adenovirus infections in the setting of the immunocompromised allogeneic stem cell transplant patients.** *Advances in hematology*
Fowler, C. J., Dunlap, J., Troyer, D., Stenzel, P., Epner, E., Maziarz, R. T.
2010; 2010: 601548

- **Clinical use of plerixafor in combination with granulocyte-colony stimulating factor in hematopoietic stem cell transplantation** *TRANSPLANT RESEARCH AND RISK MANAGEMENT*
Fowler, C. J., Maziarz, R. T.
2010; 2: 47–58

- **Rescue from failed growth factor and/or chemotherapy HSC mobilization with G-CSF and plerixafor (AMD3100): an institutional experience** *BONE MARROW TRANSPLANTATION*
Fowler, C. J., Dunn, A., Hayes-Lattin, B., Hansen, K., Hansen, L., Lanier, K., Nelson, V., Kovacovics, T., Leis, J., Calandra, G., Maziarz, R. T.
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- **Treatment of Canine Leukocyte Adhesion Deficiency Using a SIN Lentiviral Vector and Human CD18 Promoter Expressing Canine CD18**
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- **Lentiviral Vectors with Leukocyte Integrin CD11b Promoter Leads to Efficient Transduction of Canine Leukocyte Adhesion Deficiency CD34+Cells**
Fowler, C. J., Hunter, M. J., Nelson, E. J. R., Tuschong, L. M., Bauer, T. R., Hickstein, D. D.
NATURE PUBLISHING GROUP.2009: S32

- **Lentiviral Vectors Containing Internal Cellular Promoters Fail To Express Therapeutic Levels of CD18 in Canine Leukocyte Adhesion Deficiency**
Nelson, E. J. R., Hunter, M. J., Tuschong, L. M., Fowler, C. J., Bauer, T. R., Hickstein, D. D.
NATURE PUBLISHING GROUP.2009: S119

- **Rescue from failed growth factor and/or chemotherapy haematopoietic stem cell mobilisation with G-CSF and plerixafor: a single-centre experience**
Fowler, C. J., Dunn, A., Hayes-Lattin, B., Hansen, K., Hansen, L., Lanier, K., Nelson, V., Kovacovics, T., Leis, J., Calandra, G., Maziarz, R. T.
NATURE PUBLISHING GROUP.2009: S114

- **Rescue from failed growth factor and/or chemotherapy HSC mobilization with G-CSF and AMD3100: An institutional experience.**
Maziarz, R., Dunn, A., Hansen, L., Hansen, K., Leis, J. F., Hayes-Lattin, B., Kovacovics, T., Calandra, G., Fowler, C.
AMER SOC HEMATOLOGY.2006: 461B

- **Functional role of lipid raft microdomains in cyclic nucleotide-gated channel activation** *MOLECULAR PHARMACOLOGY*
Brady, J. D., Rich, T. C., Le, Stafford, K., Fowler, C. J., Lynch, L., Karpen, J. W., Brown, R. L., Martens
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Dimcheff, D. E., Askovic, S., Baker, A. H., Johnson-Fowler, C., Portis, J. L.
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