Stanford



Gillian Abir

Clinical Professor, Anesthesiology, Perioperative and Pain Medicine

CLINICAL OFFICE (PRIMARY)

- **Anesthesia Department**

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Bio

BIO

Gillian Abir graduated from Glasgow University (UK) in 1998. After initially undertaking parts of surgical residency and emergency medicine residency, she completed her anesthesiology residency training in Glasgow and Sheffield (UK). Following this she undertook an obstetric anesthesiology fellowship-equivalent at Stanford University School of Medicine and is currently a Clinical Professor.

Gillian is the Associate Division Chief and Clinical Director for the Division of Obstetric Anesthesiology and the residency program coordinator for obstetric anesthesiology.

Gillian has published several manuscripts and book chapters, and is the lead anesthesiologist in the multidisciplinary obstetric simulation team. She is a member of the obstetric disaster preparedness committee and labor and delivery patient safety committee, amongst several other committees. She is the co-chair of the simulation committee and a member of the patient safety and international outreach committees in the Society of Obstetric Anesthesia and Perinatology.

Gillian has an interest in global health and is a member of the Board of Directors of Kybele Inc. (www.kybeleworldwide.org) for which she regularly volunteers to teach obstetric anesthesiology in other countries.

CLINICAL FOCUS

- Anesthesia
- OB Anesthesia

ACADEMIC APPOINTMENTS

- Clinical Professor, Anesthesiology, Perioperative and Pain Medicine

ADMINISTRATIVE APPOINTMENTS

- Clinical Director for Obstetric Anesthesiology, Stanford University School of Medicine, (2019- present)
- Associate Division Chief for Obstetric Anesthesiology, Stanford University School of Medicine, (2022- present)

HONORS AND AWARDS

- Outstanding Interdepartmental Faculty Professor, Department of Obstetrics and Gynecology, Stanford University School of Medicine (2012)
- Medical Staff Impact Award, Lucile Packard Children's Hospital, Stanford (2021)
- STAR (Stanford Teaching in Anesthesia Recognition) Teaching award, Department of Anesthesiology, Stanford University School of Medicine (2025)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member - Educational Track Subcommittee on Obstetric Anesthesia, American Society of Anesthesiologists (2021 - present)
- Member - Sepsis Task Force Advisory Group, California Maternal Quality Care Collaborative (2019 - present)
- Co-editor - Obstetric anesthesia - Anesthesia Tutorial of the Week, World Federation of Societies of Anaesthesiologists (2016 - 2023)
- Chair, Simulation Subcommittee, Education Committee working group, Society of Obstetric Anesthesia and Perinatology (2020 - 2024)
- Member - Patient Safety Subcommittee, Intersociety Committee working group, Society of Obstetric Anesthesia and Perinatology (2014 - 2024)
- Member - Committee on Obstetric Anesthesia, American Society of Anesthesiologists (2025 - present)
- Member - International Outreach Subcommittee, Intersociety Committee working group, Society of Obstetric Anesthesia and Perinatology (2014 - 2021)
- Member - Board of Directors, Kybele Inc. (2020 - present)
- Member - Centers of Excellence Subcommittee, Intersociety Committee working group, Society of Obstetric Anesthesia and Perinatology (2022 - present)

PROFESSIONAL EDUCATION

- Board Certification: Anesthesia, The Royal College of Anaesthetists (2008)
- Medical Education: University of Glasgow (1998) Scotland

COMMUNITY AND INTERNATIONAL WORK

- Kybele Inc.

Publications

PUBLICATIONS

- **Development and Implementation of an Automated Electronic Maternal Early Warning System (E-MEWS) in a Level IV Obstetric Unit** *Cureus*
  Padilla, C., Carvalho, B., Oakeson, A., Riley, E., Abir, G.
  2025; 17 (e84740)
- **Cardiopulmonary Resuscitation in Pregnancy** *AWHONN'S High-Risk and Critical Care Obstetrics*
  Shields, A., Abir, G., Arafeh, J.
  Walters Kluwer.2025; 5th
- **Virtual simulation training for postpartum hemorrhage in low-to-moderate-volume hospitals in the US** *AJOG Global Reports*
  Minor, K., Bianco, K., Mayo, J., Abir, G., Judy, A., Lee, H., Leonard, S., Ayotte, S., Hedli, L., Schaffler, K., Sie, L., Daniels, K.
  2024
- **Obstetric anesthesiology education and training in the modern era.** *International journal of obstetric anesthesia*
  Abir, G.
  2023; 55: 103898
- **Cesarean delivery under neuraxial anesthesia in a patient with a liver transplant** *SRPSKI ARHIV ZA CELOKUPNO LEKARSTVO*
  Krusic, S., Pejcic, N., Stojanovic-Tasic, M., Damnjanovic, D., Abir, G.
  2023; 151 (5-6): 367-370
- **Automated Alert System of Second-Line Uterotonic Drug Administration.** *A&A practice*
  Abir, G., Riley, E. T., Oakeson, A. M., Judy, A., Wang, E., Carvalho, B.

2023; 17 (5): e01687

- **Virtual Compared to In-Person Obstetric Anesthesiology Trainee Education During the COVID-19 Pandemic: A Short Report.** *Cureus*
  Fedoruk, K., Abir, G., Carvalho, B.
  2022; 14 (6): e26423
- **Storage of emergency airway equipment on labor and delivery units.** *Journal of clinical anesthesia*
  Riley, E. T., Carvalho, B., Abir, G.
  2022; 80: 110886
- **Accuracy of visual estimation of blood loss in obstetrics using clinical reconstructions: an observational simulation cohort study.** *International journal of obstetric anesthesia*
  Athar, M. W., Abir, G., Seay, R. C., Guo, N., Butwick, A., Carvalho, B.
  2022; 50: 103539
- **Chapter 73: Anesthetic Management of Pregnant Patients with Novel Coronavirus** *Quick Hits in Obstetric Anaesthesia*
  Sheikh, M., Abir, G., Sultan, P.
  Springer.2022; 1st
- **Emergency Resources in Obstetrics.** *Anesthesiology clinics*
  Seligman, K. M., Abir, G.
  2021; 39 (4): 631-647
- **Maternal sepsis update.** *Current opinion in anaesthesiology*
  Abir, G., Bauer, M. E.
  2021; 34 (3): 254-259
- **An observational pilot study of a novel loss of resistance syringe for locating the epidural space.** *International journal of obstetric anesthesia*
  Athar, M. W., Guo, N., Ortner, C., Carvalho, B., Abir, G., Riley, E. T.
  2021: 102984
- **A strategy for disaster preparedness in obstetrics.** *American journal of disaster medicine*
  Daniels, K., Monga, M., Gupta, S., Abir, G., Chanisse, M., Newton, C.
  2021; 16 (3): 207-213
- **Chapter 37: Maternal Critical Care in a Disaster.** *Principles and Practice of Maternal Critical Care*
  Abir, G., Daniels, K.
  Springer.2020; 1st
- **Chapter 114: Emergency Aids for Obstetric Crises in Anesthesiology** *Manual of Clinical Anesthesiology*
  Abir, G., Seligman, K., Chu, L. F.
  Wolters Kluwer.2020; 2nd
- **Cognitive Aids in Obstetric Units: Design, Implementation, and Use.** *Anesthesia and analgesia*
  Abir, G. n., Austin, N. n., Seligman, K. M., Burian, B. K., Goldhaber-Fiebert, S. N.
  2019
- **Obstetric Anesthesia Emergency Manual**
  Abir, G., Seligman, K., Chu, L.
  Stanford Anesthesia Informatics and Media (AIM) Lab.
  2019
- **Anesthesia for non-delivery obstetric procedures**
  Abir, G., Carvalho, B.
  UpToDate.
  2019
- **Preoperative anterior thigh temperature does not correlate with perioperative temporal hypothermia during cesarean delivery with spinal anesthesia: Secondary analysis of a randomized control trial.** *International journal of obstetric anesthesia*
  Cobb, B. n., Abir, G. n., Carvalho, B. n.

2018; 33: 40–45

- **Chapter 4: Simulation-based Training** *AWHONN's High-Risk and Critical Care Obstetrics*
  Arafeh, J., Abir, G.
  Wolters Kluwer.2018; 4th
- **Chapter 25: Cardiopulmonary Resuscitation in Pregnancy** *AWHONN'S High-Risk and Critical Care Obstetrics*
  Arafeh, J., Abir, G.
  Wolters Kluwer.2018; 4th
- **Maternal mortality and the role of the obstetric anesthesiologist.** *Best practice & research. Clinical anaesthesiology*
  Abir, G., Mhyre, J.
  2017; 31 (1): 91-105
- **Clinical and microbiological features of maternal sepsis: a retrospective study** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
  Abir, G., Akdagli, S., Butwick, A., Carvalho, B.
  2017; 29: 26-33
- **Postpartum tubal ligation: A retrospective review of anesthetic management at a single institution and a practice survey of academic institutions.** *Journal of clinical anesthesia*
  McKenzie, C. n., Akdagli, S. n., Abir, G. n., Carvalho, B. n.
  2017; 43: 39–46
- **Active Warming Utilizing Combined IV Fluid and Forced-Air Warming Decreases Hypothermia and Improves Maternal Comfort During Cesarean Delivery: A Randomized Control Trial** *ANESTHESIA AND ANALGESIA*
  Cobb, B., Cho, Y., Hilton, G., Ting, V., Carvalho, B.
  2016; 122 (5): 1490-1497
- **Checklists and multidisciplinary team performance during simulated obstetric hemorrhage.** *International journal of obstetric anesthesia*
  Hilton, G., Daniels, K., Goldhaber-Fiebert, S. N., Lipman, S., Carvalho, B., Butwick, A.
  2016; 25: 9-16
- **Simulation Study Assessing Healthcare Provider's Knowledge of Pre-Eclampsia and Eclampsia in a Tertiary Referral Center.** *Simulation in healthcare*
  Hilton, G., Daniels, K., Carvalho, B.
  2016; 11 (1): 25-31
- **The impact of advanced maternal age on peripartum thromboelastographic coagulation profiles: a prospective observational exploratory study.** *Canadian journal of anaesthesia = Journal canadien d'anesthe´sie*
  Butwick, A., Gutierrez, M. C., Hilton, G.
  2015; 62 (5): 504-512
- **The impact of breastfeeding on postpartum pain after vaginal and cesarean delivery.** *Journal of clinical anesthesia*
  Wen, L., Hilton, G., Carvalho, B.
  2015; 27 (1): 33-38
- **Prospective longitudinal cohort questionnaire assessment of labouring women's preference both pre- and post-delivery for either reduced pain intensity for a longer duration or greater pain intensity for a shorter duration.** *British journal of anaesthesia*
  Carvalho, B., Hilton, G., Wen, L., Weiniger, C. F.
  2014; 113 (3): 468-473
- **Steps Toward a National Disaster Plan for Obstetrics** *OBSTETRICS AND GYNECOLOGY*
  Daniels, K., Oakeson, A. M., Hilton, G.
  2014; 124 (1): 154-158
- **On-time scheduled cesarean delivery start time process-improvement initiative.** *Obstetrics and gynecology*
  Blumenfeld, Y. J., Riley, E., Hilton, G., Lee, H. C., El-Sayed, Y. Y., Druzin, M. L.
  2014; 123: 138S-9S
- **Chapter 12: Obstetric Events** *Crisis Management in Anesthesiology*
  Hilton, G.

Elsevier.2014; 2nd

- **Anesthetic management of a parturient with VACTERL association undergoing Cesarean delivery** *CANADIAN JOURNAL OF ANESTHESIA-JOURNAL CANADIEN D ANESTHESIE*
  Hilton, G., Mihm, F., Butwick, A.
  2013; 60 (6): 570-576
- **Continuous spinal anesthesia for Cesarean hysterectomy and massive hemorrhage in a parturient with placenta increta** *CANADIAN JOURNAL OF ANESTHESIA-JOURNAL CANADIEN D ANESTHESIE*
  Sultan, P., Hilton, G., Butwick, A., Carvalho, B.
  2012; 59 (5): 473-477
- **Non-invasive haemoglobin measurement in patients undergoing elective Caesarean section** *BRITISH JOURNAL OF ANAESTHESIA*
  Butwick, A., Hilton, G., Carvalho, B.
  2012; 108 (2): 271-277
- **Non-invasive measurement of hemoglobin during cesarean hysterectomy: a case series** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
  Butwick, A. J., Hilton, G., Riley, E. T., Carvalho, B.
  2011; 20 (3): 240-245
- **What were the perceptions of primary care teams on learning from a single multidisciplinary simulation-based training intervention?** *Education for primary care : an official publication of the Association of Course Organisers, National Association of GP Tutors, World Organisation of Family Doctors*
  Strachan, A. N., Graham, A. C., Hormis, A. P., Hilton, G.
  2011; 22 (4): 229-234
- **Failure to Ventilate with the Drager Apollo (R) Anesthesia Workstation** *ANESTHESIOLOGY*
  Hilton, G., Moll, V., Zumaran, A. A., Jaffe, R. A., Brock-Utne, J. G.
  2011; 114 (5): 1238-1240
- **Kinked Perifix® FX Springwound epidural catheters** *Canadian Journal of Anesthesia*
  Hilton, G., Jette, C. G., Ouyang, Y., Riley, E. T.
  2011; 58 (4): 413-14
- **Prolonged propofol infusions in pregnant neurosurgical patients** *JOURNAL OF NEUROSURGICAL ANESTHESIOLOGY*
  Hilton, G., Andrzejowski, J. C.
  2007; 19 (1): 67-68