**Supplemental Digital Content**

**Manuscript Title**: Evaluating the Impact of a Global Surgery Conference on Student Perceptions: A Survey Study

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SDC 1: GSSA Conference Survey (Pre)

1. Participant Code:
2. Gender: F/M/other
3. Educational status (choose 1)
   1. (undergraduate, medical student, graduate student (MPH or PhD), resident, attending, other: please specify)
   2. Please indicate the year of your training or how long you have been an attending (choose 1: freshman – senior, MS1-V, PGY 1-7, GRAD 1-7, attending 1+)
4. Specialty interest or current practice (choose 1)
   1. Surgery
      1. General
      2. Trauma
      3. Orthopedics
      4. Cardiothoracic
      5. Neurosurgery
      6. Oral and Maxillofacial
      7. Plastics
      8. Surgical oncology
      9. Opthalmology
      10. ENT
      11. OB/Gyn
      12. Other: please specify
   2. Anesthesiology
   3. Internal medicine
   4. Infectious disease
   5. Other: please specify
5. Have you had prior experience in global health or global surgery? (Yes/No)
   1. If so, how many years of experience: (<1 year, 1-2 years, 3-5 years, 5+ years)
   2. If so, in how many countries have you done global surgery work? (1, 2, 3, 4, 5+)
   3. If so, how many visits have you done to each country? (1-3, 4-6, 6+)
   4. Please briefly describe your prior experience. If you traveled, please include what countries you were in. If you focused on a particular medical or surgical specialty, please include that as well. (free text)
6. What drew you most to the conference today? (choose 1)
   1. Keynote speaker, panel discussions, networking experience, social aspect of the event, other (please specify)
   2. (optional) If you chose panel discussion, which one in particular interested you the most? (select from options)

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1. What aspect of global surgery interests you the most? (choose 1)
   1. (capacity building and education, research, technology innovation, policy development and reform, surgical mission trips)
2. On a scale from 1 (not at all) to 10 (absolutely certain), how likely do you think you will incorporate global surgery work into your career? (1-10 +; unsure)
3. On a scale from 1 (not at all) to 10 (absolutely critical), how important do you believe the following to be for the advancement of global surgery?
   1. (capacity building and education, research, technology innovation, policy development and reform, surgical mission trips) (1-10 +; unsure for each)
4. What aspects of global surgery do you think are most important for improving surgical care and access in the developing world?
   1. (capacity building and education, research, technology innovation, policy development and reform, surgical mission trips)
5. What aspects of global surgery do you think experience the greatest need for further work, resources, and/or personnel?
   1. (capacity building and education, research, technology innovation, policy development and reform, surgical mission trips)
6. On a scale from 1 (not at all confident) to 10 (absolutely confident), how confident are you in your understanding of what global surgery means as a career? (1-10)

SDC 2: GSSA Conference Survey (Post)

1. Participant Code:

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1. What aspect of global surgery interests you the most? (choose 1)
   1. (capacity building and education, research, technology innovation, policy development and reform, surgical mission trips)
2. On a scale from 1 (not at all) to 10 (absolutely certain), how likely do you think you will incorporate global surgery work into your career? (1-10 +, unsure)
3. On a scale from 1 (not at all) to 10 (absolutely critical), how important do you believe the following to be for the advancement of global surgery?
   1. (capacity building and education, research, technology innovation, policy development and reform, surgical mission trips) (1-10 +, unsure for each)
4. What aspects of global surgery do you think are most important for improving surgical care and access in the developing world?
   1. (capacity building and education, research, technology innovation, policy development and reform, surgical mission trips)
5. What aspects of global surgery do you think experience the greatest need for further work, resources, and/or personnel?
   1. (capacity building and education, research, technology innovation, policy development and reform, surgical mission trips)
6. On a scale from 1 (not at all confident) to 10 (absolutely confident), how confident are you in your understanding of what global surgery means as a career? (1-10)

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1. What did you enjoy most about the conference? What was most helpful or interesting for you? (free text)
2. What aspects of the conference were least enjoyable or could be improved? (free text)
3. Do you have any additional questions, comments, or concerns? (free text)

**SDC 3: Participant Interest by Specialty**

**SDC 4: Participant Interest in Surgery**

**SDC 5: Prior Experience in Global Health or Global Surgery Among Survey Participants**

**SDC 6: Most Important Reason for Attending the Conference**

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| --- | --- |
| **SDC 7: Exact Analysis of the Distribution of Post-Conference Survey Responses to Categorical Questions between Matched and Unmatched Participants** | |
|  | P-value |
| What aspect of global surgery interests you the most? | 0.50846 |
| What aspects of global surgery do you think are most important for improving surgical care and access in the developing world? | 0.23779 |
| What aspects of global surgery do you think experience the greatest need for further work, resources, and/or personnel? | 0.74747 |

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| --- | --- | --- | --- |
| **SDC 8: Mann-Whitney U Test of Unmatched vs Matched Post-Conference Survey Results** | | | |
|  | Unmatched Post Conference Mean Score | Matched Post Conference Mean Score | P Value |
| On a scale from 1 (not at all) to 10 (absolutely certain), how likely do you think you will incorporate global surgery work into your career? | 8.58 | 8.20 | 0.76418 |
| On a scale from 1 (not at all confident) to 10 (absolutely confident), how confident are you in your understanding of what global surgery means as a career? | 8.25 | 8.29 | 0.68916 |
| On a scale from 1 (not at all) to 10 (absolutely critical), how important do you believe the following to be for the advancement of global surgery? | | | |
| Capacity Building | 9.33 | 8.95 | 0.50286 |
| Policy Development | 8.92 | 8.71 | 0.87288 |
| Research | 8.50 | 8.05 | 0.3125 |
| Surgical Mission Trips | 7.08 | 7.84 | 0.74896 |
| Technology Innovation | 8.25 | 8.29 | 0.30302 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SDC 9: Chi Square Analyses of Matched vs Non-Matched Pre-Conference Survey Respondents** | | | | |
|  | Matched | Unmatched | X2 | P-value |
| gender ratio (% female) | 72% | 48% | 7.0609 | **0.007879a** |
| % of medical student respondents | 64% | 66% | 0.0377 | 0.845999 |
| % interested in surgery | 84% | 76% | 1.3558 | 0.244271 |
| % with prior global health experience | 41% | 43% | 0.0353 | 0.850898 |

aNote, this p-value is no longer significant after accounting for multiple hypothesis testing (Bonferroni correction p < 0.00098).

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| --- | --- | --- | --- | --- | --- |
| **SDC 10: Mann-Whitney U Tests of Matched vs Non-Matched Participant Pre-Conference Survey Responsesa** | | | | | |
| On a scale from 1 (not at all) to 10 (absolutely certain), how likely do you think you will incorporate global surgery work into your career? | | | | | |
|  | Matched | Unmatched |  | z score: | P-value: |
| mean score (number of responses) | 7.83 (54) | 7.77 (57) | -0.20355 | 0.84148 |
|  | | |  | |
| On a scale from 1 (not at all confident) to 10 (absolutely confident), how confident are you in your understanding of what global surgery means as a career? | | | | | |
| mean score (number of responses) | Matched | Unmatched |  | z score: | P-value: |
| 6.30 (53) | 5.95 (56) | -1.27922 | 0.20054 |
|  | | |  | |
| On a scale from 1 (not at all) to 10 (absolutely critical), how important do you believe the following to be for the advancement of global surgery? | | | | | |
|  | | |  |  | |
| Capacity building and education | | |
| mean score (number of responses) | Matched | Unmatched | z score: | P-value: |
| 8.44 (54) | 8.36 (55) | 0.69697 | 0.48392 |
|  | | |  | |
| Policy development and reform | | |
| mean score (number of responses) | Matched | Unmatched | z score: | P-value: |
| 8.11 (53) | 8.04 (56) | 0.29101 | 0.77182 |
|  | | |  | |
| Research | | |
| mean score (number of responses) | Matched | Unmatched | z score: | P-value: |
| 8.13 (55) | 7.91 (57) | -0.29101 | 0.77182 |
|  | | |  | |
| Surgical mission trips | | |
| mean score (number of responses) | Matched | Unmatched | z score: | P-value: |
| 7.27 (56) | 6.81 (57) | -0.72644 | 0.4654 |
|  | | |  | |
| Technology innovation | | |
| mean score (number of responses) | Matched | Unmatched | z score: | P-value: |
| 8.02 (53) | 7.84 (57) | -0.01196 | 0.99202 |

a: survey participants in either group who marked “unsure” for a question did not have their responses included in the analysis.

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| **SDC 11: Test of Marginal Homogeneity for Categorical Pre- vs Post-Conference Responses for Matched Participants** | | |
| Question | Chi-Squared | P-value |
| What aspect of global surgery interests you the most? | 3.22 | 0.51 |
| What aspects of global surgery do you think are most important for improving surgical care and access in the developing world? | 2.99 | 0.56 |
| What aspects of global surgery do you think experience the greatest need for further work, resources, and/or personnel? | 3.55 | 0.47 |