

# 2024 Sustainable Operating Room Scorecard

| Operating Room Sustainability Strategies                                       | TAHSN 2024 |   |   | 2024 Green Scores   |
|--|------------|---|---|---|
| Sustainability Leadership  |            |   |   |   |
| 1. Implement leadership structure to support perioperative sustainability      | 6          | 7 | 0 | Humber, Michael Garron, Scarborough, Sinai, Trillium, Unity - St Joseph's                                   |
| Anesthetic gases   |            |   |   |   |
| 2. Eliminate desflurane for surgical procedures requiring general anesthesia   | 12         | 1 | 0 | SickKids, Michael Garron, North York, Scarborough, Sinai, Sunnybrook, Trillium, Unity, UHN, Women's College |
| 3. Use ≤0.5L/min fresh gas flow  | 12         | 0 | 1 | Humber, Michael Garron, North York, Scarborough, Sinai, Sunnybrook, Trillium, Unity, UHN, Women's College   |
| Reusables  |            |   |   |   |
| 4. Establish reusable anesthesia equipment in place of single use products     | 3          | 8 | 2 | Humber, North York, UHN - Western   |
| 5. Use reusable sterile surgical gowns   | 4          | 9 | 0 | Michael Garron, Unity, UHN - Western  |
| 6. Encourage patients to bring their own reusable belongings bags              | 2          | 9 | 2 | Humber, North York  |
| 7. Use rigid containers or reusable linens in place of blue polypropylene wrap | 9          | 2 | 2 | SickKids, Humber, Scarborough, Sinai, Sunnybrook, Unity, UHN  |
| Waste Reduction & Management   |            |   |   |   |
| 8. Segregate biomedical and pharmaceutical waste accurately                    | 4          | 5 | 4 | SickKids, Humber, UHN   |
| 9. Lean trays and/or custom packs to include only frequently used items        | 6          | 5 | 2 | SickKids, Humber, Michael Garron, Unity - St Joseph's, UHN  |
| Facilities   |            |   |   |   |
| 10. Reduce nitrous oxide use and leaks   | 4          | 9 | 0 | Humber, UHN, Women's College  |

■ Achieved the sustainability strategy
 ■ Partially achieved the sustainability strategy
 ■ Did not achieve the sustainability strategy

# 2024 Sustainable Operating Room Scorecard

The Sustainable Health System Community of Practice developed this scorecard to assess the current state of sustainable practices in operating rooms across the Toronto Academic Health Science Network (TAHSN). The scorecard is updated annually by the Sustainable Operating Rooms Working Group, which has representation from all TAHSN organizations, and in consultation with additional experts and evidence in literature.

## 2024 vs 2023 & 2022 Results

| Operating Room Sustainability Strategies                                       |  | TAHSN 2024 |    |   | TAHSN 2023 |    |   | TAHSN 2022 |   |   |   |
|--|--|------------|----|---|------------|----|---|------------|---|---|---|
| Sustainability Leadership  |  |            |    |   |            |    |   |            |   |   |   |
| 1. Implement leadership structure to support perioperative sustainability      |  | 6          | 7  | 0 | 6          | 7  | 0 |            |   |   |   |
| Anesthetic gases   |  |            |    |   |            |    |   |            |   |   |   |
| 2. Eliminate desflurane for surgical procedures requiring general anesthesia   |  | ↑          | 12 | 1 | 0          | 10 | 2 | 1          | 5 | 3 | 5 |
| 3. Use ≤0.5L/min fresh gas flow  |  | ↑          | 12 | 0 | 1          | 10 | 1 | 2          | 8 | 4 | 1 |
| Reusables  |  |            |    |   |            |    |   |            |   |   |   |
| 4. Establish reusable anesthesia equipment in place of single use products     |  | ↑          | 3  | 8 | 2          | 1  | 9 | 3          |   |   |   |
| 5. Use reusable sterile surgical gowns   |  | ↑          | 4  | 9 | 0          | 3  | 7 | 3          | 4 | 1 | 8 |
| 6. Encourage patients to bring their own reusable belongings bags              |  | ↑          | 2  | 9 | 2          | 1  | 8 | 4          |   |   |   |
| 7. Use rigid containers or reusable linens in place of blue polypropylene wrap |  | ↑          | 9  | 2 | 2          | 7  | 4 | 2          |   |   |   |
| Waste Reduction & Management   |  |            |    |   |            |    |   |            |   |   |   |
| 8. Segregate biomedical and pharmaceutical waste accurately                    |  | ↑          | 4  | 5 | 4          | 2  | 4 | 7          | 6 | 0 | 7 |
| 9. Lean trays and/or custom packs to include only frequently used items        |  | ↑          | 6  | 5 | 2          | 4  | 4 | 5          | 8 | 3 | 2 |
| Facilities   |  |            |    |   |            |    |   |            |   |   |   |
| 10. Reduce nitrous oxide use and leaks   |  | ↑          | 4  | 9 | 0          | 3  | 5 | 5          |   |   |   |

## 2024 Sustainable Operating Room Working Group

| TAHSN Representatives                                       |   |
|---|---|
| SickKids  | <ul style="list-style-type: none"> <li>• Dr. Elaine Ng, Staff Anesthesiologist; Co-chair, Perioperative Care Unit Green Committee; Director of Education, Department of Anesthesia and Pain Medicine</li> <li>• Cameron Irani, RN, MN</li> </ul>  |
| Humber River Hospital                                       | <ul style="list-style-type: none"> <li>• Jhanvi Solanki, RN, MN, Vice President, Clinical Programs</li> </ul>   |
| Michael Garron Hospital                                     | <ul style="list-style-type: none"> <li>• Dr. Tenille Ragoonanan, Anesthesiologist; Perioperative Team Champion for Sustainability</li> <li>• Wissam Halimeh, Quality Manager</li> </ul>   |
| North York General Hospital                                 | <ul style="list-style-type: none"> <li>• Dr. Melissa Ho, Anesthesiologist; Co-lead Perioperative Sustainability</li> </ul>  |
| Scarborough Health Network                                  | <ul style="list-style-type: none"> <li>• Dr. Kim-Chi Tran, Urologist</li> </ul>   |
| Sinai Health  | <ul style="list-style-type: none"> <li>• Dr. Soniya Sharma, Anesthesiologist</li> </ul>   |
| Sunnybrook Health Sciences Centre                           | <ul style="list-style-type: none"> <li>• Dr. Martin Van der Vyver, Anesthesiologist; Co-Chair, Green OR Task Force</li> <li>• Barbara McArthur, Patient Care Manager; Co-Chair, Green OR Task Force</li> </ul>  |
| Trillium Health Partners                                    | <ul style="list-style-type: none"> <li>• Dr. Anita Rao, Anesthesiologist (Working Group Chair); Physician Lead of Environmental Sustainability</li> <li>• Dr. Munir Jamal, Head, Division of Urology</li> </ul>   |
| Unity Health Toronto  | <ul style="list-style-type: none"> <li>• Laurie Thomas, Senior Clinical Director of Surgery</li> <li>• Dr. Sarah Ward, Orthopaedic Surgeon, St. Michael's Hospital</li> <li>• Dr. Ali Abbass, Anesthesiologist; Chief of Environmental Stewardship and Sustainability, St. Joseph's Hospital</li> </ul>   |
| University Health Network                                   | <ul style="list-style-type: none"> <li>• Dr. Laura Donahoe, Thoracic &amp; Lung Transplant Surgeon; Operating Room Green Team Lead, Toronto General Hospital</li> </ul>   |
| Women's College Hospital                                    | <ul style="list-style-type: none"> <li>• Dr. Karen Devon, Endocrine and Thyroid Surgeon</li> </ul>  |
| Department of Surgery, University of Toronto                | <ul style="list-style-type: none"> <li>• Emily Pearsall, Manager, Best Practice in Surgery</li> </ul>   |
| Secretariat   |   |
| Collaborative Centre for Climate, Health & Sustainable Care | <ul style="list-style-type: none"> <li>• Fiona Miller, Professor, Institute of Health Policy, Management and Evaluation, Dalla Lana School of Public Health; Director, Collaborative Centre for Climate, Health &amp; Sustainable Care, University of Toronto</li> <li>• Brittany Maguire, Managing Director, Collaborative Centre for Climate, Health &amp; Sustainable Care, University of Toronto</li> </ul> |