

## 2023 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 2022 version of this scorecard was updated by the Sustainable Operating Rooms Working Group, which has representation from all TAHSN organizations, and in consultation with additional experts and evidence in literature. See Page 3 for working group members.

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

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

## 2023 vs 2022 TAHSN Results

The table below compares the 2023 Sustainable Operating Room Scorecard TAHSN results with the 2022 results, where appropriate. Please note: the 2023 scorecard has been amended based on consultation and literature review; as a result, not all items are comparable between years.

Operating Room Sustainability Strategies	TAHSN 2023			TAHSN 2022			2023 Green Scores	2022 Green Scores
<b>Anesthetic gases</b>								
2. Eliminate desflurane for surgical procedures requiring general anesthesia	10	2	1	5	3	5	SickKids, Michael Garron, North York General, Sinai, Sunnybrook, Trillium, Unity (St Joseph's), UHN (TG & TW), Women's	SickKids, Sinai, Sunnybrook, Trillium, Unity (St Joseph's)
3. Use ≤0.5L/min fresh gas flow	10	1	2	8	4	1	Humber, Michael Garron, North York General, Sinai, Sunnybrook, Trillium, Unity (St Michael's & St Joseph's), UHN (TG & TW)	Humber, Michael Garron, North York General, Sinai, Sunnybrook, Unity (St Joseph's), Trillium, Women's
<b>Reusables</b>								
5. Use reusable sterile surgical gowns	3	7	3	4	1	8	Michael Garron, Unity (St Michael's & St Joseph's)	Michael Garron, Sinai, Unity (St Michael's & St Joseph's)
<b>Waste Reduction &amp; Management</b>								
7. Segregate biomedical and pharmaceutical waste accurately <i>* Note: scoring was amended for 2023, resulting in a higher expectation for scoring green.</i>	2	4	7	6	0	7	UHN (TG & TW), Sunnybrook (Holland)	Humber, Sinai, Unity (St Joseph's), UHN (TG & TW), Women's
9. Lean custom packs to include only frequently used items <i>*Note: scoring was amended for 2023, resulting in a higher expectation for scoring green.</i>	4	4	5	8	3	2	Humber, Unity (St Joseph's), UHN (TG & TW), Sunnybrook (Holland)	Humber, SickKids, Scarborough, Sunnybrook, Unity (St Joseph's), UHN (TG & TW), Women's

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

## 2023 Sustainable Operating Room Working Group

TAHSN Representatives	
<b>SickKids</b>	<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>
<b>Humber River Hospital</b>	<ul style="list-style-type: none"> <li>• Jhanvi Solanki, RN, MN, Vice President, Clinical Programs</li> </ul>
<b>Michael Garron Hospital</b>	<ul style="list-style-type: none"> <li>• Dr. Tenille Ragoonanan, Anesthesiologist; Perioperative Team Champion for Sustainability</li> <li>• Wissam Halimeh, Quality Manager</li> </ul>
<b>North York General Hospital</b>	<ul style="list-style-type: none"> <li>• Dr. Melissa Ho, Anesthesiologist; Co-lead Perioperative Sustainability</li> </ul>
<b>Scarborough Health Network</b>	<ul style="list-style-type: none"> <li>• Dr. Kim-Chi Tran, Urologist</li> </ul>
<b>Sinai Health</b>	<ul style="list-style-type: none"> <li>• Dr. Soniya Sharma, Anesthesiologist</li> </ul>
<b>Sunnybrook Health Sciences Centre</b>	<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>
<b>Trillium Health Partners</b>	<ul style="list-style-type: none"> <li>• Dr. Anita Rao, Anesthesiologist (Working Group Chair)</li> <li>• Dr. Munir Jamal, Head, Division of Urology</li> </ul>
<b>Unity Health Toronto</b>	<ul style="list-style-type: none"> <li>• Laurie Thomas, Senior Clinical Director of Surgery</li> <li>• Jack Li, Operating Room – Clinical Nursing Educator</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>
<b>University Health Network</b>	<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>
<b>Women's College Hospital</b>	<ul style="list-style-type: none"> <li>• Dr. Karen Devon, Endocrine and Thyroid Surgeon</li> </ul>
<b>Department of Surgery, University of Toronto</b>	<ul style="list-style-type: none"> <li>• Emily Pearsall, Manager, Best Practice in Surgery</li> </ul>
Secretariat	
<b>Centre for Sustainable Health Systems, University of Toronto</b>	<ul style="list-style-type: none"> <li>• Fiona Miller, Professor, Institute of Health Policy, Management and Evaluation, Dalla Lana School of Public Health, University of Toronto; Director, Centre for Sustainable Health Systems</li> <li>• Brittany Maguire, Managing Director, Centre for Sustainable Health Systems, University of Toronto</li> </ul>