Faculty Information:

Last name: Mahan
First name: Vicki
Faculty Position: Assistant Professor
Department: Cardiothoracic Surgery
Institution: DUCOM/St. Christopher's Hospital for Children
Phone: 215 427 5000
Email Address: vicki.mahan@tenethealth.com

Type of Research?

Other (please specify)
We are currently doing basic science, clinical, and translational research. We are in the process of applying for several funding grants on the use of carbon monoxide in patients with TBI, the use of carbon monoxide in a piglet model of neonatal encephalopathy, and the use of carbon monoxide in a rat model of TBI. I have also been asked to write several papers on various topics and we have several unusual cases that require write-up as case reports and/or need to be presented as posters locally, regionally, or nationally. We are also involved internationally.

Please describe your research interests:

pediatric cardiothoracic surgery, use of carbon monoxide as a neuroprotective agent, development of nitric oxide sensor to determine myocardial status
<table>
<thead>
<tr>
<th>Q4: <strong>Please provide a brief description of research opportunity/project(s):</strong></th>
</tr>
</thead>
</table>
| 1) **Title of project(s):**  
Intra/Extracardiac Fenestrated Fontan Procedure |
| **Brief Description:**  
We are evaluating the hemodynamic results of this new completion Fontan procedure |
| **Duration:**  
6 months |
| **Time commitment:**  
4 hours/week |
| **Specific Requirements:**  
none |
| **Funded or unfunded (yes or no):**  
unfunded |
| 2) **Title of project(s):**  
Innominate Artery Cannulation |
| **Brief Description:**  
We are reviewing our results on this new type of cannulation in redo sternotomies |
| **Duration:**  
6 months |
| **Time commitment:**  
4 hours/week |
| **Specific Requirements:**  
none |
| **Funded or unfunded (yes or no):**  
unfunded |

<table>
<thead>
<tr>
<th>Q5: <strong>Please indicate the specific level of experience required, if applicable:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Open to all medical students</td>
</tr>
</tbody>
</table>