

2025 Air in Circuit - Hypoperfusion

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| Permission to print: | Yes |
| Category | Air in circuit |
| Category 2 | hypo / hyper perfusion" |
| Severity | Good Catch No Harm Incident |
| Duration of incident: | minutes |
| Description: | <p>Tricky case (redo) and we had a fem venous cannula with a Y to the SVC. A vacuum assist was prepared beforehand using the Boehringer VAVD controller. I was not told directly our usual set was in stock and when I asked a Adult Perfusionist for a set, they created a set using the tubing from an "cell saver" adaption tubing pack. My patient was in theatre at the time and I just assumed from this action that we did not have our usual VAVD tubing set available. A hole was made in the IVC [unintentionally] during the case which created an airlock. Both lines were completely empty/full of air and when vacuum assist was initiated, I didn't realise the Y-piece connected to the reservoir was clipped off - the two white clips (see picture) were both clipped off to both to the VAVD controller and reservoir vent side. I believed in that moment that vacuum suction was initiated when it was not. This caused the airlock not to be cleared and a second perfusionist walked in shortly after and noticed the clip to the reservoir was still clipped off. The option of filling the line back up either at the table end or through the 3-way tap was the next option. But thankfully we managed to get drainage quickly with the VAVD. During the incident we were on sucker bypass. The patients NIRS did not drop by much, and neither did the SVO2 and the lowest MAPs was in the 30s [while flow was reduced]. The entire incident after the surgeon made the hole and being back on full bypass was about 4 minutes. We were at 32 degrees at the time. I spoke to the anaesthetist who was looking after the patient [after the event] she said the patient is doing well.</p> |
| GOOD CATCH - what went well | A second perfusionist was called and walked in shortly and spotted the issues after the incident occurred. |
| What could we do better | A standard (LivaNova) vacuum line with moisture trap could have been used instead |
| Preventive actions | Ensure a LivaNova vacuum line is available. We have had a discussion within our team that normal VAVD sets should be used first. |
| Type of incident: | Management |
| Timing of incident: | CPBhypothermic |
| Discussed with team: | Yes |
| Hospital incident filed | No |
| Ext Authority Advised | No |
| Knowledge issue | Yes |
| Protocol issue | No |
| Rule issue | Yes |
| Skill issue | Yes |
| Team Issue | Yes |
| Violation | No |

Procedure acuity: Elective

Patient outcome variance Nil

