Charcoal WAGDS for OOOR at BWH

From
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I have no conflicting Interests
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Charcoal Absorbsion in OOOR

Some of our OOOR\textsuperscript{1} locations lack WAGD\textsuperscript{2} systems
We sometimes use Sevoflurane for general anesthesia there
We use f/air\textsuperscript{™} Activated Charcoal to absorb halocarbon agents

\textsuperscript{1} WAGDS = Waste Anesthetic Gas Disposal System
\textsuperscript{2} OOOR = Out Of Operating Room
Absorption capability specification is 50 g
Anesthetic Gas path

Fresh Gas Flow pushes gas into circuit
Ventilator or hand pushes gas into lungs
Patient takes up a bit
WAG path

Exhaled gas goes out APL or vent exhaust valve to exhaust hose
Charcoal absorber is connected to exhaust hose
Charcoal

It is important that you or others do not breathe anesthetic
One filter holds 50 g of liquid agent which is 30 ml liquid
One 250 mL bottle of sevo requires 7 charcoal absorbers
(unpublished analysis)
Important to have Anes Tech change canister each day that inhaled agents are used.
Important for you to check that there is no agent leak
Check that no agent flows from the charcoal absorber

Seal wye, Open APL, set 4 LPM O2, set Sevo Vap = 4 %
Sample the outflow, watch monitor numerics
Replace Charcoal Absorber

If monitor reads > 0
If you smell sevo leaving absorber
Tell your Anes Tech you used Sevo. 
S/he will replace Charcoal Absorber after every Sevo case.