**Responses to reviewer queries**

54927\_R1\_083116.docx was used for performing the revision

1. All tables should be uploaded separately to your Editorial Manager account in the form of an .xls or .xlsx file.

**Response**: Materials list have been provided in .xlsx format. Other tables contain images and difficult to provide in .xlsx file format.

2. Length note: Less than one page of material is highlighted for filming, leaving plenty of room to expand on the included material or to include additional protocol sections.

**Response**: Less than one page of material is highlighted as suggested by the editors

3. The manuscript should be copy edited for scattered grammar/formatting errors. Some examples include:

-Steps 3.4, 3.9, 5.1 and 5.6 are missing a period at the end of the sentence.

**Response**: The sentences have been completed with period.

-3.5: Should be on, rather than in, the laptop screen.

**Response**: The word “in” has been replaced with “on”

-4.3: "Allow both probes to remain on the vessels for several minutes, record and compare the flow between the two flow probes." Missing grammatical article (and).

**Response**: The word and has been added to the sentence.

-5.2 grammar is a bit unclear: "Perform femoral artery cut down to access the left femoral artery."

**Response**: The sentence has been modified for clarity.

-Line 228: "The concentration of ICG required to produce optimal fluorescent images were determined using the following procedure."

**Response**: We are unable to understand the change requested in this line.

-Paragraph 2 of the Results section, which starts on line 240, is formatted more like a figure legend than a paragraph of text.

**Response**: Paragraph 2 has been modified as a text paragraph.

4. Additional detail is needed:

-2.1: Incise using what? JoVE veterinary reviewers typically recommend initial incisions be made with a scalpel rather than scissors.

**Response**: Details about the incision procedure and the blades used has been provided.

-2.2: Dissect using what?

**Response**: The dissection tools used have been specified in this step.

-3.1: Prepare solution in what type of container? (Subsequent step suggests in a syringe?)

**Response**: The details about the container, volume, syringe, and needle have been added.

-3.5: Which laptop key is pressed?

**Response**: The specific about recording the images has been included.

-4.1 and 4.2: Measure the flow how?

**Response**: Details of flow measurement has been added.

-5.5: Please clarify, on each side of what?

**Response**: The details of visualization has been clarified

6. Responses to Reviewer #1 comments:

(i) Major Concerns:

Under clinical circumstances, evaluating flow in a grafted vessel under clamping of native artery seems to be much more important than the procedures under clamping of grafted vessel as shown in this paper.

**Response**: We agree with the reviewer that evaluating flow upon clamping the native artery is clinically more important; however, this initial study was just a proof of concept model. We will ensure to include the reviewer’s suggestion in the next study.

(ii) Minor Concerns:

In Figure 5, boxes a, b, and c do not seem to indicate proper site of native carotid artery, proximal and distal end, respectively. Especially, box a looks to indicate grafted jugular vein. Using arrows or arrowheads will be helpful.

**Response**: As suggested by reviewer, arrowheads has been added to a, b and c in Figure 5.

In Figure 8, are images in panel d in correct direction? Vessels horizontally exist in images b and c, while it seems to be vertical in image d.

**Response**: Panel d is in vertical direction and figure legend has been modified to indicate the same.

7. Responses to Reviewer #3:

The only question is that when using this setup take ICG fluorescent imaging pictures, do you need to turn off the surrounding light or keep the light as normal operating room? These fluorescent imaging pictures' background is so dark.

**Response**: It was necessary to reduce the surrounding light considerably, but not completely; hence, causing the image pictures' background to be rather dark.