

Supplementary Material II

Eisler *et al.*

Included in this electronic supplementary material B (ESM B) are the histology, micro-CT and pressure data of each individual CSII catheter. Please note that the y-Axes have different scales in each example to better show the pressure profile.

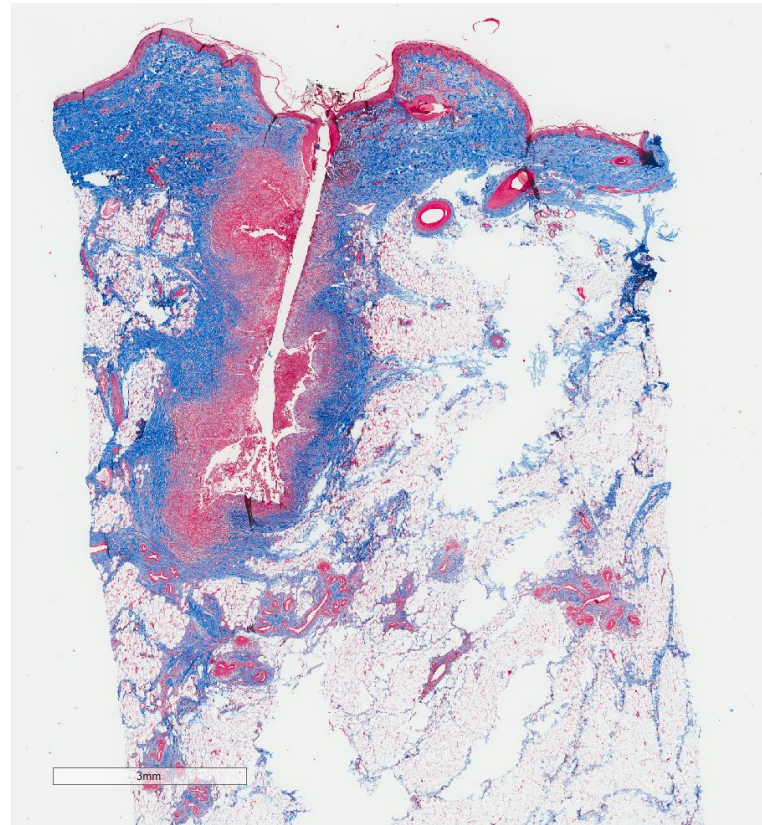
90° Straight Teflon IISs

90°, Swine S01, 14 days

Note:

kinked cannula

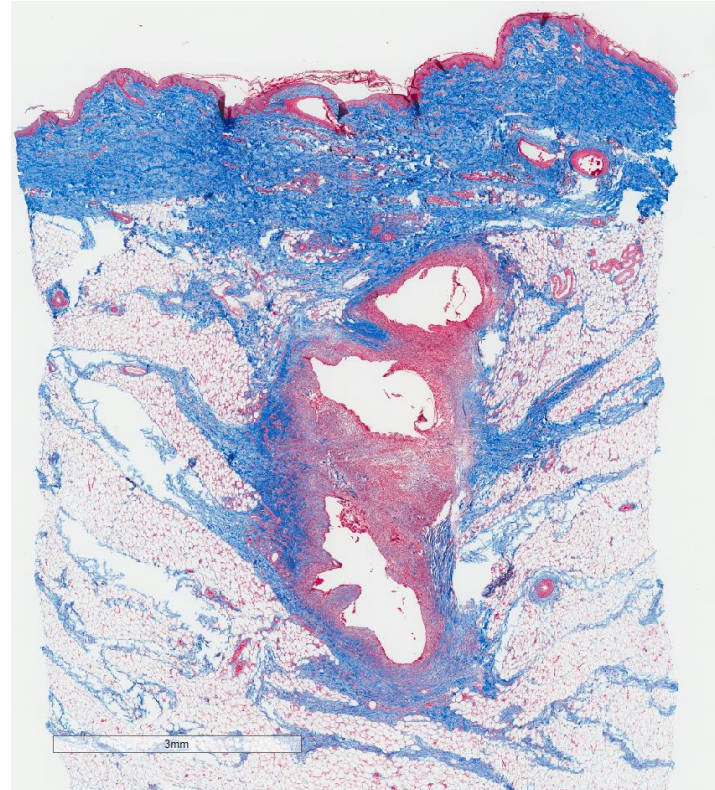
At this point, micro-CT and pressure measurement methods had not yet been finalized.



90°, Swine S01, 12 Days

Note:

At this point, micro-CT and pressure measurement methods had not yet been finalized.

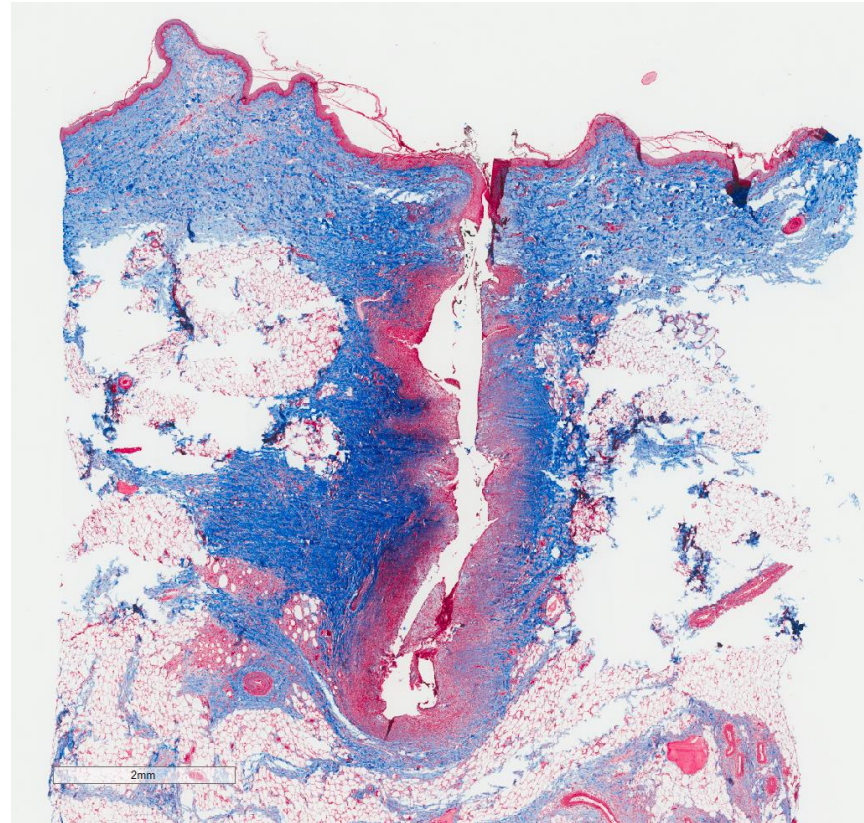


90°, Swine S01, 10 Days

Note:

kinked cannula

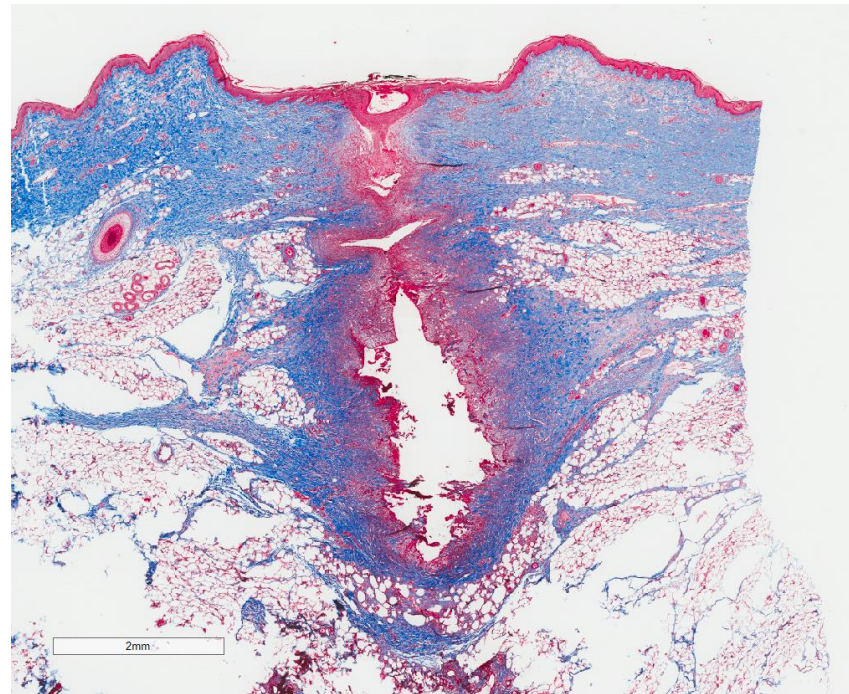
At this point, micro-CT and pressure measurement methods had not yet been finalized.



90°, Swine S01, 8 Days

Note:

At this point, micro-CT and pressure measurement methods had not yet been finalized.

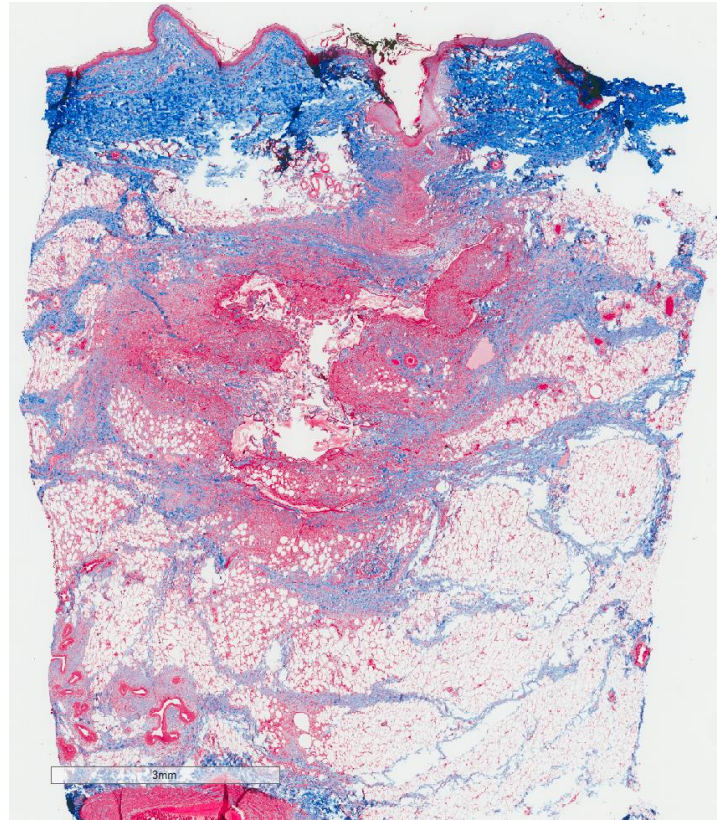


90°, Swine S01, 6 Days

Note:

kinked cannula

At this point, micro-CT and pressure measurement methods had not yet been finalized.



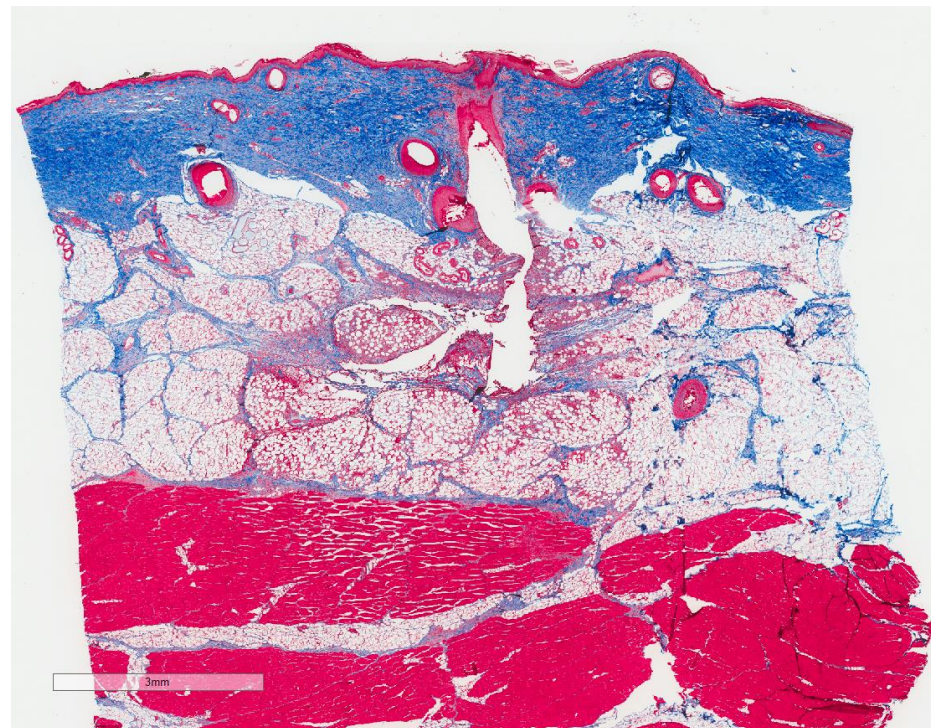
90°, Swine S01, 4 Days

Note:

kinked cannula

pump occlusion alarm

At this point, micro-CT and pressure measurement methods had not yet been finalized.

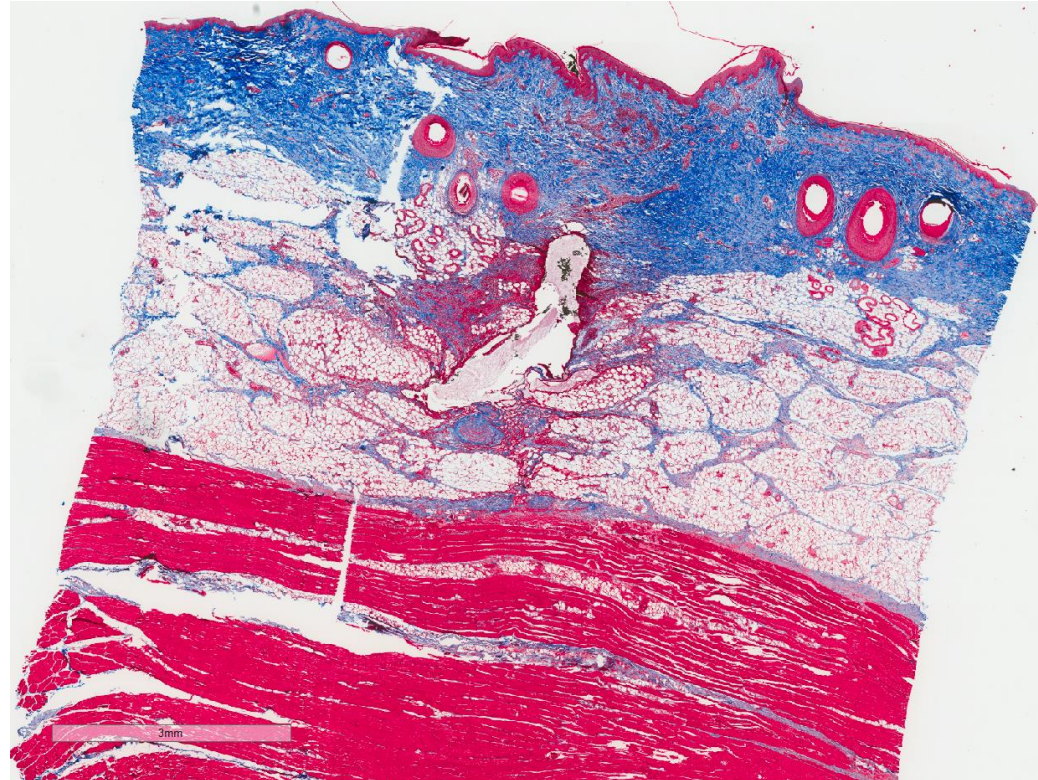


90°, Swine S01, 2 Days

Note:

kinked cannula

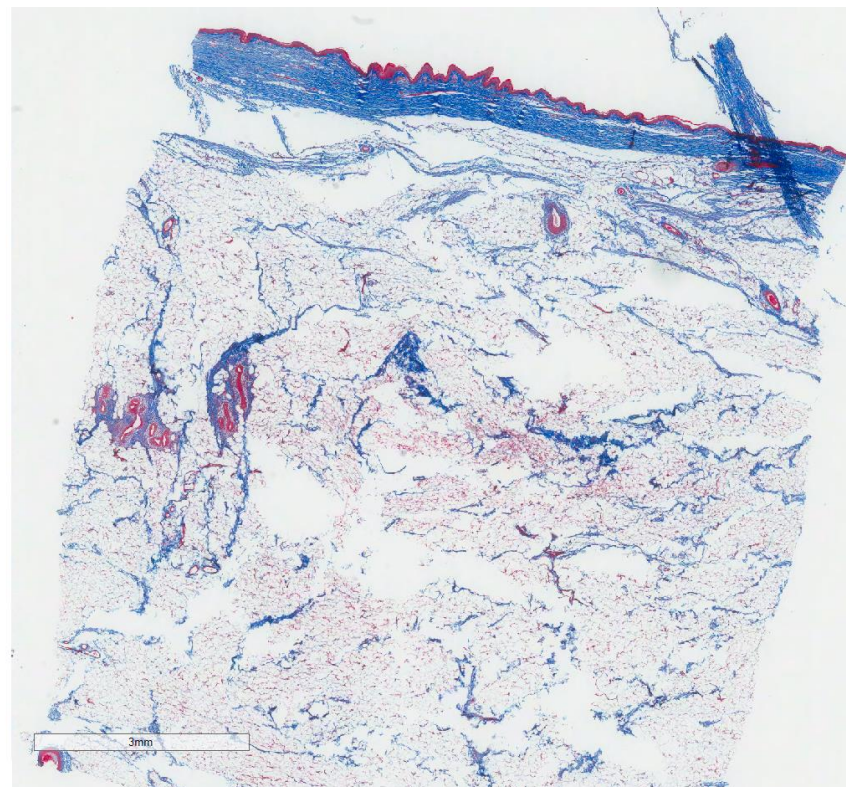
At this point, micro-CT and pressure measurement methods had not yet been finalized.



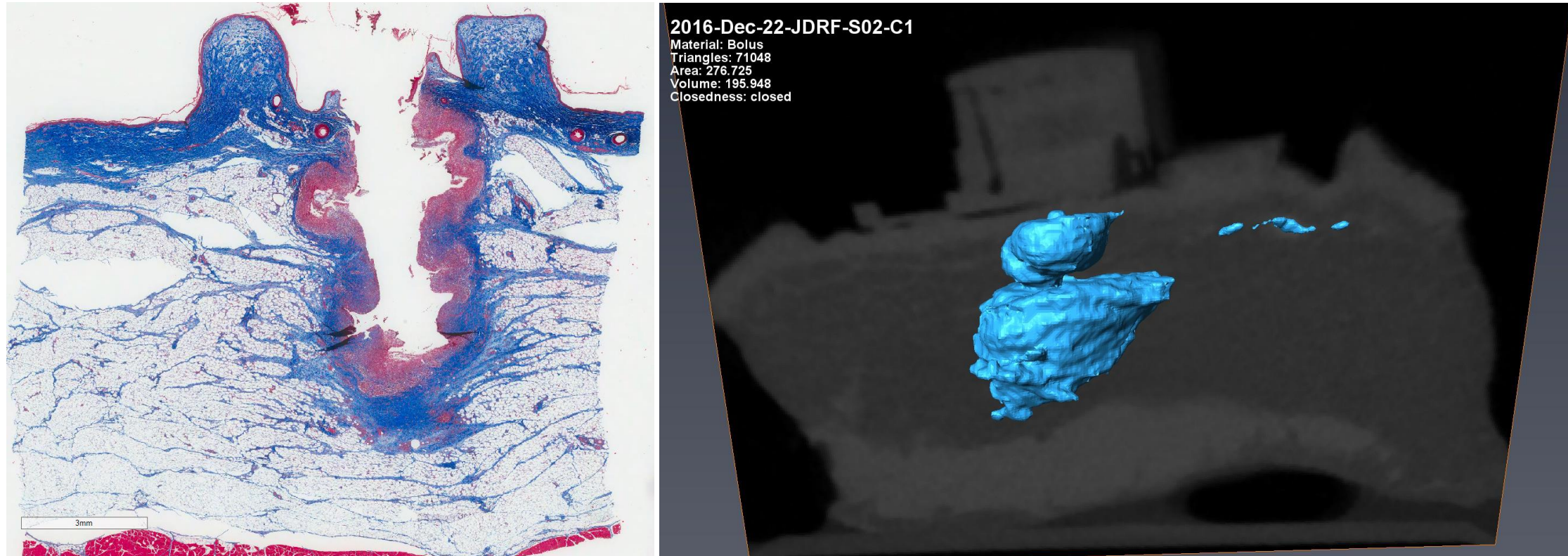
90°, Swine S01, Freshly Inserted (Day 1)

Note:

At this point, micro-CT and pressure measurement methods had not yet been finalized.



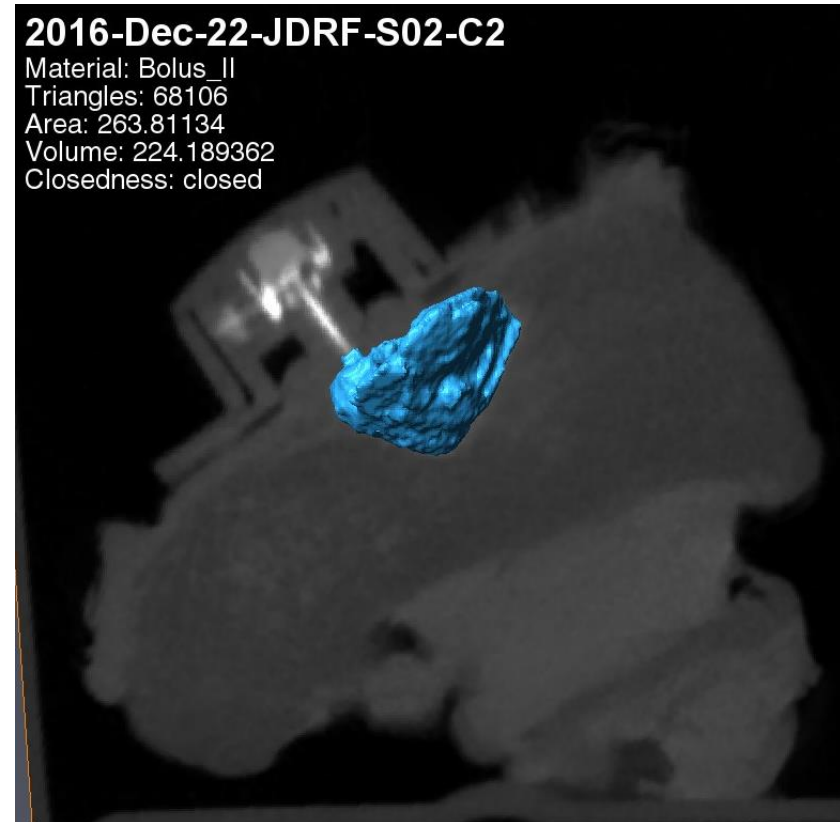
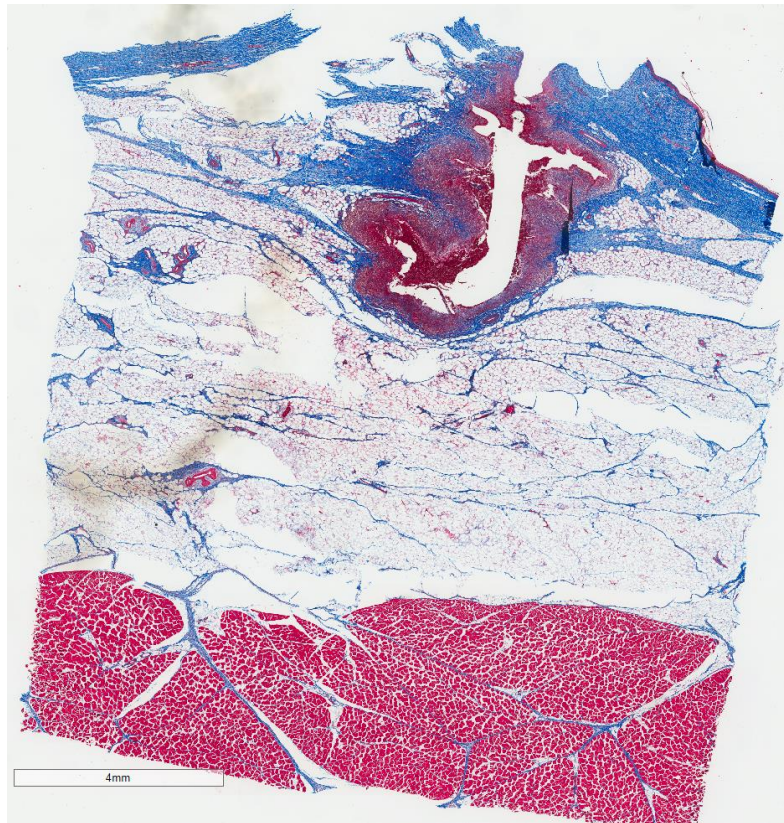
90°, Swine S02, 14 Days



Note: kinked cannula

At this point, pressure measurement methods had not yet been finalized.

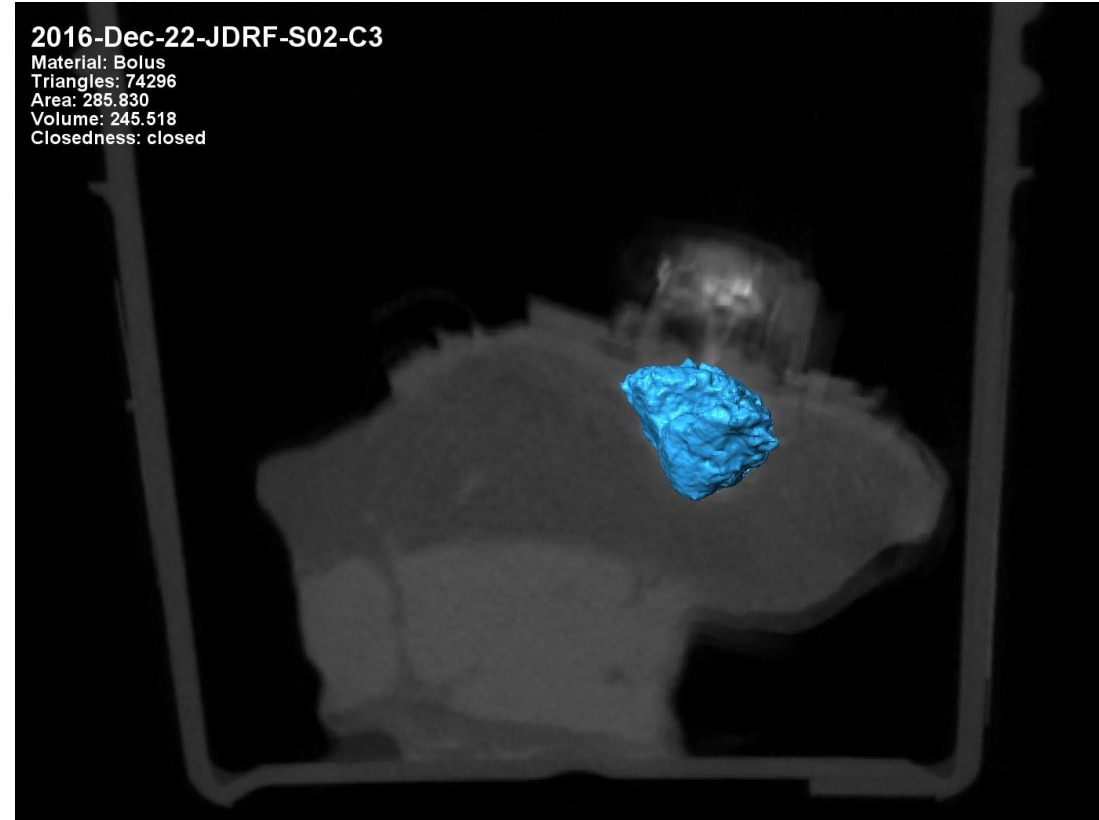
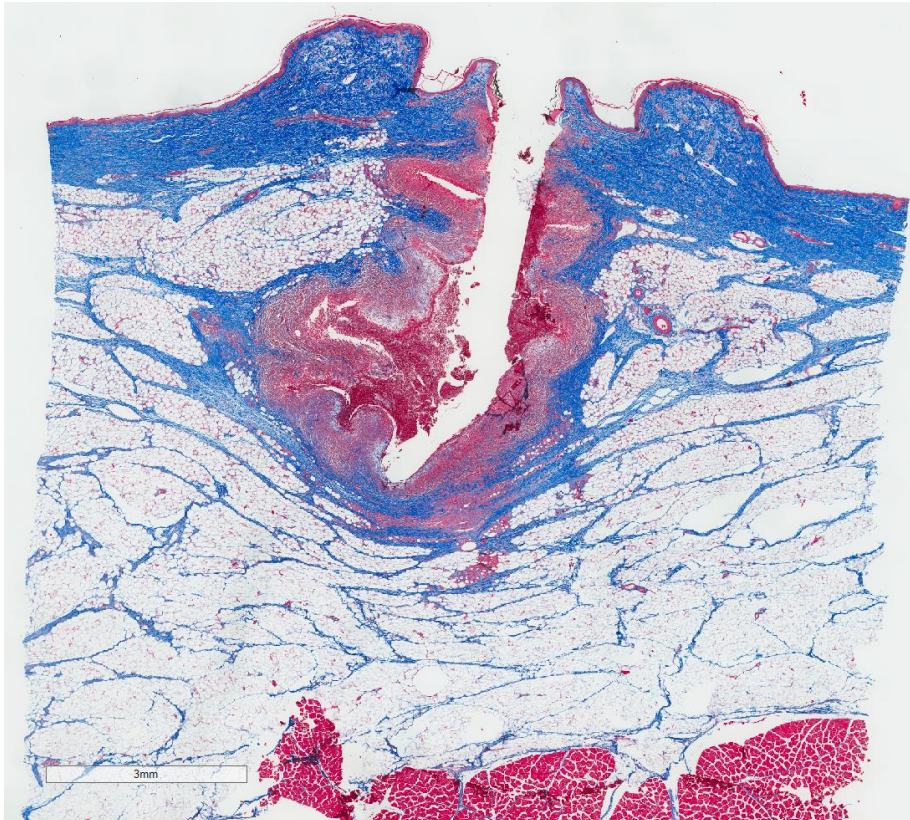
90°, Swine S02, 12 Days



Note: kinked cannula

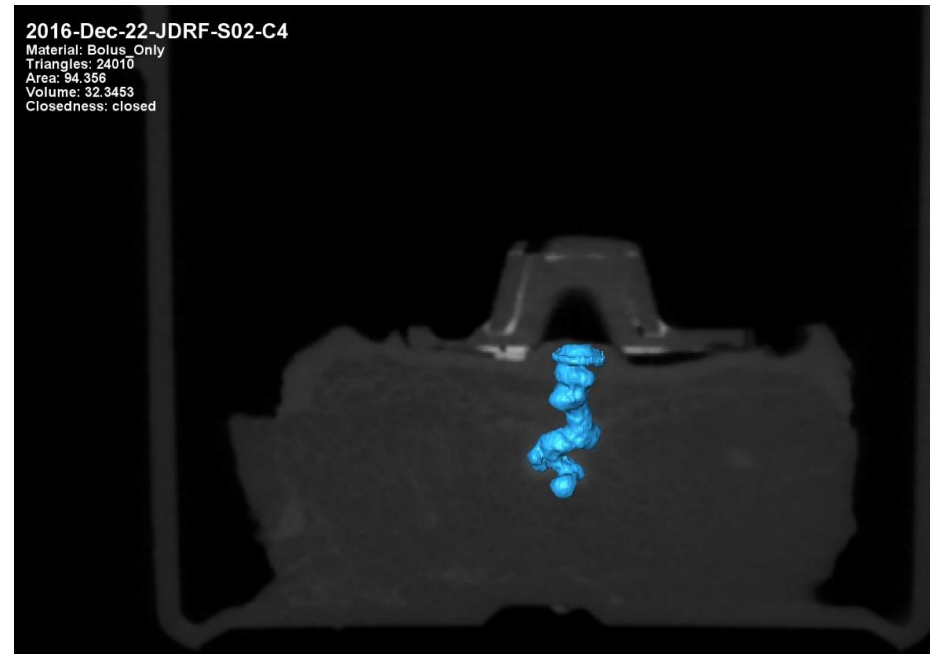
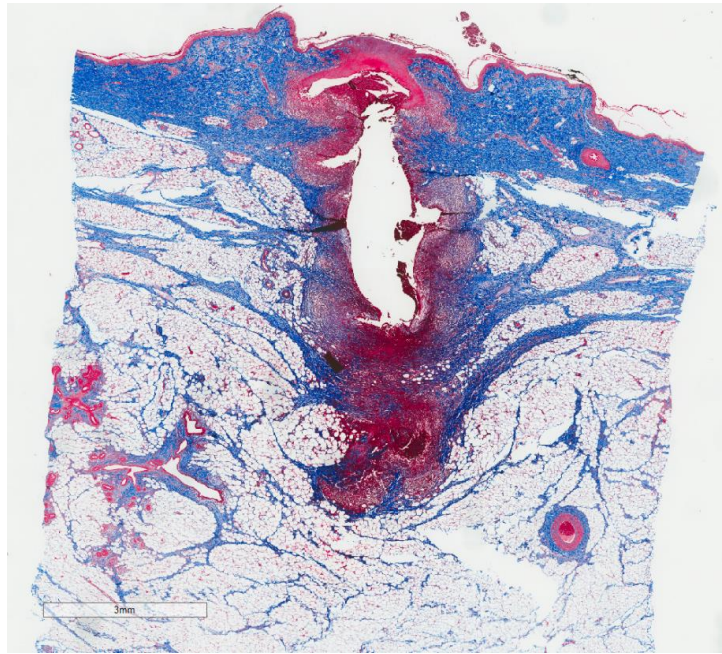
At this point, pressure measurement methods had not yet been finalized.

90°, Swine S02, 10 Days



Note: At this point, pressure measurement methods had not yet been finalized.

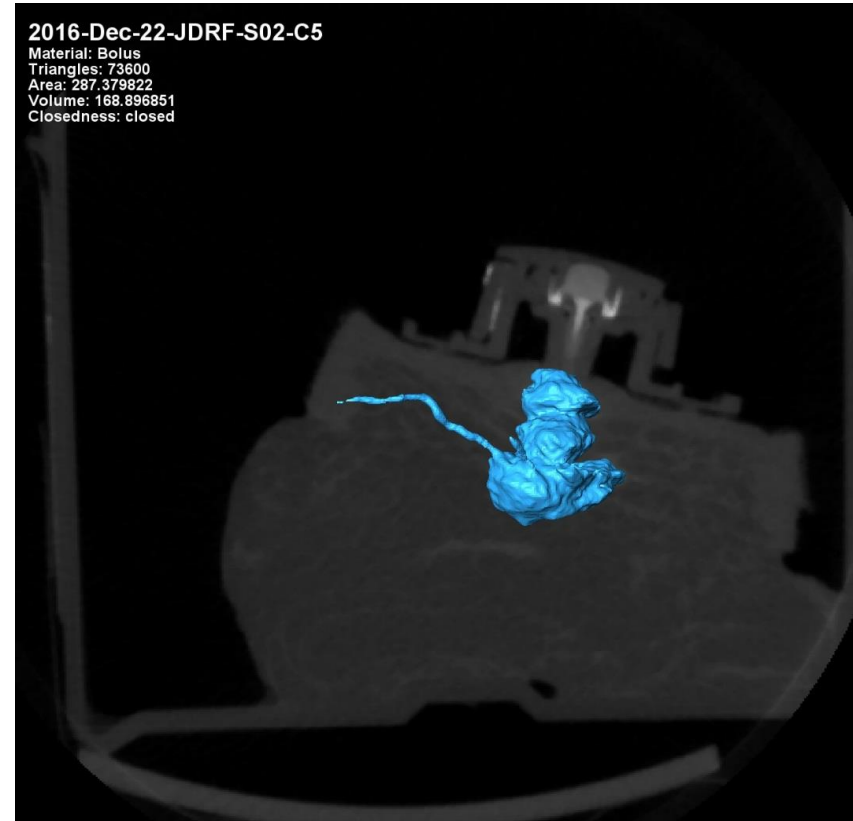
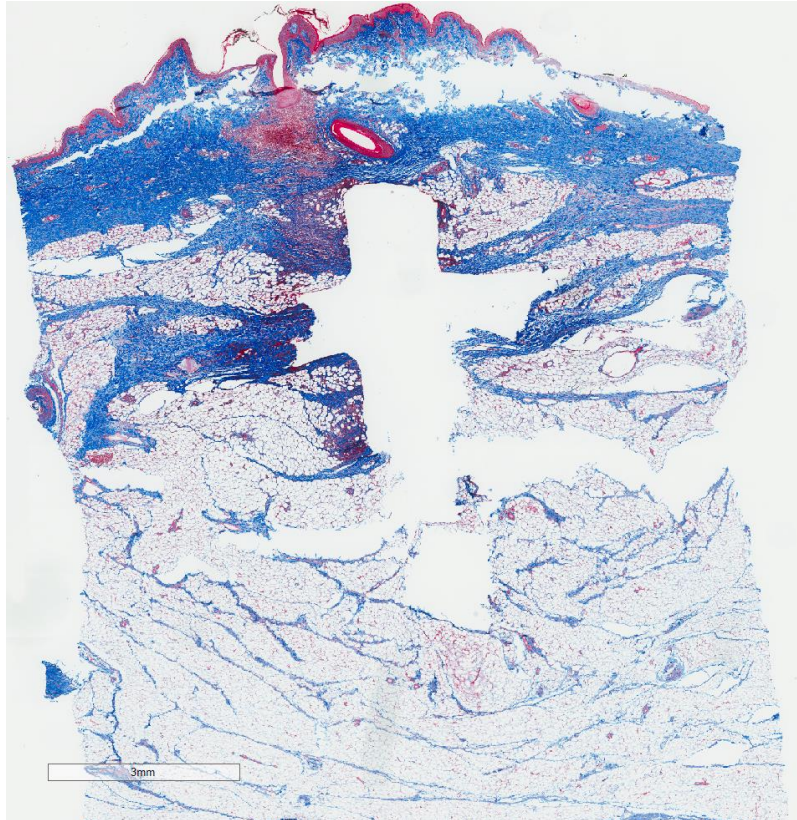
90°, Swine S02, 8 Days



Note: kinked cannula
leak
<70 μL in tissue (32.3 μL)

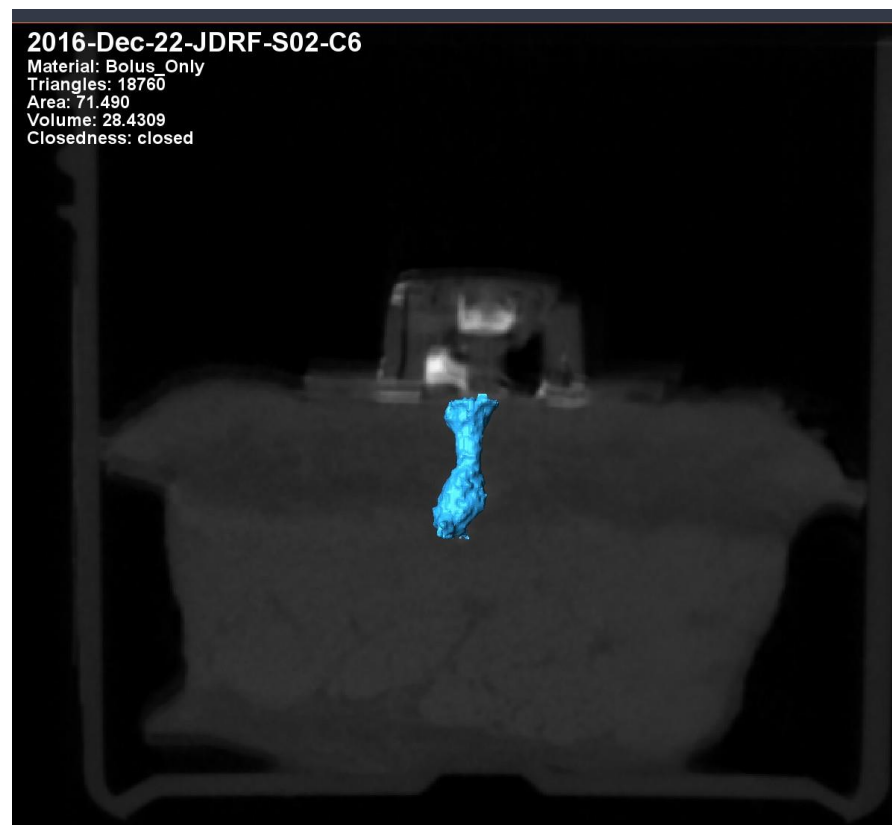
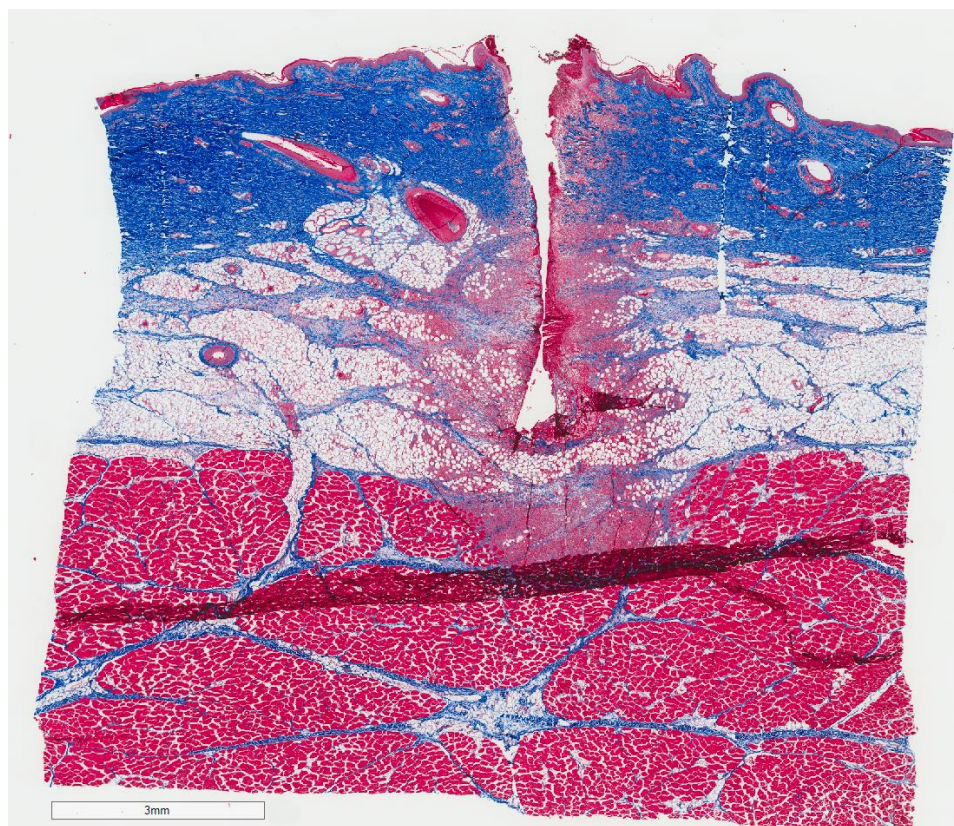
At this point, pressure measurement methods had not yet been finalized.

90°, Swine S02, 6 Days



Note: At this point, pressure measurement methods had not yet been finalized.

90°, Swine S02, 4 Days

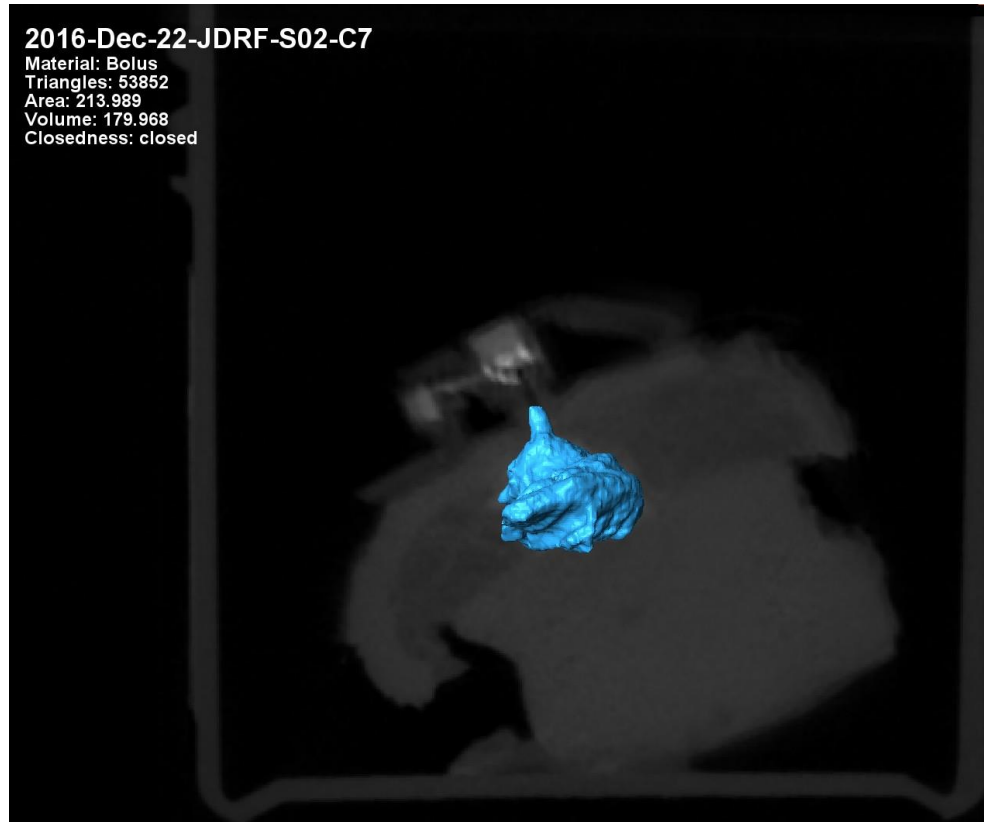
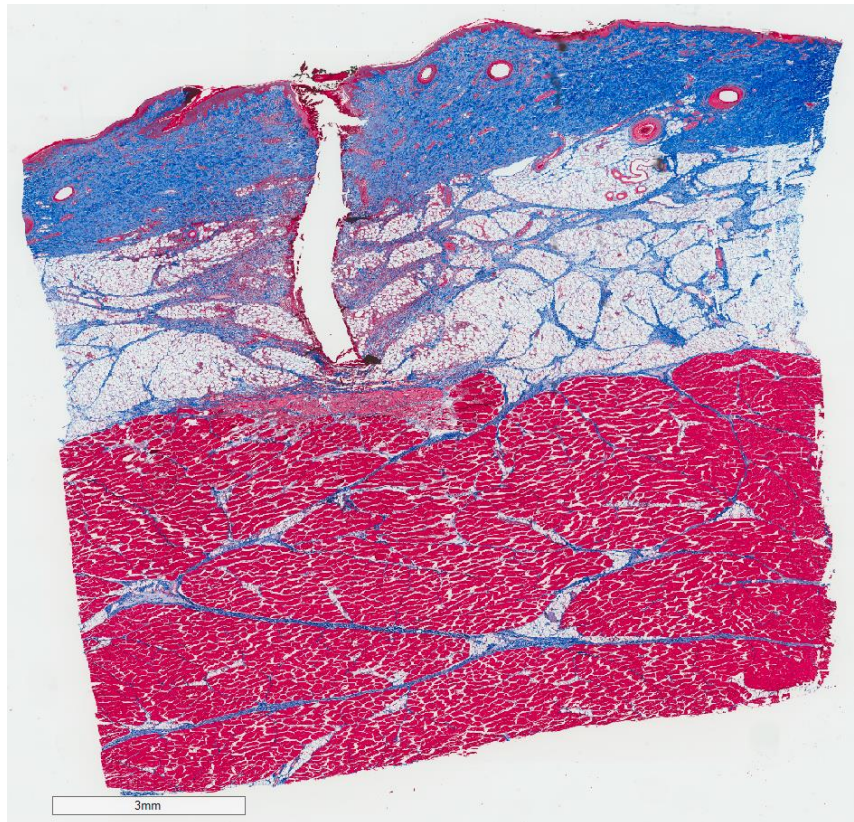


Note: leak

<70 μ L in tissue (28.4 μ L)

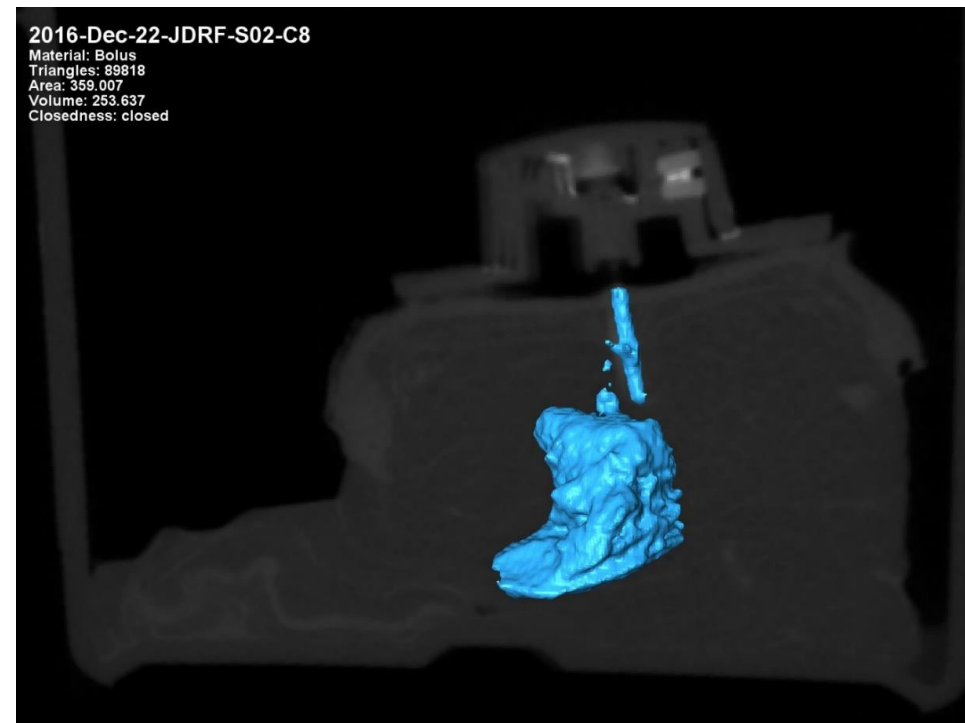
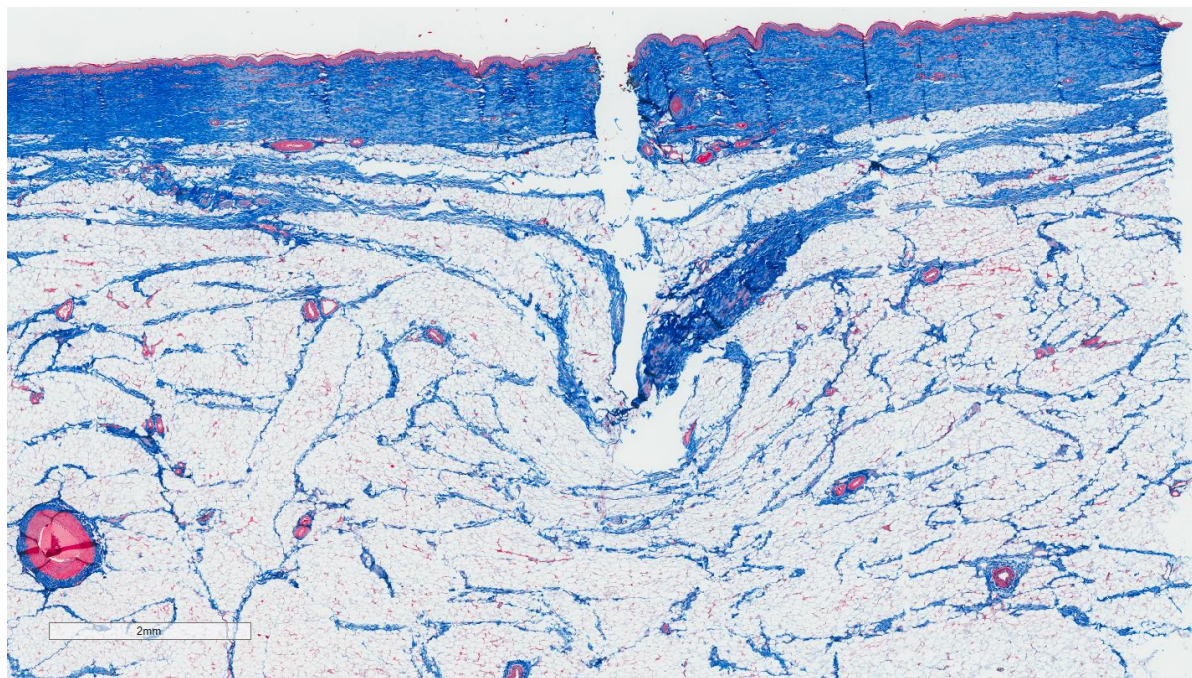
At this point, pressure measurement methods had not yet been finalized.

90°, Swine S02, 2 Days



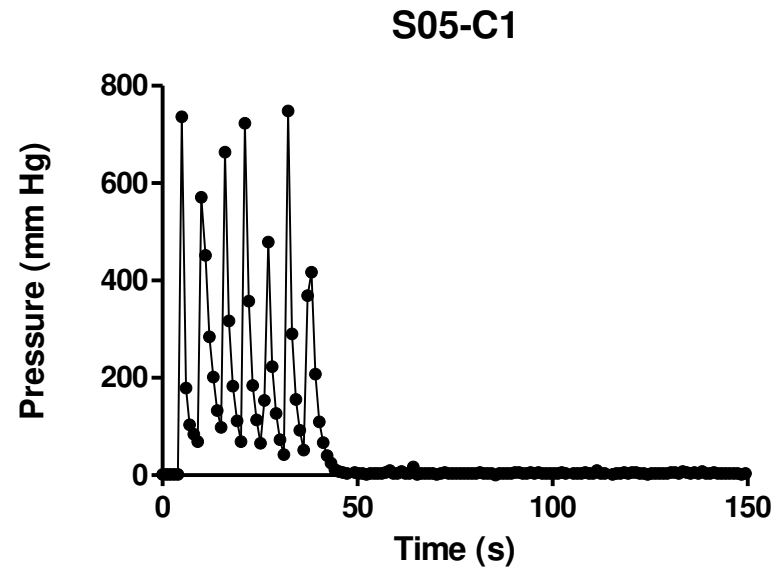
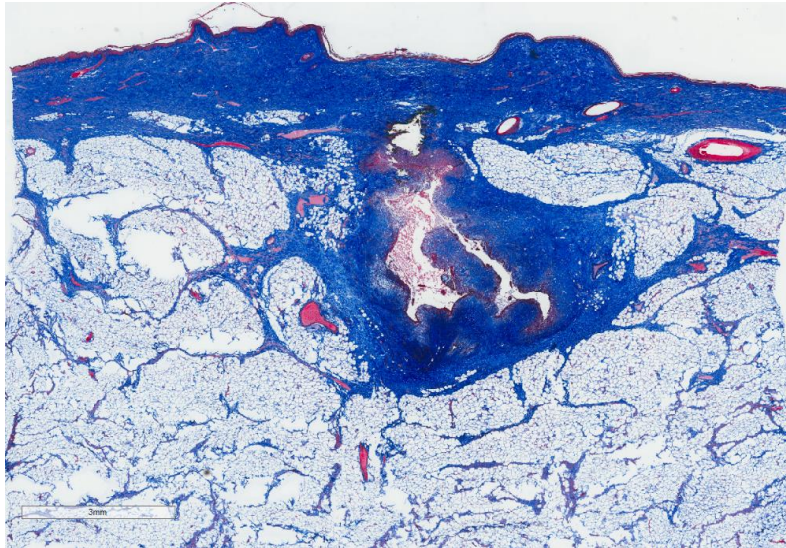
Note: At this point, pressure measurement methods had not yet been finalized.

90°, Swine S02, Freshly Inserted (Day 1)



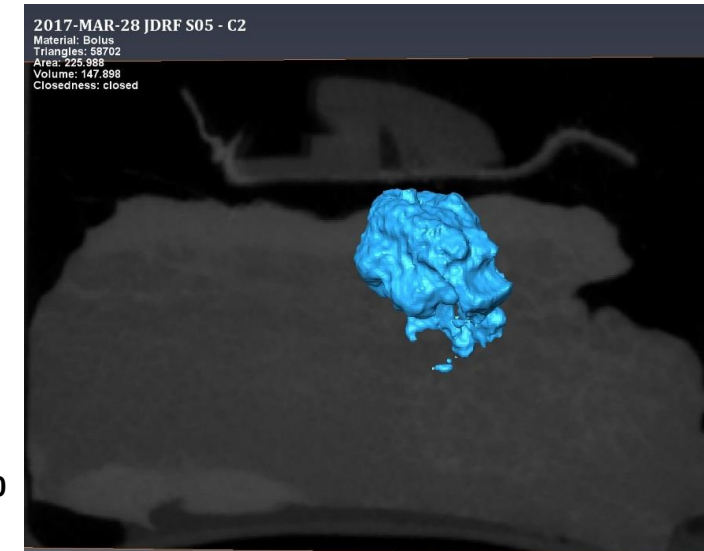
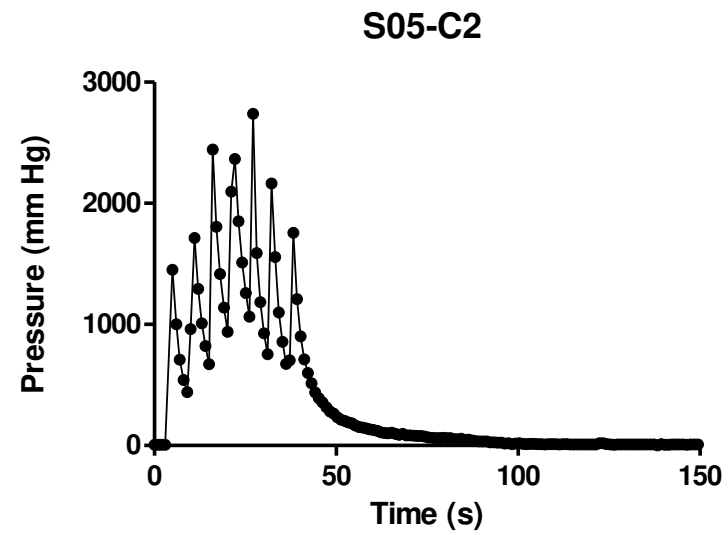
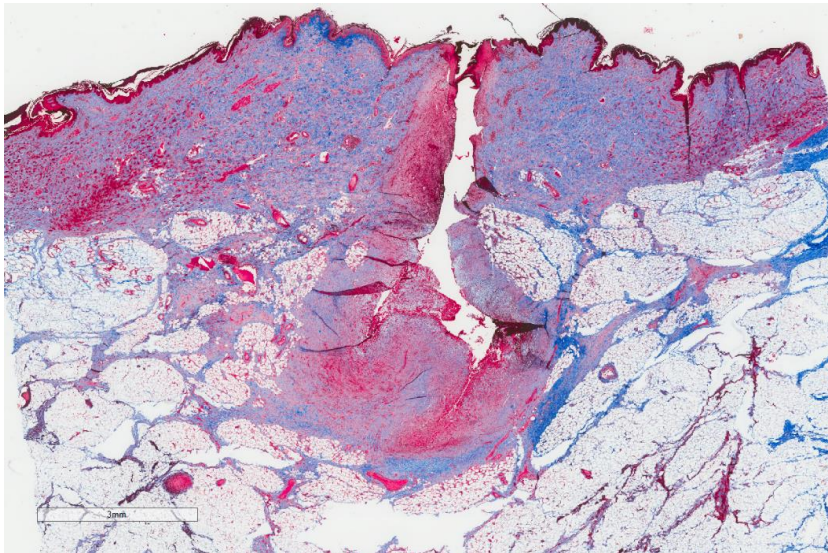
Note: At this point, pressure measurement methods had not yet been finalized.

90°, Swine S05, 14 Days

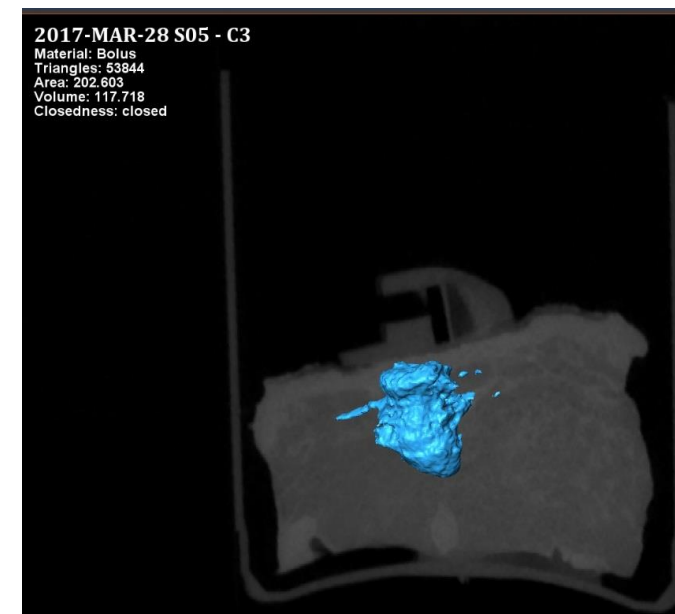
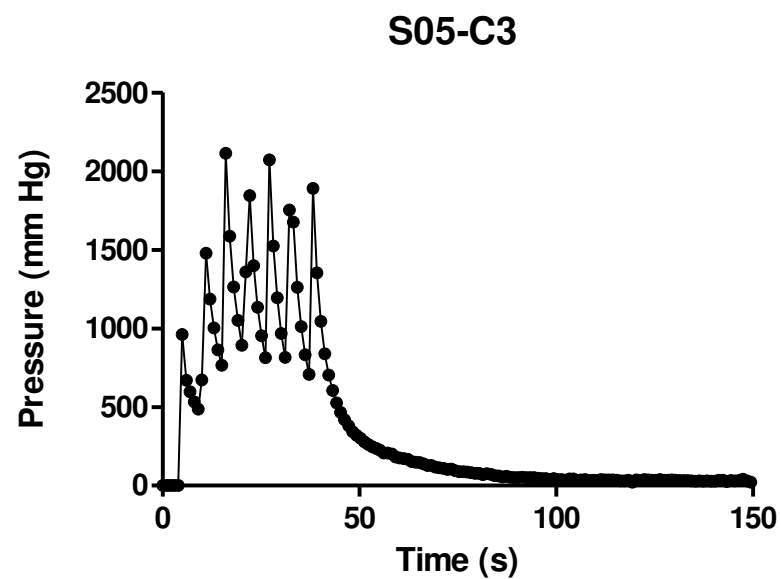
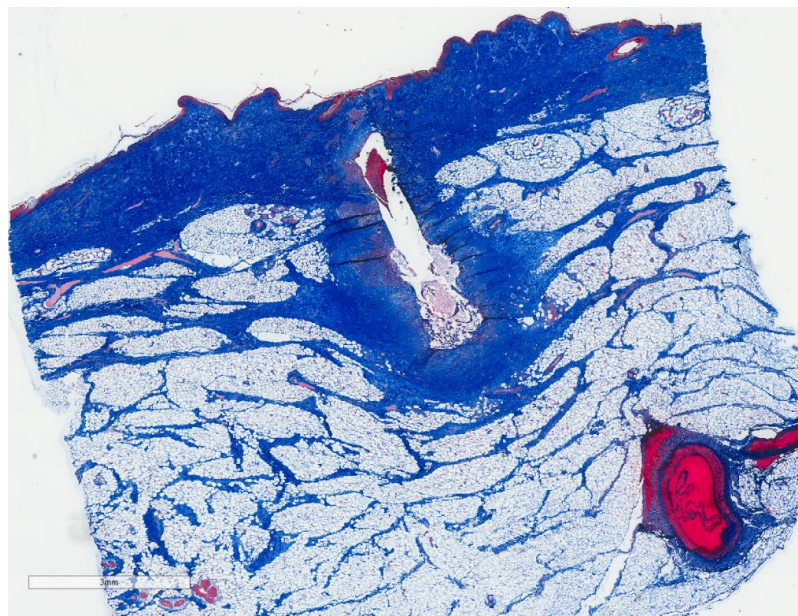


90°, Swine S05, 12 Days

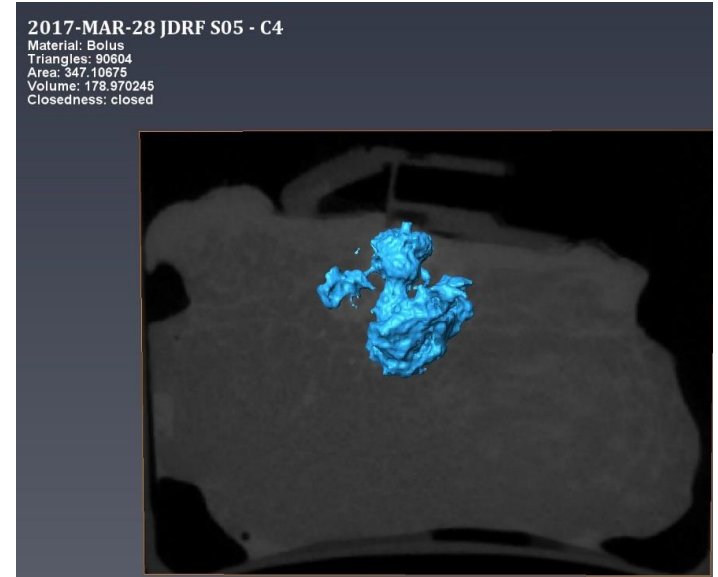
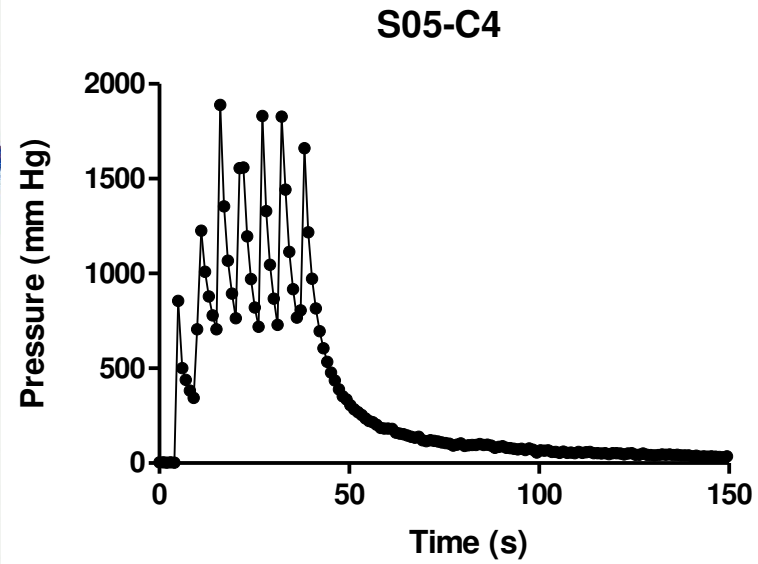
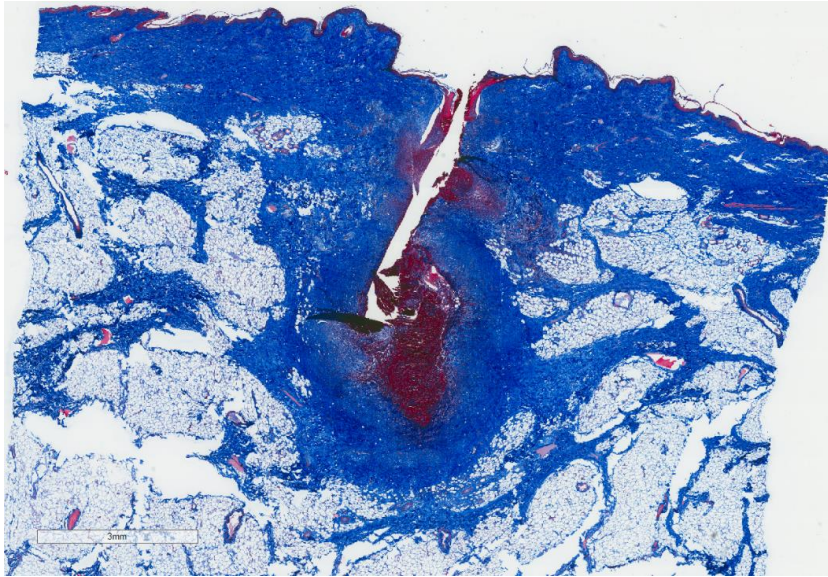
Note: kinked cannula



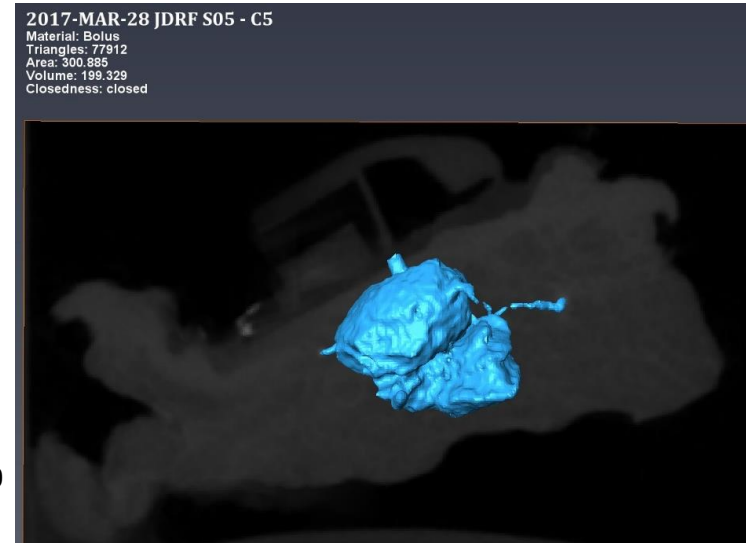
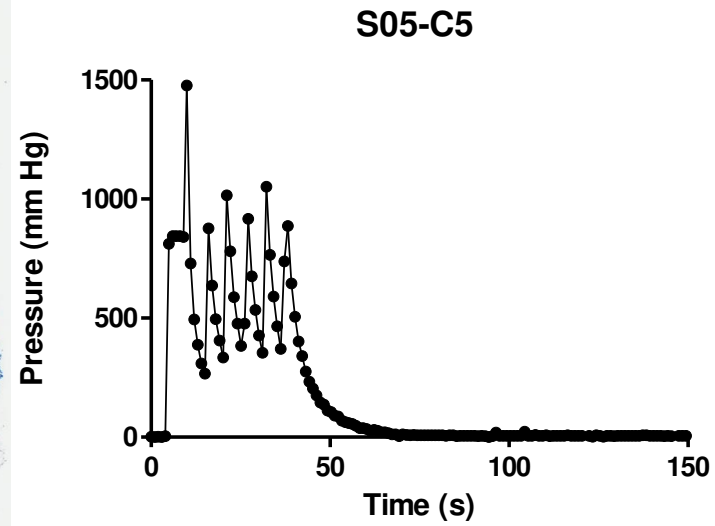
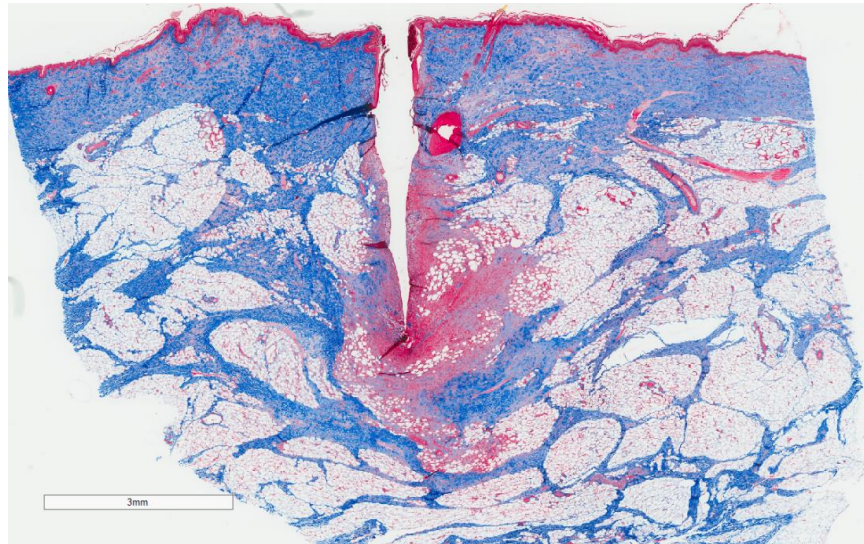
90°, Swine S05, 10 Days



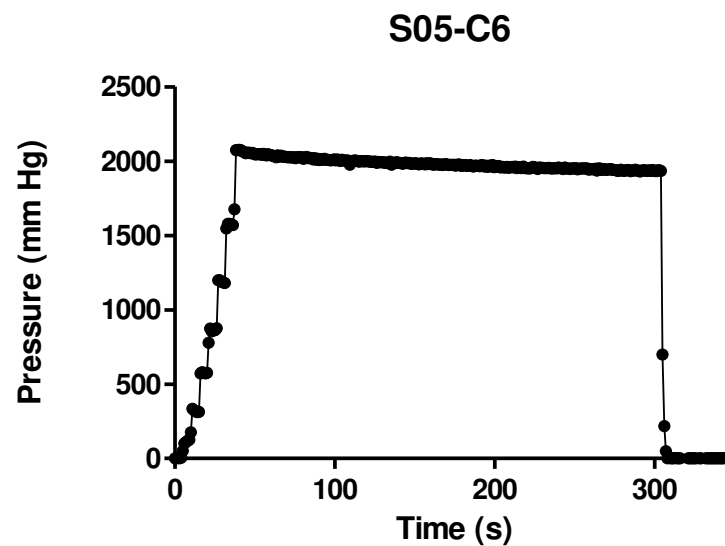
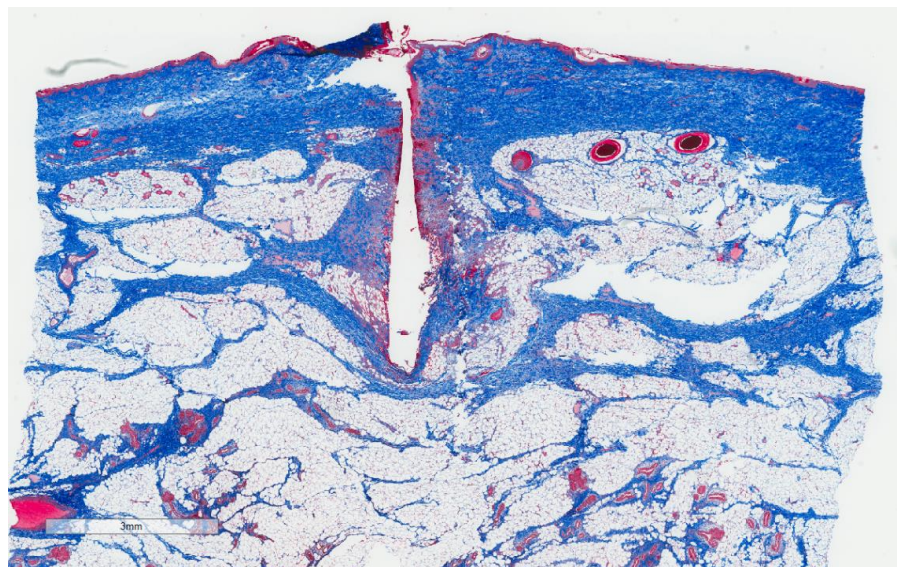
90°, Swine S05, 8 Days



90°, Swine S05, 6 Days

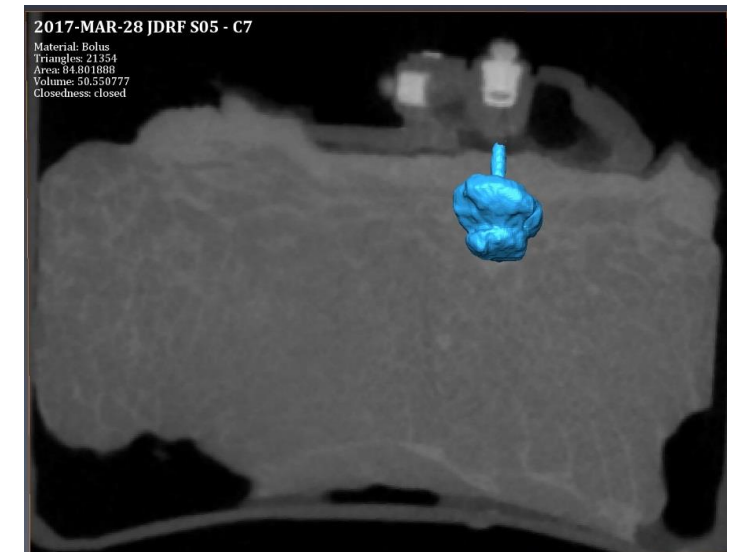
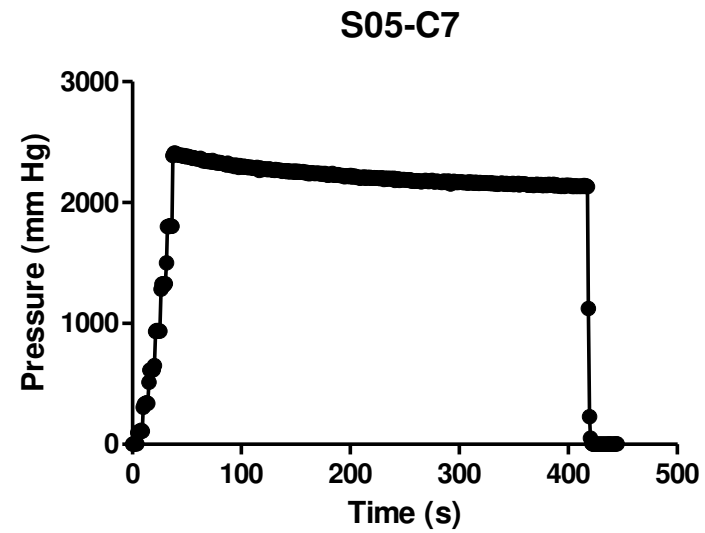
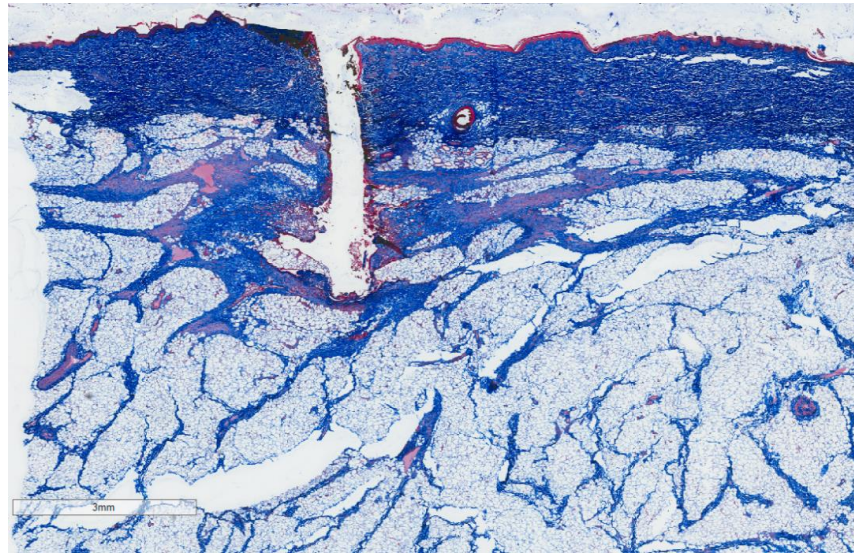


90°, Swine S05, 4 Days



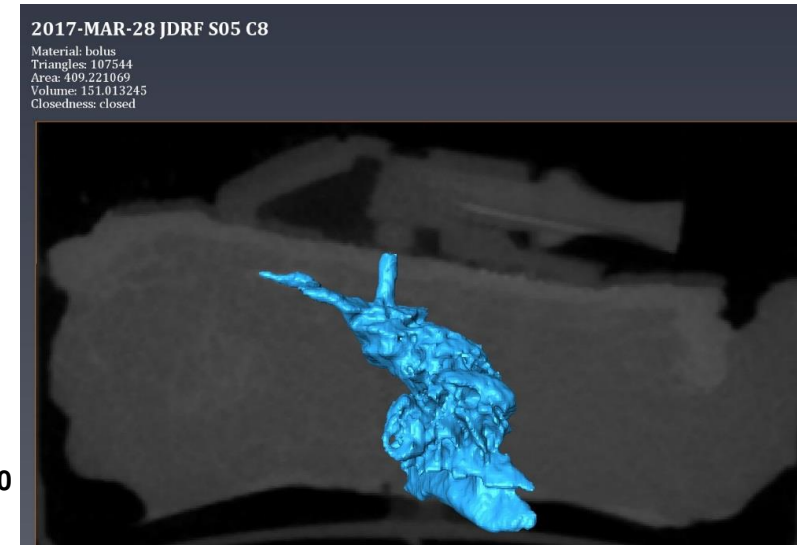
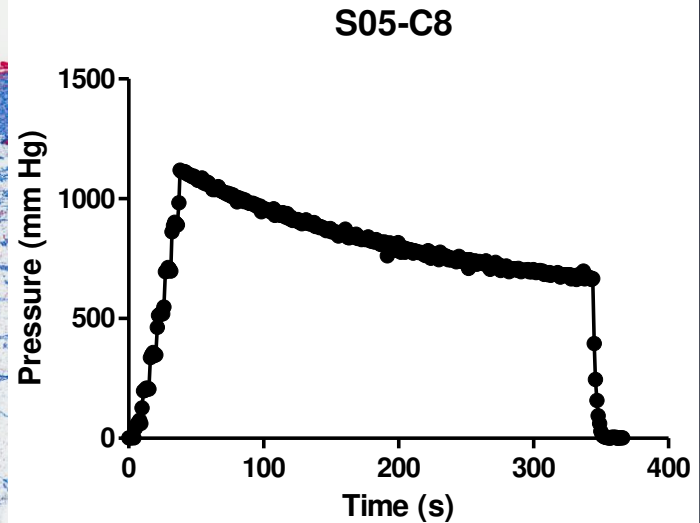
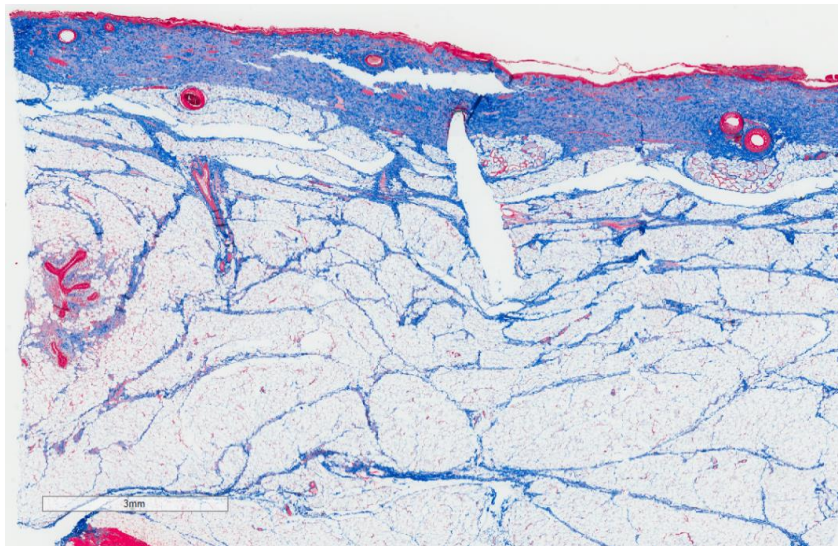
Note: no contrast in SC tissue

90°, Swine S05, 2 Days



Note: <70 μ L in tissue (50.6 μ L)

90°, Swine S05, Freshly Inserted (Day 1)

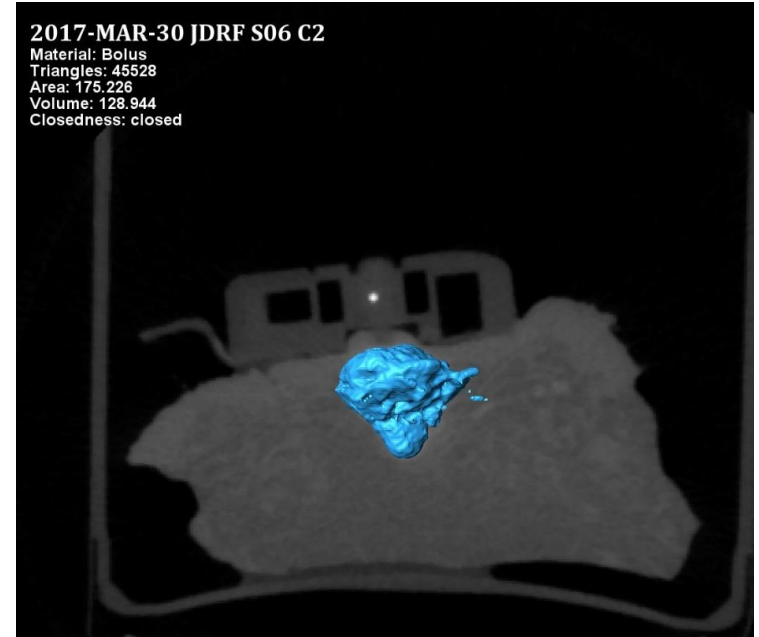
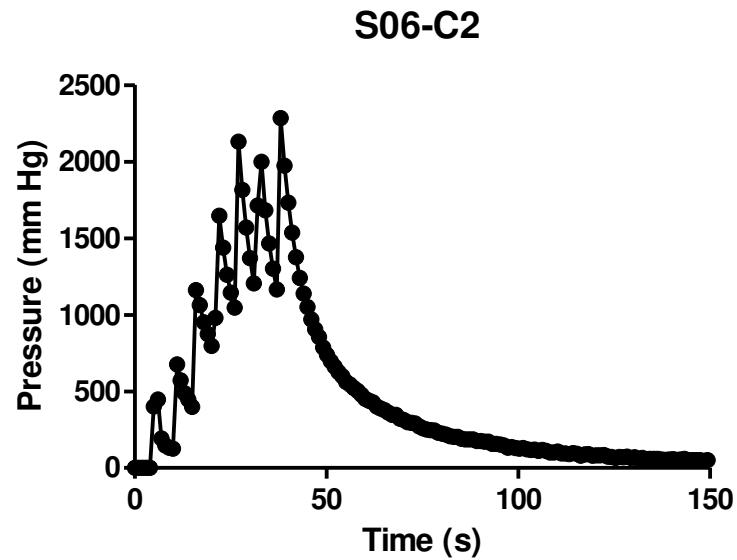
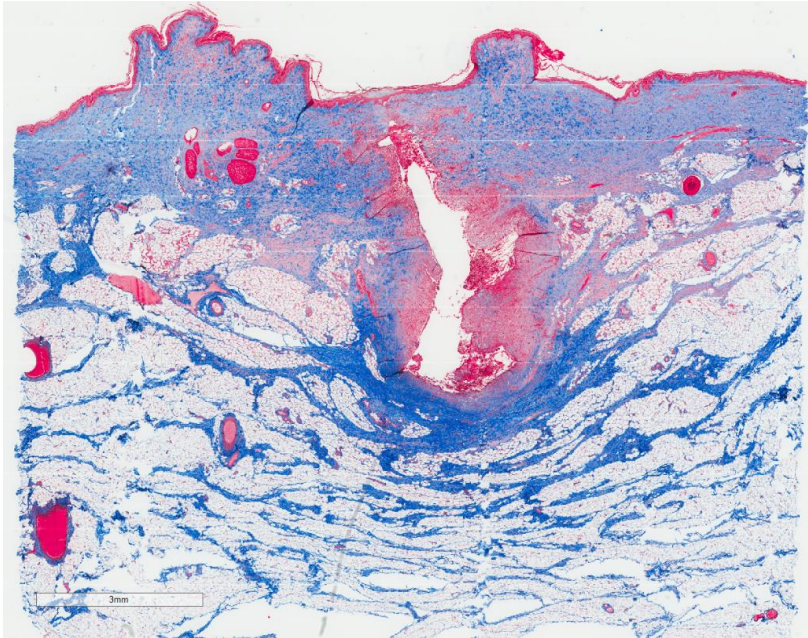


90°, Swine S06, 14 Days

Removed, no data

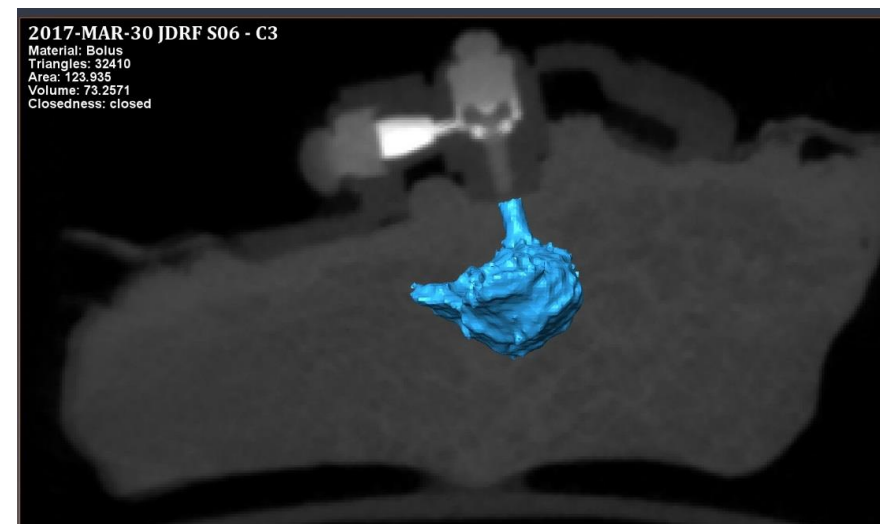
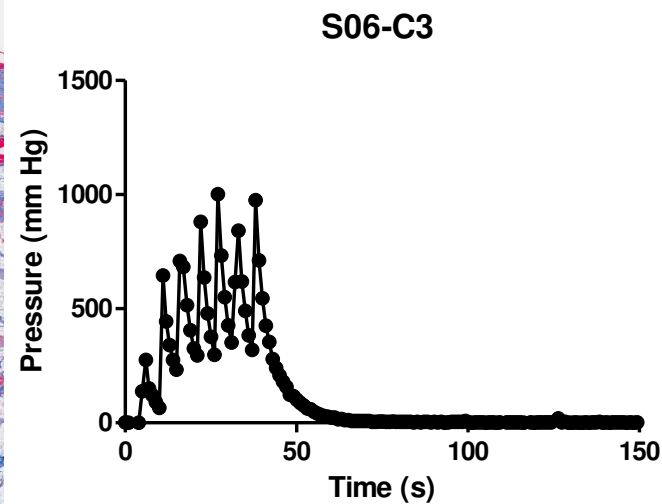
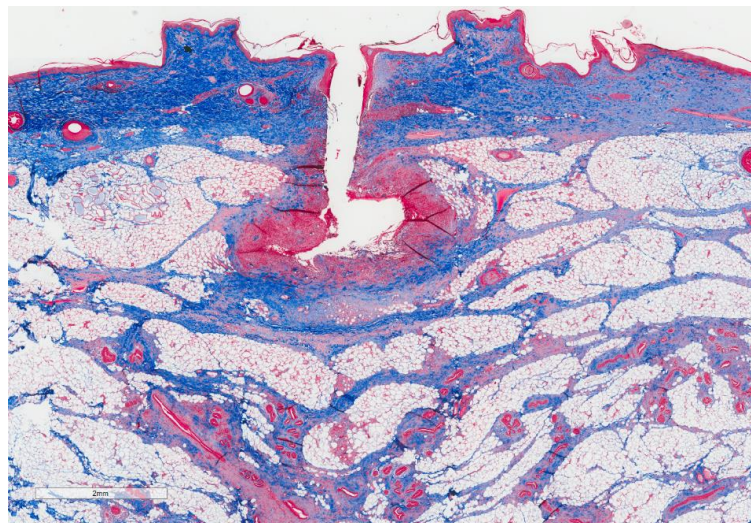
90°, Swine S06, 12 Days

Note: kinked cannula



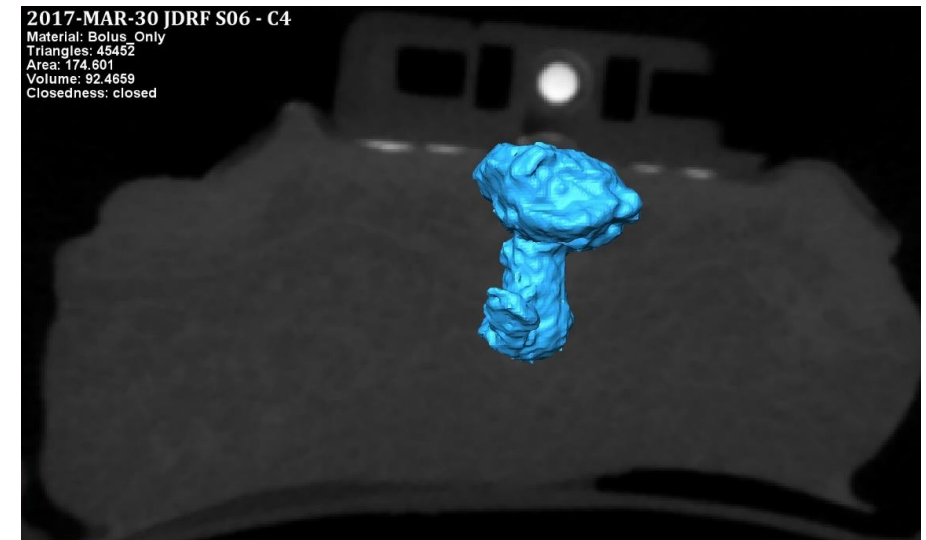
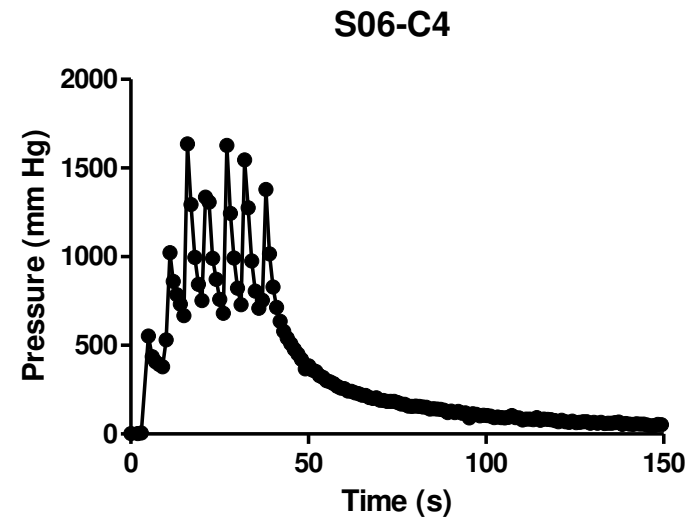
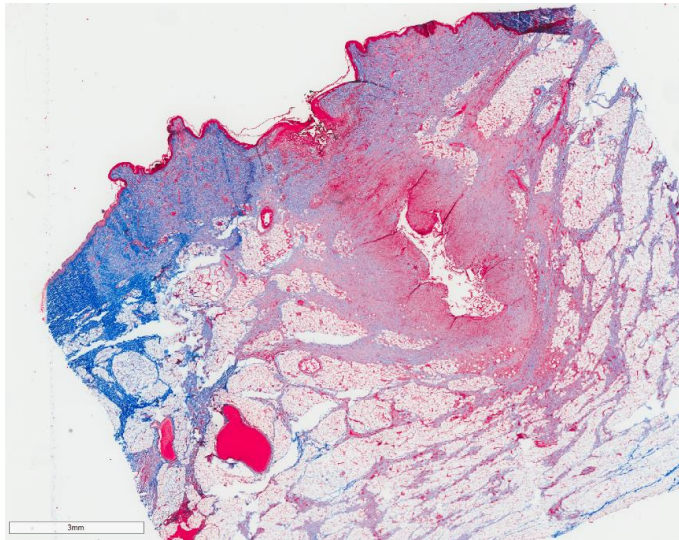
90°, Swine S06, 10 Days

Note: kinked cannula

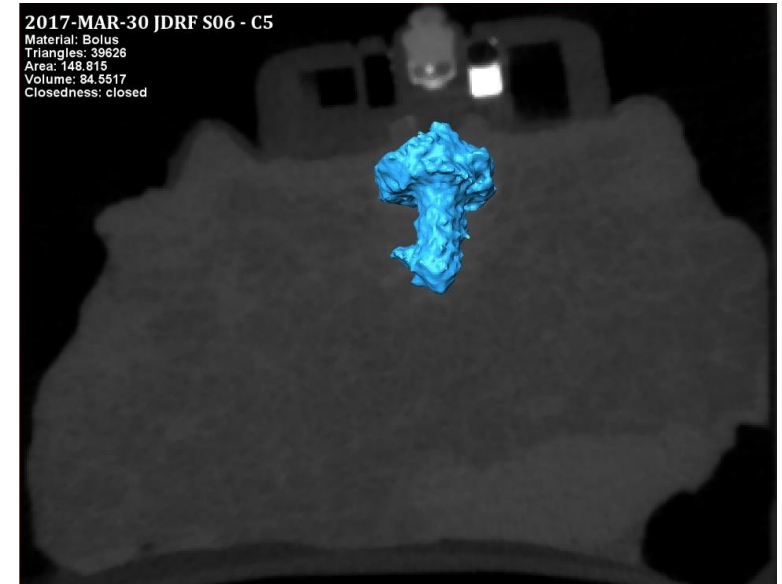
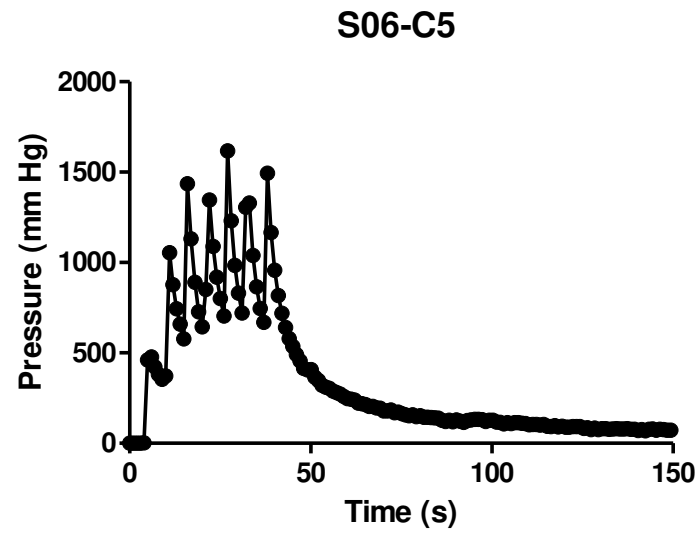
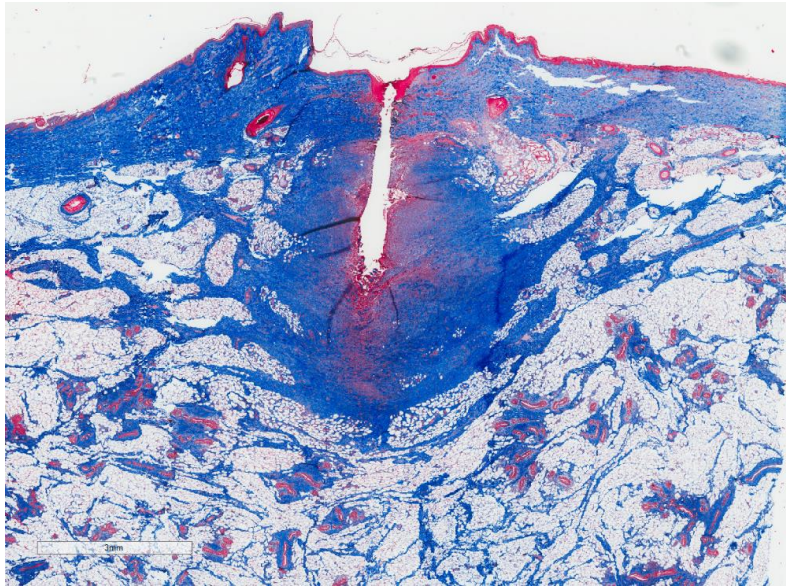


90°, Swine S06, 8 Days

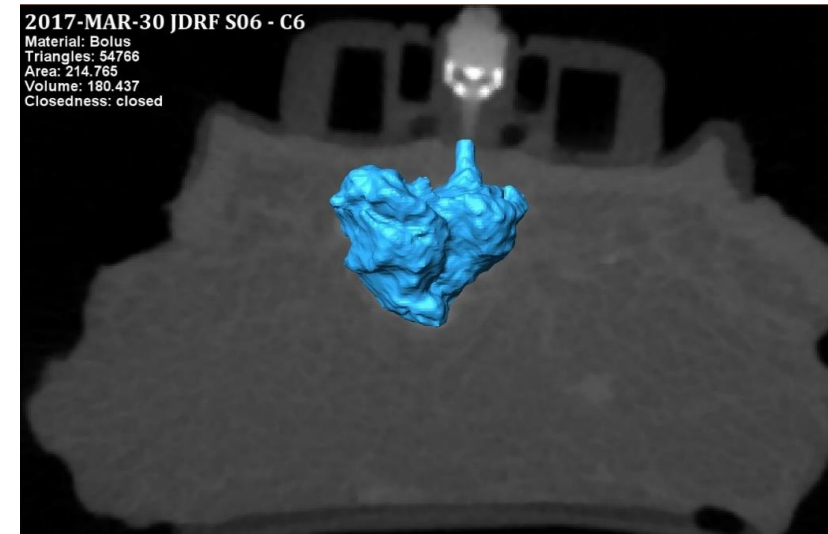
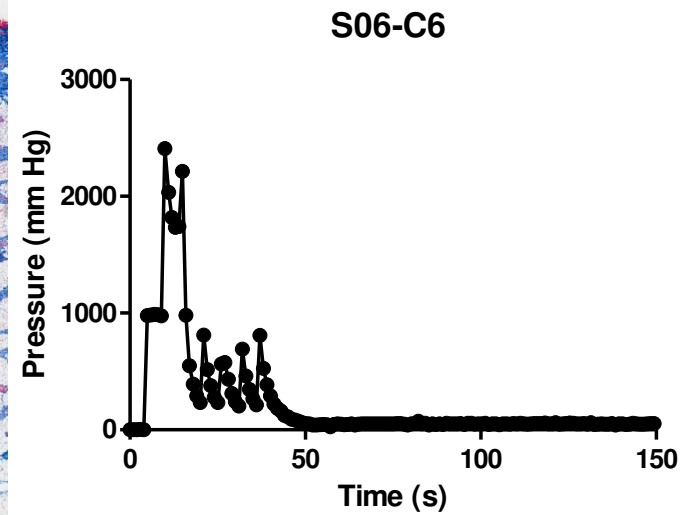
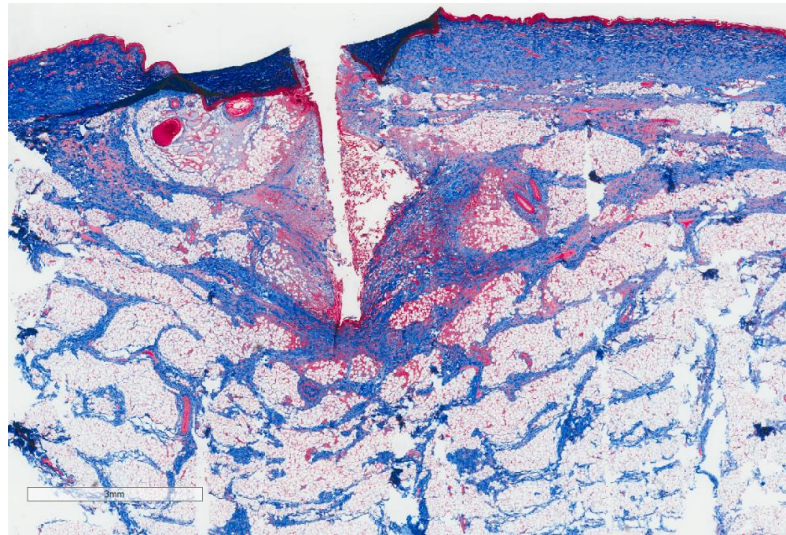
Note: leak



90°, Swine S06, 6 Days

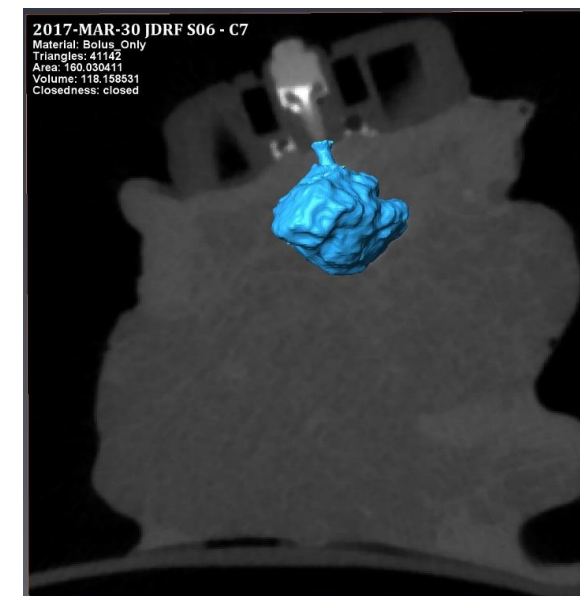
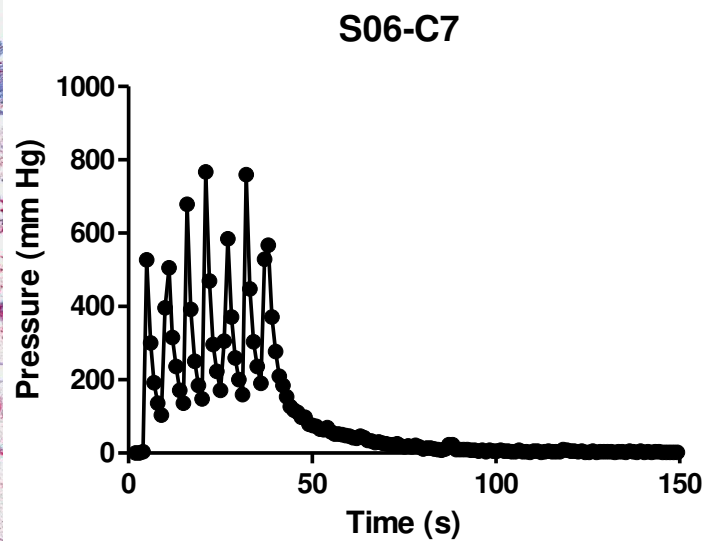
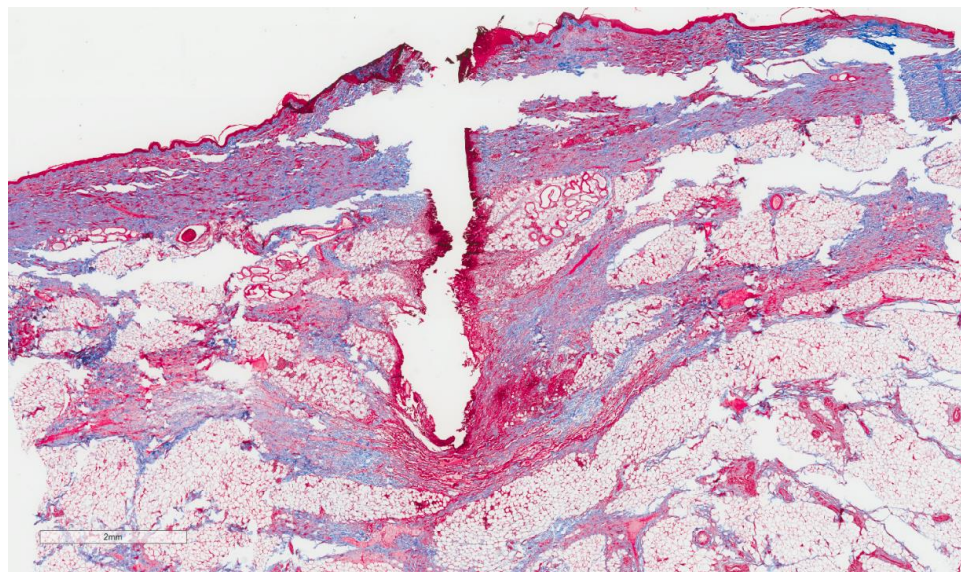


90°, Swine S06, 4 Days

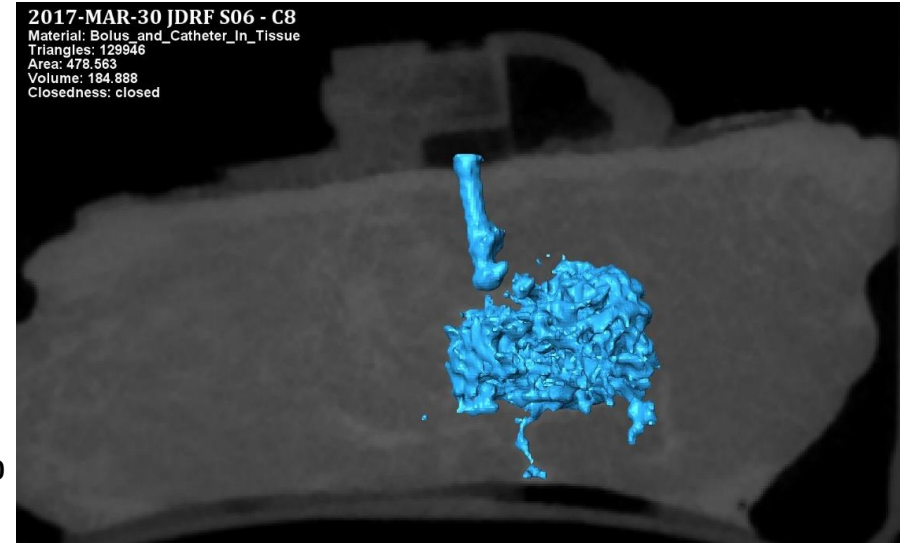
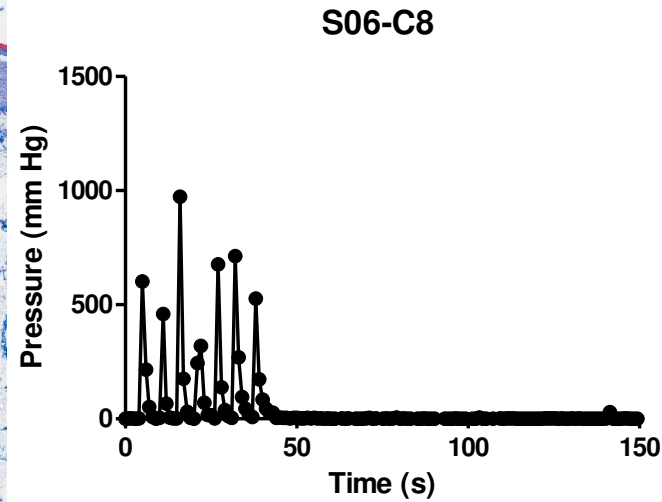
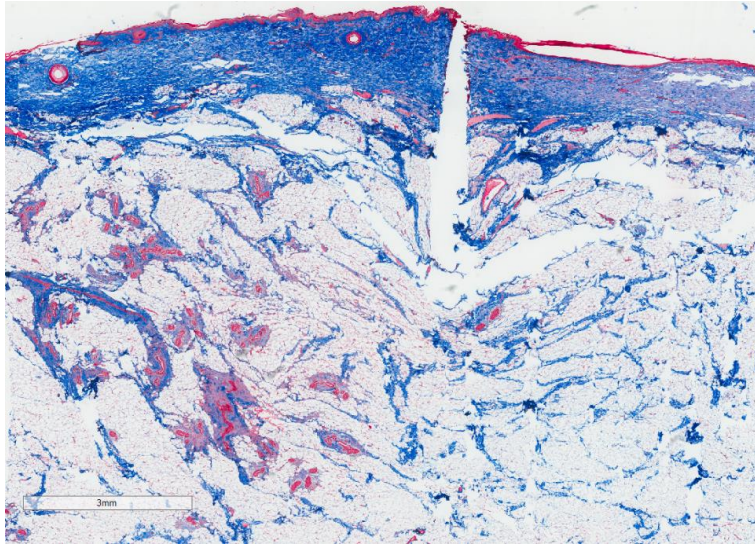


90°, Swine S06, 2 Days

Note: leak

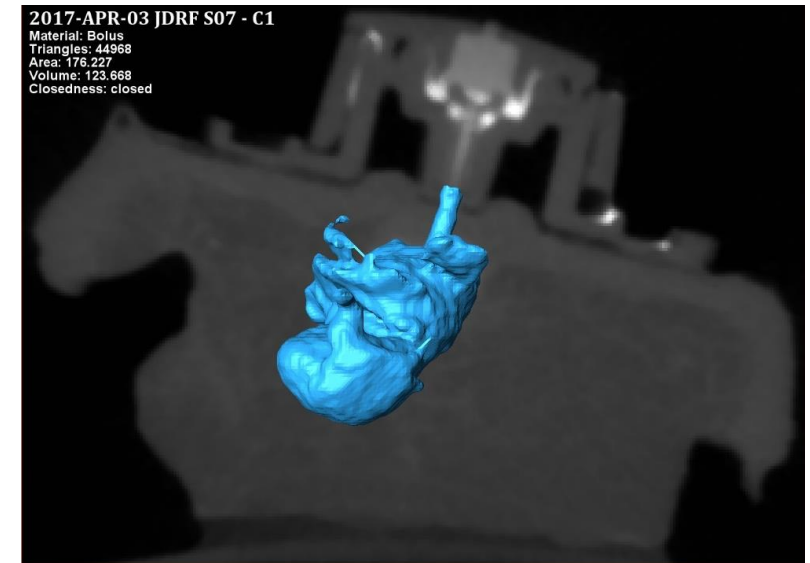
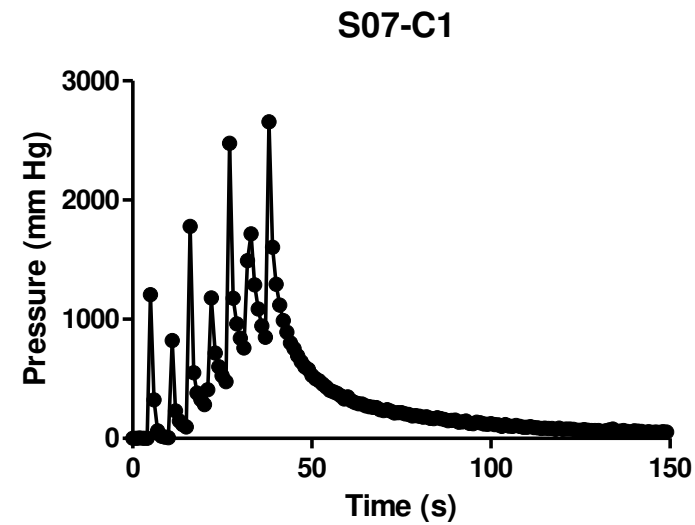
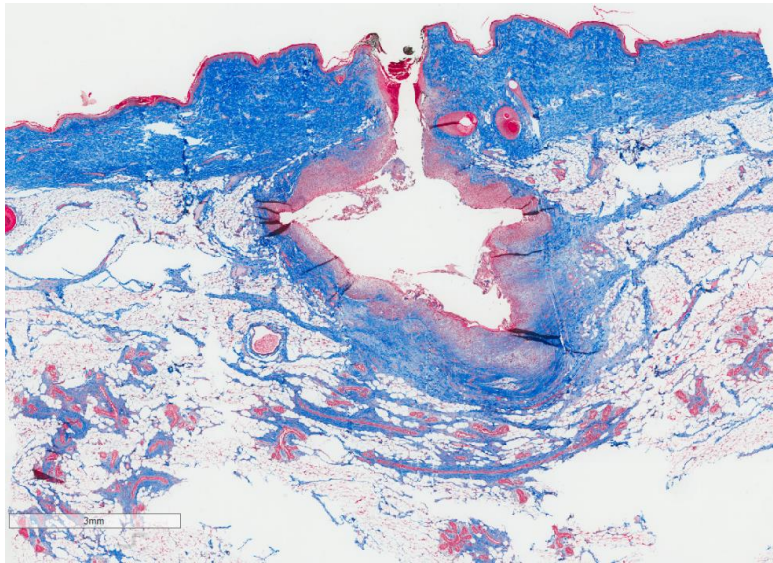


90°, Swine S06, Freshly Inserted (Day 1)

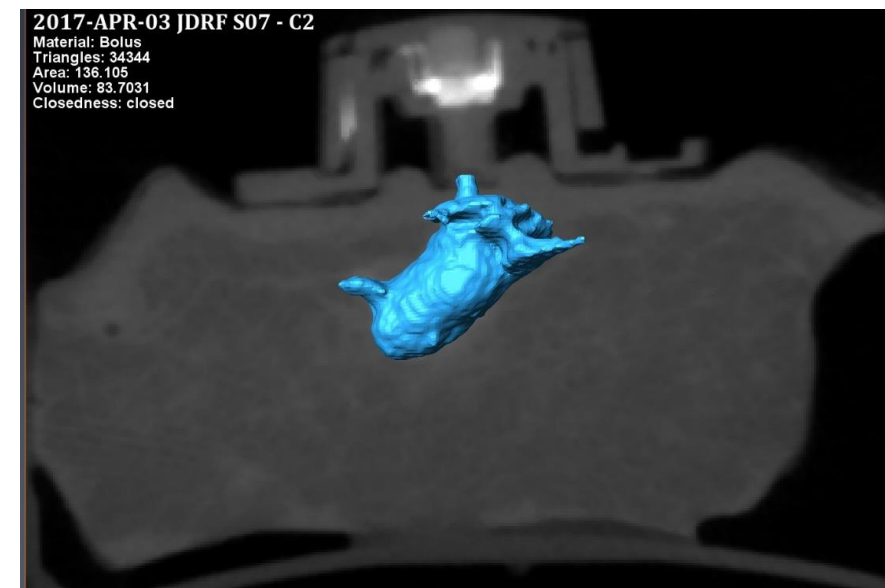
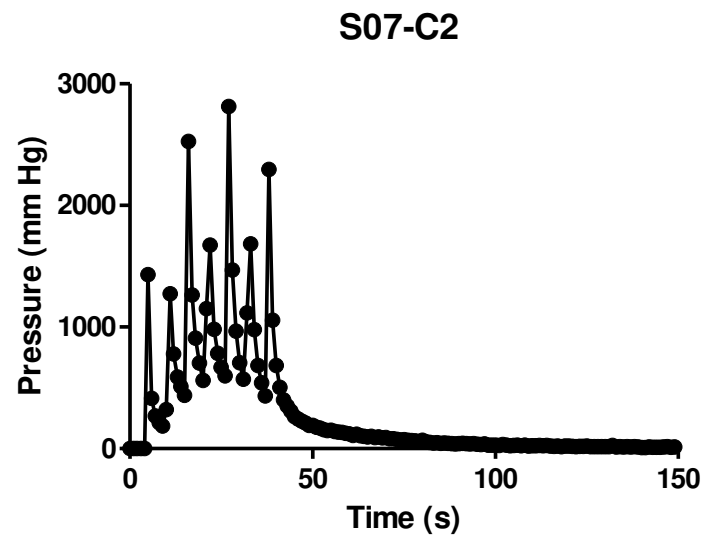
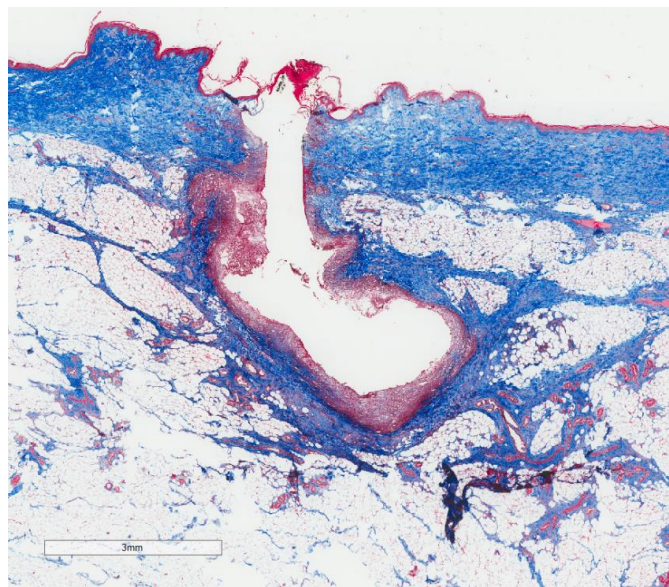


90°, Swine S07, 4 Days

Note: kinked cannula

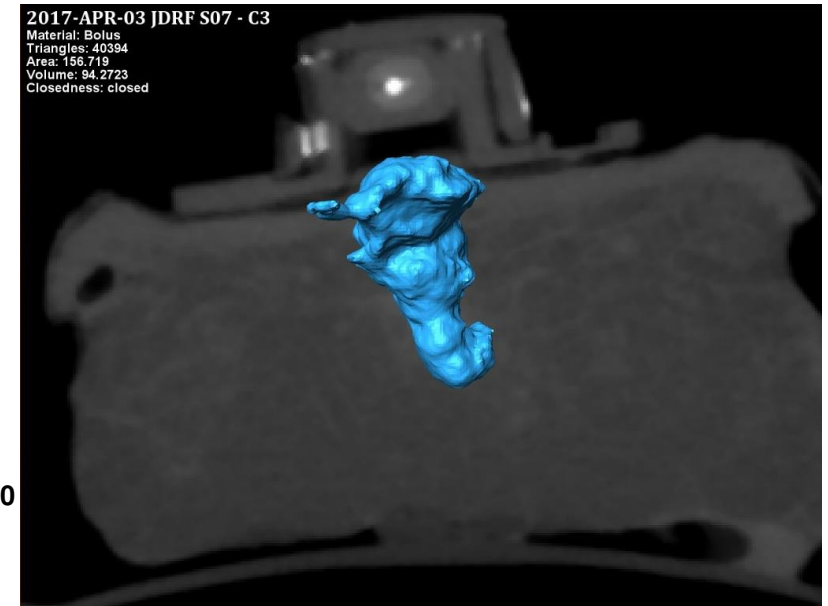
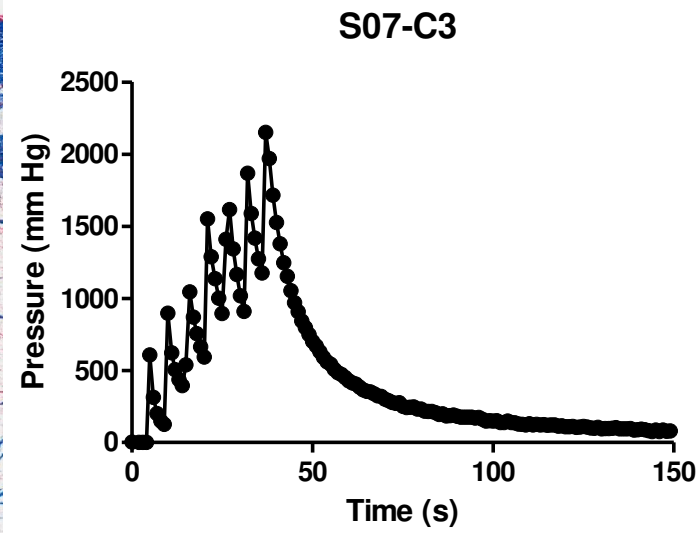
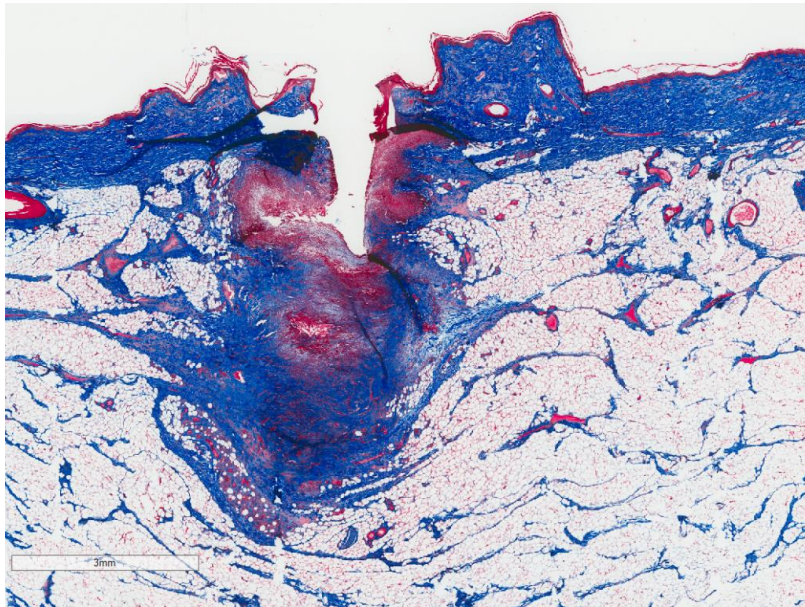


90°, Swine S07, 12 Days

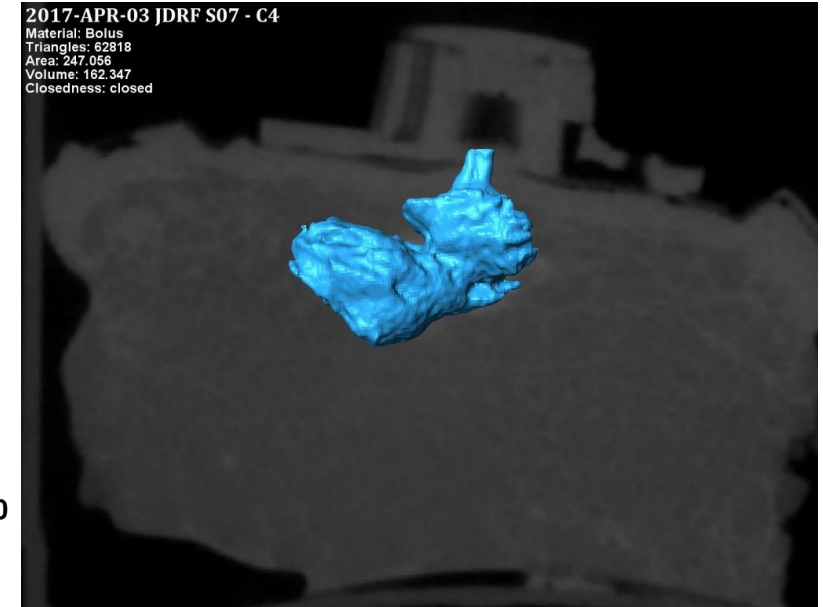
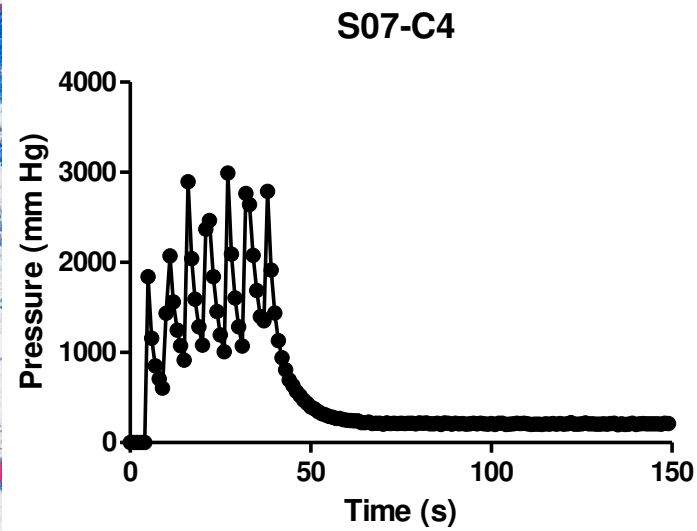
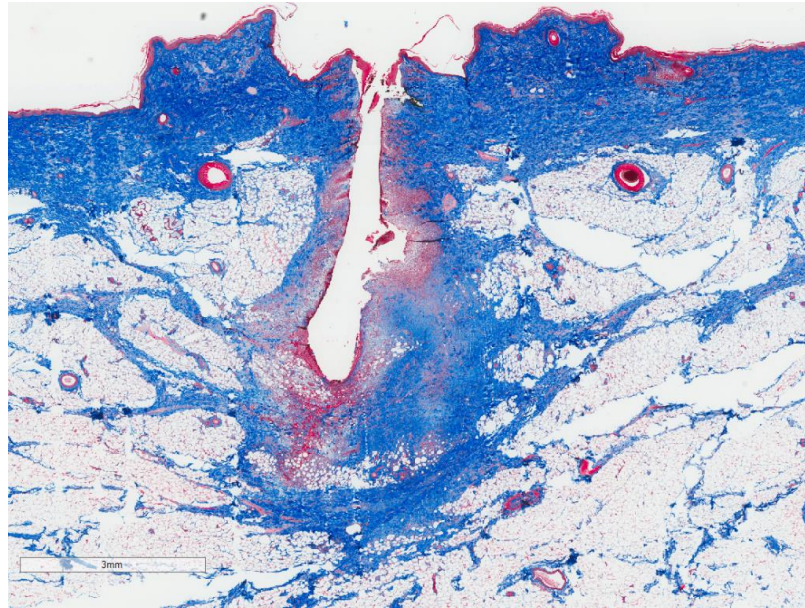


Note: kinked cannula

90°, Swine S07, 10 Days

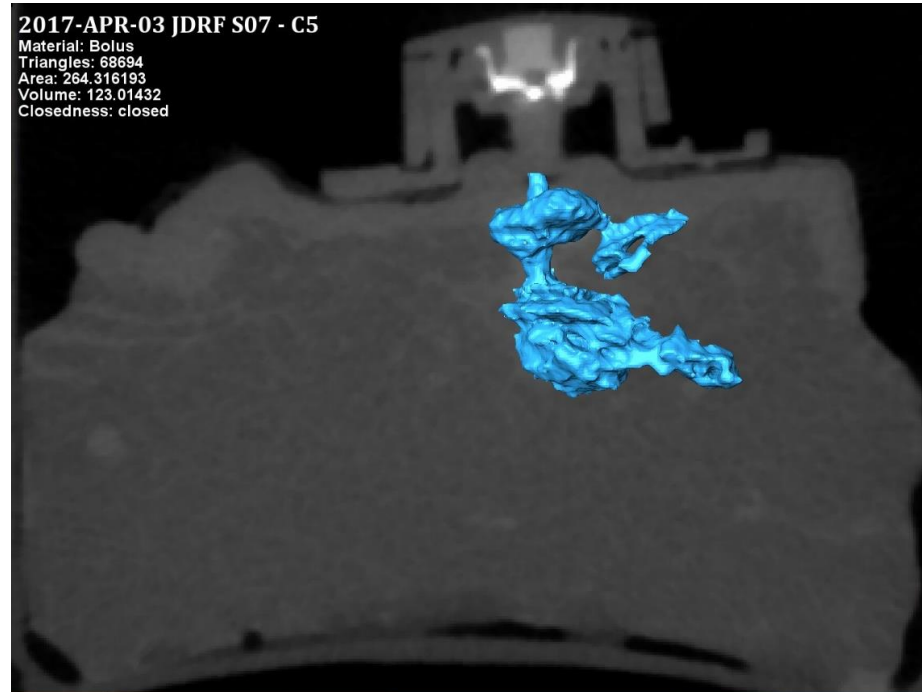
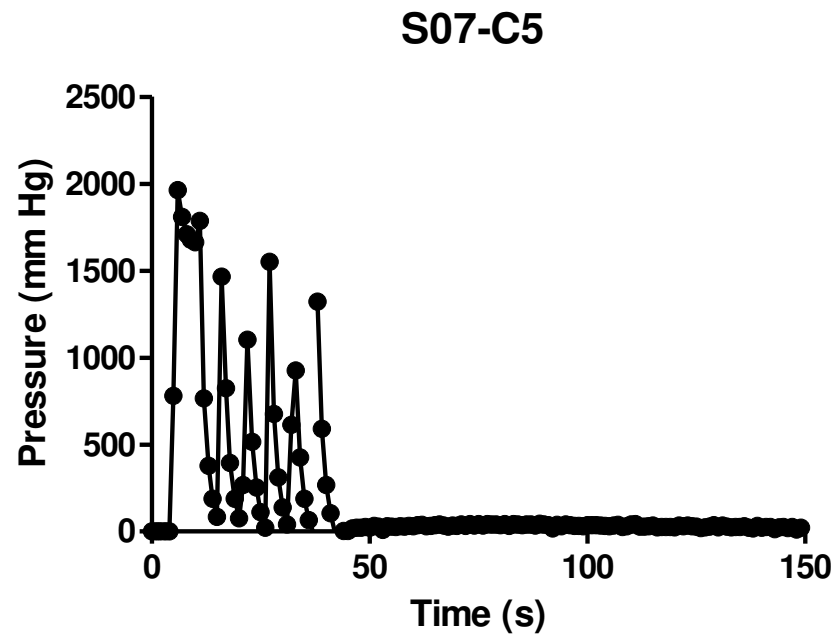


90°, Swine S07, 8 Days

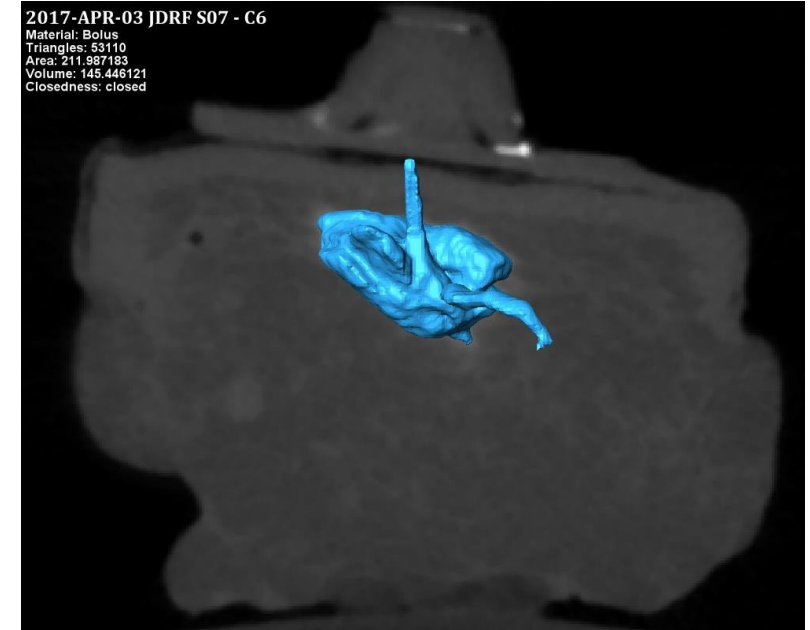
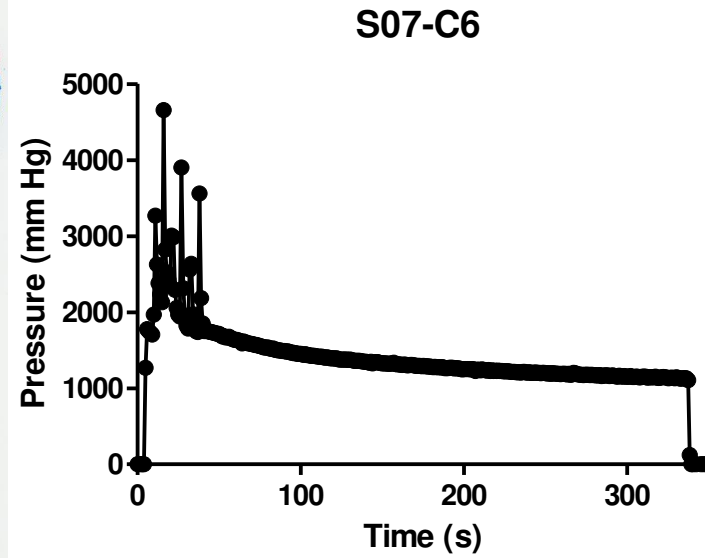
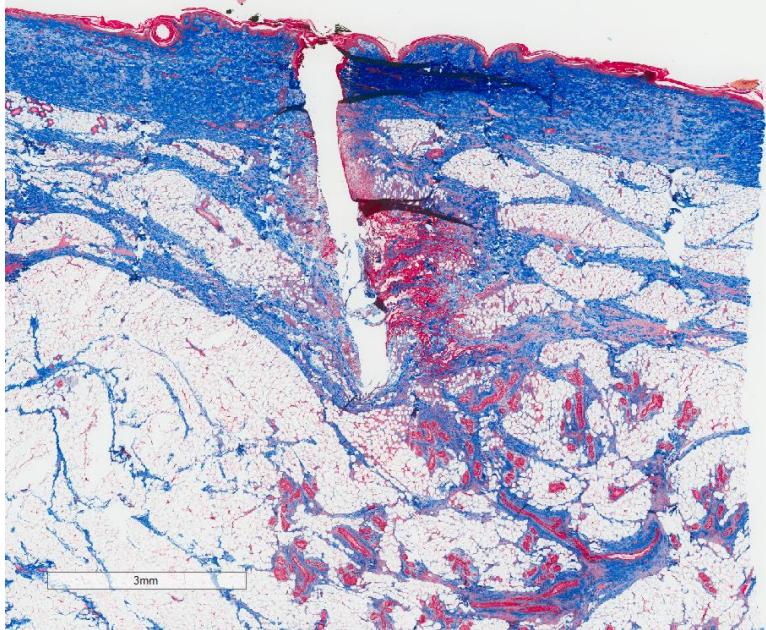


Note: kinked cannula

90°, Swine S07, 6 Days

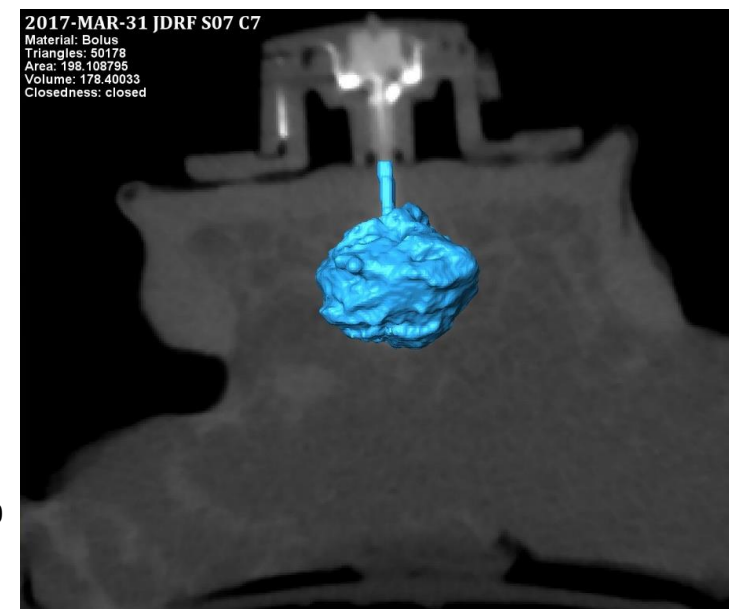
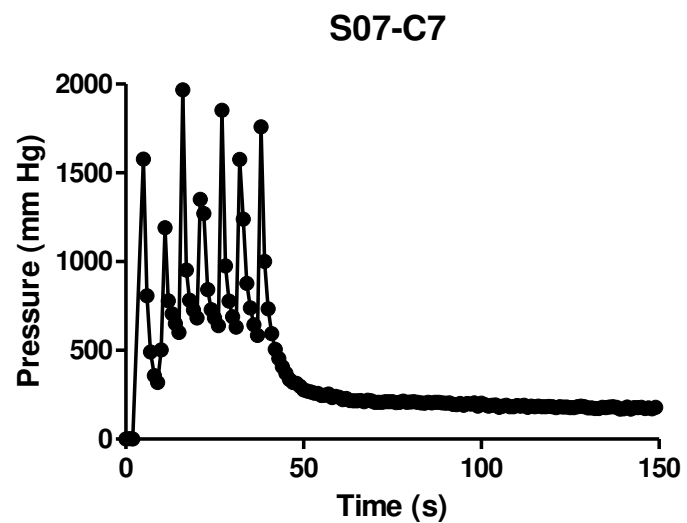
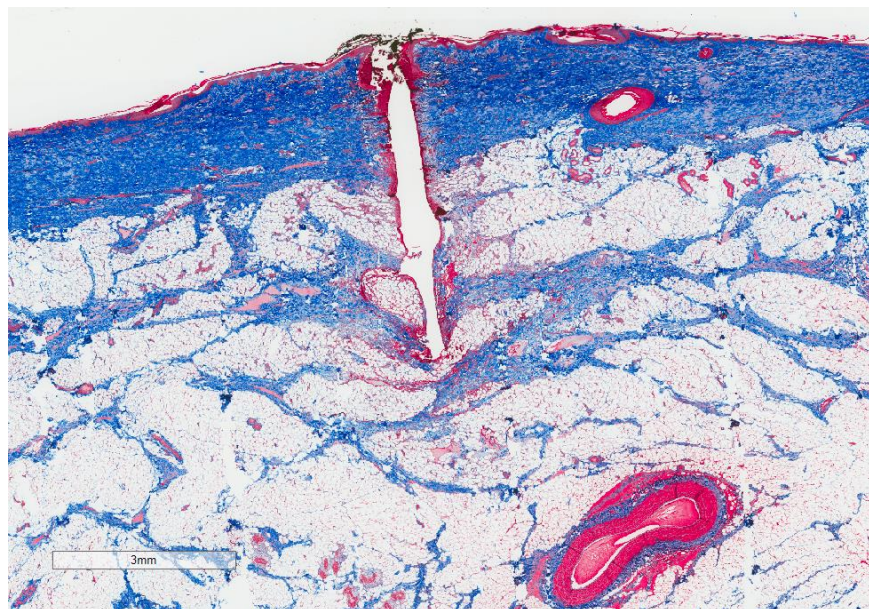


90°, Swine S07, 4 Days

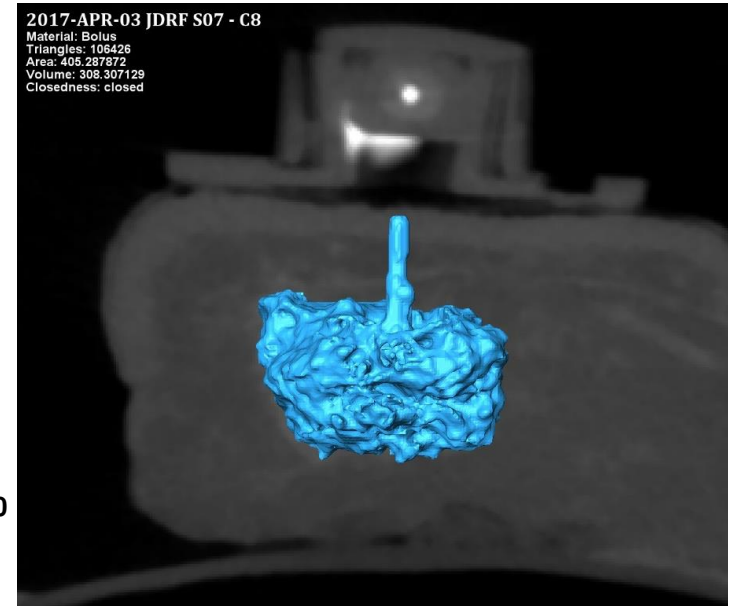
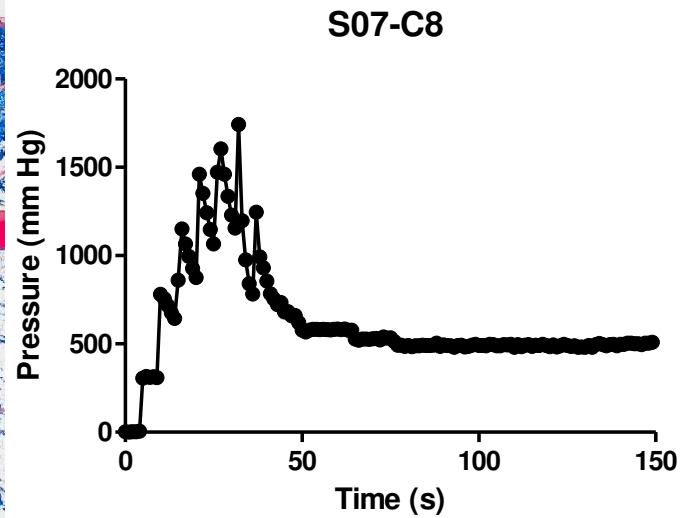
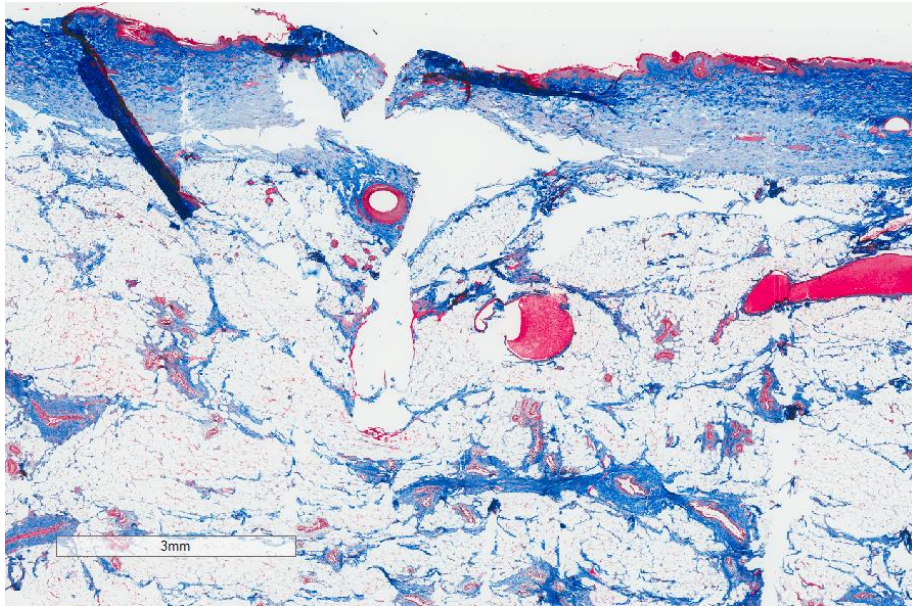


90°, Swine S07, 2 Days

Note: leak

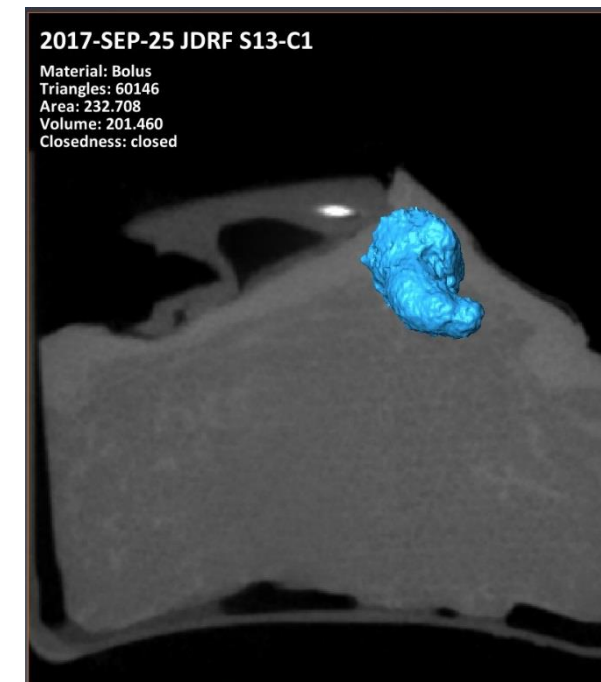
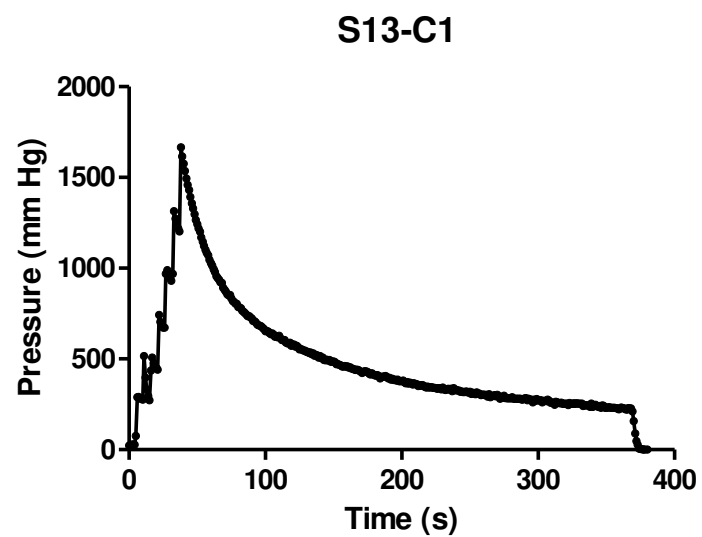
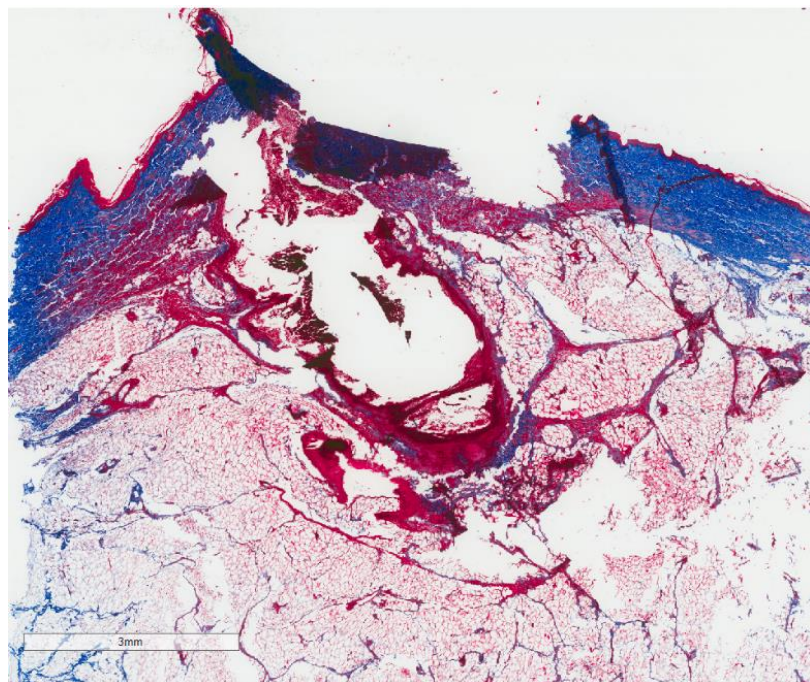


90°, Swine S07, Freshly Inserted (Day 1)



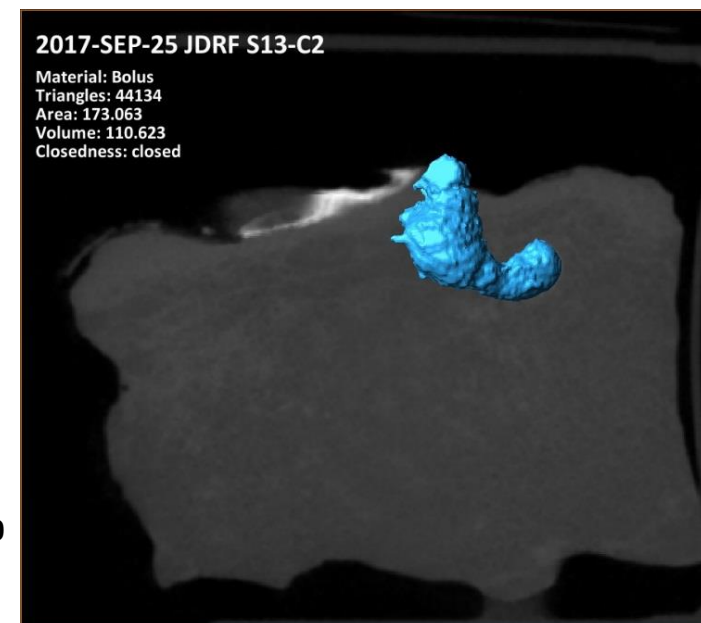
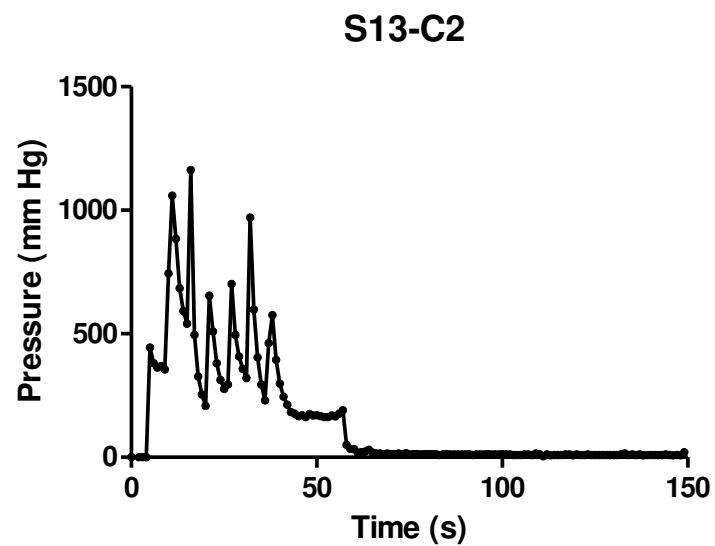
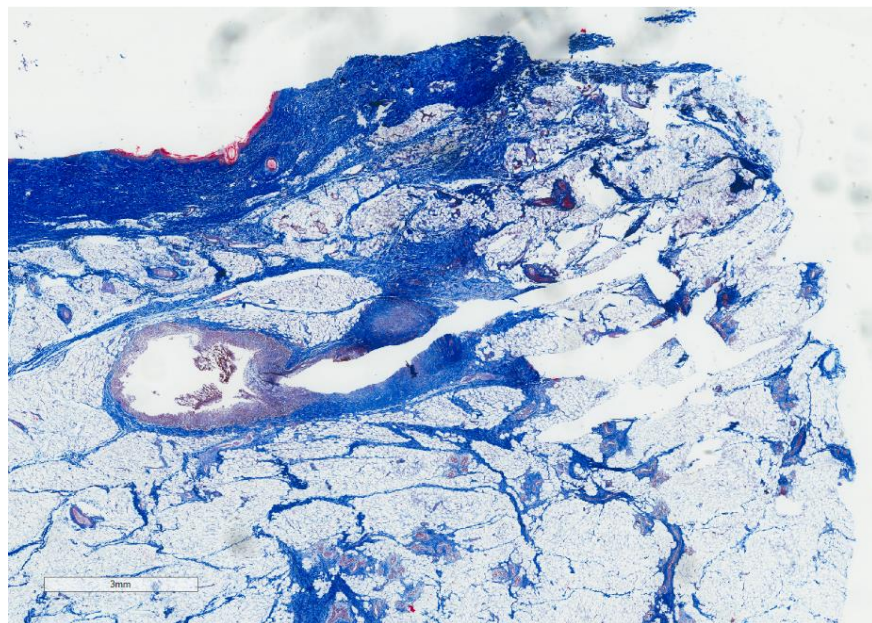
30° Angled Teflon IISs

30°, Swine S13, 14 Days



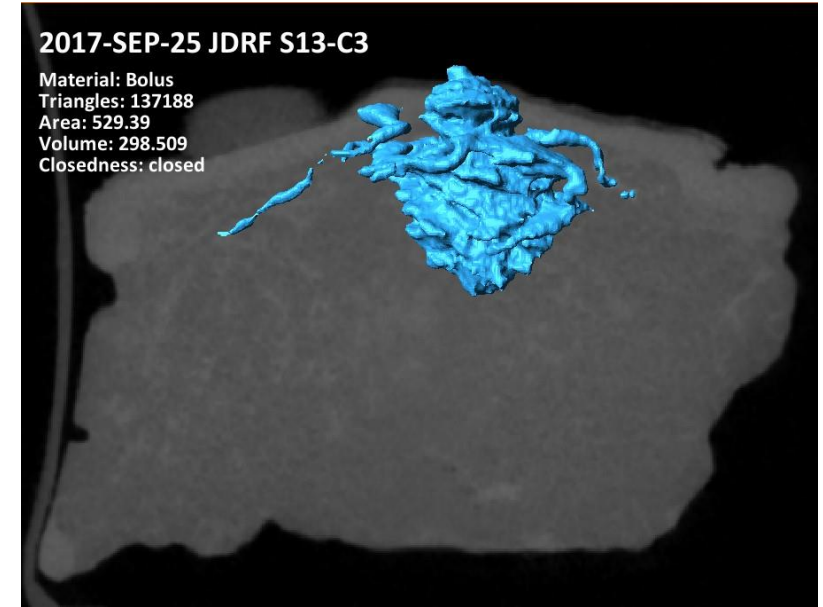
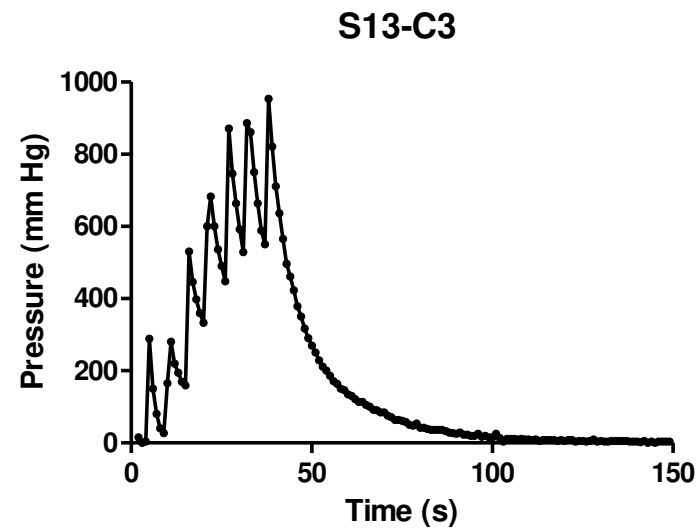
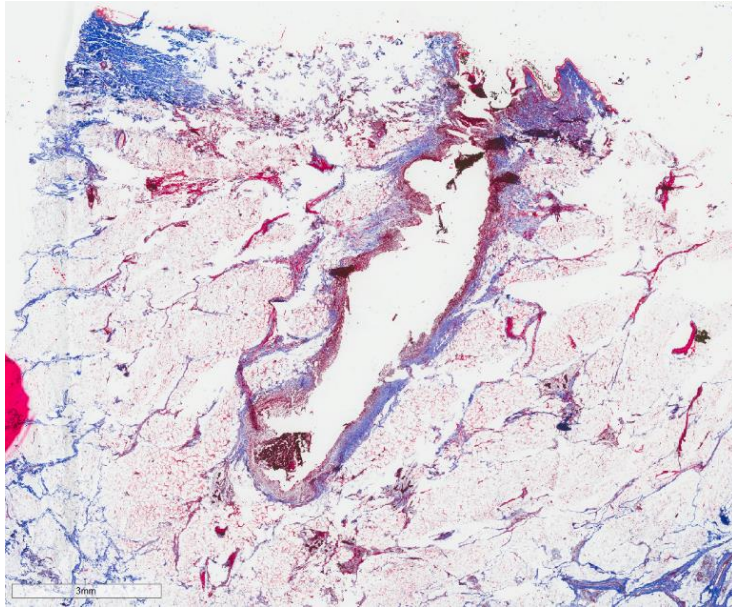
30°, Swine S13, 12 Days

Note: kinked cannula
leak



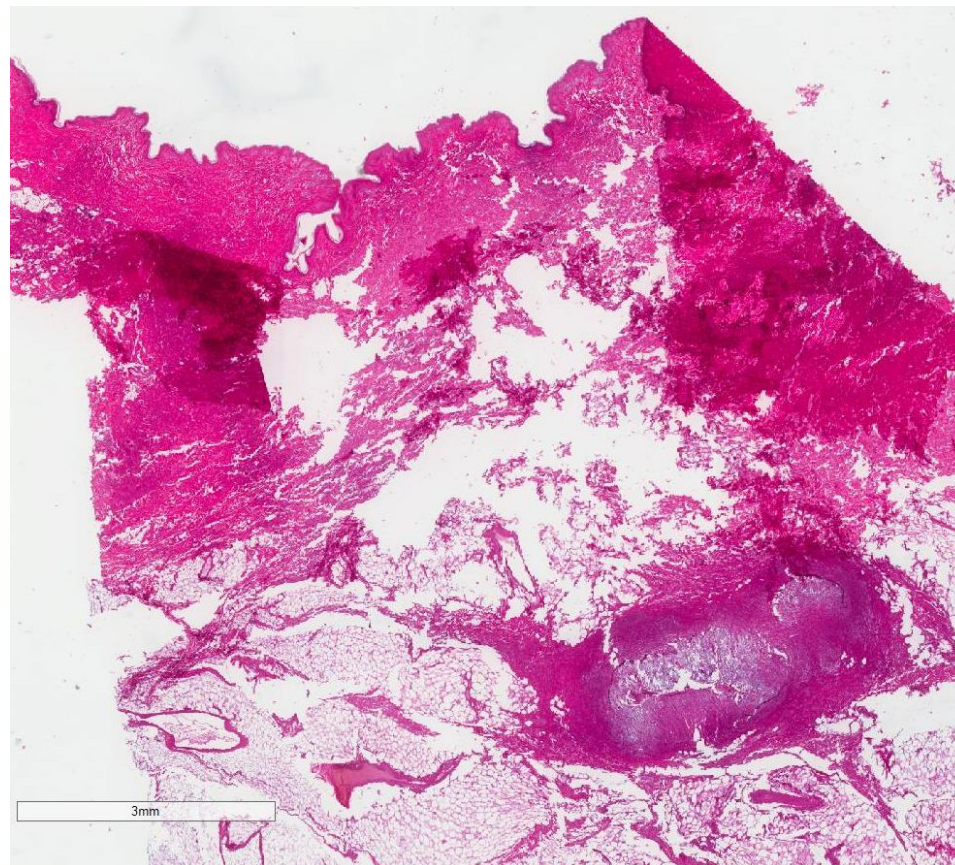
30°, Swine S13, 10 Days

Note: kinked cannula

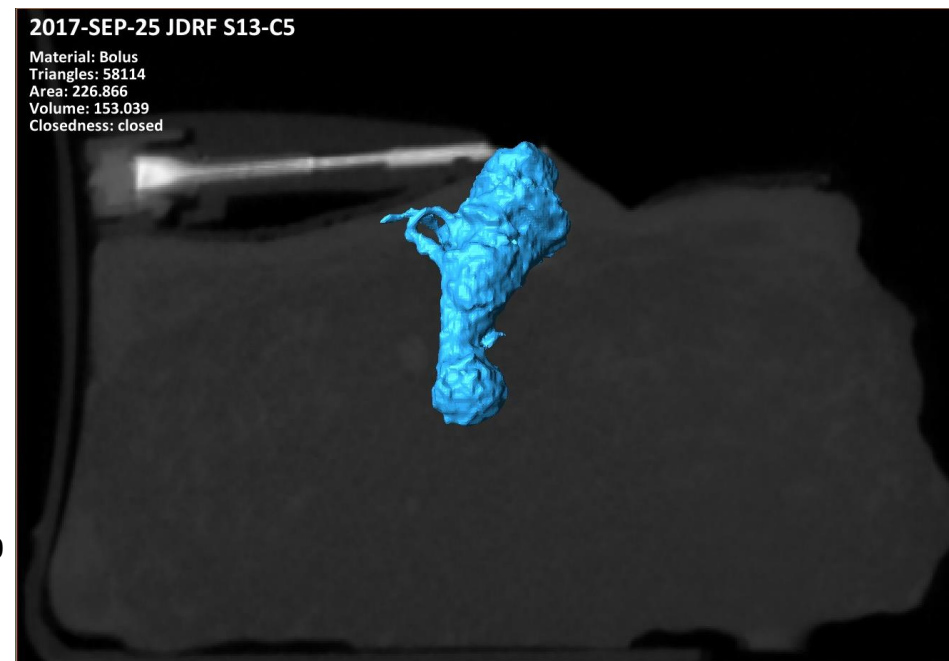
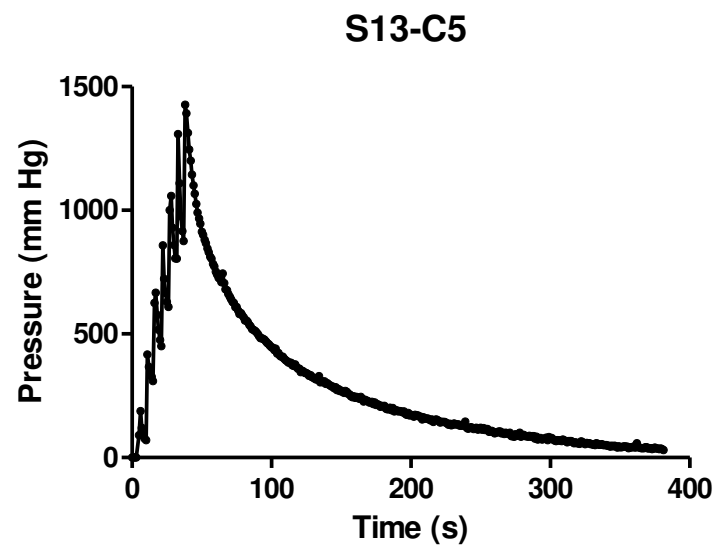
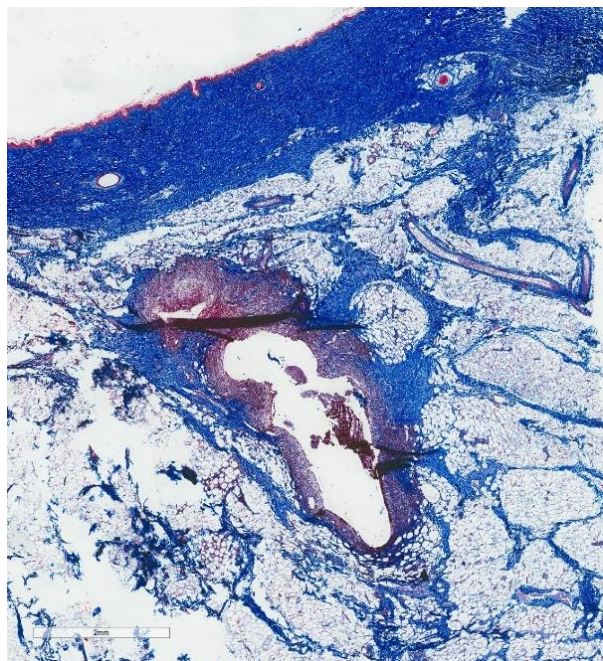


30°, Swine S13, 8 Days

Note:
accidentally removed
before excision

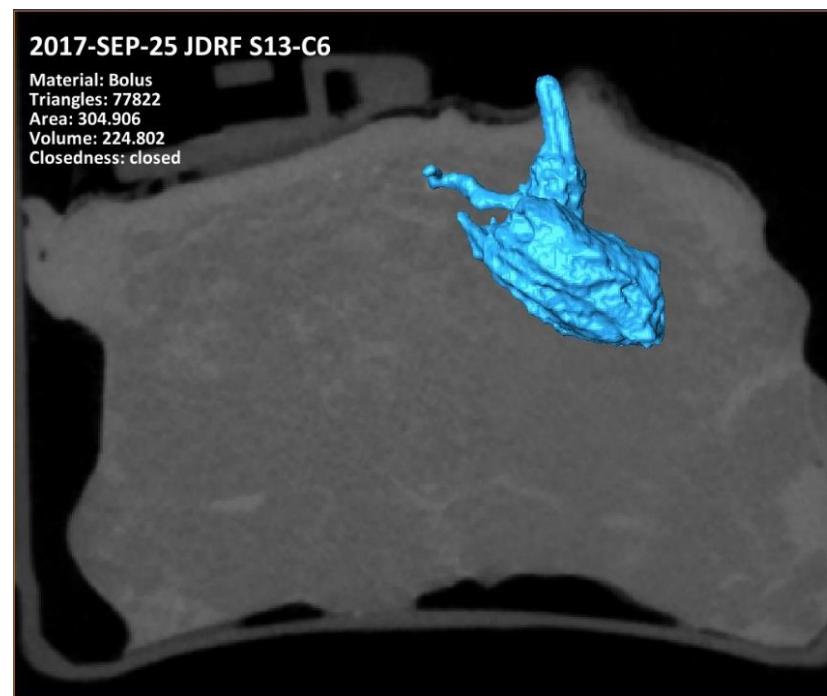
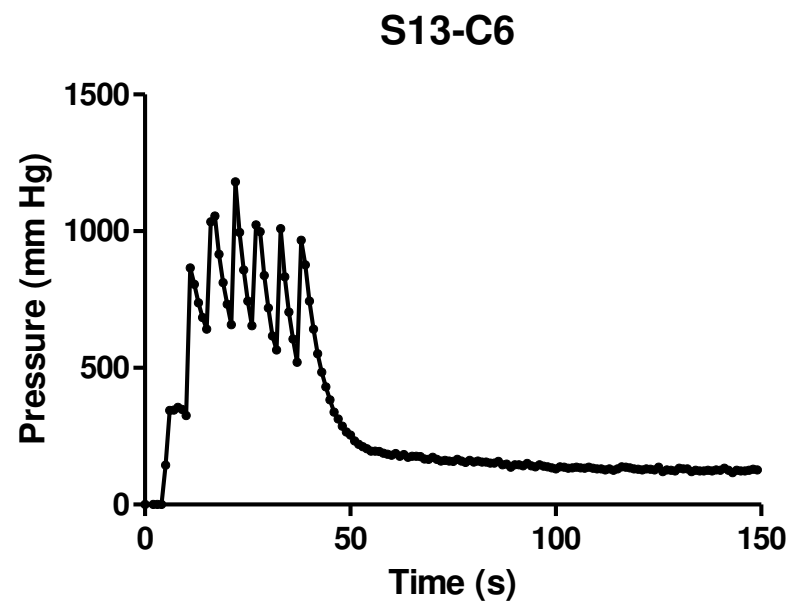


30°, Swine S13, 6 Days

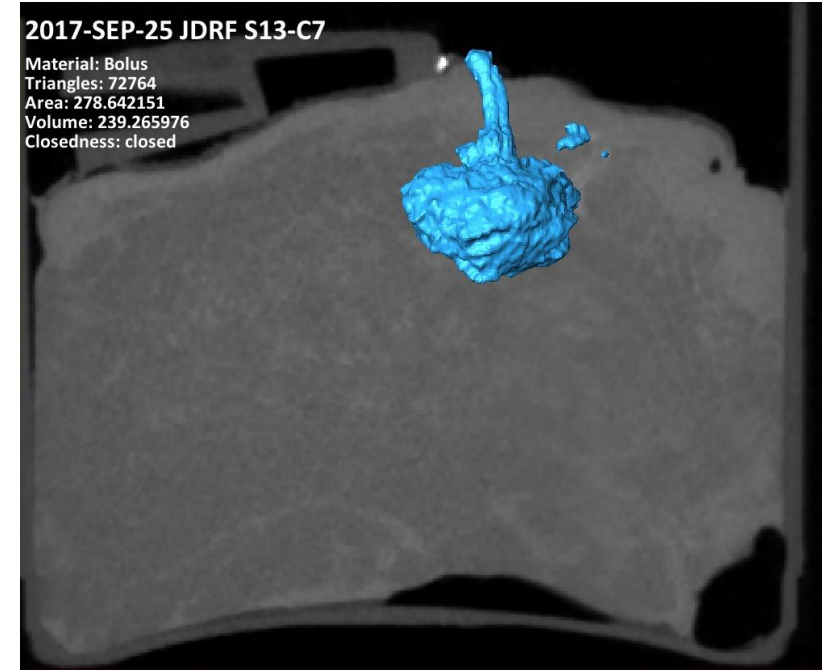
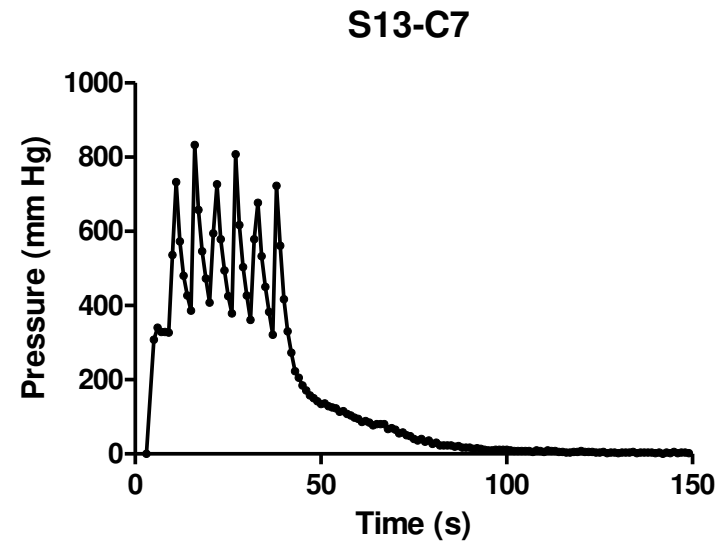
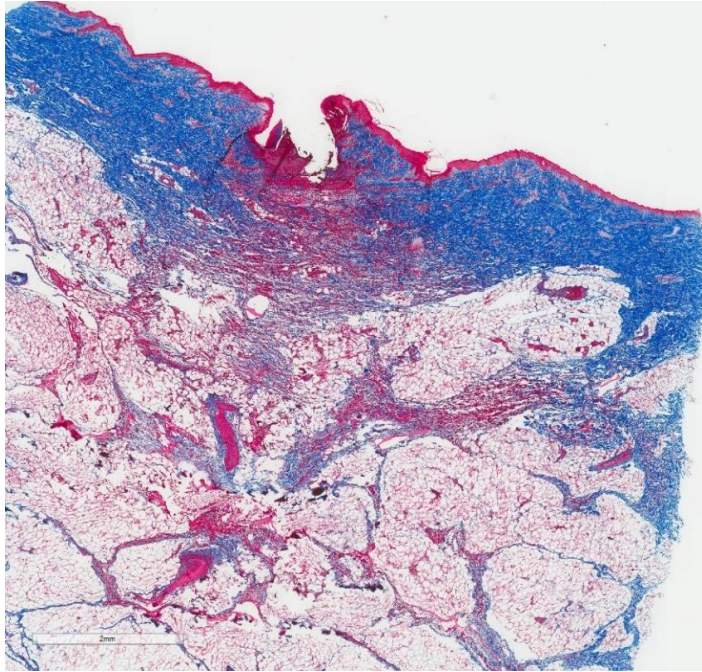


Note: kinked cannula
leak

30°, Swine S13, 4 Days

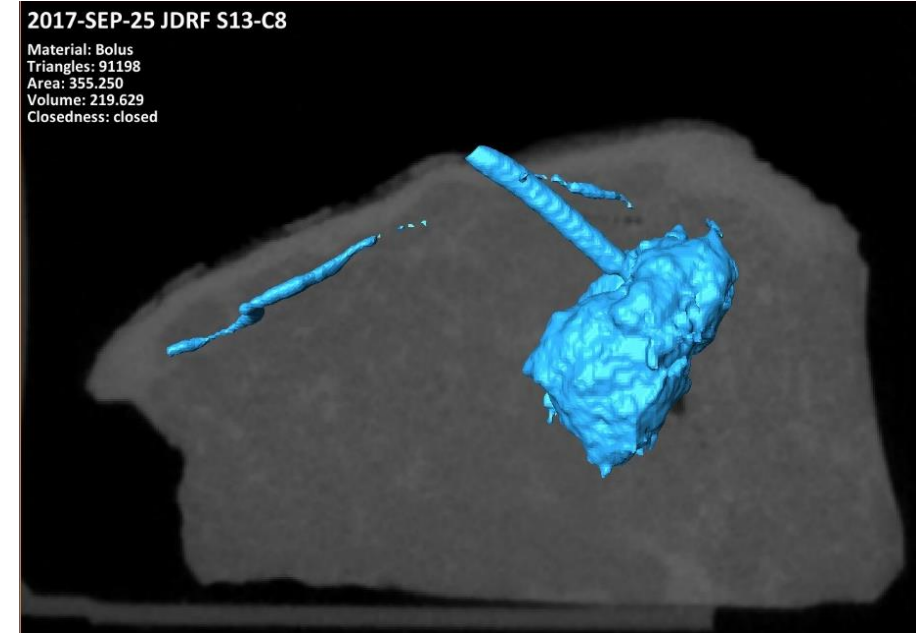
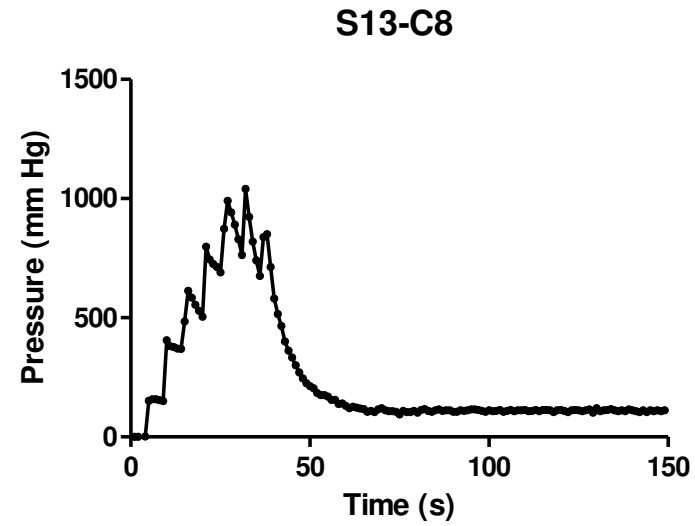
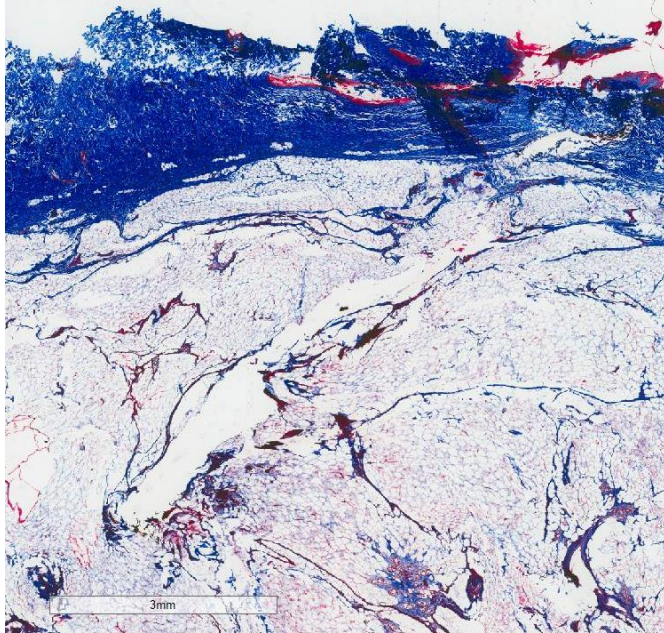


30°, Swine S13, 2 Days



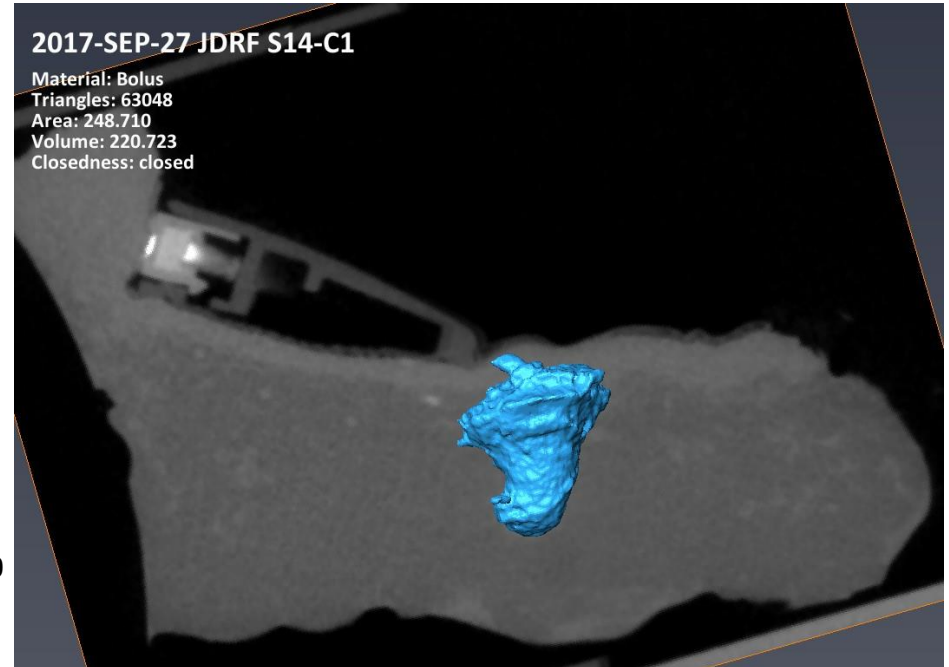
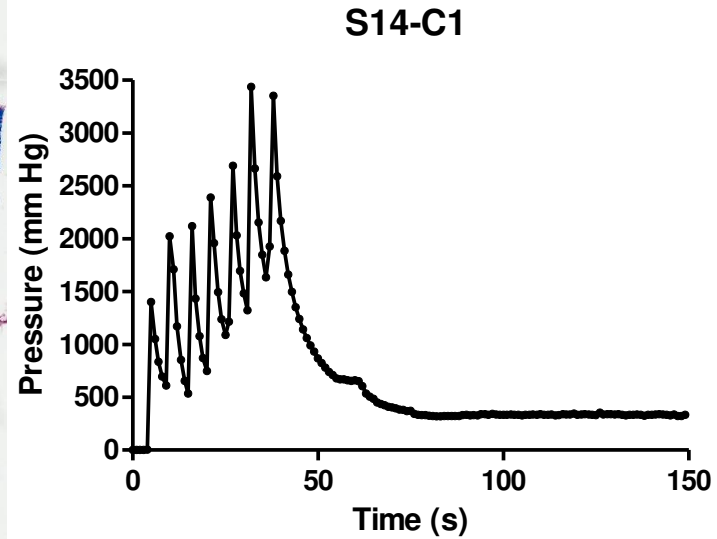
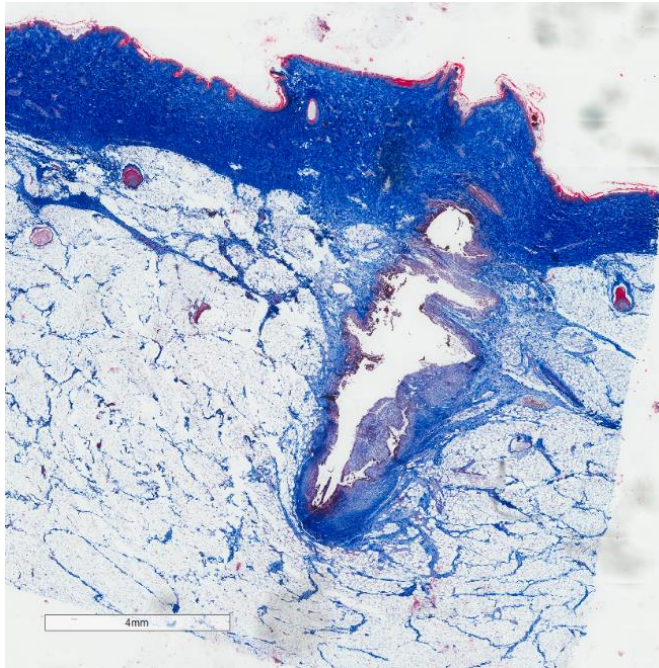
Note: kinked cannula
leak

30°, Swine S13, Freshly Inserted (Day 1)

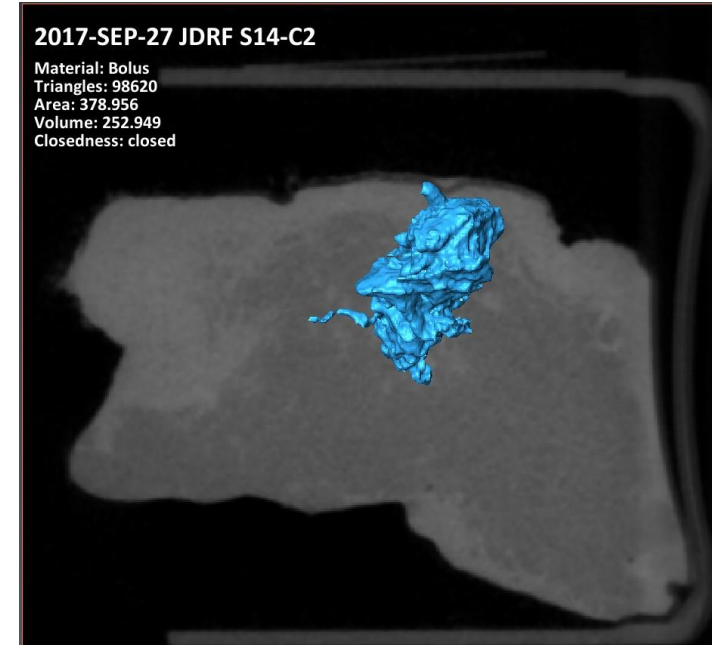
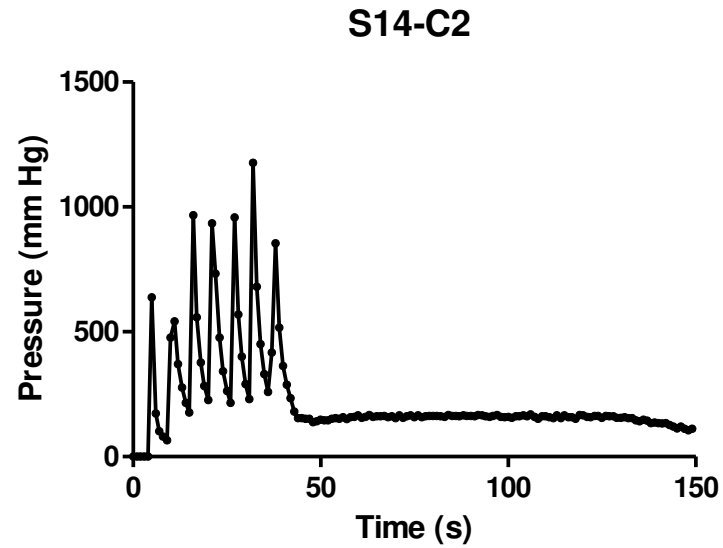
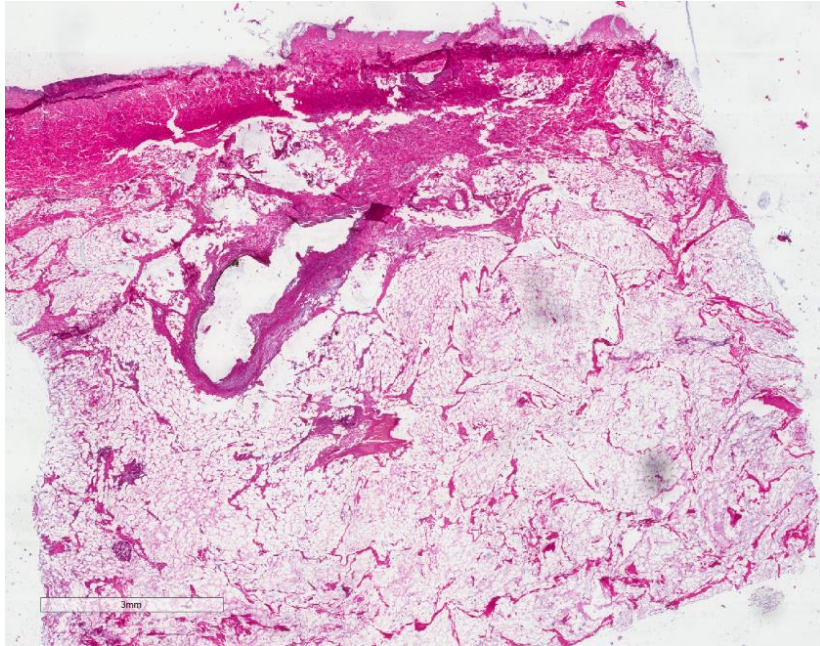


30°, Swine S14, 14 Days

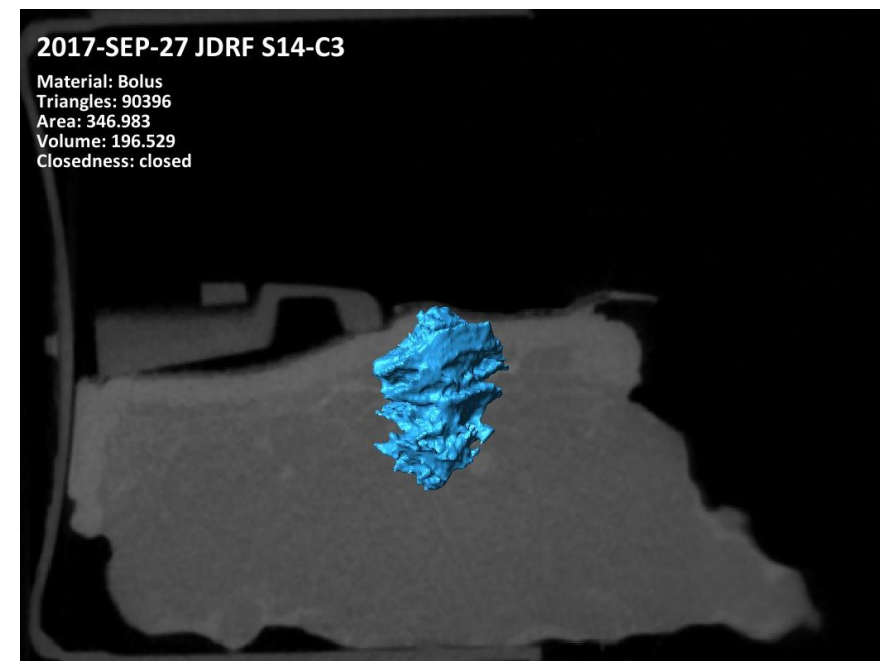
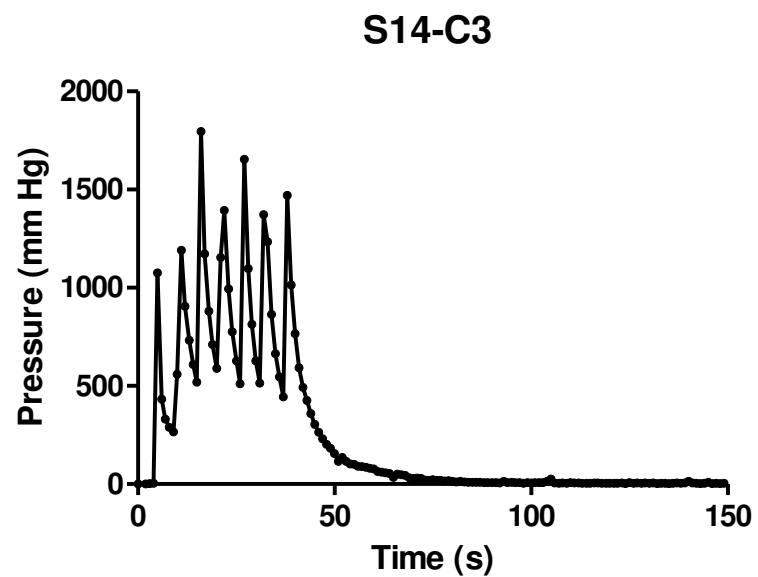
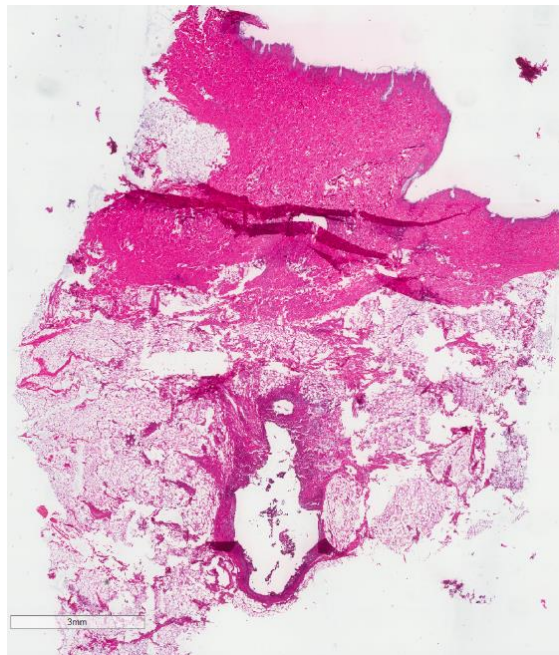
Note: kinked cannula



30°, Swine S14, 12 Days

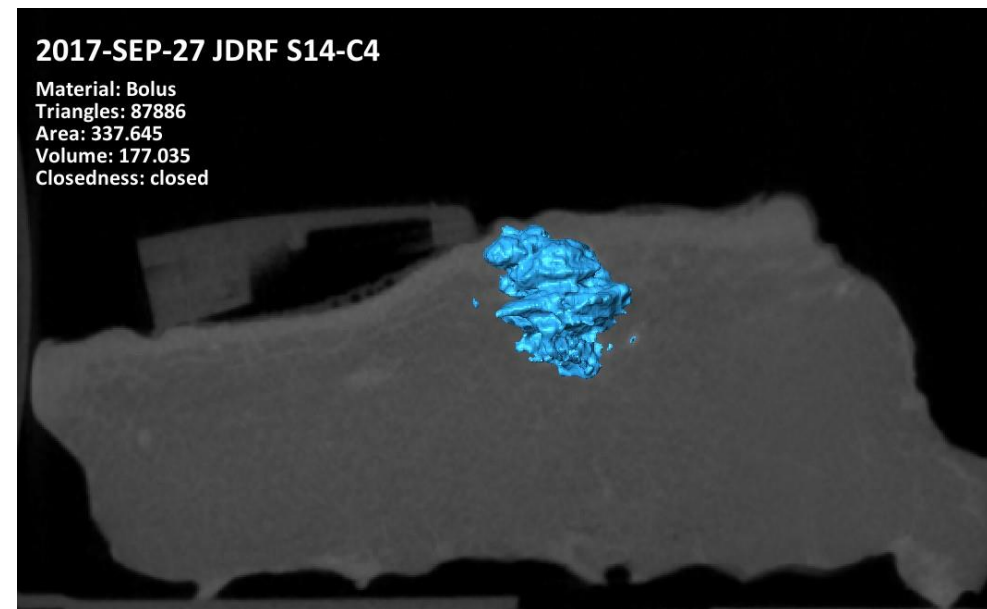
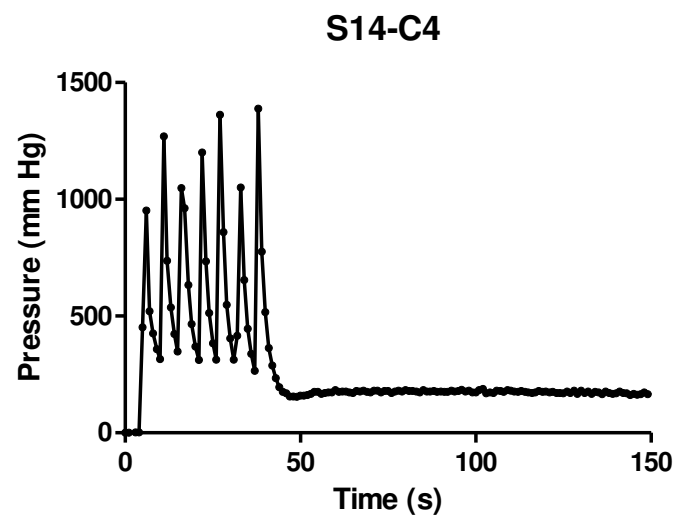
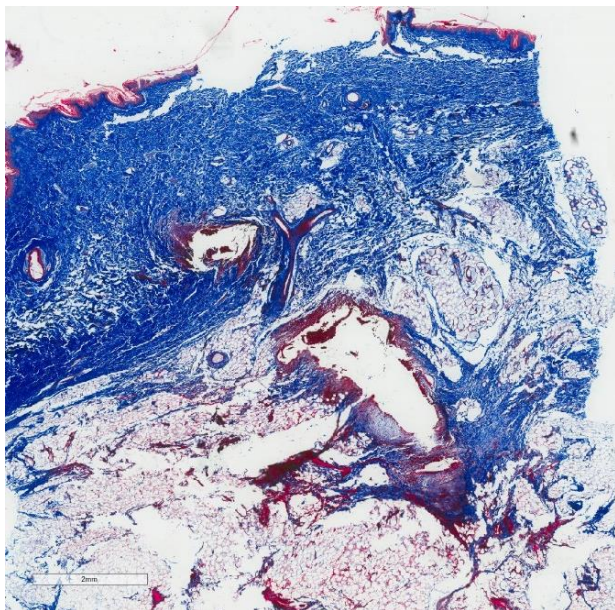


30°, Swine S14, 10 Days



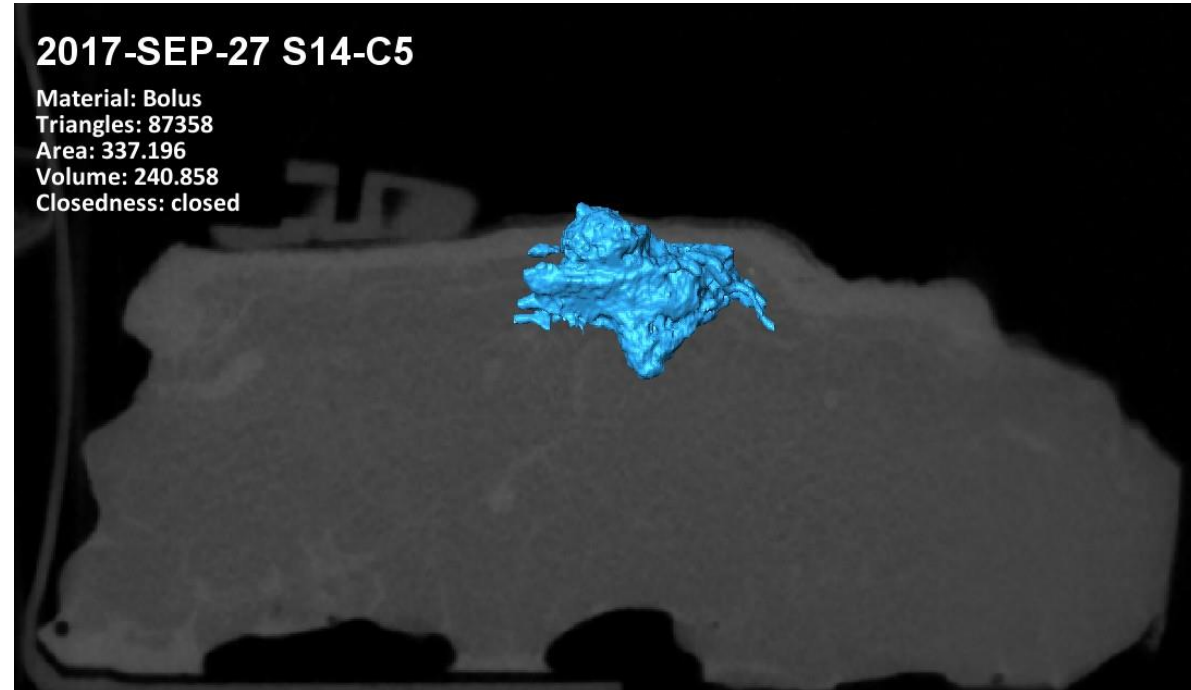
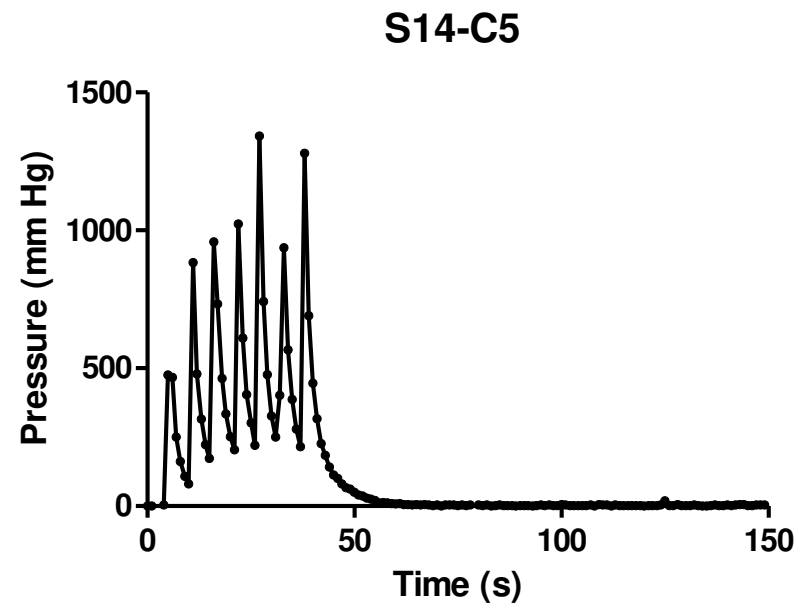
Note: kinked cannula
leak

30°, Swine S14, 8 Days



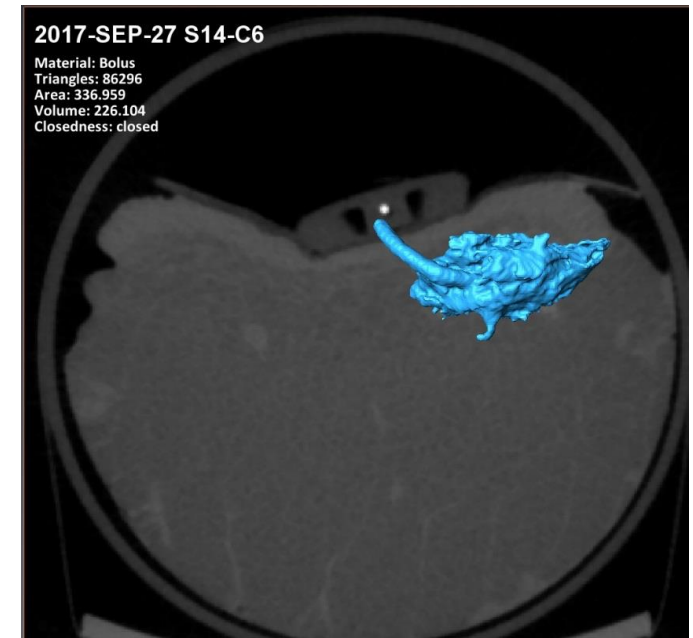
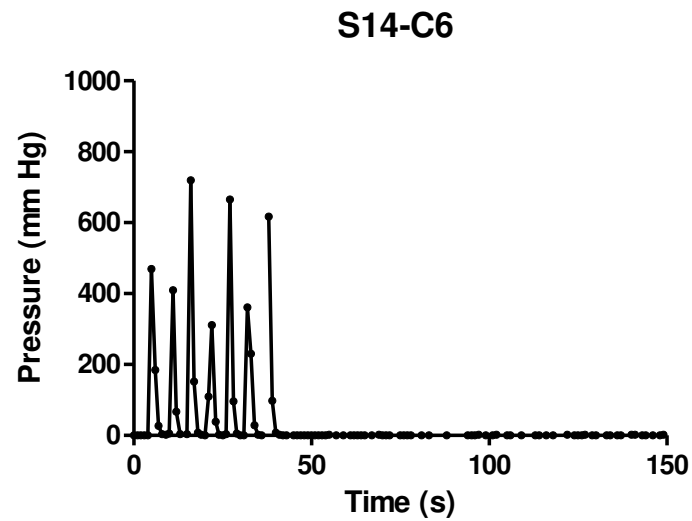
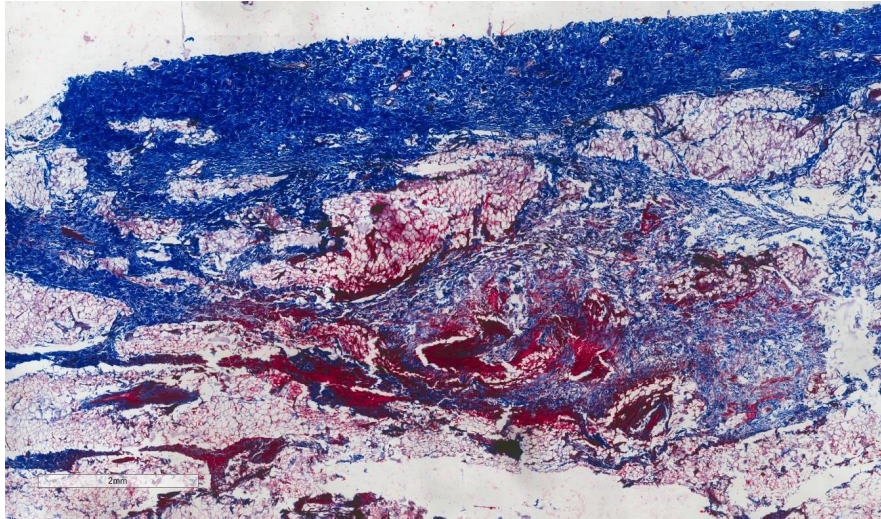
Note: kinked cannula

30°, Swine S14, 6 Days

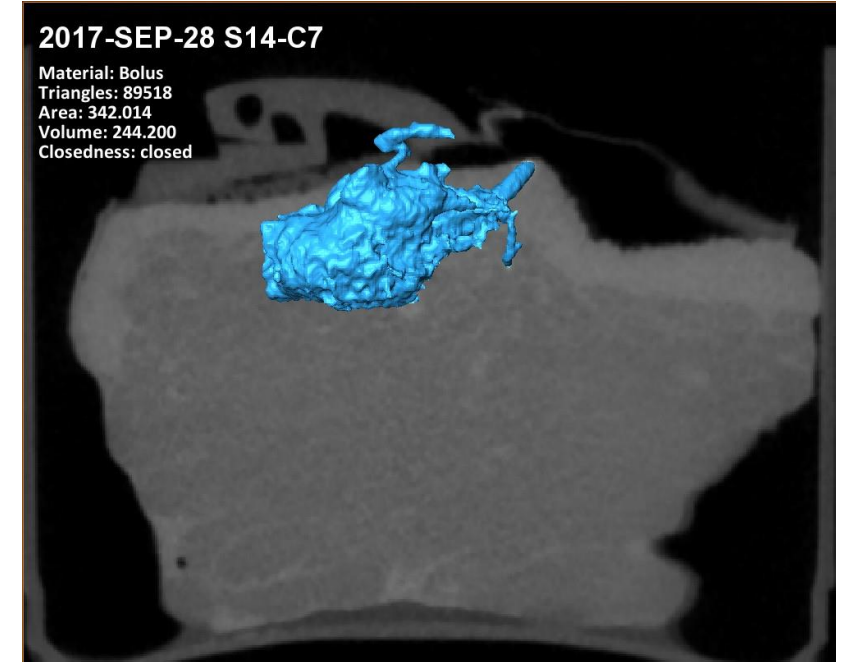
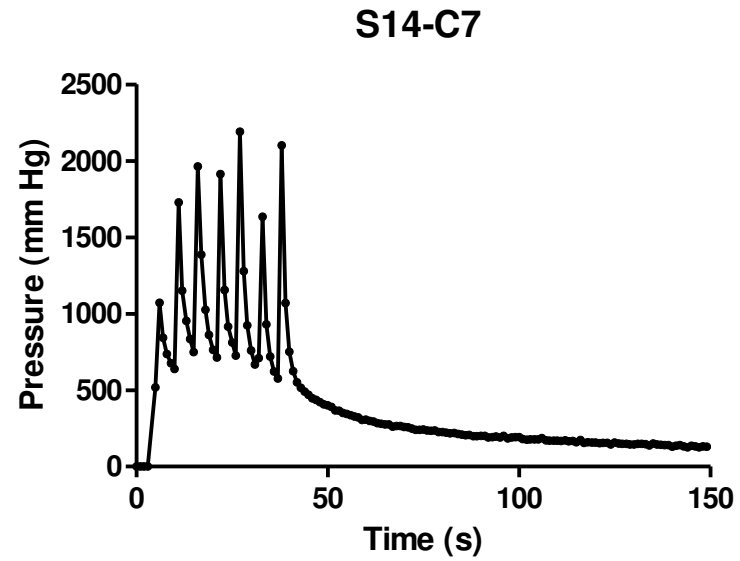
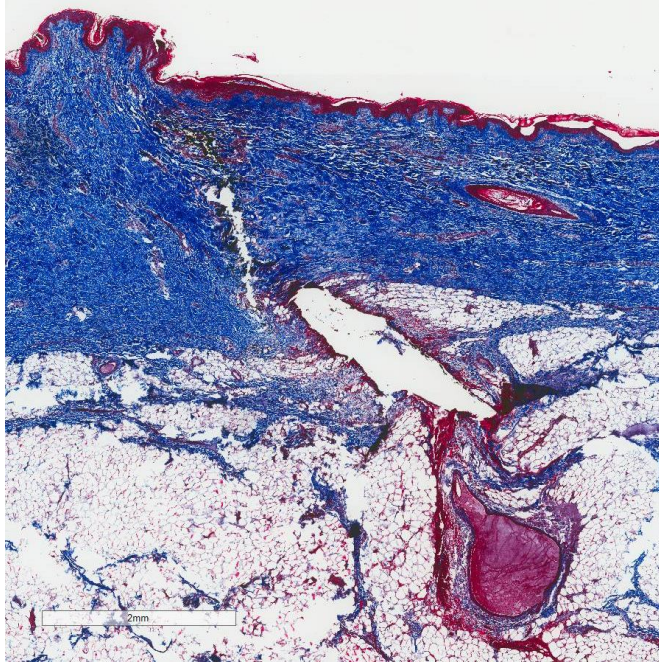


30°, Swine S14, 4 Days

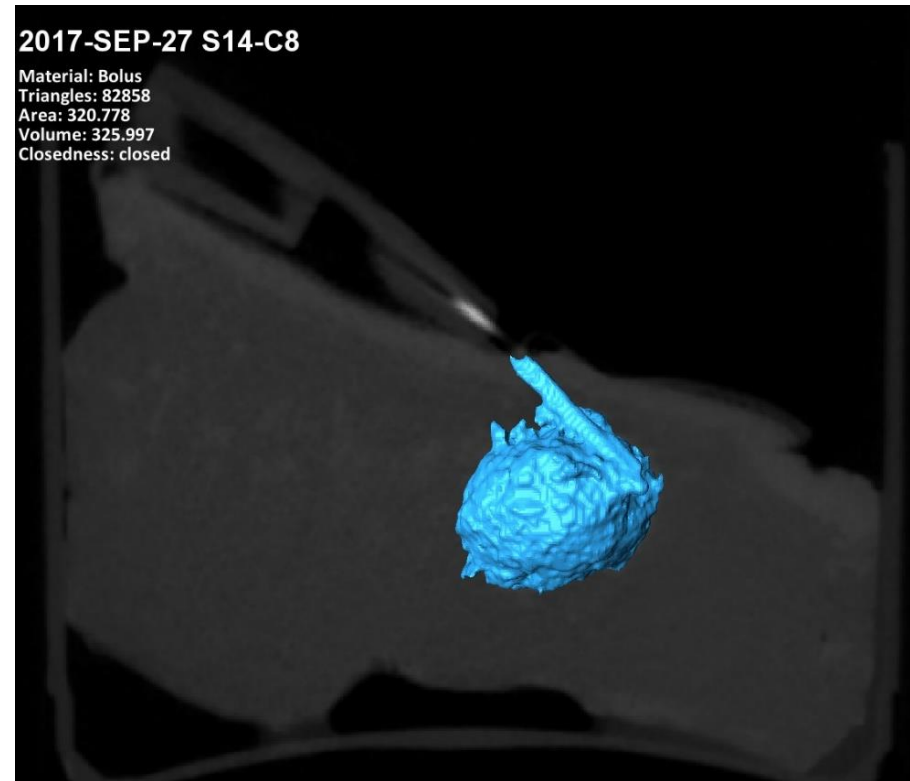
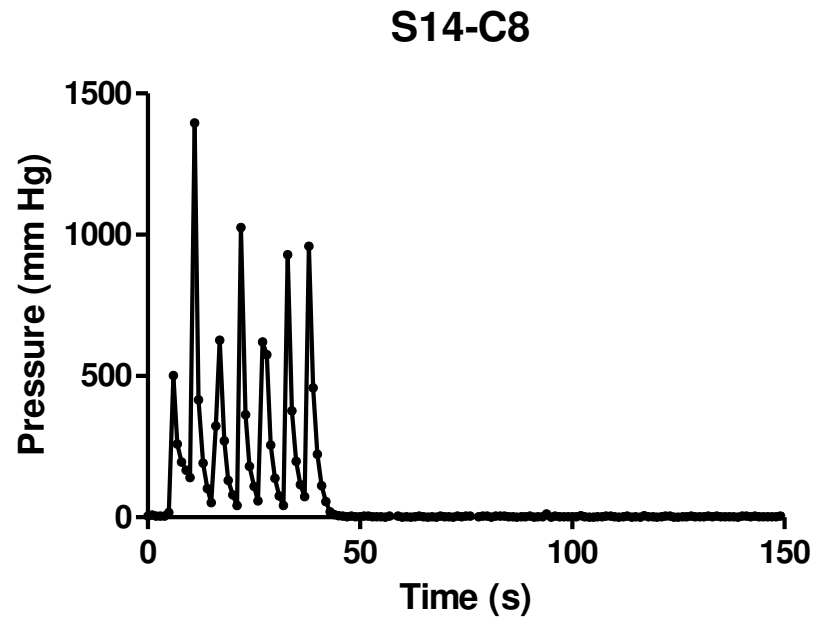
Note: kinked cannula



30°, Swine S14, 2 Days

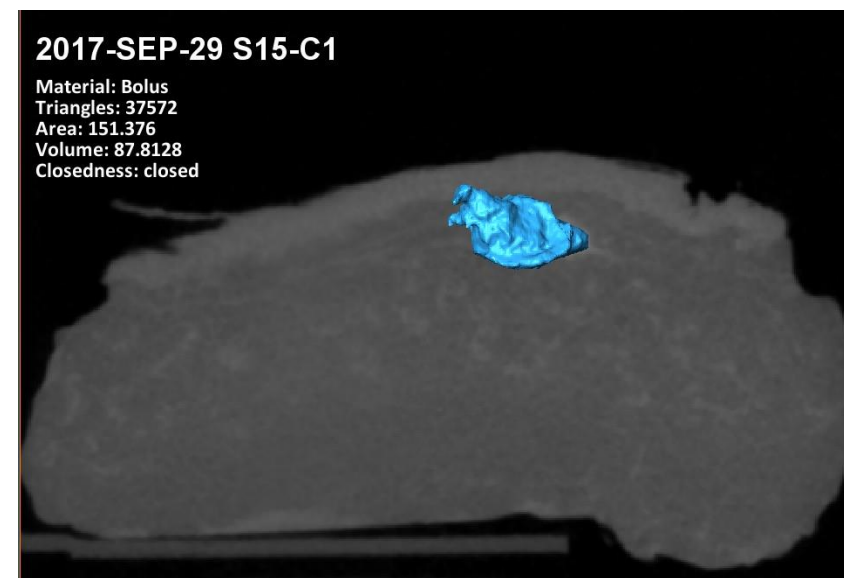
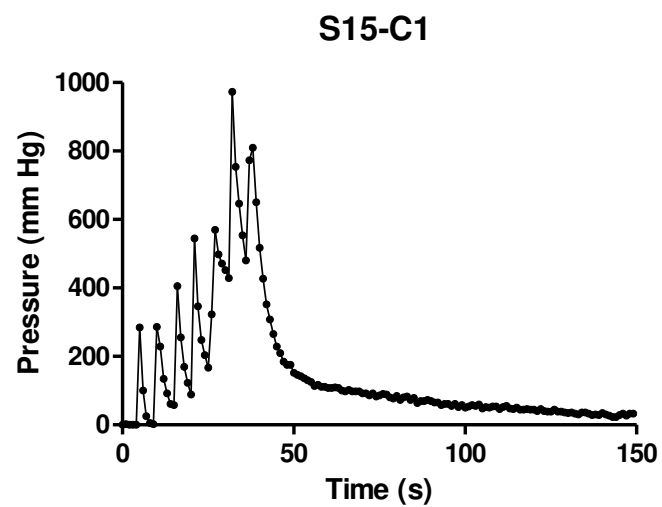
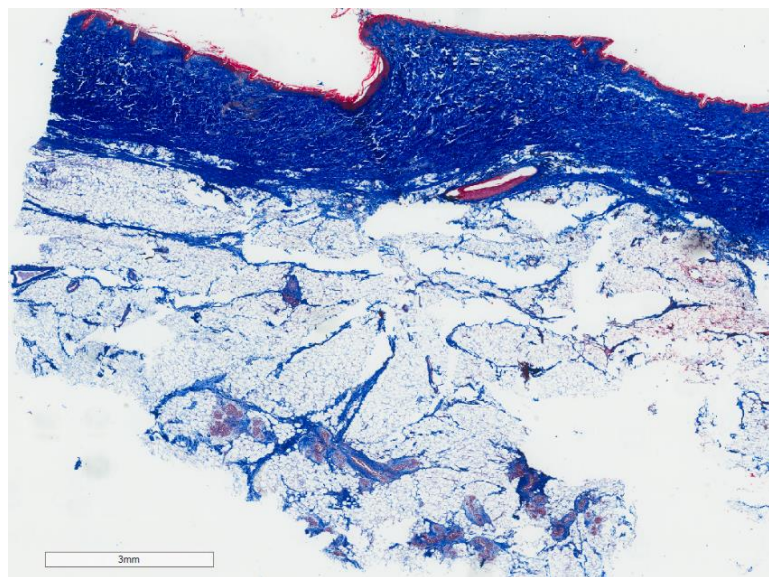


30°, Swine S14, Freshly Inserted (Day 1)



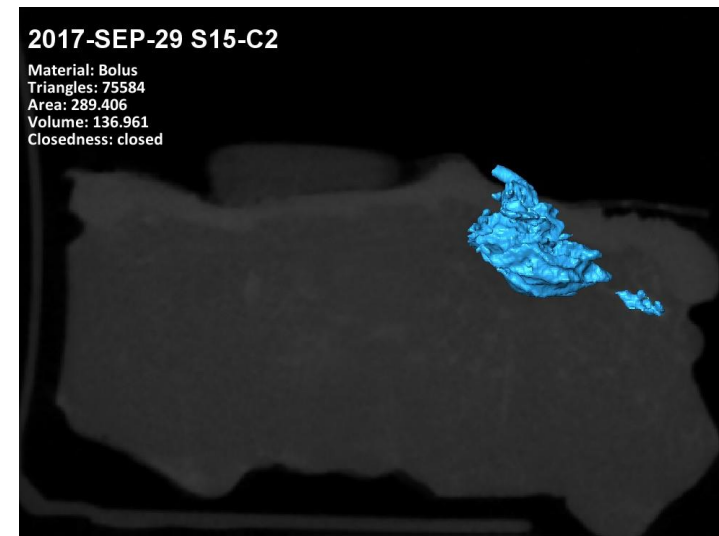
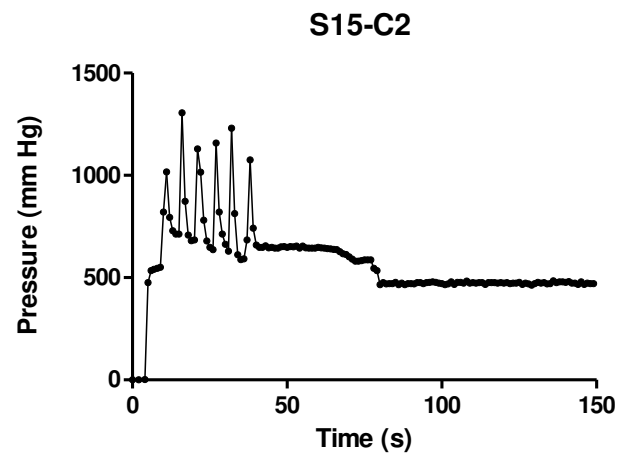
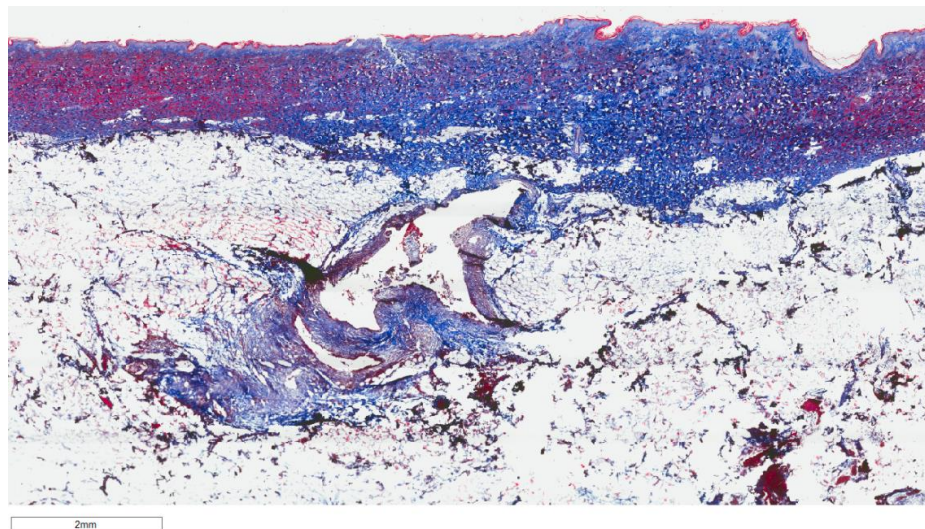
30°, Swine S15, 14 Days

Note: kinked cannula
leak



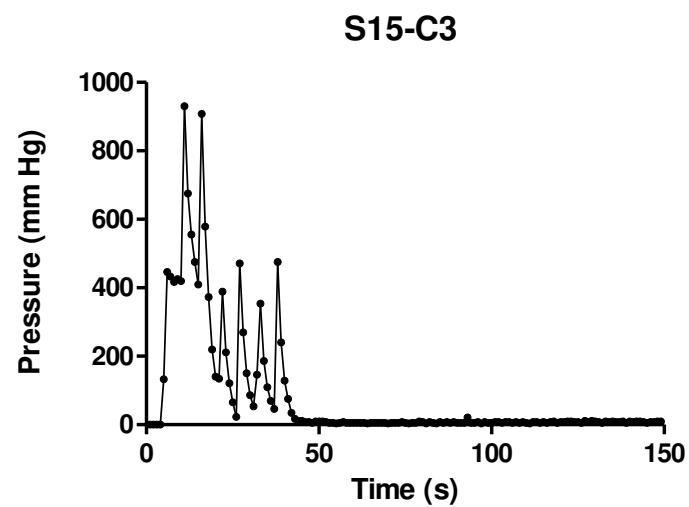
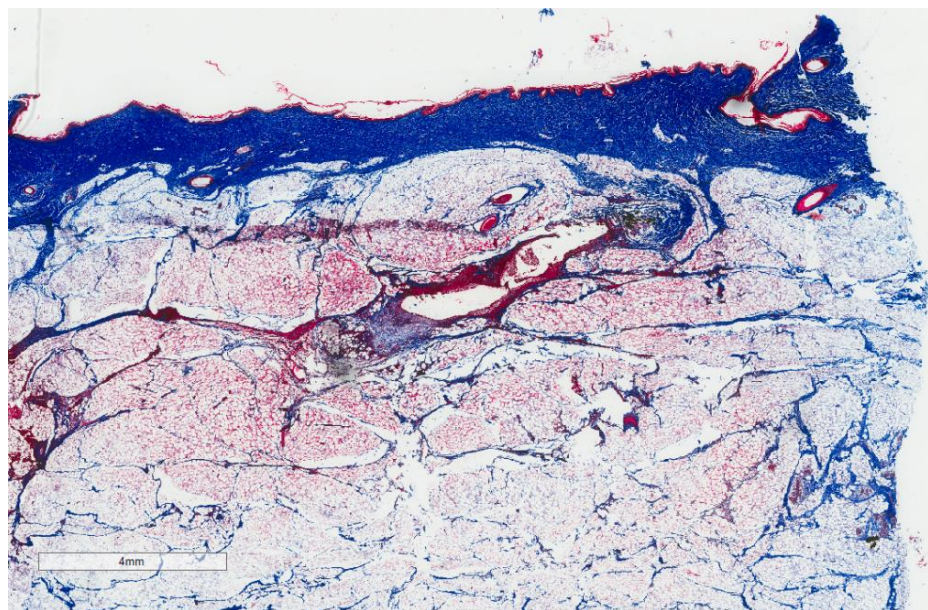
30°, Swine S15, 2 Days

Note: kinked cannula

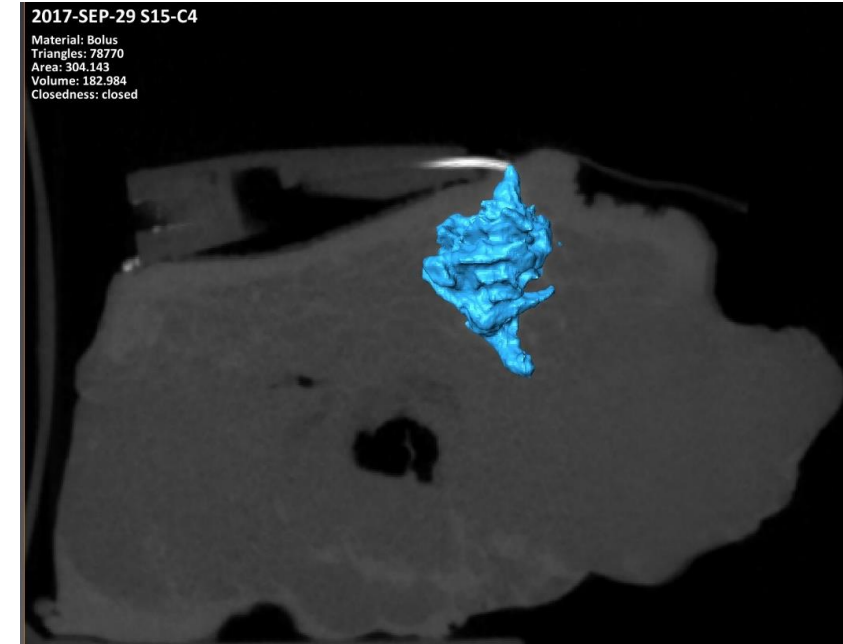
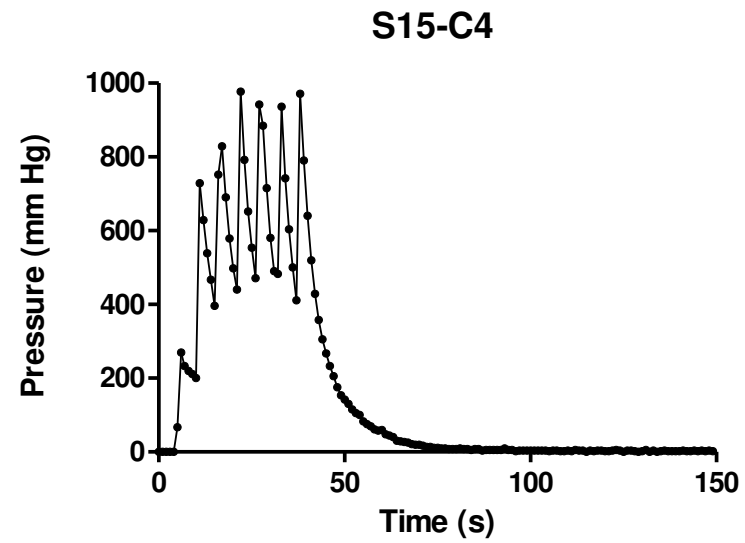
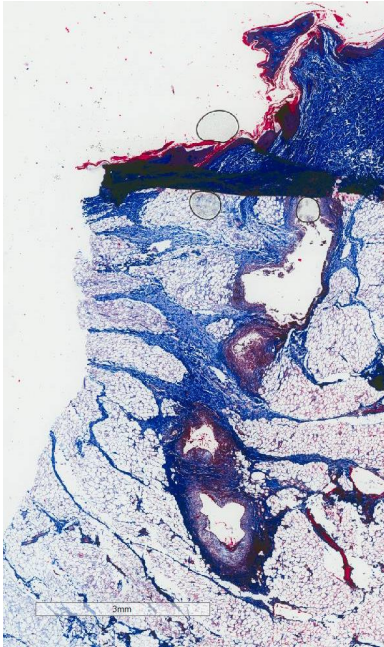


30°, Swine S15, 10 Days

Note: kinked cannula

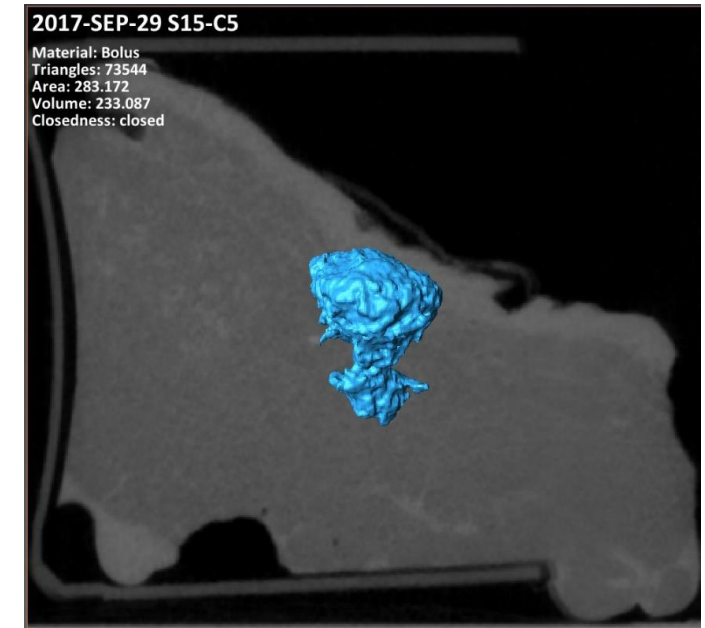
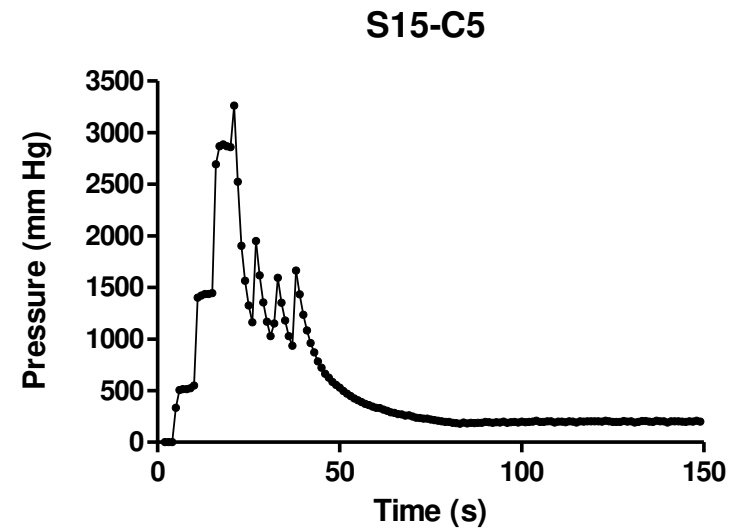
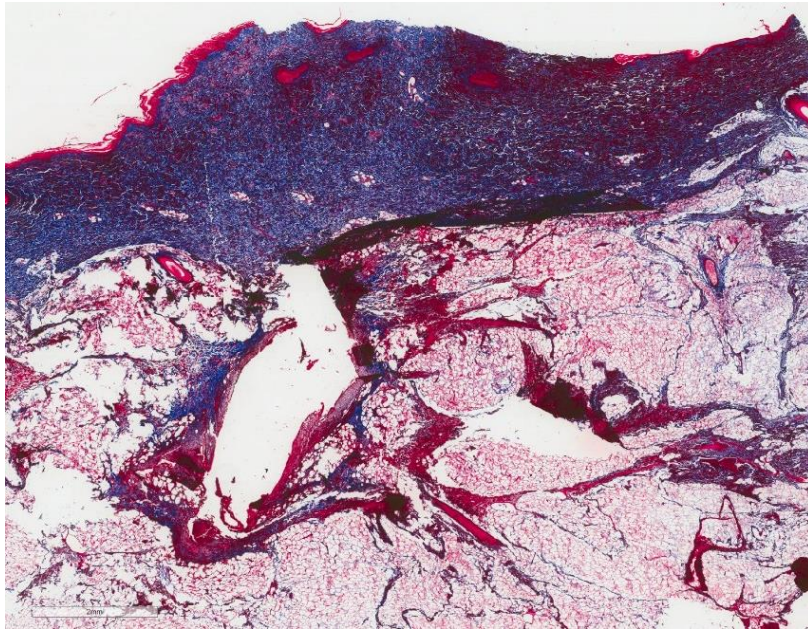


30°, Swine S15, 8 Days



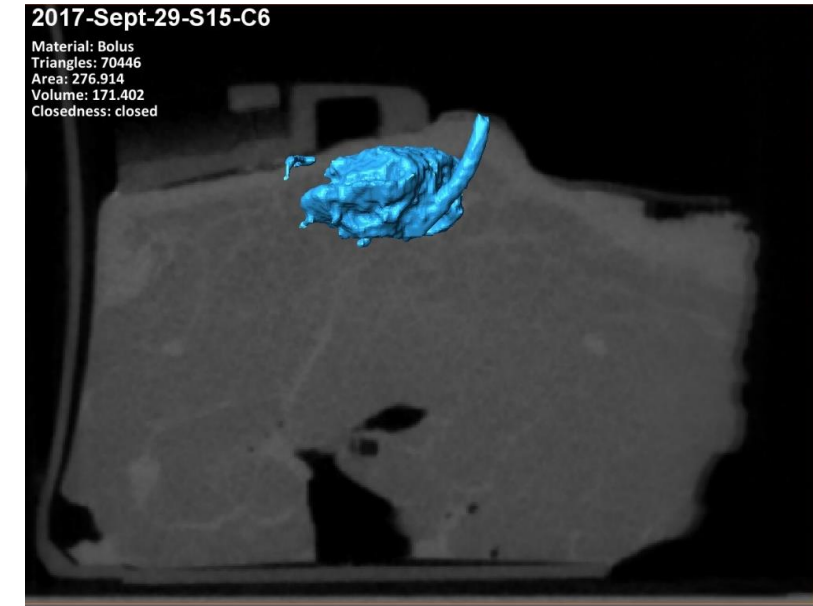
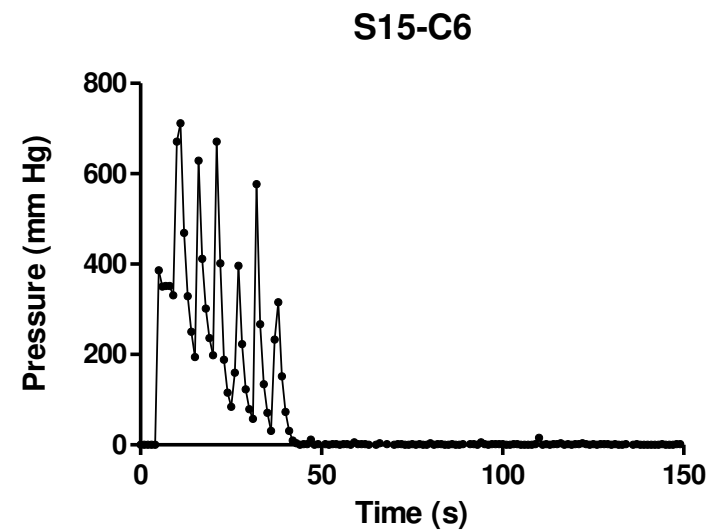
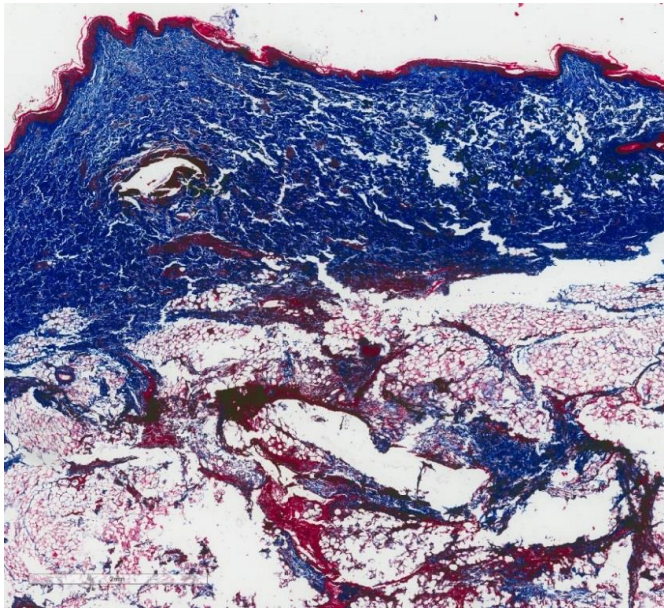
Note: kinked cannula

30°, Swine S15, 6 Days

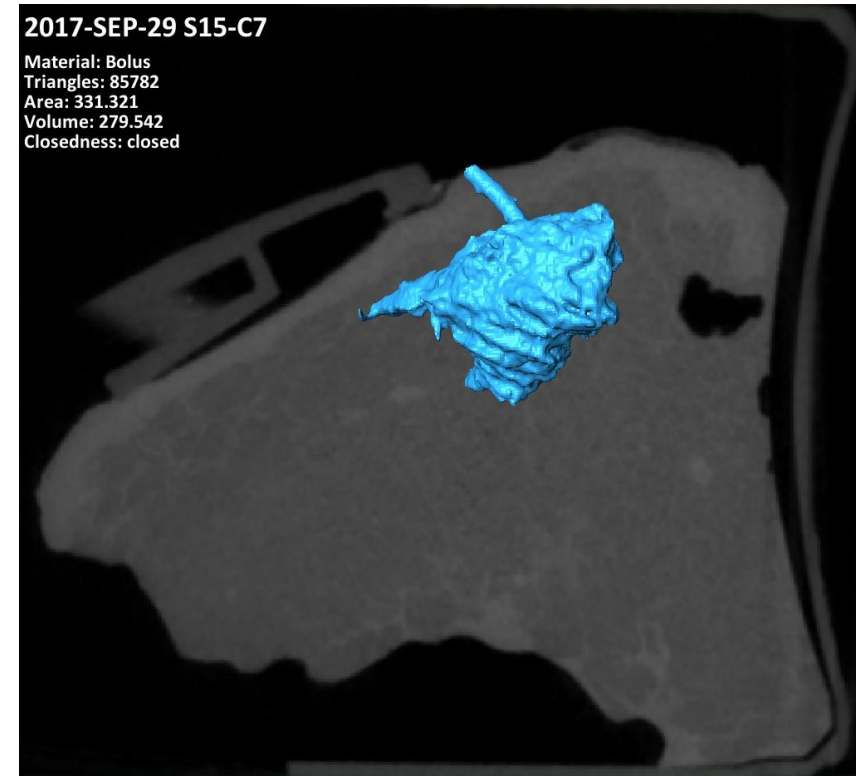
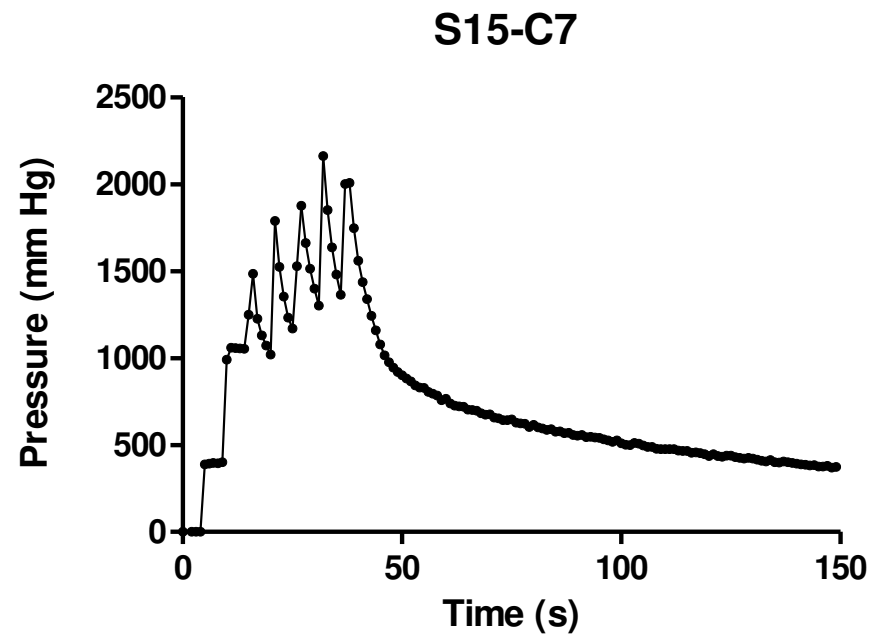


30°, Swine S15, 4 Days

Note: kinked cannula

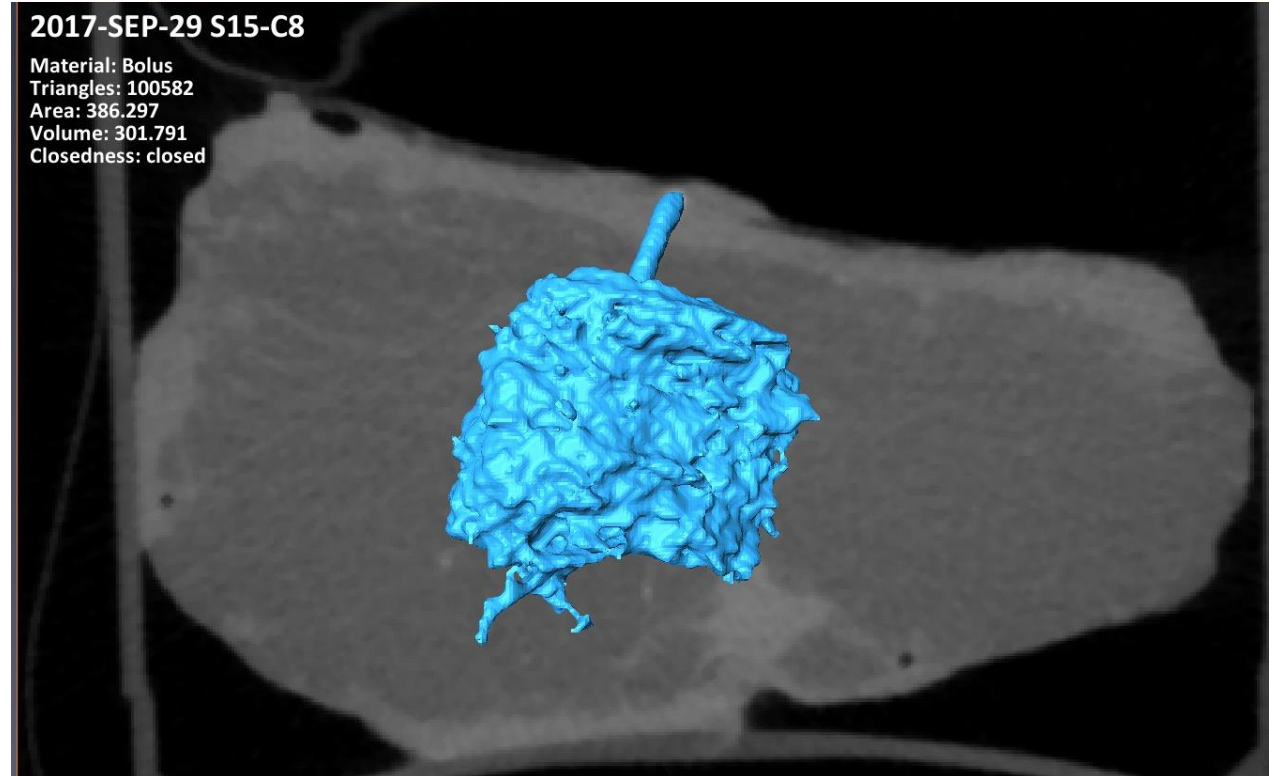
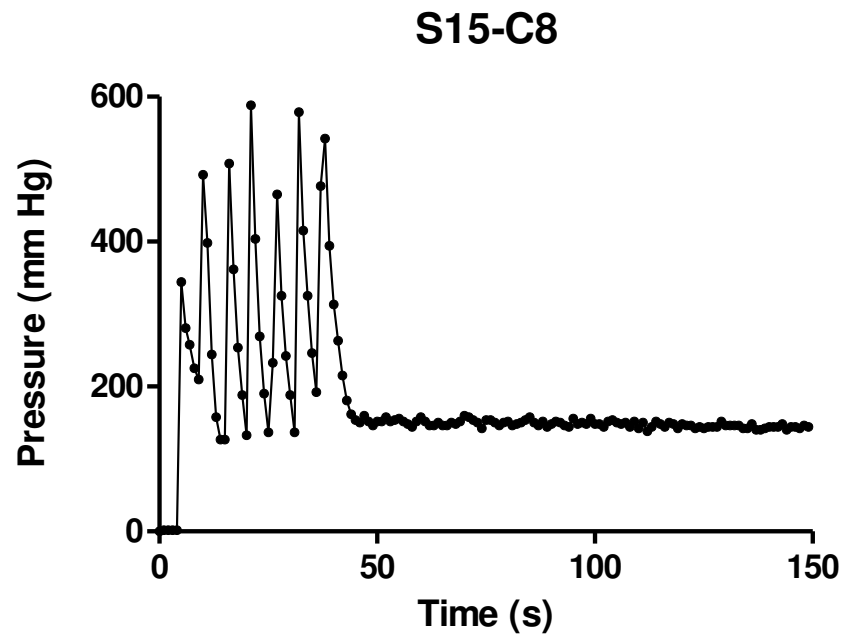


30°, Swine S15, 2 Days

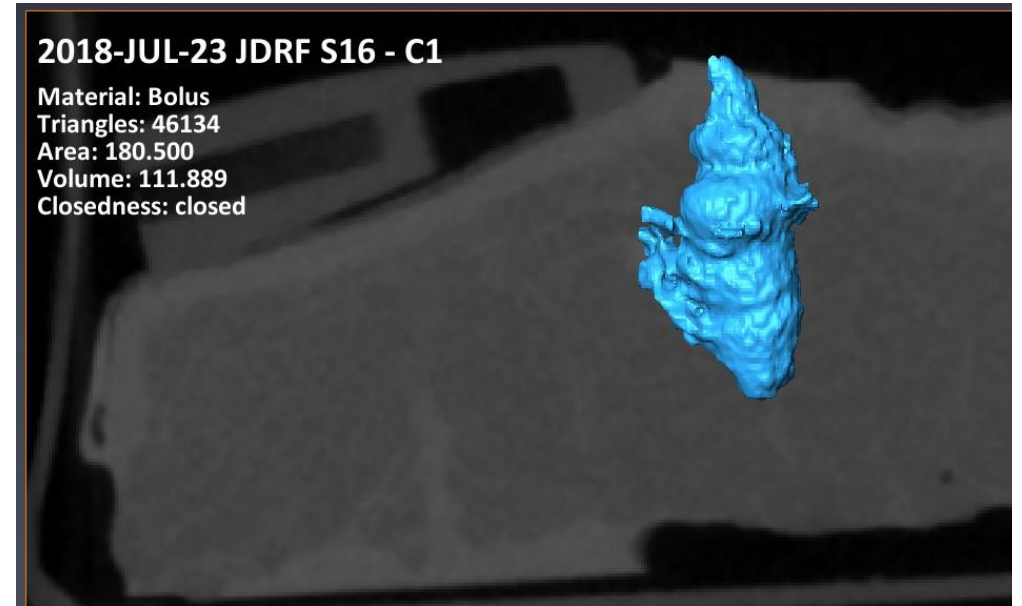
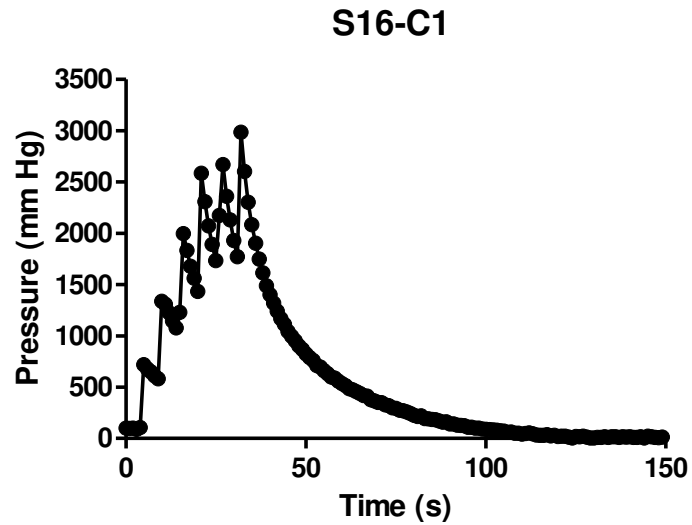
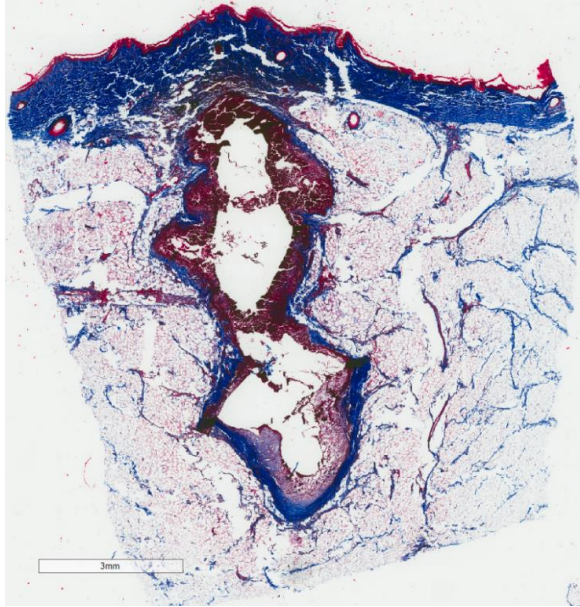


30°, Swine S15, Freshly Inserted (Day 1)

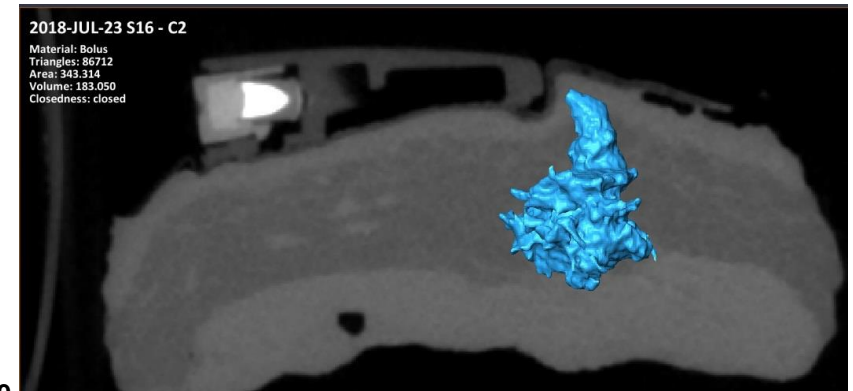
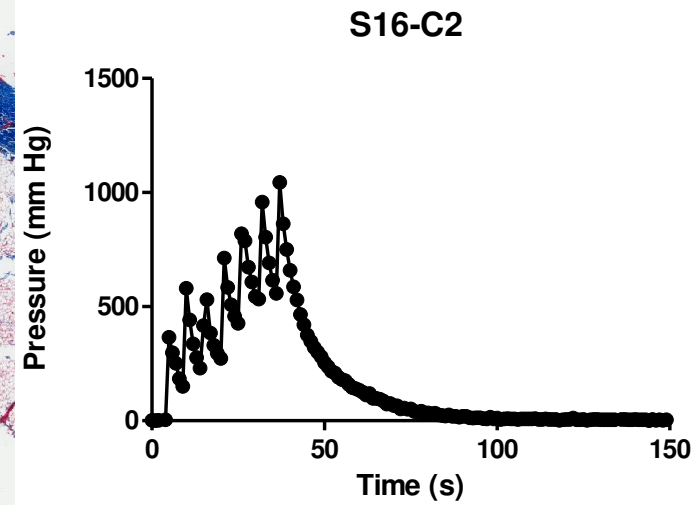
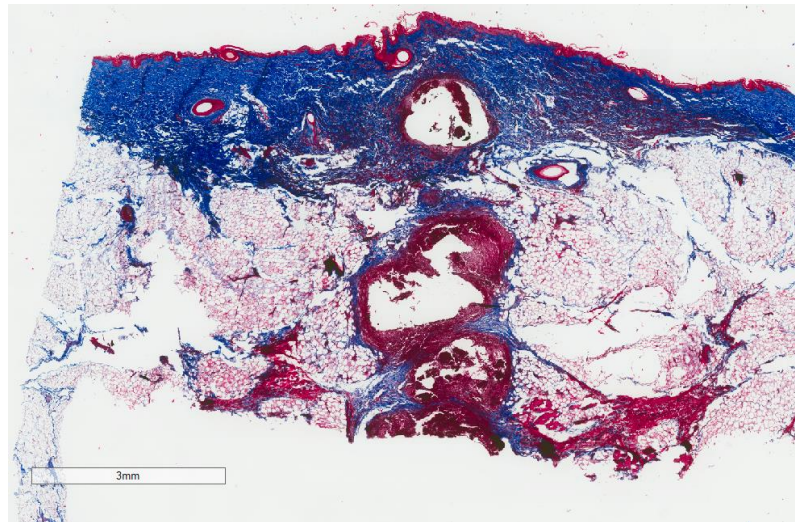
Note: kinked cannula



30°, Swine S16, 14 Days

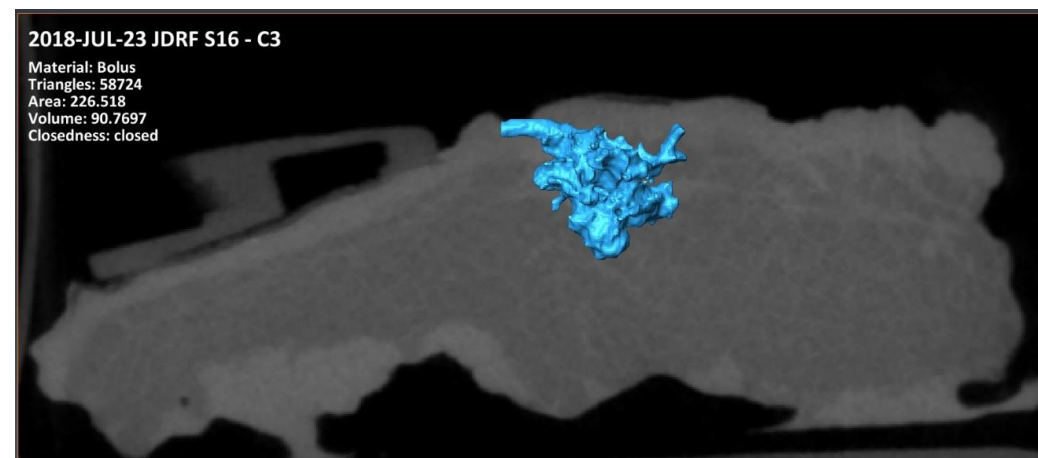
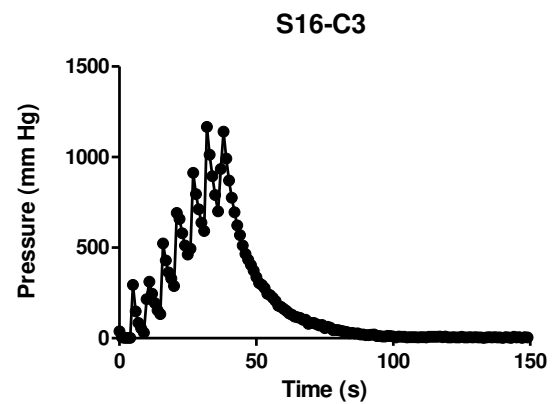
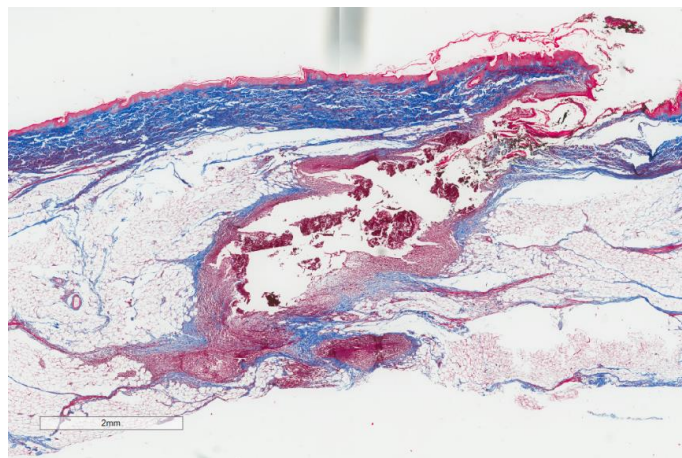


30°, Swine S16, 2 Days



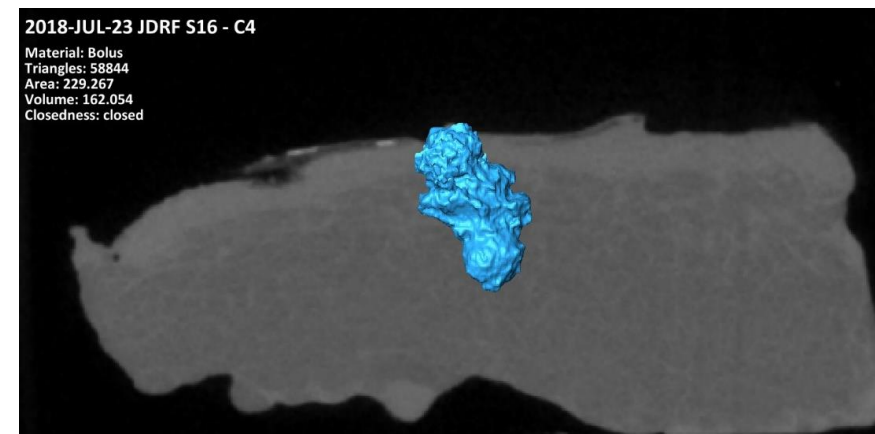
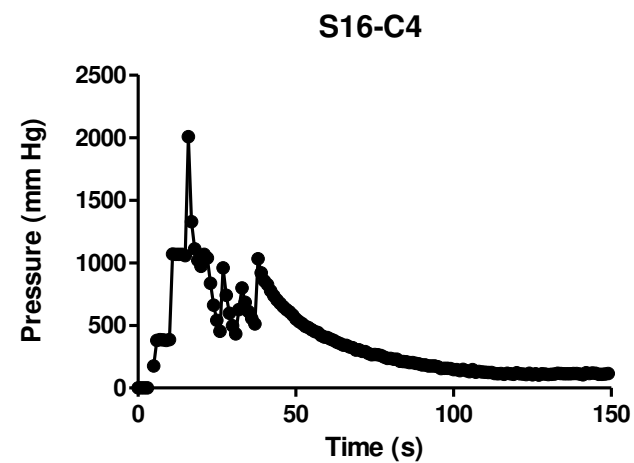
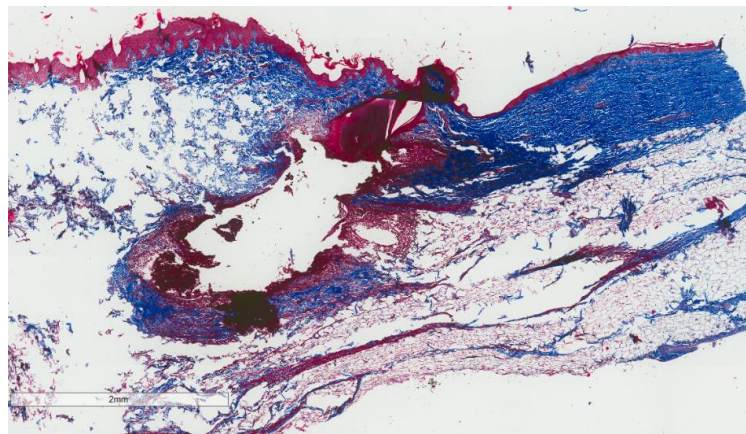
30°, Swine S16, 10 Days

Note: kinked cannula

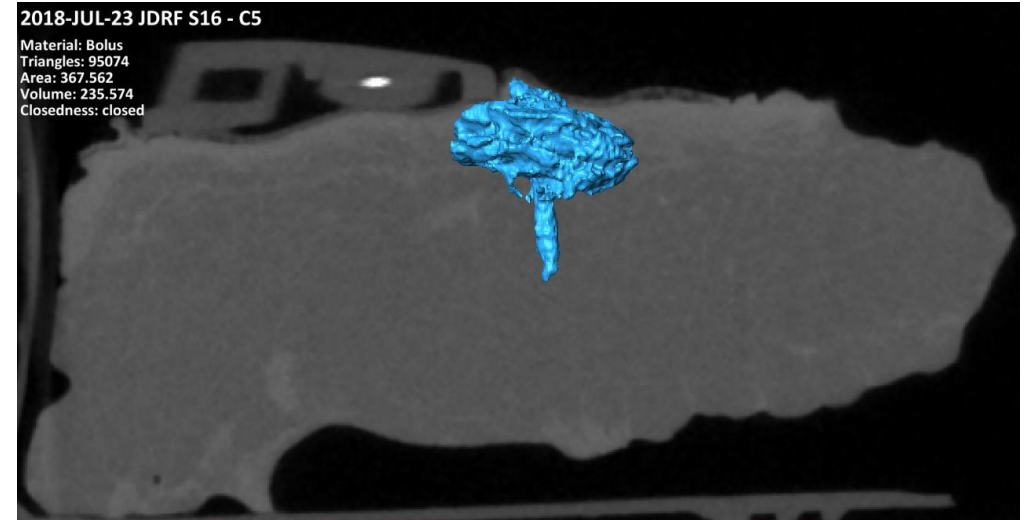
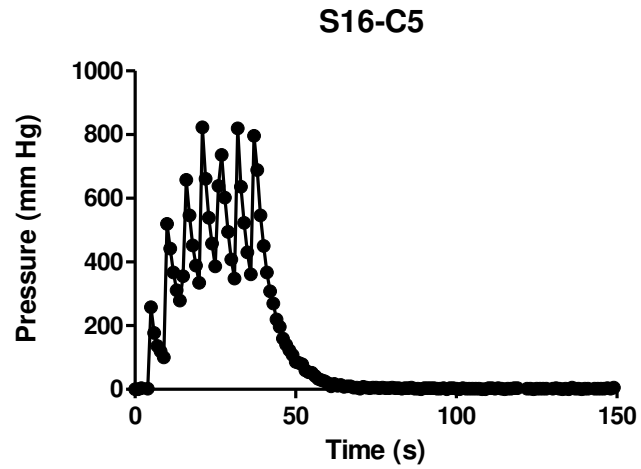
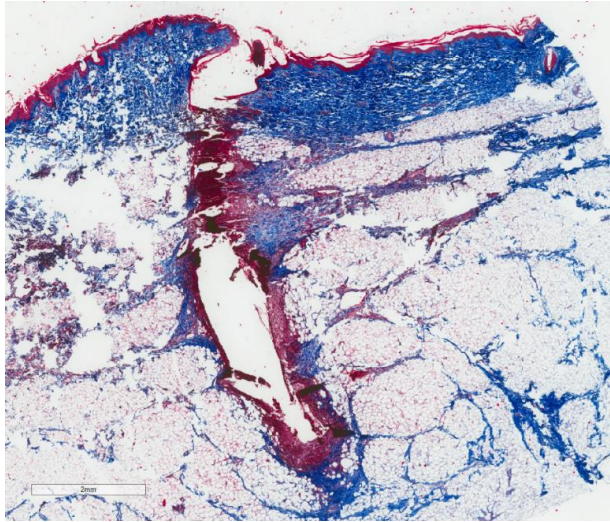


30°, Swine S16, 8 Days

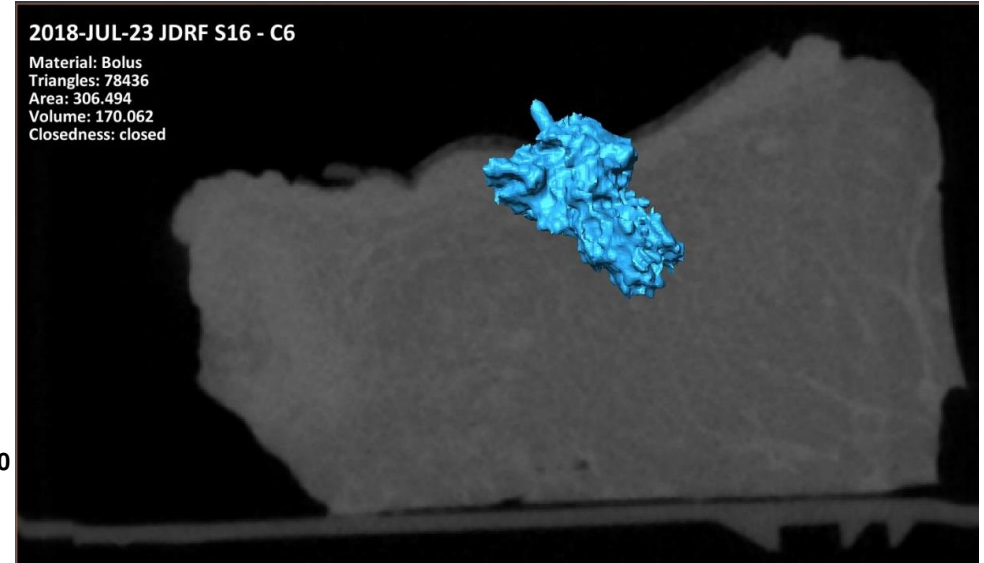
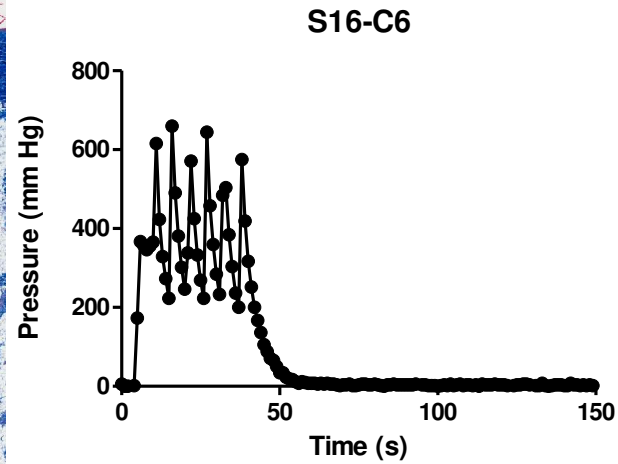
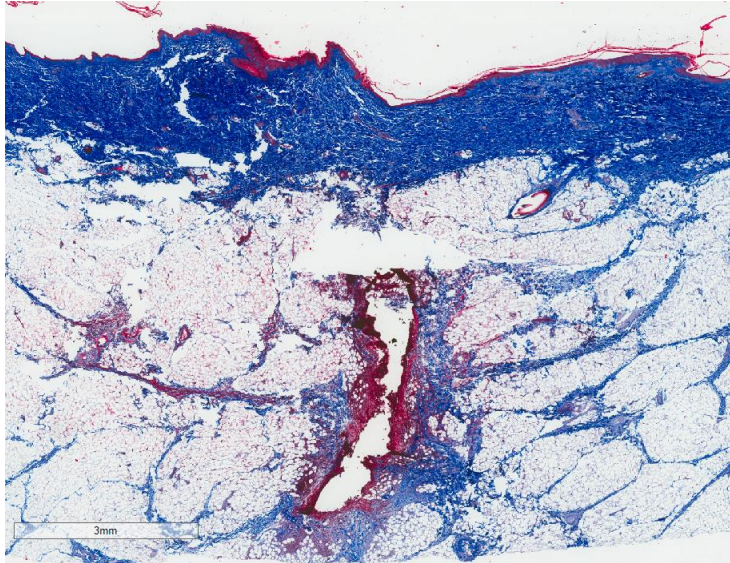
Note: leak



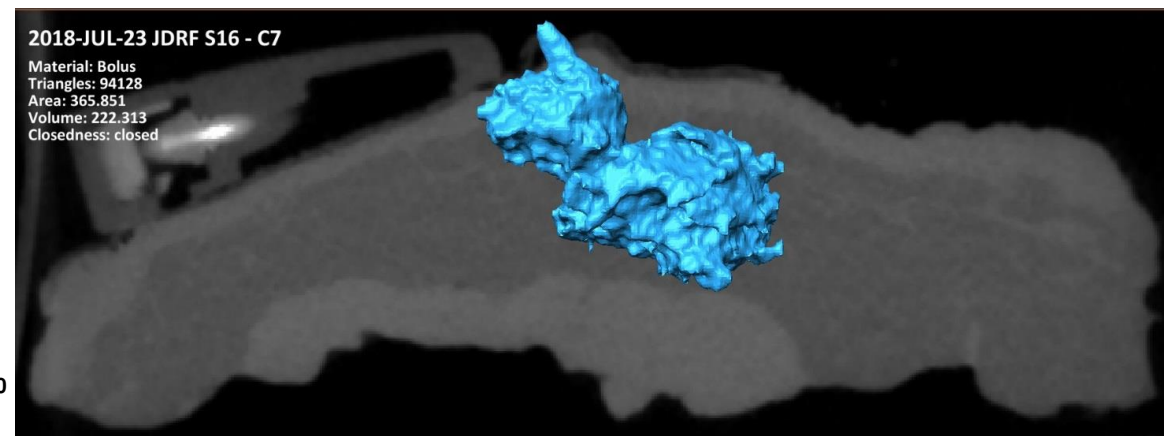
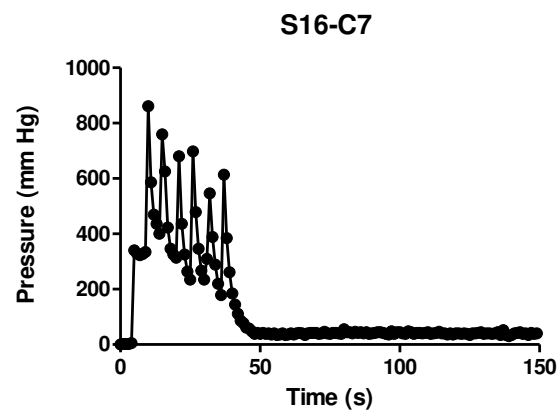
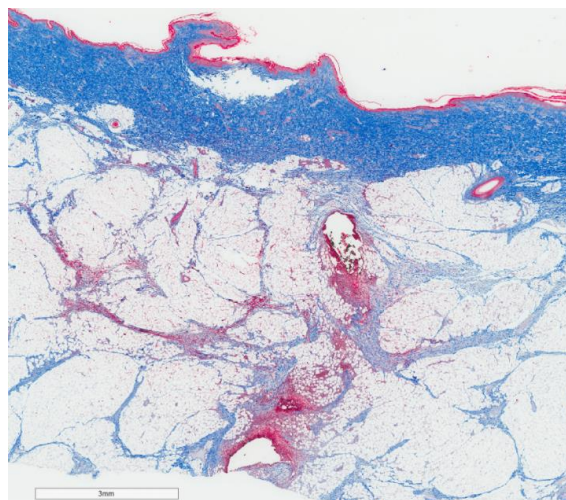
30°, Swine S16, 6 Days



30°, Swine S16, 4 Days

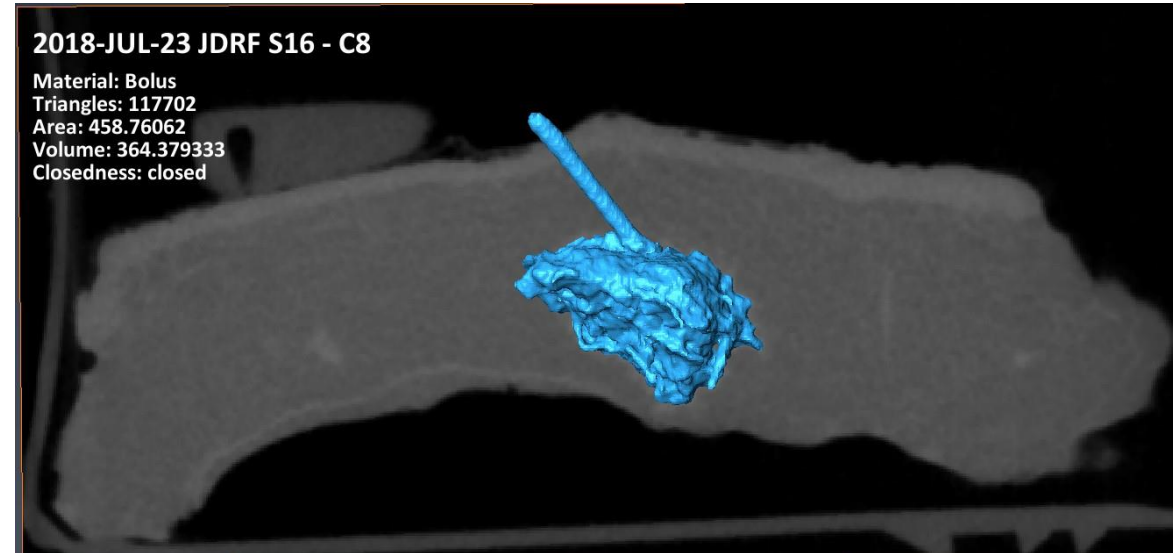
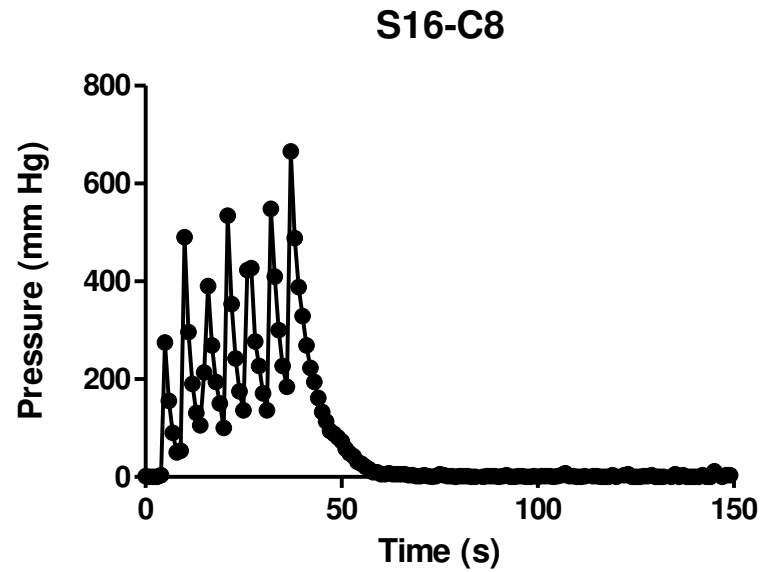


30°, Swine S16, 2 Days

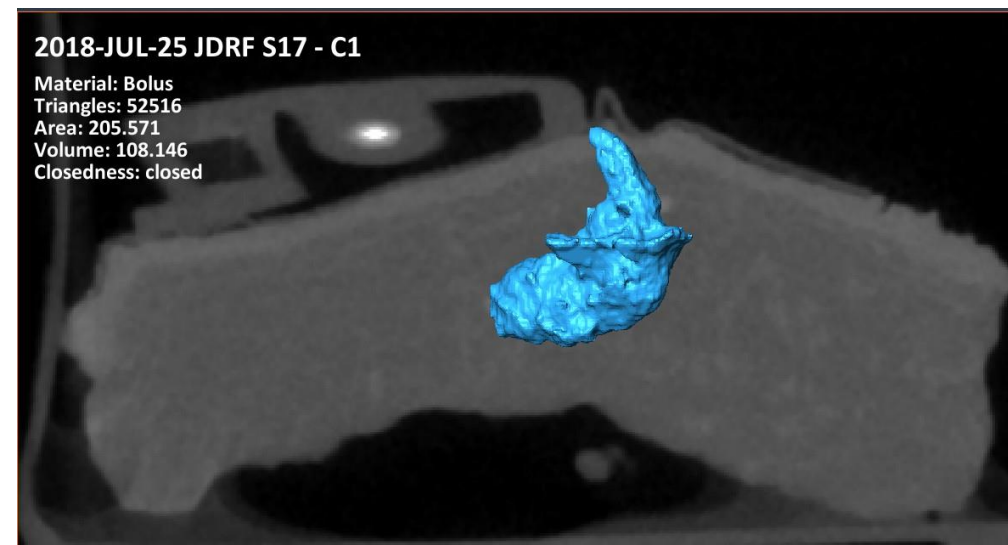
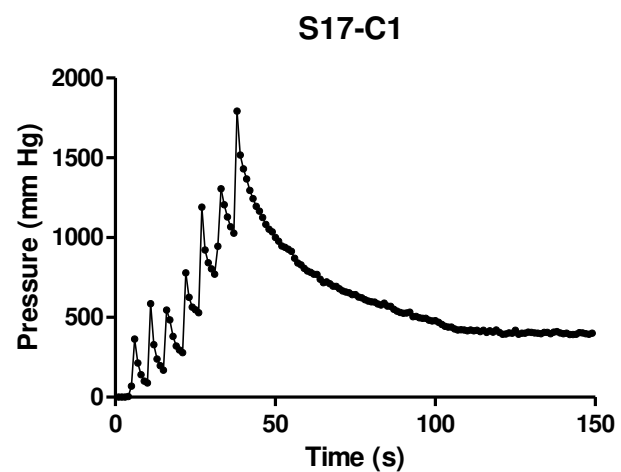
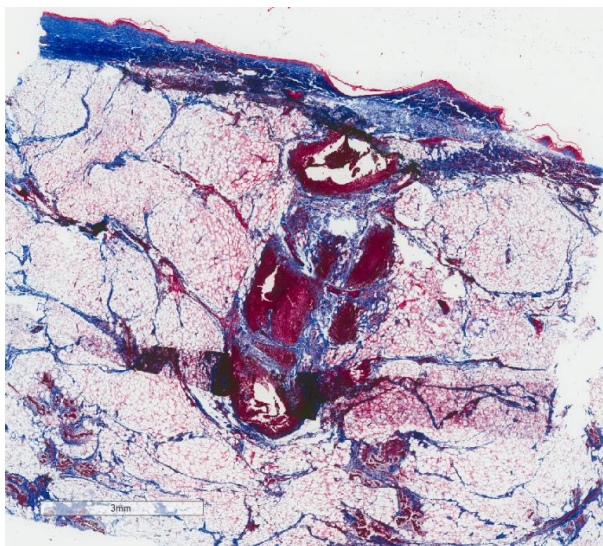


Note: kinked cannula

30°, Swine S16, 0 Days

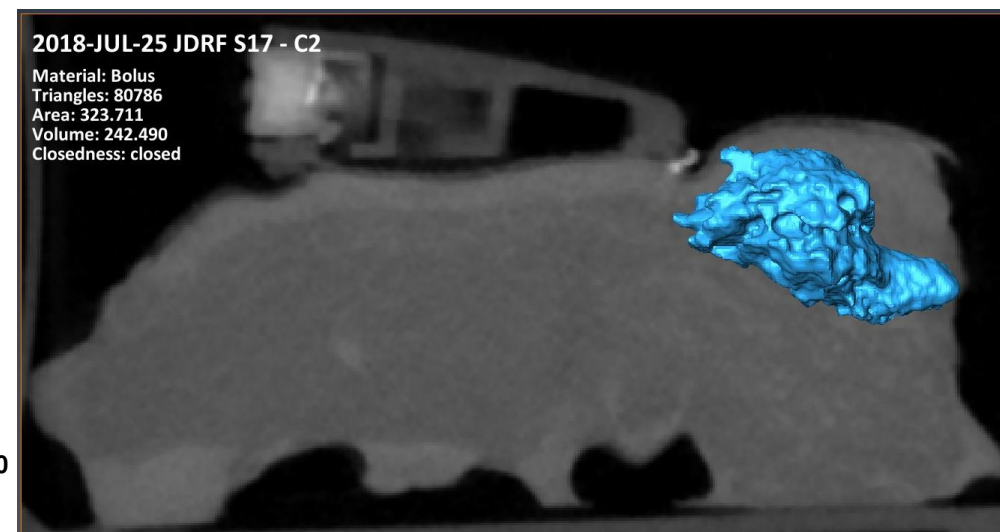
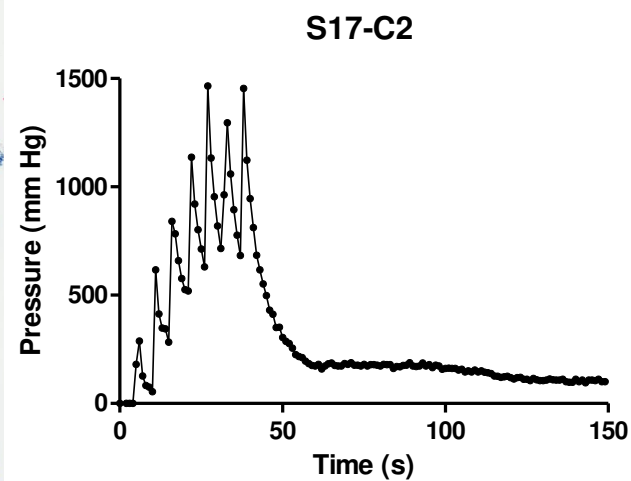
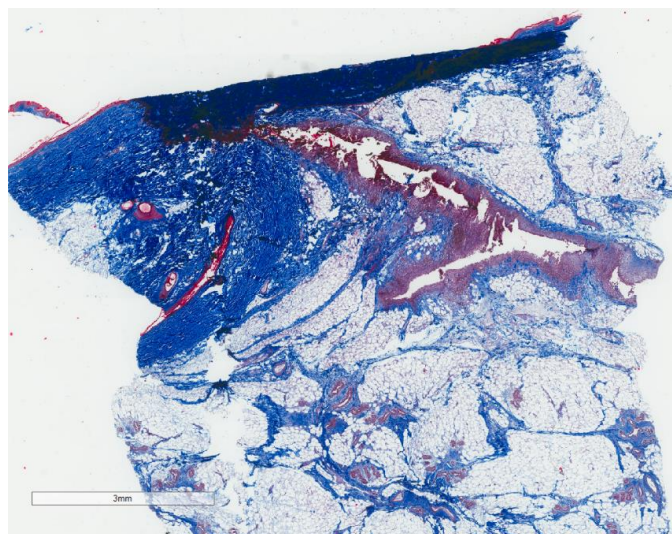


30°, Swine S17, 14 Days



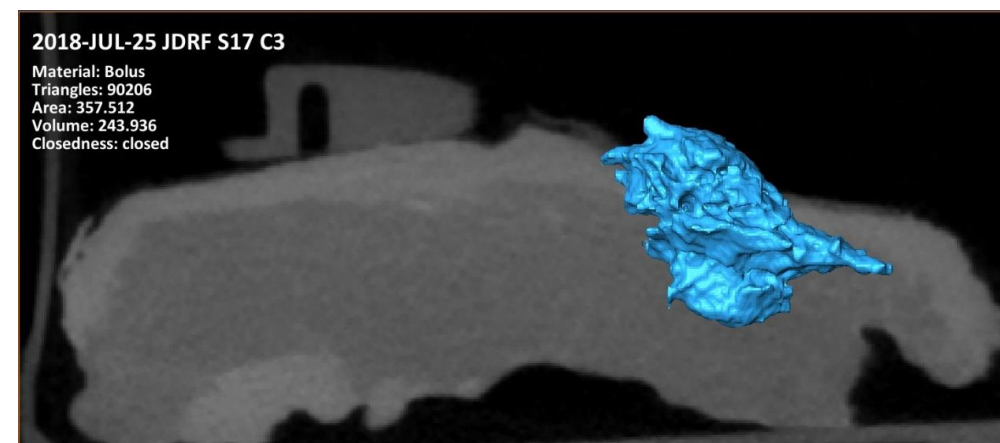
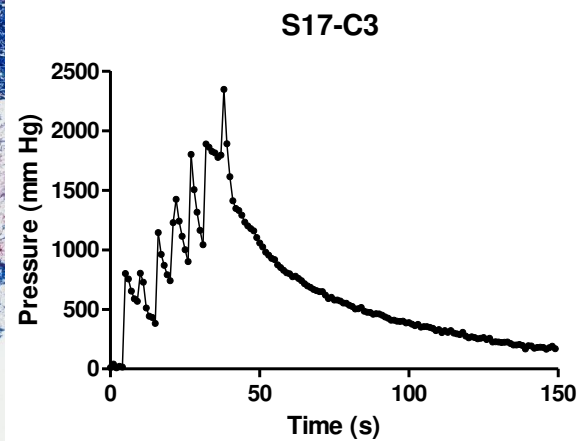
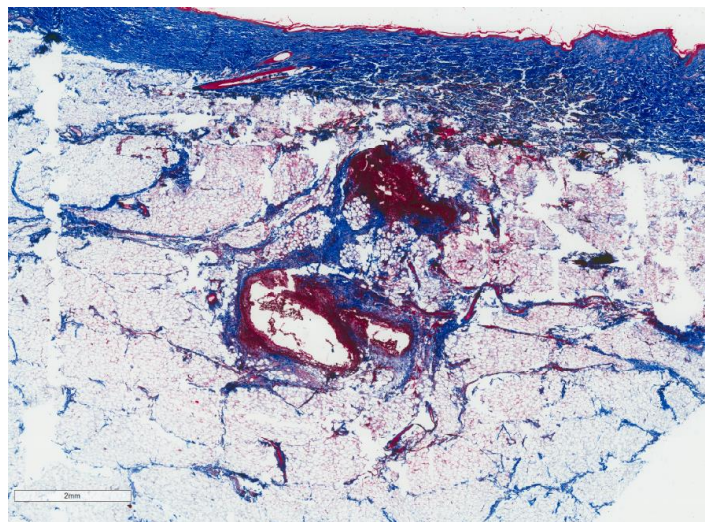
Note: kinked cannula

30°, Swine S17, 12 Days



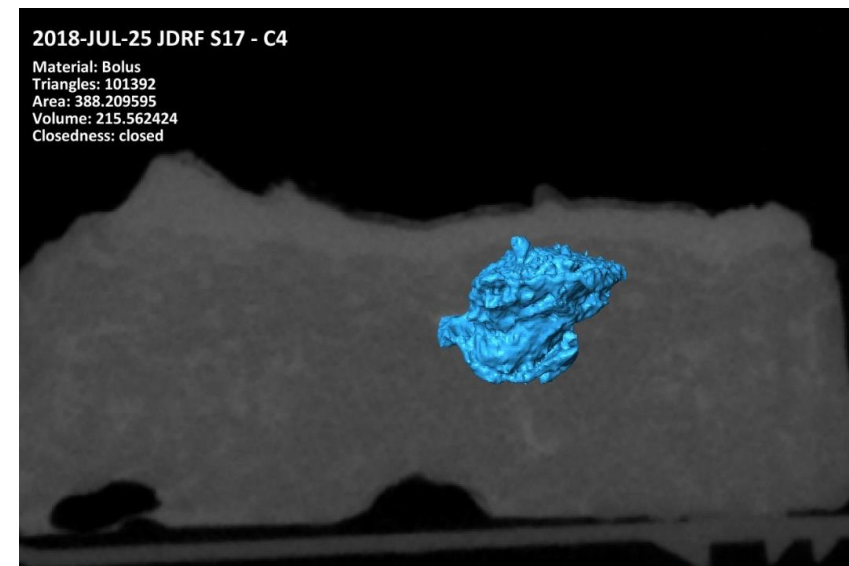
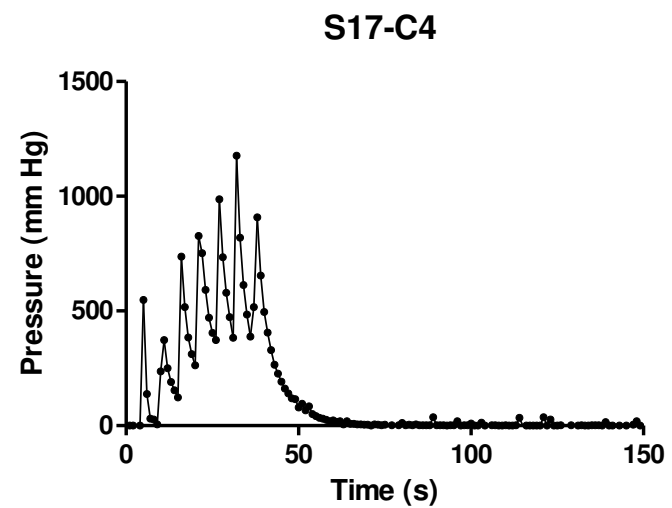
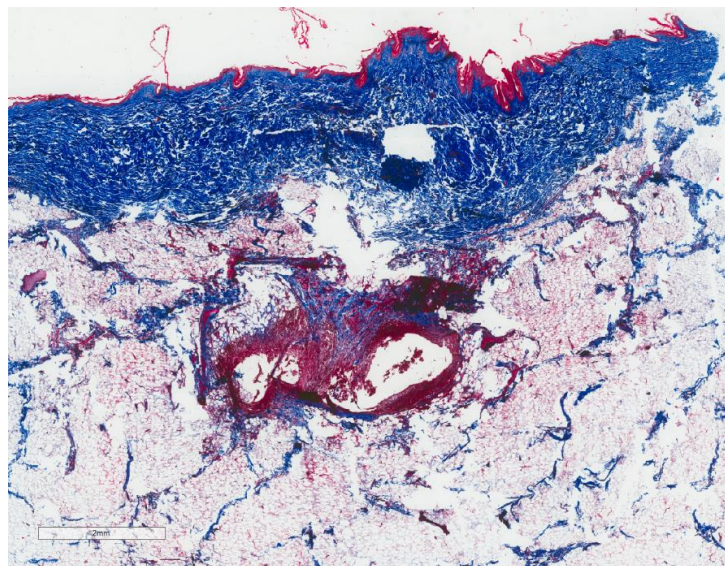
30°, Swine S17, 10 Days

Note: kinked cannula

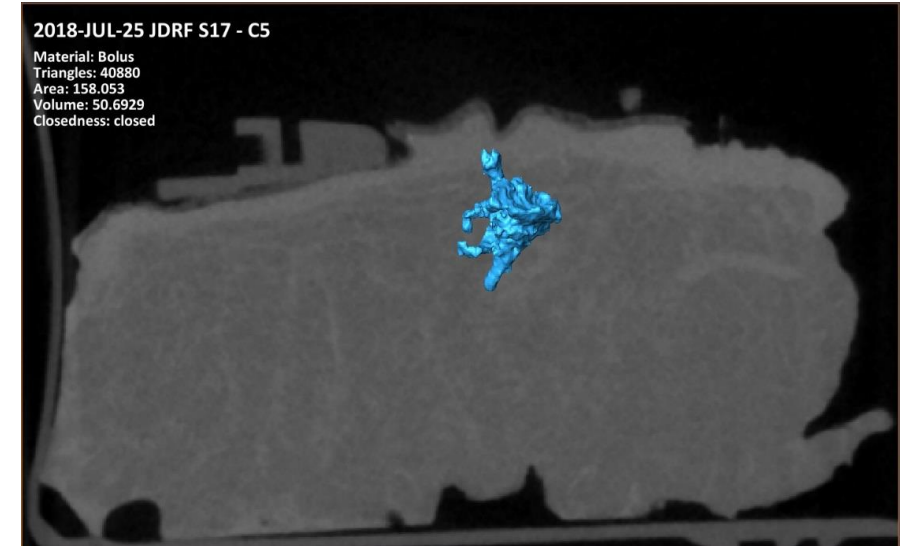
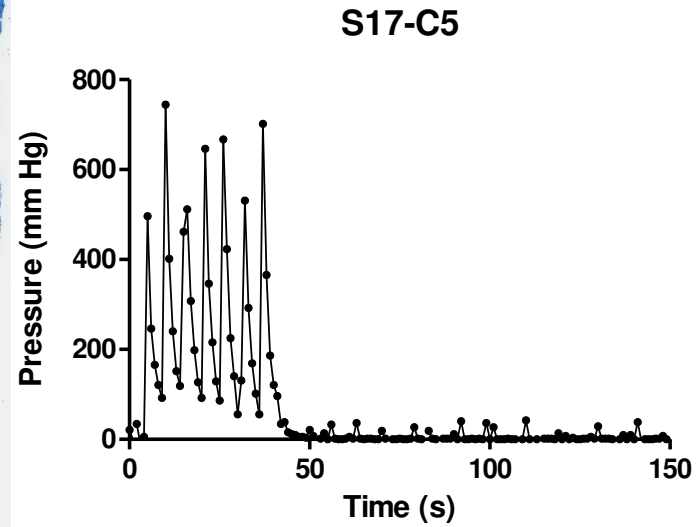
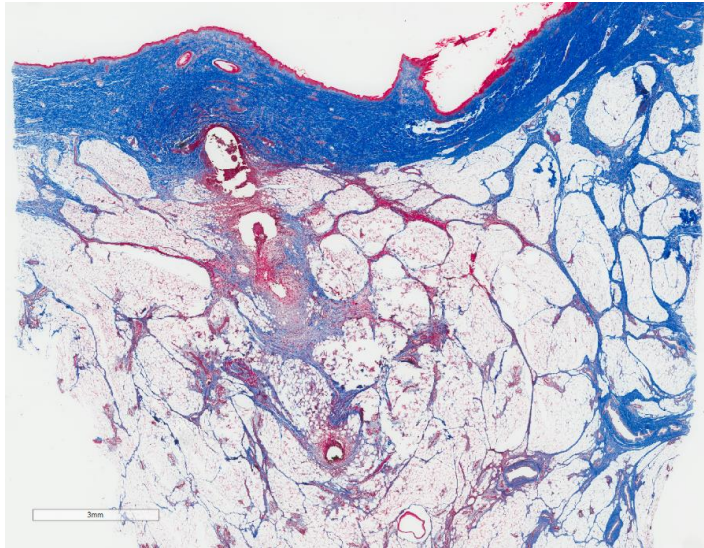


30°, Swine S17, 8 Days

Note: kinked cannula



30°, Swine S17, 6 Days

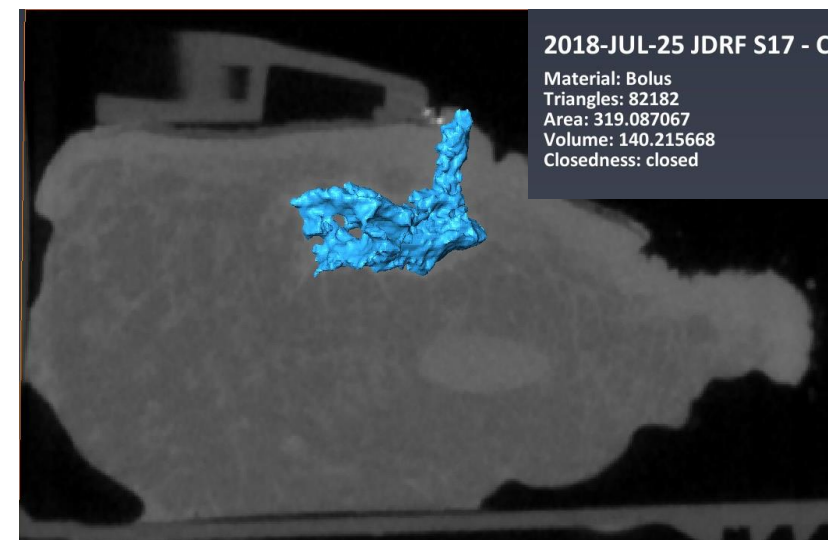
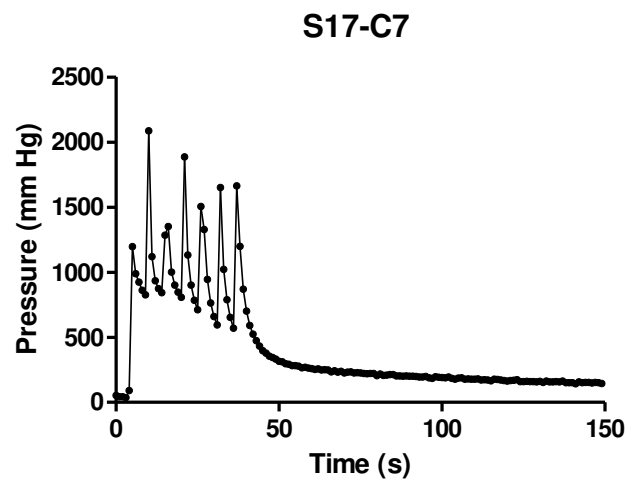
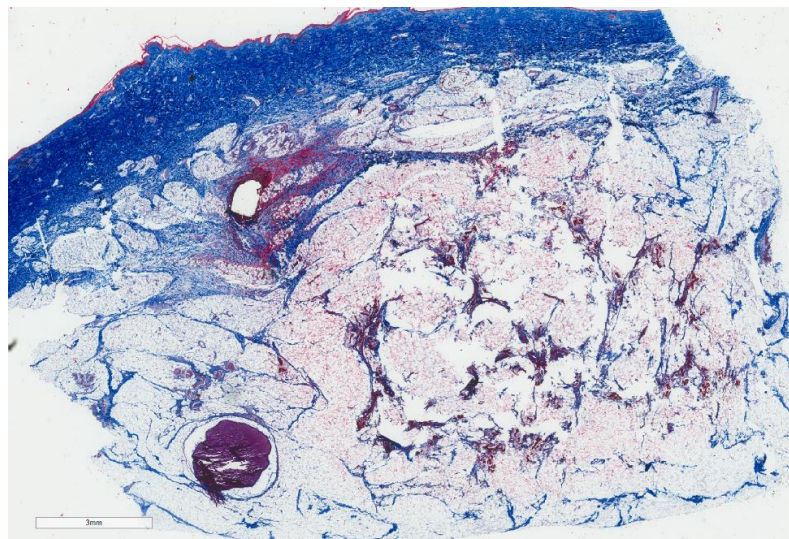


Note: kinked cannula
<70 μL in tissue (50.7 μL)

30°, Swine S17, 4 Days

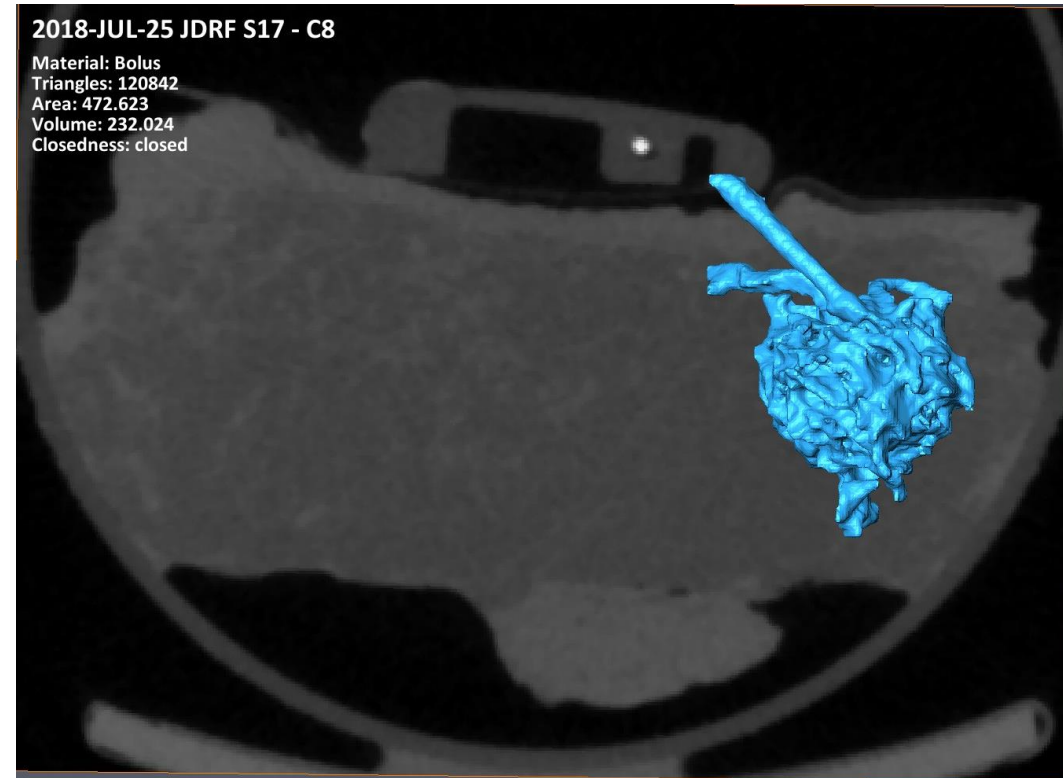
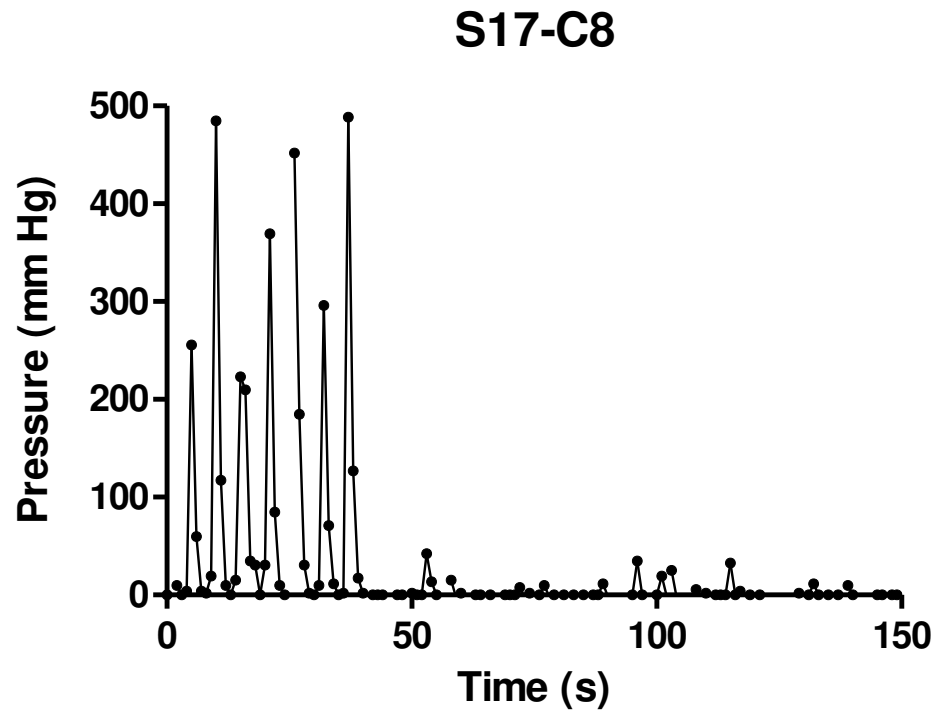
Removed, no data

30°, Swine S17, 2 Days

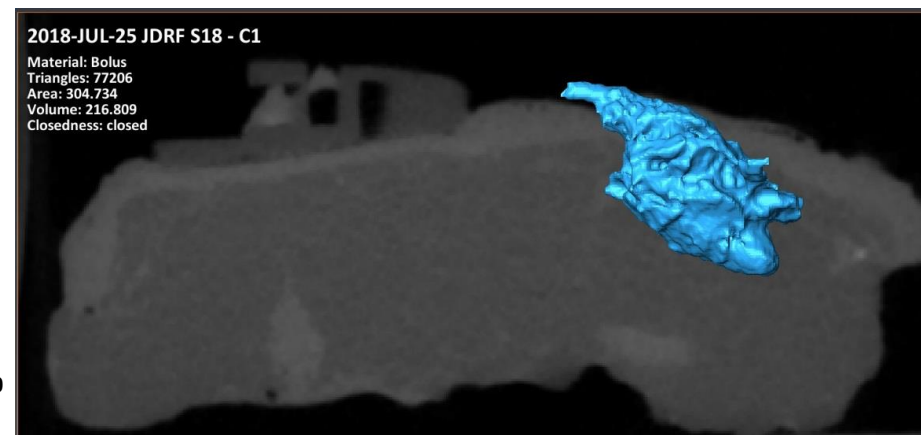
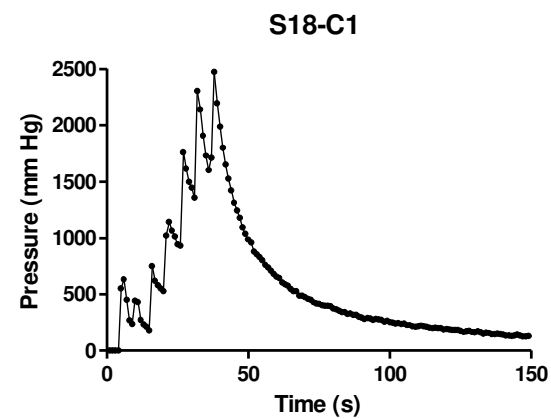
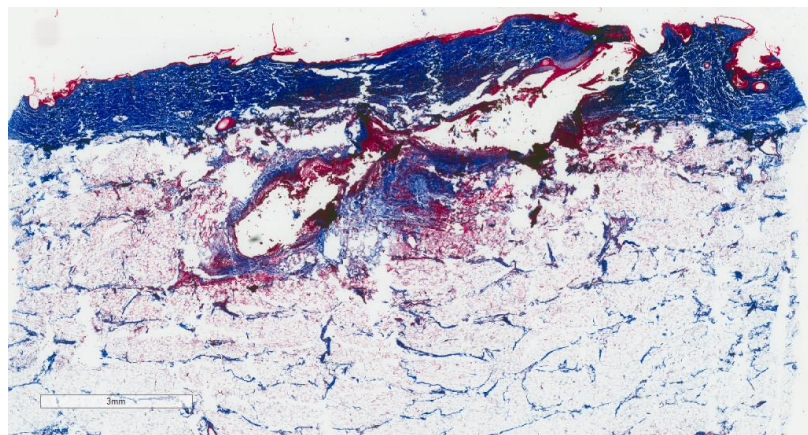


Note: kinked cannula
pump occlusion alarm

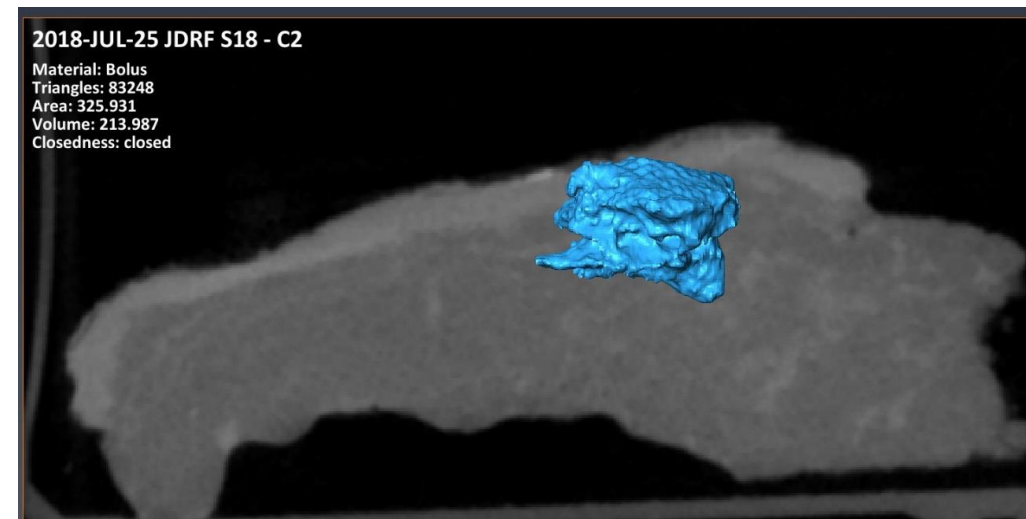
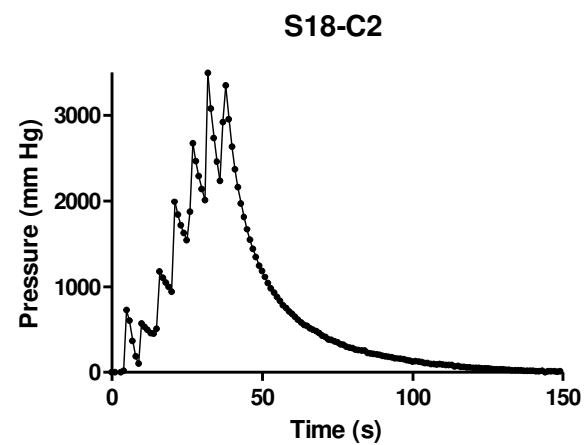
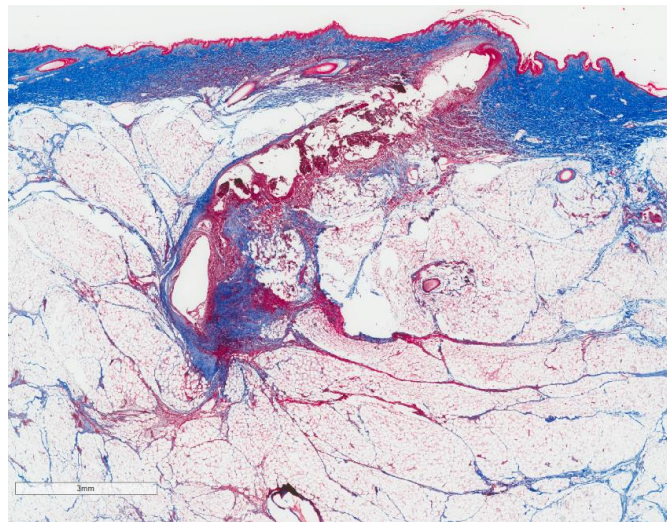
30°, Swine S17, Freshly Inserted (Day 1)



30°, Swine S18, 14 Days

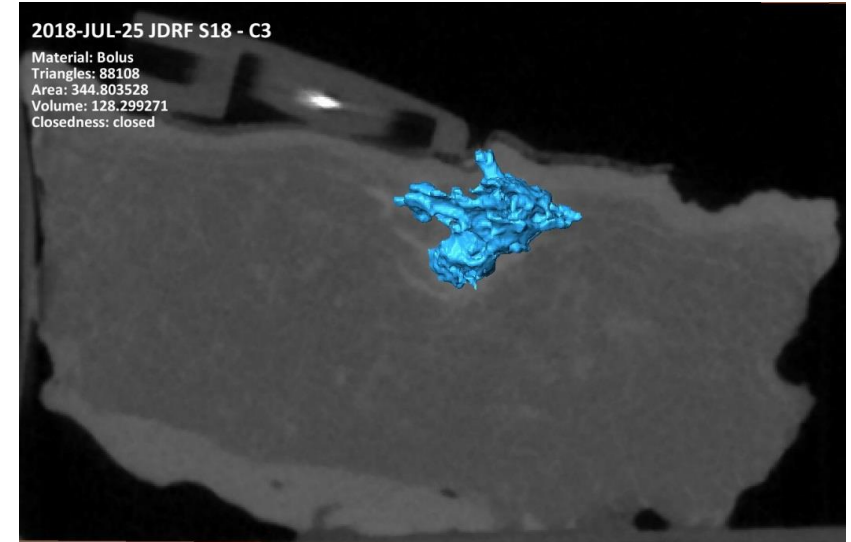
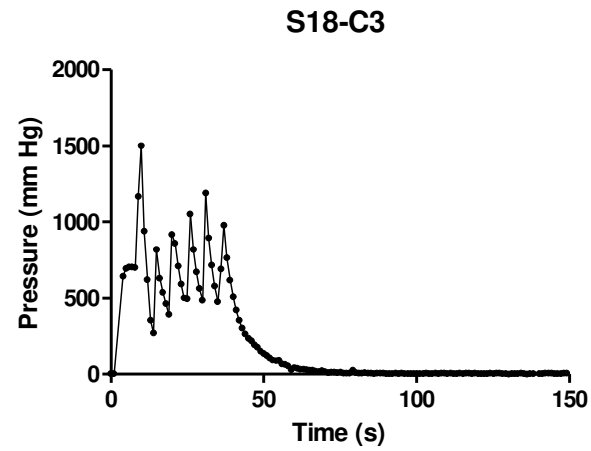
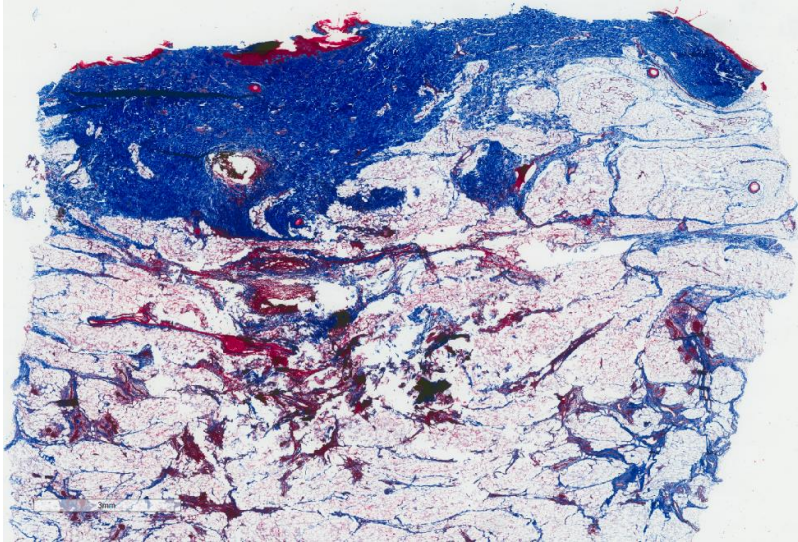


30°, Swine S18, 12 Days

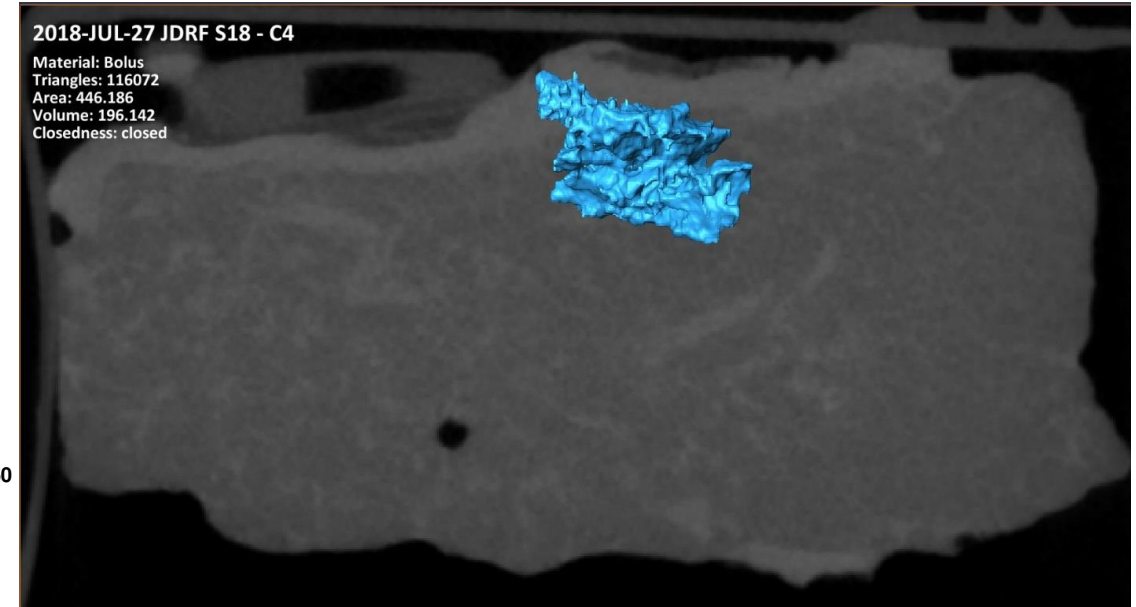
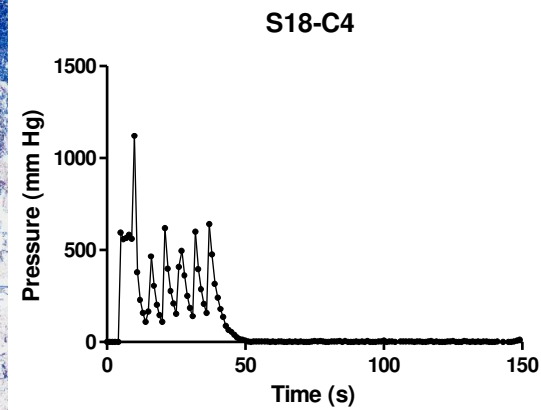
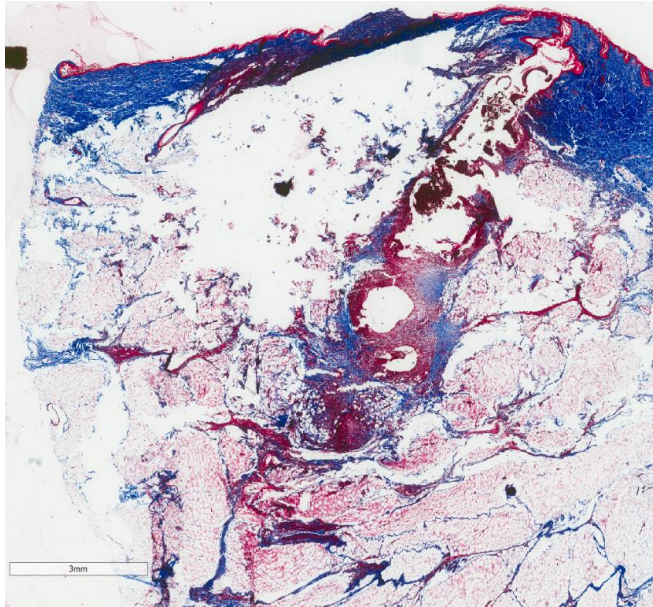


Note: kinked cannula

30°, Swine S18, 10 Days

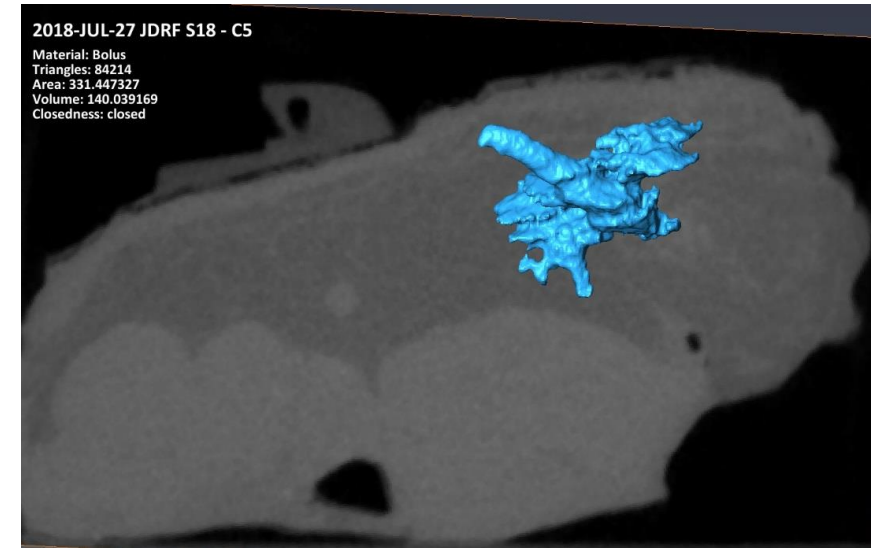
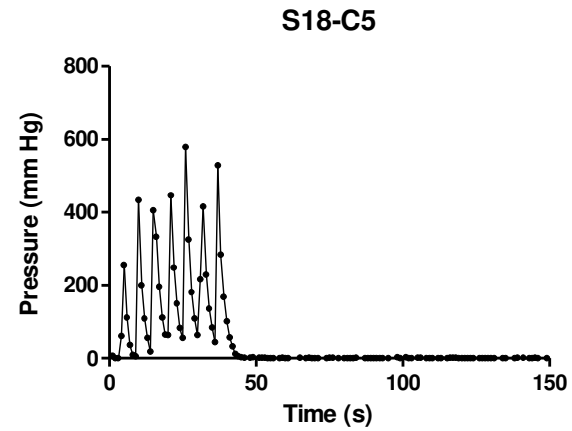
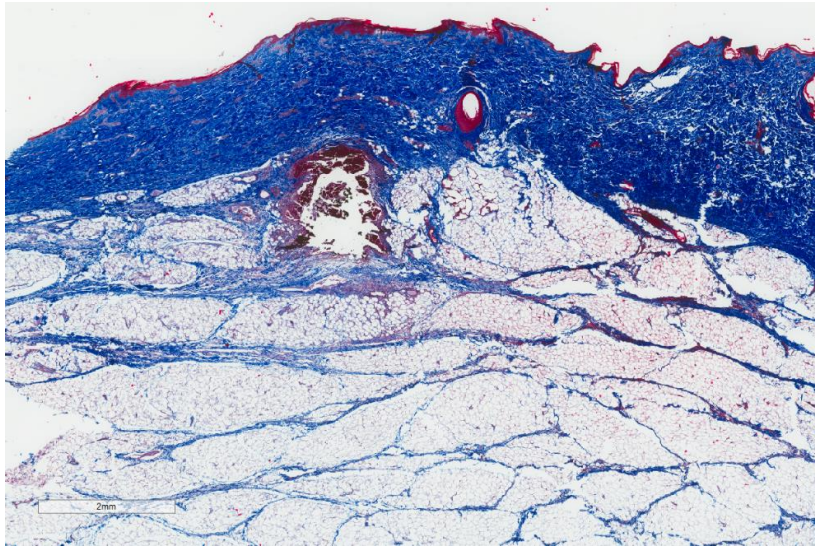


30°, Swine S18, 8 Days

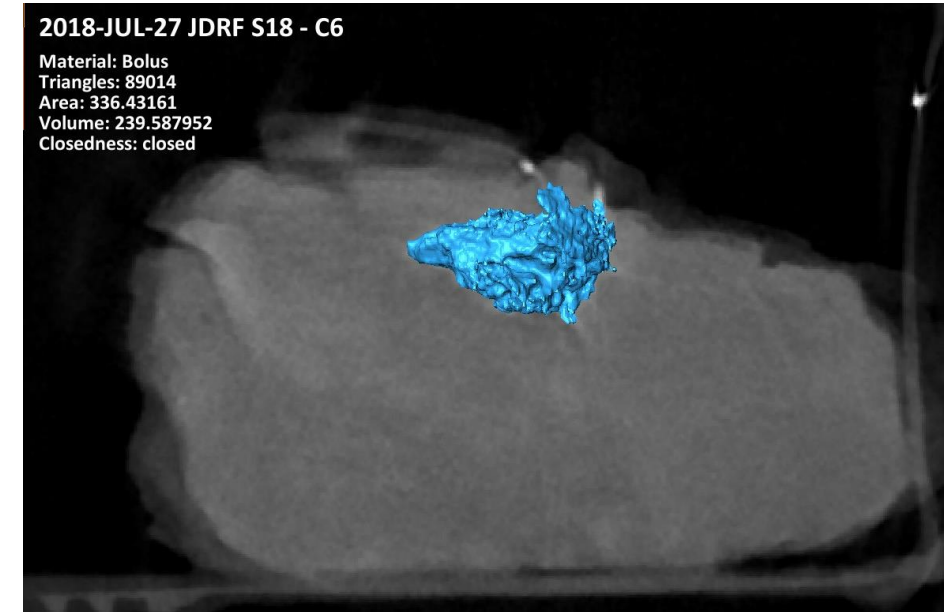
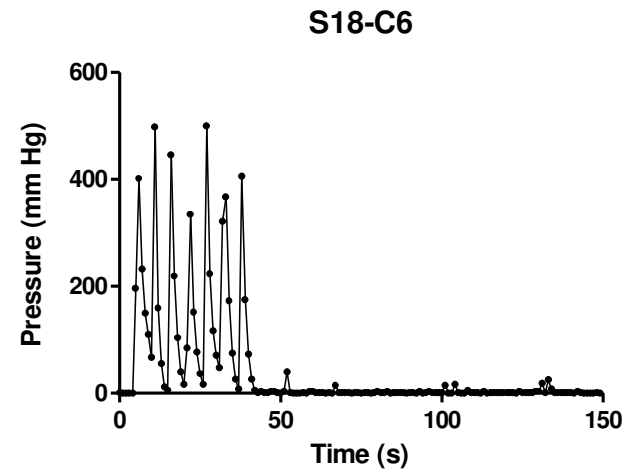
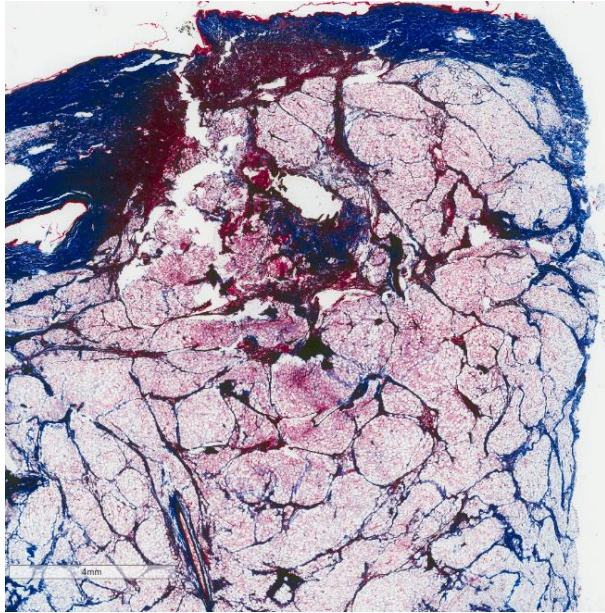


Note: kinked cannula

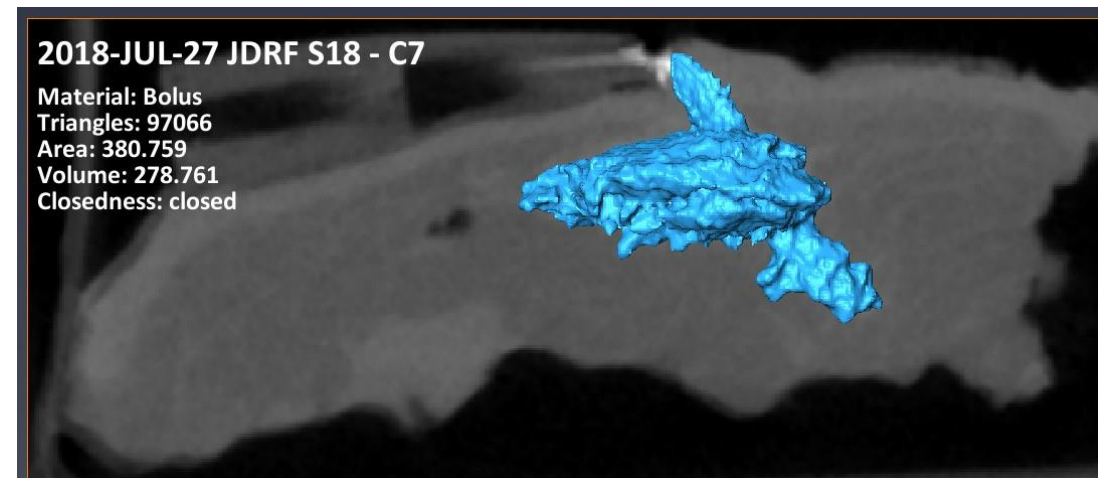
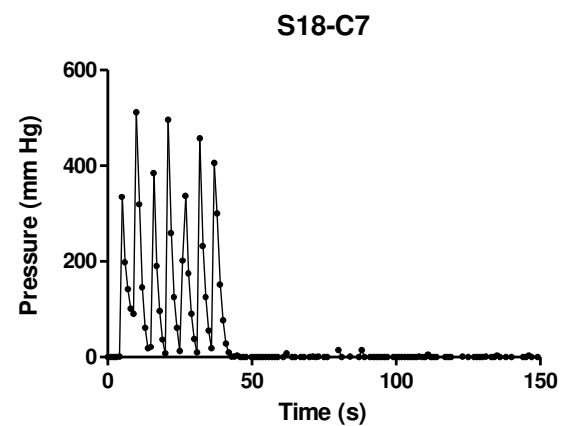
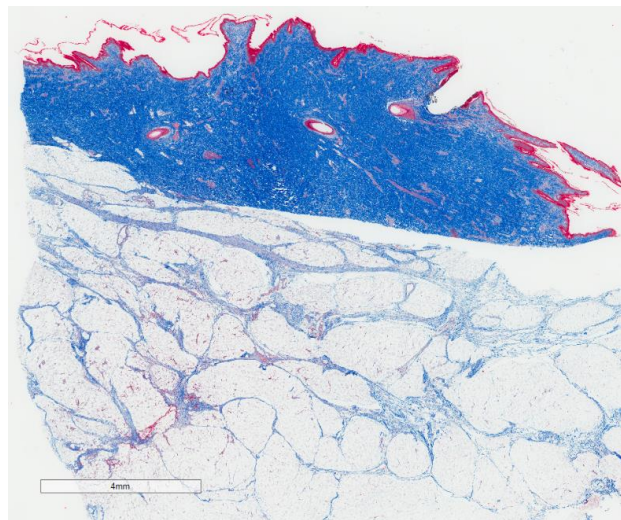
30°, Swine S18, 6 Days



30°, Swine S18, 4 Days



30°, Swine S18, 2 Days



30°, Swine S18, Freshly Inserted (Day 1)

