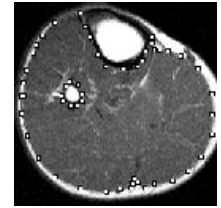


Astro Calves

Analyzing the effect of extended space flight on muscle mass



1. Which leg and which slices did you use? Use the tables below to record your results.

Note that following normal conventions in radiology, the left leg is the one on the right in the image and the right leg is on the left. The areas below are approximate; your values should be within 2.5%.

PRE-FLIGHT		
Slice No.	Right Leg Average Area (sq. mm.)	Left Leg Average Area (sq. mm.)
1	7820	7020
2	8310	7390
3	8780	7890
4	8960	8230
5	9040	8360
6	8890	8310
7	8660	8180
8	8210	8040
Average	8580	7930

POST-FLIGHT		
Slice No.	Right Leg Average Area (sq. mm.)	Left Leg Average Area (sq. mm.)
1	6170	5780
2	6620	6240
3	7430	6740
4	7770	7230
5	8200	7450
6	8260	7550
7	8280	7580
8	8040	7470
Average	7600	7010

2. *Did you detect an increase or decrease in muscle area from the pre-flight images to post-flight?*

The area of calf muscle [decreased] from the pre-flight images to the post-flight set.

3. *What was the size of this increase/decrease? Give your answer as a percent change in area.*

The size of the decrease was 11.6% for the left leg and 11.4% for the right leg. There was an overall decrease of 11.5% for the two legs combined. These percentage decreases were calculated with all 8 slices; you may have a slightly different value for the size of the decrease depending on which slices you used, but it should be similar.