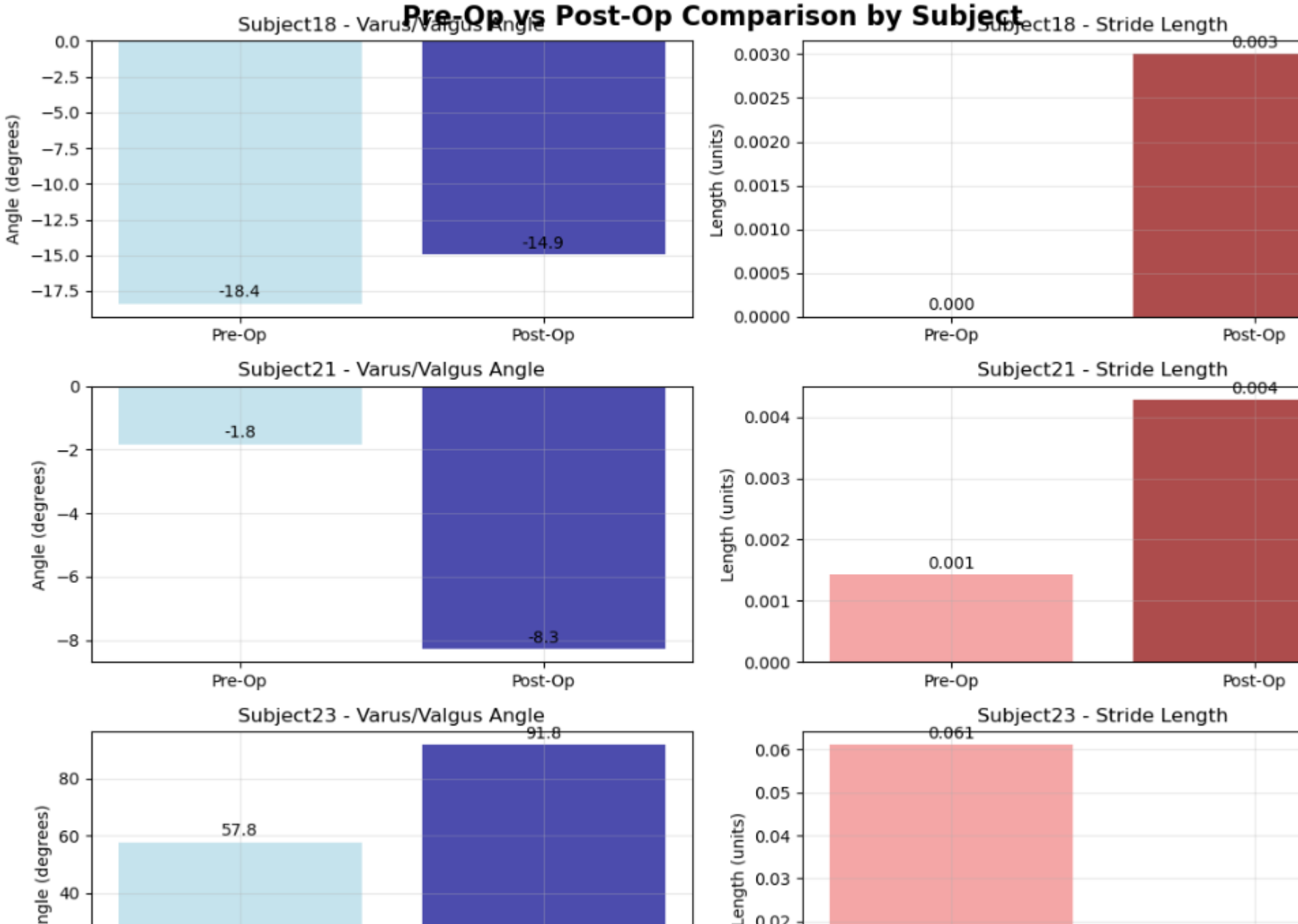
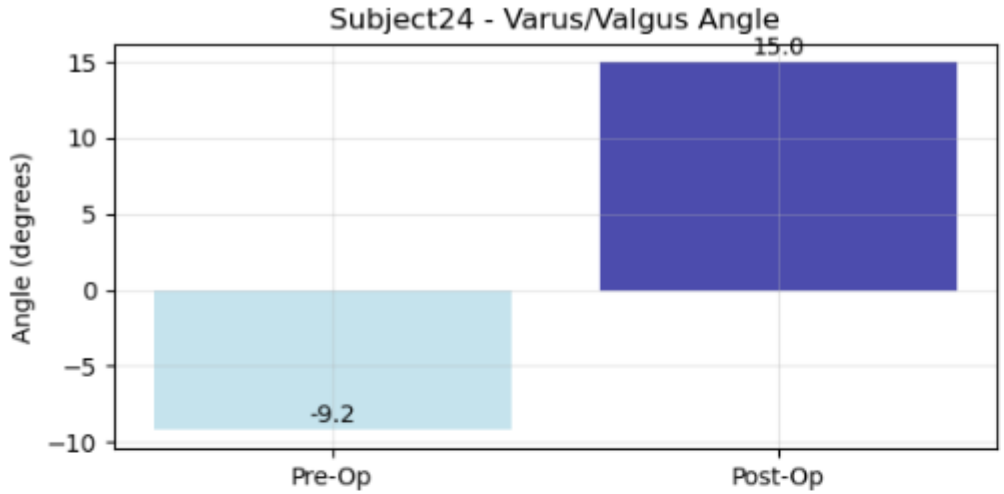
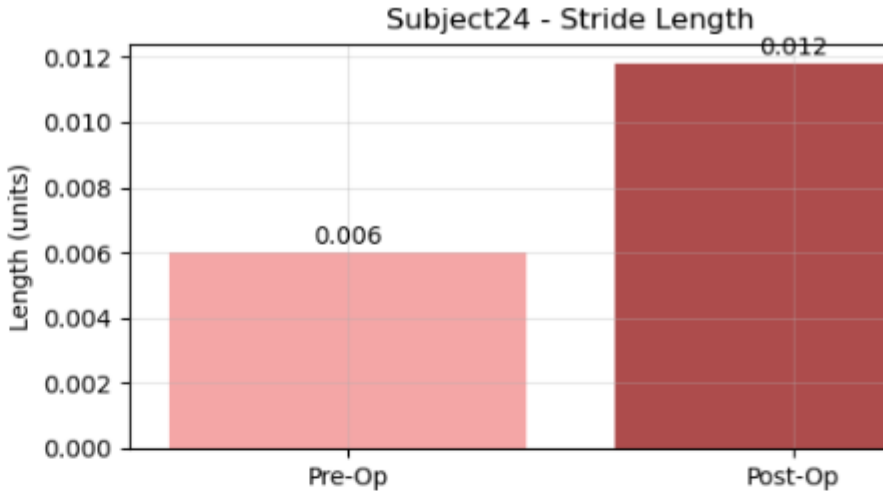
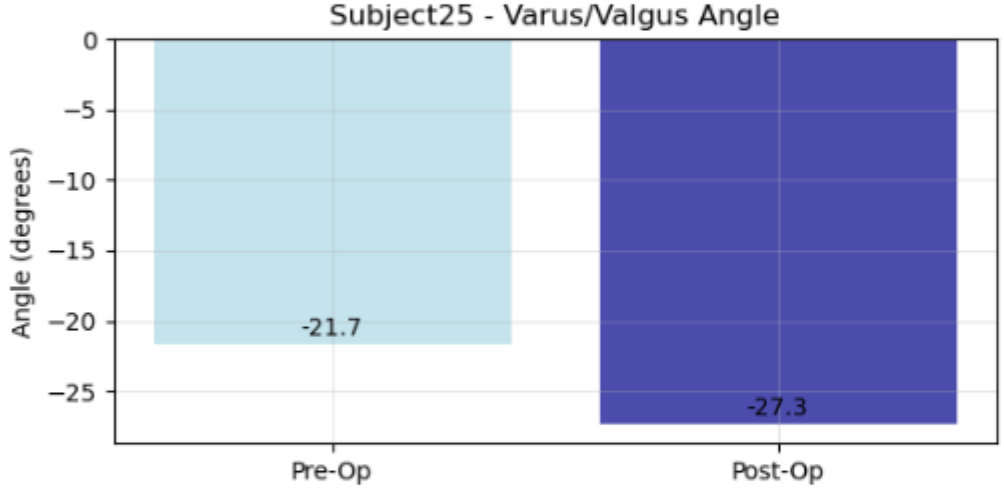
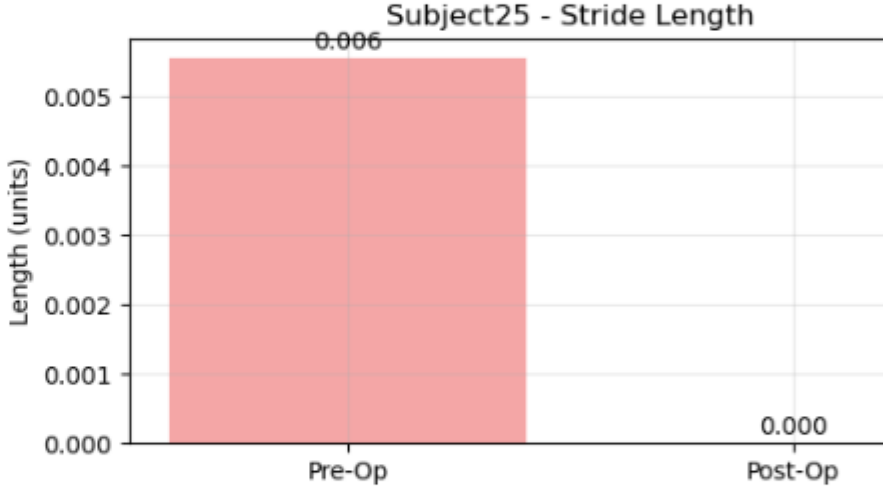
Hip Pre and Post Op Differences

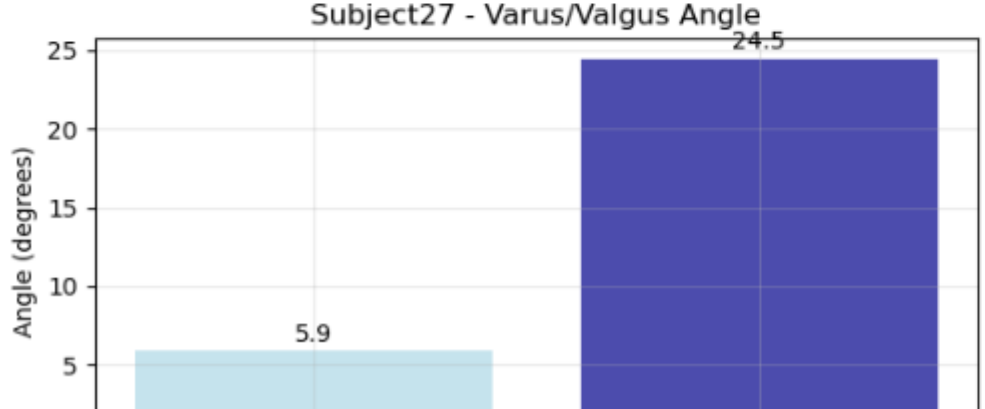

Pre-Op vs Post-Op Comparison by Subject
Subject18 - Varus/Valgus Angle
Angle (degrees)
0.0
−2.5
−5.0
−7.5
−10.0
−12.5
−15.0
−17.5
-18.4
-14.9
Pre-Op
Post-Op
Subject18 - Stride Length
Length (units)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0.000
0.003
Pre-Op
Post-Op
Subject21 - Varus/Valgus Angle
Angle (degrees)
0
−2
−4
−6
−8
-1.8
-8.3
Pre-Op
Post-Op
Subject21 - Stride Length
Length (units)
0.004
0.003
0.002
0.001
0.000
0.001
0.004
Pre-Op
Post-Op
Subject23 - Varus/Valgus Angle
Angle (degrees)
80
60
40
57.8
91.8
Subject23 - Stride Length
Length (units)
0.06
0.05
0.04
0.03
0.02
0.061

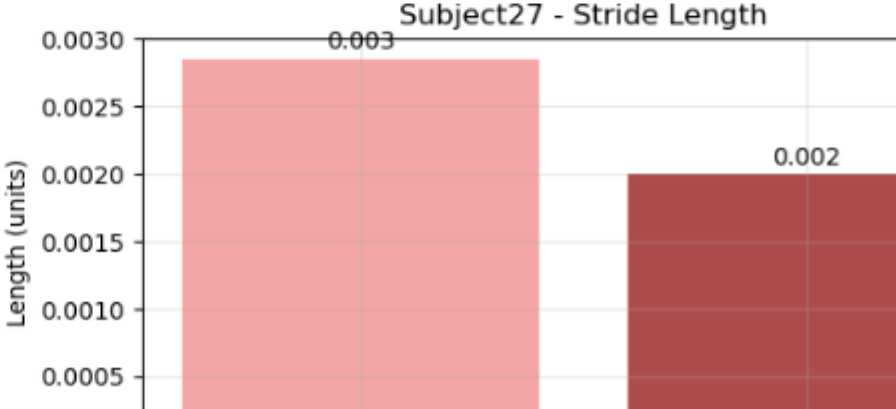

Subject24 - Varus/Valgus Angle
Angle (degrees)
15.0
-9.2
Pre-Op
Post-Op

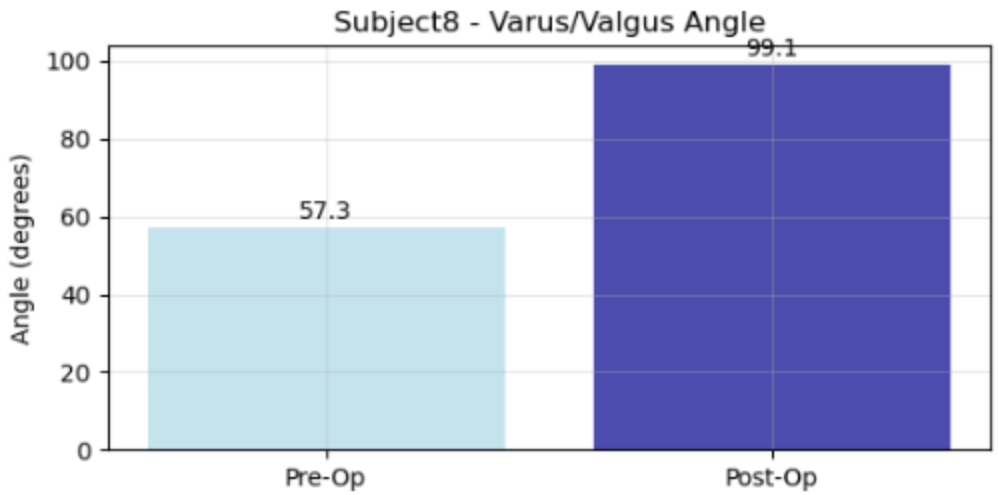

Subject24 - Stride Length
Length (units)
0.012
0.006
Pre-Op
Post-Op

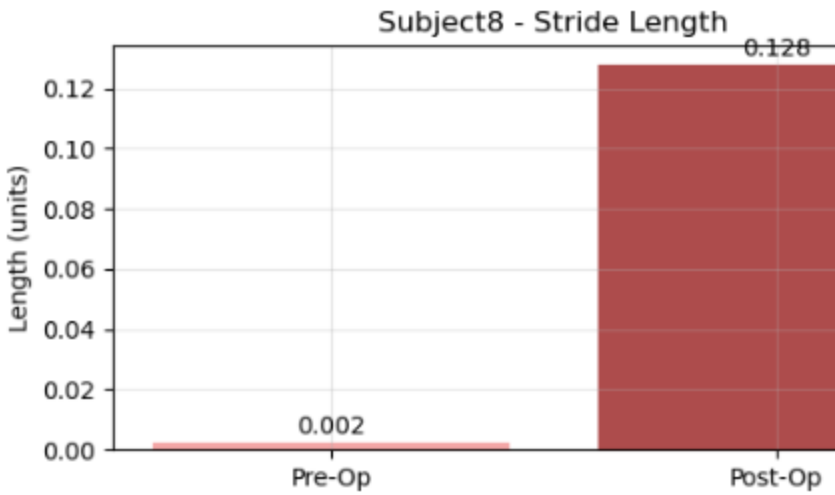

Subject25 - Varus/Valgus Angle
Angle (degrees)
-21.7
-27.3
Pre-Op
Post-Op


Subject25 - Stride Length
Length (units)
0.006
0.000
Pre-Op
Post-Op


Subject27 - Varus/Valgus Angle
Angle (degrees)
24.5
5.9


Subject27 - Stride Length
Length (units)
0.003
0.002





The visualization shows:

- **7 subjects** with both pre-operative and post-operative data
- **Varus/Valgus Angle changes**: Most subjects show notable differences between pre and post-op measurements
- **Stride Length changes**: Generally small values with some subjects showing improvements post-operatively

Key findings:

- Subject23 and Subject8 show the largest Varus/Valgus angle values
- Subject24 shows a significant improvement (reduction in negative angle) post-operatively
- Stride length measurements are generally small, with Subject8 showing the most notable change

Average Differences

SUMMARY STATISTICS:

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VarusValgus Differences:

Mean: 15.70 degrees

Std: 19.12 degrees

Min: -6.46 degrees

Max: 41.78 degrees

Stride Length Differences:

Mean: 0.0100 units

Std: 0.0561 units

Min: -0.0611 units

Max: 0.1256 units

The analysis shows significant changes from pre-operative to post-operative measurements:

Key Findings:

Varus/Valgus Angle: On average, there was an increase of **15.70 degrees** post-operatively, but with high variability (standard deviation of 19.12 degrees). Individual responses varied dramatically:

- Subject8 showed the largest increase (+41.78 degrees)
- Subject21 actually improved with a decrease (-6.46 degrees)
- Subject25 also showed improvement (-5.64 degrees)

Stride Length: There was a modest average increase of **0.0100 units** post-operatively:

- Subject8 showed the largest improvement (+0.1256 units)
- Subject23 showed a decrease (-0.0611 units)
- Most other subjects showed small positive changes

The results suggest mixed outcomes, with some subjects showing significant improvements while others may have experienced complications or are still in recovery phases. The high variability indicates that individual patient responses to the surgical intervention varied considerably.