



## Reverse Total Shoulder Arthroplasty (rTSA) Virtual Implant Positioning™ (VIP) Preoperative Planning System vs rTSA With Arthrex Implants Without Planning

### Purpose

To report the early clinical outcomes of pain, function, and quality of life comparing patients who underwent primary reverse total shoulder arthroplasty (rTSA) with the Unvers Revers™ implant and preoperative planning using the VIP™ system to patients who underwent primary rTSA with Arthrex implants and no planning.

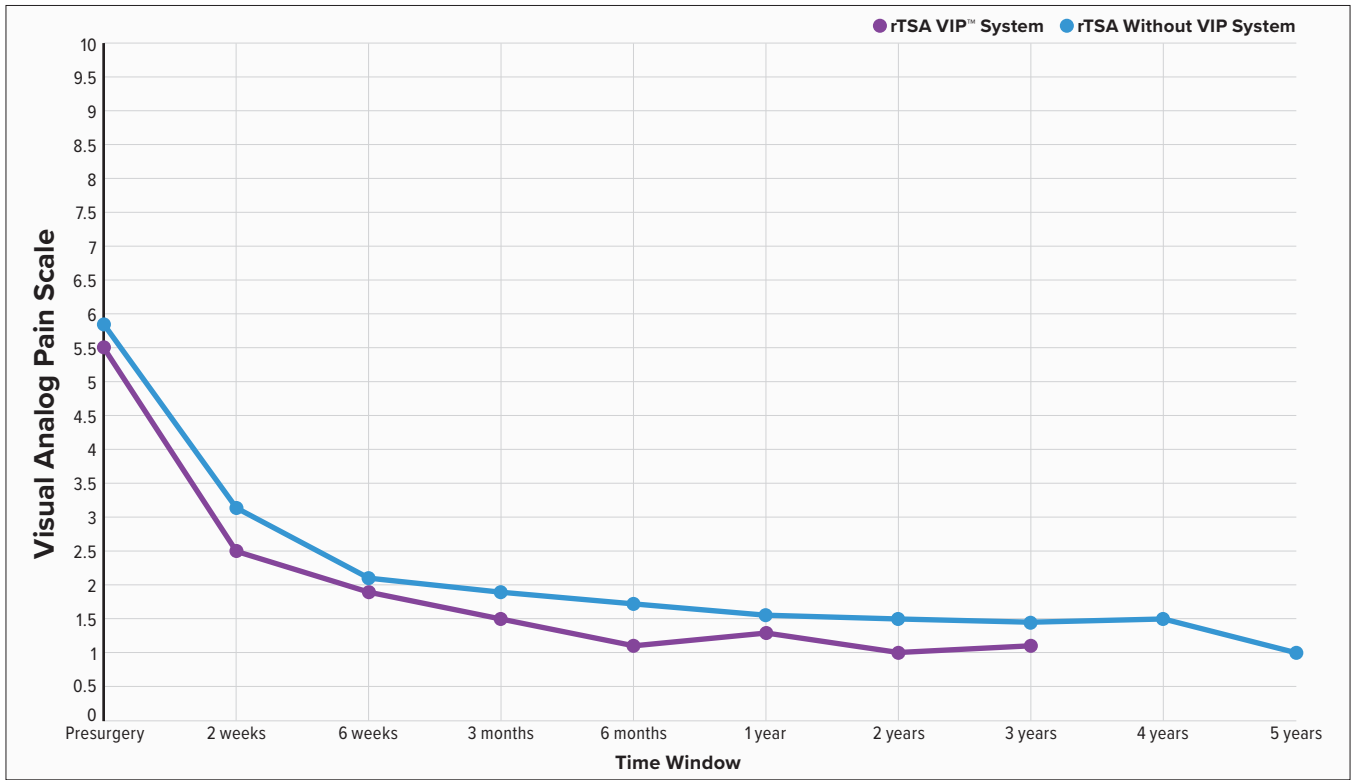
### Methods

Patients enrolled in the Surgical Outcomes System™ global registry who underwent primary (rTSA with the Unvers Revers implant) with preoperative planning using the VIP) system or patients who underwent primary rTSA with Arthrex implants and no planning. Standard patient-reported outcomes questionnaires for VAS, ASES Shoulder Function, and Simple Shoulder Test (SST) were administered at standard time points postoperatively. Results were reported from presurgery to 5 years postsurgery. The number of patients included per time point is shown to the right.

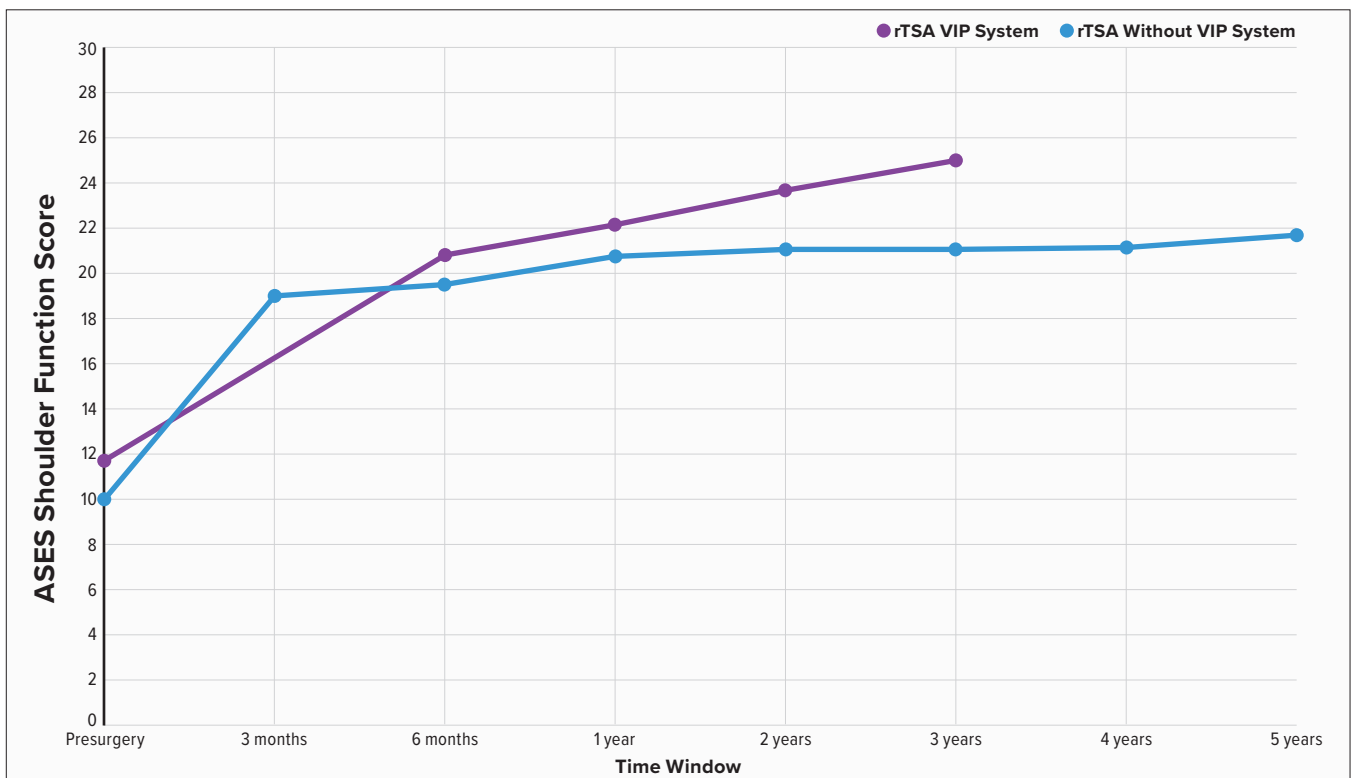
| Time Point | # Compliant rTSA VIP System Patients/<br># Total Patients | # Compliant rTSA No Planning Patients/<br># Total Patients |
|------------|---|--|
| Presurgery | 240/276   | 1203/1499  |
| 1 year     | 125/201   | 714/1208   |
| 2 years    | 56/98   | 439/806  |
| 3 years    | 5/7   | 311/638  |
| 5 years    | N/A   | 66/216   |

### Trend Conclusion

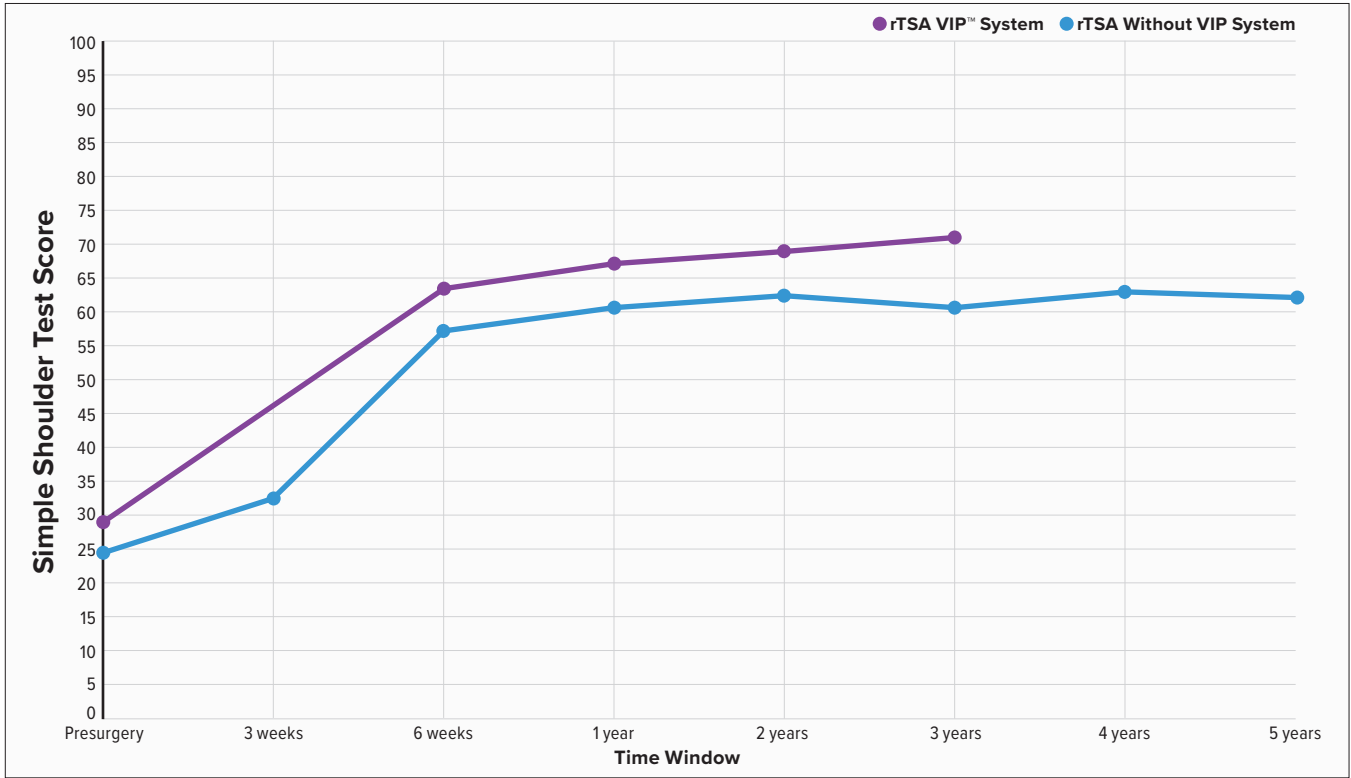
Based on these results, the pain, function, and quality-of-life scores for patients who underwent primary reverse total shoulder arthroplasty (rTSA) with Arthrex implants and preoperative planning using the Virtual Implant Positioning (VIP) system trend toward better outcomes than the scores of patients who have undergone primary rTSA with Arthrex implants and no plan. However, no claims can be made on the potential of these results without further analysis to determine statistical significance.



**VAS**



**ASES Shoulder Function**



SST



# Surgical Outcomes System

| Time Point | rTSA VIP <sup>SM</sup> System Avg $\pm$ STD<br>VAS | rTSA Without VIP System Avg $\pm$ STD<br>VAS |
|------------|--|--|
| Presurgery | 5.5 $\pm$ 2.7                                      | 5.8 $\pm$ 2.5                                |
| 1 year     | 1.3 $\pm$ 2.0                                      | 1.6 $\pm$ 2.1                                |
| 2 years    | 1.0 $\pm$ 2.0                                      | 1.5 $\pm$ 2.0                                |
| 3 years    | 1.1 $\pm$ 1.2                                      | 1.5 $\pm$ 2.1                                |
| 5 years    | N/A  | 0.9 $\pm$ 1.5                                |

| Time Point | rTSA VIP System Avg $\pm$ STD<br>ASES Shoulder Function | rTSA Without VIP System Avg $\pm$ STD<br>ASES Shoulder Function |
|------------|---|---|
| Presurgery | 11.6 $\pm$ 5.3  | 10.0 $\pm$ 5.1  |
| 1 year     | 22.3 $\pm$ 5.5  | 20.5 $\pm$ 6.5  |
| 2 years    | 23.4 $\pm$ 5.8  | 21.1 $\pm$ 16.1   |
| 3 years    | 25.0 $\pm$ 1.9  | 21.1 $\pm$ 6.2  |
| 5 years    | N/A   | 21.8 $\pm$ 5.5  |

| Time Point | rTSA VIP System Avg $\pm$ STD<br>SST | rTSA Without VIP System Avg $\pm$ STD<br>SST |
|------------|--------------------------------------|--|
| Presurgery | 28.7 $\pm$ 19.5                      | 23.9 $\pm$ 19.7                              |
| 1 year     | 67.1 $\pm$ 22.4                      | 60.5 $\pm$ 23.6                              |
| 2 years    | 68.4 $\pm$ 22.8                      | 62.9 $\pm$ 23.9                              |
| 3 years    | 71.7 $\pm$ 9.5                       | 60.5 $\pm$ 23.9                              |
| 5 years    | N/A                                  | 63.0 $\pm$ 20.9                              |