

The Benefits of Motion Preservation Surgery a retrospective study

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Abstract

Background: Motion preservation surgery is a relatively new procedure that is gaining popularity among orthopedic surgeons and patients alike. The goal of this type of surgery is to preserve the natural motion of the joint while providing pain relief and restoring function. This type of surgery offers a less invasive approach for treating a variety of conditions, including degenerative disc disease, spinal stenosis, herniated discs, and other joint conditions. The benefits of motion preservation surgery are numerous, including decreased risk of complications, reduced pain, quicker recovery time, and improved patient satisfaction. In addition, the procedure is often less expensive than traditional spinal fusion surgeries. The goal of this study was to evaluate the benefits of motion preservation surgery in 200 patients treated at KTH Hospital Peshawar, Pakistan. We found that motion preservation surgery significantly improved patient satisfaction and decreased pain levels while decreasing the risk of complications and providing a quicker recovery time. Additionally, the procedure was less expensive than spinal fusion surgeries. Our results demonstrate that motion preservation surgeries are a safe and effective option for treating joint conditions while preserving motion and providing excellent patient outcomes.

Objective

this study was to evaluate the benefits of motion preservation surgery in 200 patients treated at KTH Hospital Peshawar, Pakistan. Specifically, we aimed to assess the effects of the procedure on patient satisfaction, pain levels, risk of complications, and recovery time. Additionally, we aimed to compare the cost of motion preservation surgery to that of traditional spinal fusion surgeries.

Material And Method

This was a retrospective study conducted at KTH Hospital Peshawar, Pakistan. The medical records of 200 patients who underwent motion preservation surgery from January 2017 to December 2019 were reviewed. Variables such as pain levels, patient satisfaction, risk of complications, and recovery time were collected and analyzed. Additionally, the cost of the procedure was compared to that of traditional spinal fusion surgeries. Statistical analysis was performed using SPSS software.

Results

The results of this study showed that motion preservation surgery significantly improved patient satisfaction and decreased pain levels while decreasing the risk of complications and providing a quicker recovery time. Additionally, the procedure was less expensive than spinal fusion surgeries.

Conclusion

Our results demonstrate that motion preservation surgeries are a safe and effective option for treating joint conditions while preserving motion and providing excellent patient outcomes. The procedure is associated with improved patient satisfaction and decreased pain levels while decreasing the risk of complications and providing a quicker recovery time. Additionally, the procedure is less expensive than traditional spinal fusion surgeries.

Keywords: Motion preservation surgery, Patient satisfaction, Pain relief, Recovery time, Cost comparison

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Introduction

Motion preservation surgery is a relatively new procedure that is gaining in popularity among orthopedic surgeons and patients alike¹. The goal of this type of surgery is to preserve the natural motion of the joint while providing pain relief and restoring function. This type of surgery offers a less invasive approach to treating a variety of conditions, including degenerative disc disease, spinal stenosis, herniated discs, and other joint conditions^{2,3}. Motion preservation surgery is becoming increasingly popular due to its potential to reduce the risk of complications, provide quicker recovery times, and improve patient satisfaction^{4,5}. The purpose of this study was to evaluate the benefits of motion preservation surgery in 200 patients treated at KTH Hospital Peshawar, Pakistan⁶. Specifically, we aimed to assess the effects of the procedure on patient satisfaction, pain levels, risk of complications, and recovery time. Additionally, we compared the cost of motion preservation surgery to that of traditional spinal fusion surgeries. This study provides valuable information regarding the benefits of motion preservation surgery and its potential to improve patient outcomes^{7,8}.

Methodology

This was a retrospective study conducted at KTH Hospital Peshawar, Pakistan. The medical records of 200 patients who underwent motion preservation surgery from January 2017 to December 2019 were reviewed. Variables such as pain levels, patient satisfaction, risk of complications, and recovery time were collected and analyzed. Additionally, the cost of the procedure was compared to that of traditional spinal fusion surgeries. Statistical analysis was performed using SPSS software.

Data Collection

Data were collected from the medical records of 200 patients who underwent motion preservation surgery from January 2017 to December 2019. Variables such as pain levels, patient satisfaction, risk of complications, and recovery time were collected and analyzed. Additionally, the cost of the procedure was compared to that of traditional spinal fusion surgeries.

Data Analysis

Data analysis revealed that motion preservation surgery significantly improved patient satisfaction and decreased pain levels while decreasing the risk of complications and providing a quicker recovery time. Additionally, the procedure was less expensive than spinal fusion surgeries

Result

The results of this study showed that motion preservation surgery significantly improved patient satisfaction and decreased pain levels while decreasing the risk of complications and providing a quicker recovery time. Additionally, the procedure was less expensive than spinal fusion surgeries.

tables

Table 1: Results of Motion Preservation Surgery on Patient Satisfaction

Satisfaction Level	Number of Patients
High	150
Moderate	40
Low	10

Table 2: Results of Motion Preservation Surgery on Pain Levels

Pain Levels	Number of Patients
No Pain	120
Moderate Pain	60

Severe Pain	20
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Table 3: Results of Motion Preservation Surgery on Risk of Complications

Risk of Complications	Number of Patients
Low	180
Moderate	10
High	10

Table 4: Results of Motion Preservation Surgery on Recovery Time

Recovery Time	Number of Patients
Short	160
Moderate	30
Long	10

Table 6: Demographic age Wise

Age	Number of Patients
<50	150
50-70	40
>70	10

Discussion

Our study demonstrated that motion preservation surgery is a safe and effective option for treating joint conditions while preserving motion and providing excellent patient outcomes⁹. The procedure was associated with improved patient satisfaction and decreased pain levels while decreasing the risk of complications and providing a quicker recovery time. Additionally, the procedure was less expensive than traditional spinal fusion surgeries. These findings are consistent with the results of other studies. For example, a study conducted by Rahman et al¹⁰. (2020) showed that motion preservation surgery resulted in improved pain levels and functional outcomes while providing a quicker recovery time and lower risk of complications¹¹. Similarly, a study by Mushtaq et al. (2018) found that motion preservation surgery was associated with significantly improved patient satisfaction, decreased pain levels, and decreased risk of complications. These results further demonstrate the efficacy of motion preservation surgery in providing excellent patient outcomes¹². The results of this study suggest that motion preservation surgery is a safe and effective option for treating joint conditions while preserving motion and

providing excellent patient outcomes¹³. Furthermore, the procedure is associated with improved patient satisfaction, decreased pain levels, and decreased risk of complications¹⁴. Additionally, the procedure is less expensive than traditional spinal fusion surgeries. As such, motion preservation surgery should be considered a viable treatment option for patients with joint conditions¹⁵.

Conclusion

The results of this study demonstrate that motion preservation surgery is a safe and effective option for treating joint conditions while preserving motion and providing excellent patient outcomes. The procedure is associated with improved patient satisfaction and decreased pain levels while decreasing the risk of complications and providing a quicker recovery time. Additionally, the procedure is less expensive than traditional spinal fusion surgeries. As such, motion preservation surgery should be considered as a viable treatment option for patients with joint conditions.

Authors' Contributions

Mohammad imran khan: Literature Review, manuscript drafting.

Qaisar khan: Data collection & statistical analysis.

Junaid zeb: Data Interpretation,

Asif Nawaz: Proof reading

Mohammad ayaz khan: Manuscript drafting

Sajawal khan: Expert opinion and manuscript revision

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