



شبكة المعلومات الجامعية  
التوثيق الإلكتروني والميكرو فيلم

# بسم الله الرحمن الرحيم



**HANAA ALY**



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# جامعة عين شمس

## التوثيق الإلكتروني والميكروفيلم

### قسم

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علي هذه الأقراص المدمجة قد أعدت دون أية تغييرات



### يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



**HANAA ALY**



# **Comparative Study in Recurrent Disc Surgery between Posterior Lumbar Fusion with Interbody Fusion Versus Posterior Lumbar Fusion Alone**

*Thesis*

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in Neurosurgery

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﴿قُلْ إِنَّ صَلَاتِي وَنُسُكِي وَمَحْيَايَ وَمَمَاتِي لِلَّهِ رَبِّ الْعَالَمِينَ لَا

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**Candidate**

 **Mohamed Abdel Moaty Mohamed**

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## *List of Abbreviations*

| Abb.          | Full term                                   |
|---------------|---|
| AF .....      | Annulus fibrosus                            |
| AxiaLIF ..... | Axial lumbar interbody fusion               |
| CRP .....     | C-reactive protein                          |
| CT .....      | Computed tomography                         |
| ESR.....      | Erythrocyte sedimentation rate              |
| ICSI .....    | Institute for Clinical Systems Improvement  |
| IDET .....    | Intradiscal electrothermal therapy          |
| JOA.....      | Japanese Orthopedic Association score       |
| LF .....      | Ligamentum flavum                           |
| MED .....     | Microendoscopic discectomy                  |
| MRI.....      | Magnetic resonance image                    |
| NSAIDs .....  | Nonsteroidal anti-inflammatory drugs        |
| ODI .....     | Oswestry Disability Index questionnaire     |
| PLF .....     | Posterolateral fusion                       |
| PLIF.....     | Posterior lumbar interbody fusion           |
| TDA .....     | Total disc arthroplasty                     |
| TENS .....    | Transcutaneous electrical nerve stimulation |
| TLIF.....     | Transforaminal Lumbar Interbody Fusion      |
| VAS.....      | Visual analogue score                       |
| XLIF .....    | Extreme lateral lumbar interbody fusion     |



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