

Supplementary appendix 1 The search strategy of 3 electronic databases. PubMed

#1 'percutaneous endoscopic lumbar discectomy'[Title/Abstract] OR 'PELD'[Title/Abstract] OR 'percutaneous transforaminal endoscopic discectomy'[Title/Abstract] OR 'PTED'[Title/Abstract] OR 'transforaminal endoscopic lumbar discectomy'[Title/Abstract] OR 'TELD'[Title/Abstract] OR 'percutaneous endoscopic transforaminal discectomy'[Title/Abstract] OR 'PETD'[Title/Abstract] OR 'yeung endoscopic spine system'[Title/Abstract] OR 'YESS'[Title/Abstract] OR 'transforaminal endoscopic spine system'[Title/Abstract] OR 'TESSYS'[Title/Abstract]

#2 'recurrent'[Title/Abstract]

'reoperation'[Title/Abstract] OR
OR 'relapse'[Title/Abstract] 'rehospitalization'[Title/Abstract]
Abstract]
OR OR
'readmission'[Title/Abstract] OR 'failure'[Title/Abstract]

#3 'disc'[Title/Abstract]

#4 #2 AND #3

#5 'recurrent lumbar disc herniation'[Title/Abstract] OR 'rldh'[Title/Abstract] OR 'rldh'[Title/Abstract] OR 'repeat discectomy'[Title/Abstract]

#6 #4 OR #5

#7 #1 AND #6

Cochrane Library

#1 (percutaneous endoscopic lumbar discectomy):ti,ab,kw OR (percutaneous transforaminal endoscopic discectomy):ti,ab,kw OR (transforaminal endoscopic lumbar discectomy):ti,ab,kw OR (percutaneous endoscopic transforaminal discectomy):ti,ab,kw OR (Yeung endoscopic spine system):ti,ab,kw

#2 (transforaminal endoscopic spine system):ti,ab,kw OR (PELD):ti,ab,kw OR (PTED):ti,ab,kw OR (TELD):ti,ab,kw OR (PETD):ti,ab,kw

#3 #1 OR #2

#4 (recurrent lumbar disc herniation):ti,ab,kw OR (rLDH):ti,ab,kw OR (RLDH):ti,ab,kw OR (Repeat discectomy):ti,ab,kw

#5 (recurrent):ti,ab,kw OR (reoperation):ti,ab,kw OR (relapse):ti,ab,kw OR (ehospitalization):ti,ab,kw OR (failure):ti,ab,kw

#6 (disc):ti,ab,kw

#7 #5 AND #6

#8 #4 OR #7

#9 #3 AND #8

Embase

#1 'percutaneous endoscopic lumbar discectomy'/exp OR 'percutaneous endoscopic lumbar discectomy' OR (percutaneous AND endoscopic AND lumbar AND ('discectomy'/exp OR discectomy)) OR peld:ab,ti OR 'percutaneous transforaminal endoscopic discectomy':ab,ti OR pted:ab,ti OR 'transforaminal endoscopic lumbar discectomy':ab,ti OR teld:ab,ti OR 'percutaneous endoscopic transforaminal discectomy':ab,ti OR petd:ab,ti OR 'yeung endoscopic spine system':ab,ti OR 'transforaminal endoscopic spine system':ab,ti

#2 'recurrent lumbar disc herniation' OR (recurrent AND lumbar AND disc AND ('herniation'/exp OR herniation)) OR rldh:ab,ti OR 'repeat discectomy':ab,ti

#3 recurrent OR relapse:ab,ti OR reoperation:ab,ti OR rehospitalization:ab,ti OR failure:ab,ti

#4 disc:ab,ti

#5 #3 AND #4

#6 #2 OR #5

#7 #1 AND #6

Figure S1. Forest plot of the influence on rLDH per increment in age in year. rLDH, recurrent lumbar disc herniation; SD, standard deviation; IV, inverse variance; df, degrees of freedom.

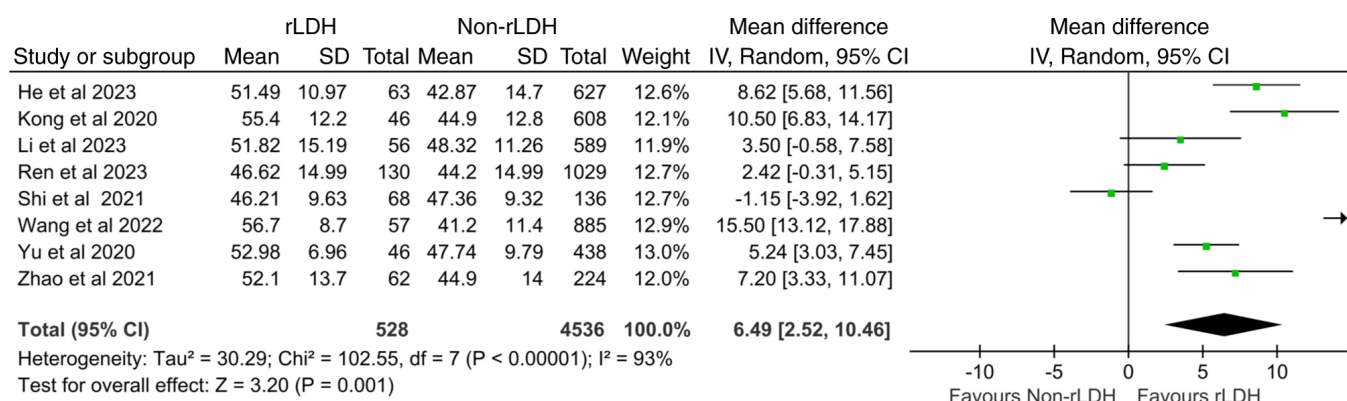


Figure S2. Forest plot of the association of male sex with rLDH. rLDH, recurrent lumbar disc herniation; df, degrees of freedom; M-H, Mantel-Haenszel.

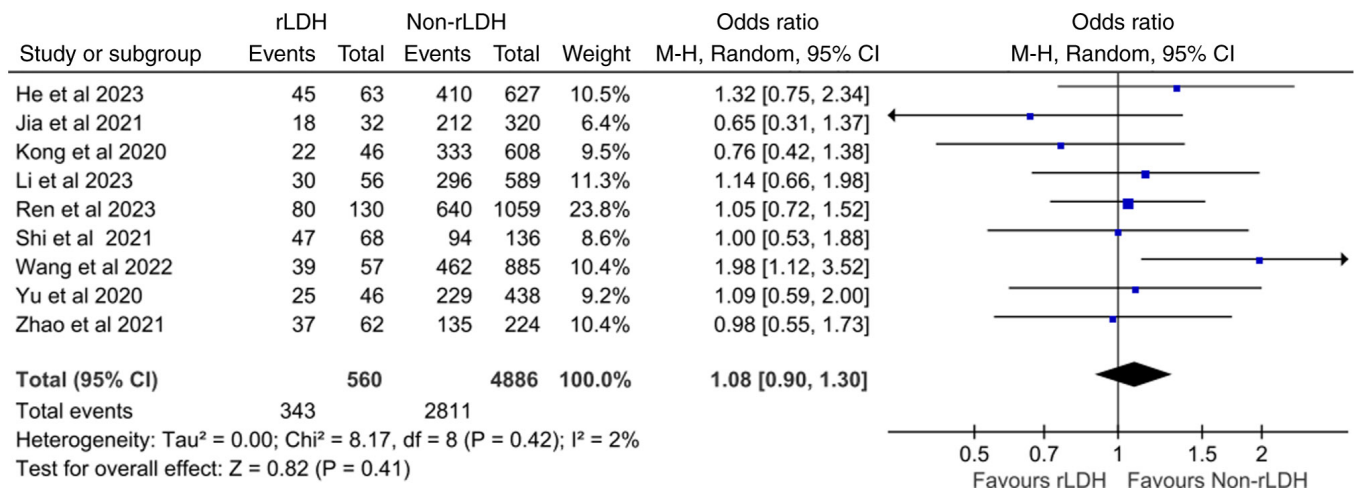


Figure S3. Forest plot of the association of female sex with rLDH. rLDH, recurrent lumbar disc herniation; df, degrees of freedom; M-H, Mantel-Haenszel.

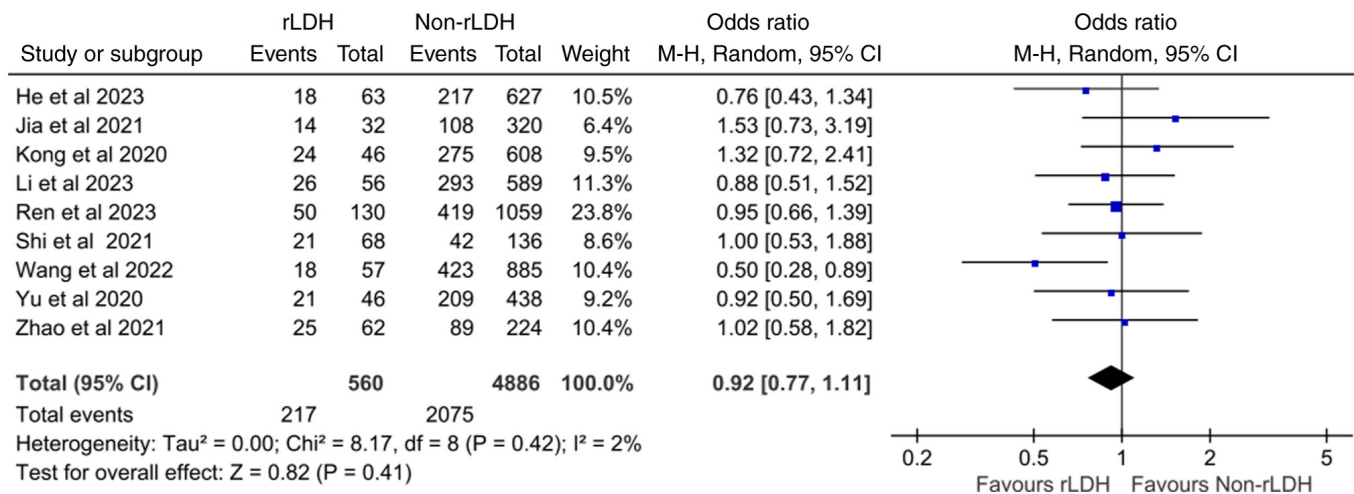


Figure S4. Forest plot of the influence of BMI per increment on rLDH. BMI, body mass index; rLDH, recurrent lumbar disc herniation; SD, standard deviation; IV, inverse variance; df, degrees of freedom.

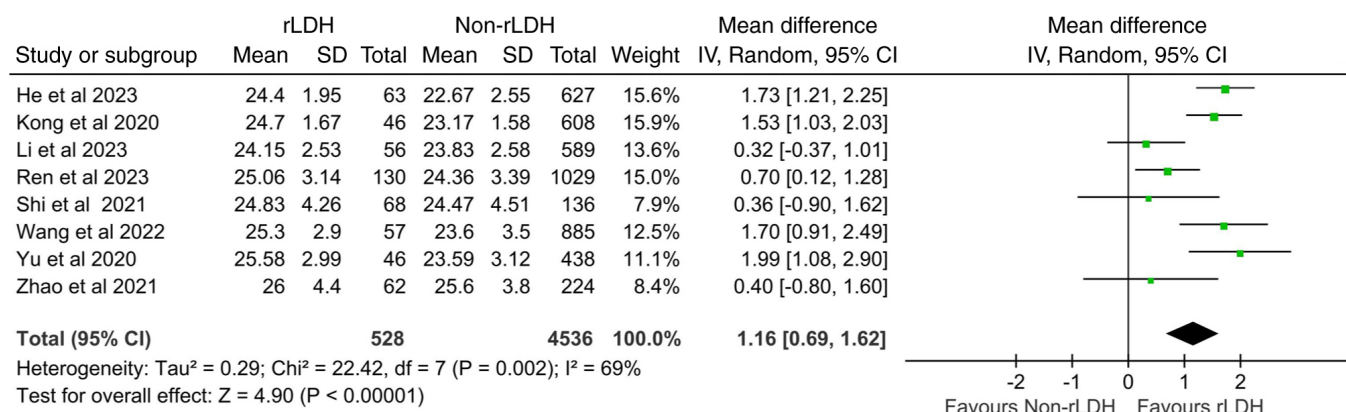


Figure S5. Forest plot of the influence on rLDH per increment in symptom duration in months. rLDH, recurrent lumbar disc herniation; SD, standard deviation; IV, inverse variance; df, degrees of freedom.

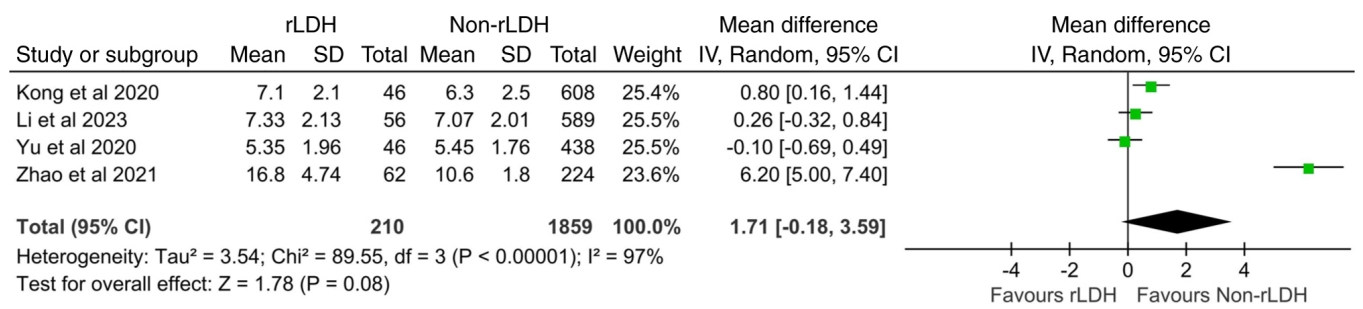


Figure S6. Forest plot of odds ratio for the association of smoking with rLDH. rLDH, recurrent lumbar disc herniation; df, degrees of freedom; M-H, Mantel-Haenszel.

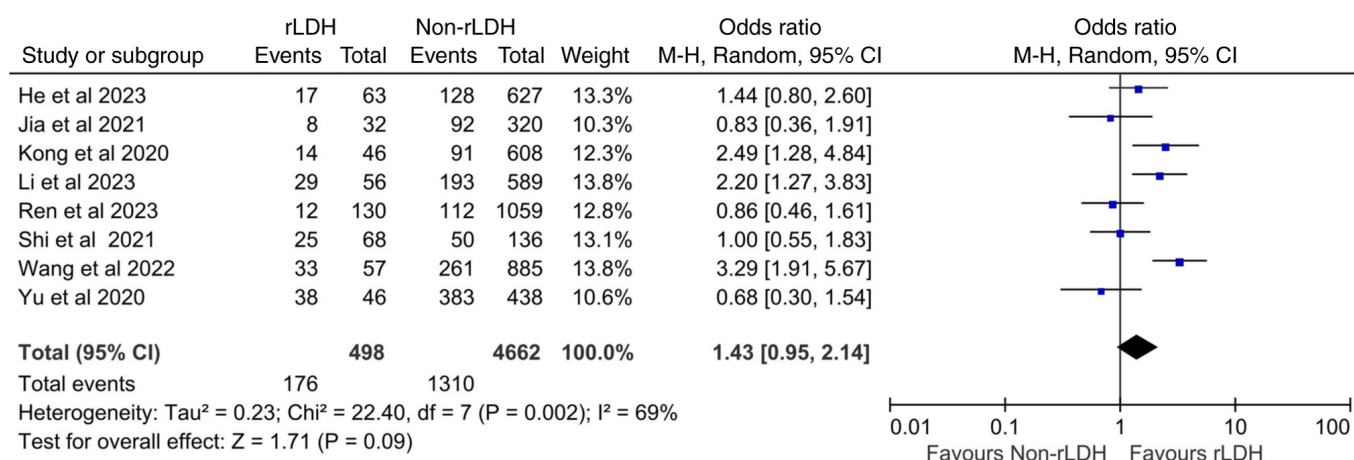


Figure S7. Forest plot of odds ratio for the association of drinking with rLDH. rLDH, recurrent lumbar disc herniation; df, degrees of freedom; M-H, Mantel-Haenszel.

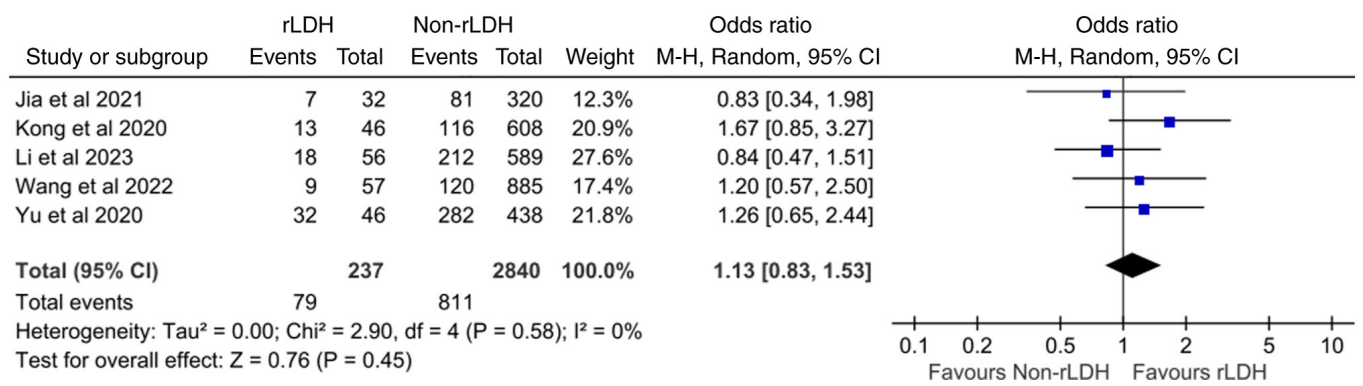


Figure S8. Forest plot of odds ratio for the association of diabetes mellitus with rLDH. rLDH, recurrent lumbar disc herniation; df, degrees of freedom; M-H, Mantel-Haenszel.

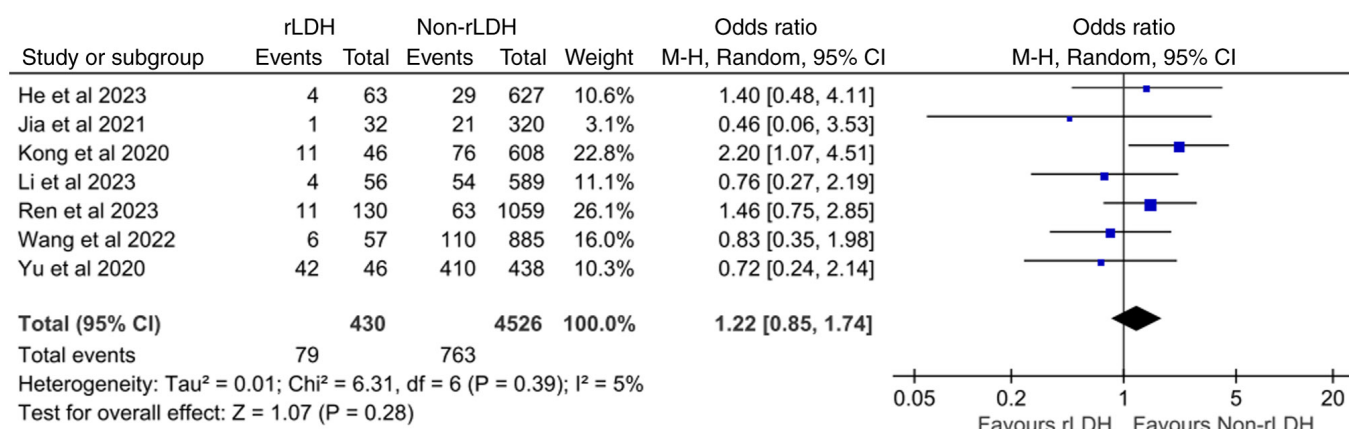


Figure S9. Forest plot of odds ratio for the association of hypertension with rLDH. rLDH, recurrent lumbar disc herniation; df, degrees of freedom; M-H, Mantel-Haenszel.

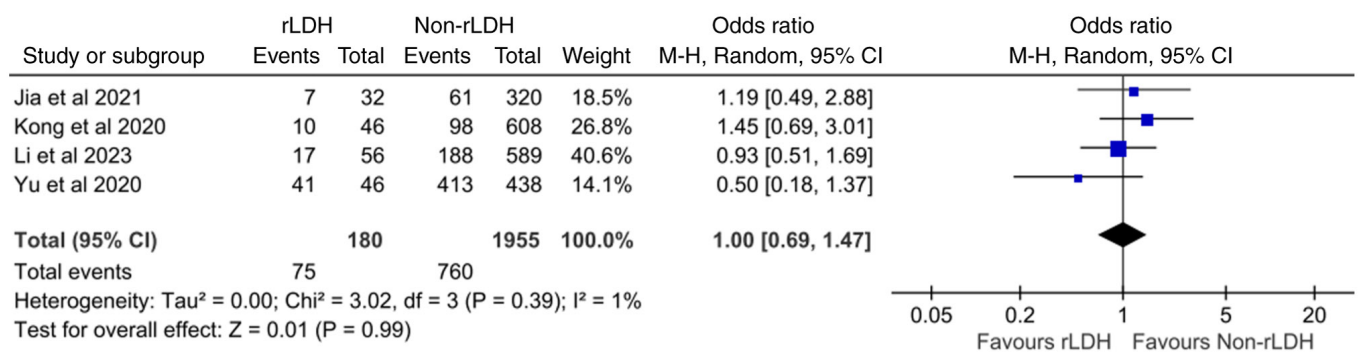


Figure S10. Forest plot of the influence on rLDH per increment in operative time in min. rLDH, recurrent lumbar disc herniation; SD, standard deviation; IV, inverse variance; df, degrees of freedom.

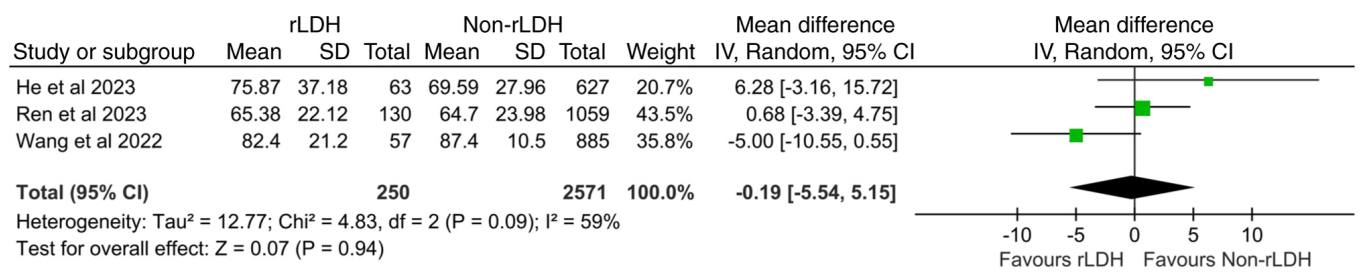


Figure S11. Forest plot of the odds ratio for the association of modic change with rLDH. rLDH, recurrent lumbar disc herniation; df, degrees of freedom; M-H, Mantel-Haenszel.

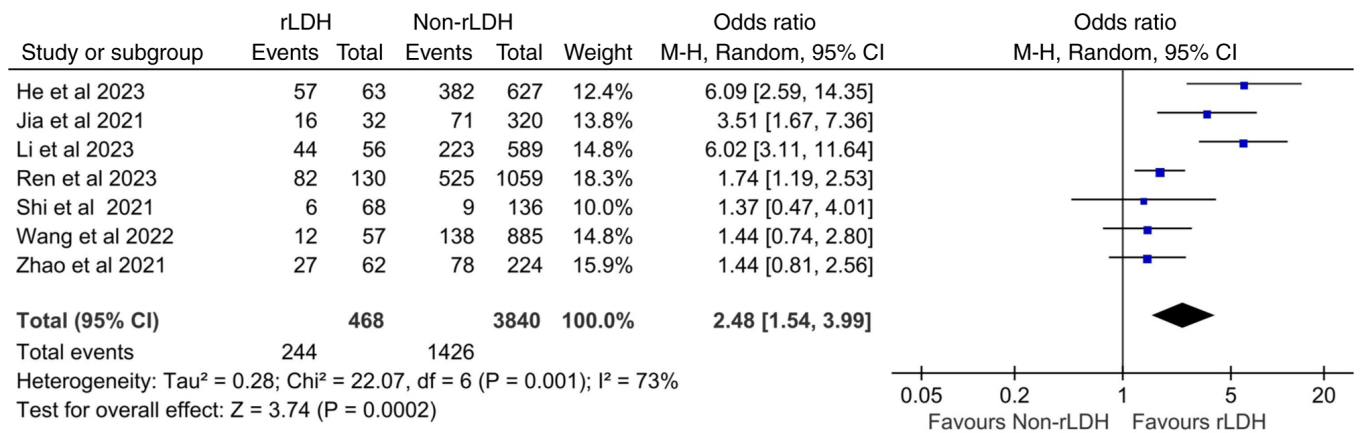


Figure S12. Forest plot of odds ratio for the association of Pfirrmann grade ≥ 4 with rLDH. rLDH, recurrent lumbar disc herniation; df, degrees of freedom; M-H, Mantel-Haenszel.

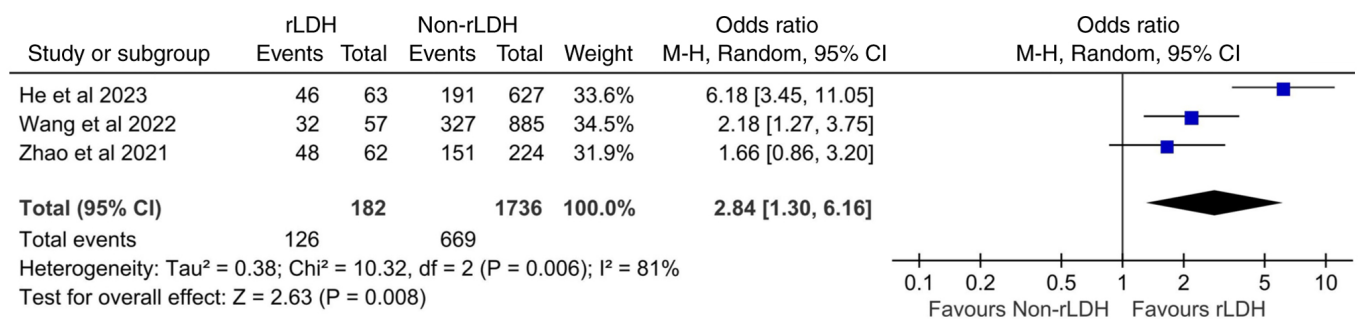


Figure S13. Forest plot of the influence on rLDH per increment in disc height index. rLDH, recurrent lumbar disc herniation; SD, standard deviation; IV, inverse variance; df, degrees of freedom.

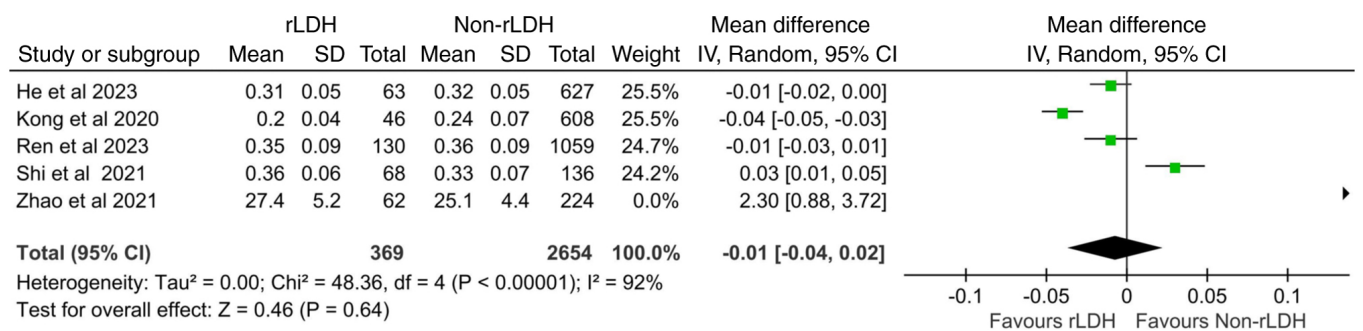


Figure S14. Forest plot of the influence on rLDH per increment in sagittal range of motion. rLDH, recurrent lumbar disc herniation; SD, standard deviation; IV, inverse variance; df, degrees of freedom.

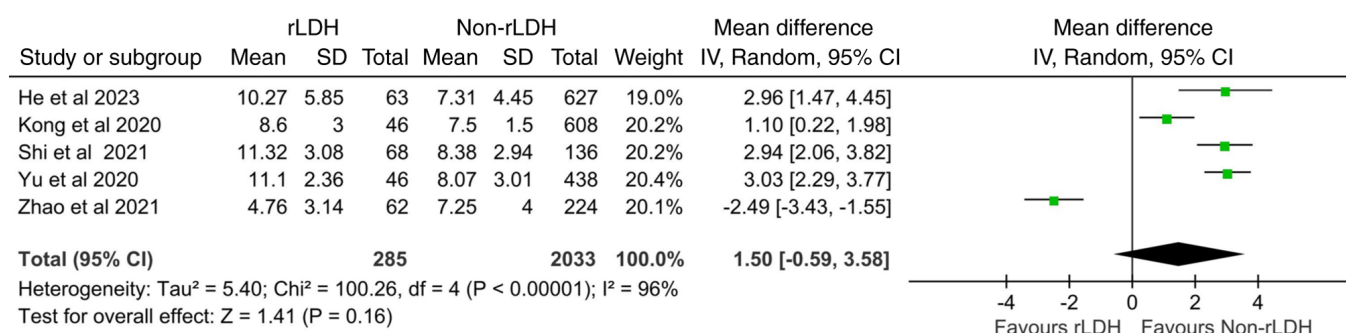


Figure S15. Forest plot of the influence on rLDH per increment in facet orientation. rLDH, recurrent lumbar disc herniation; SD, standard deviation; IV, inverse variance; df, degrees of freedom.

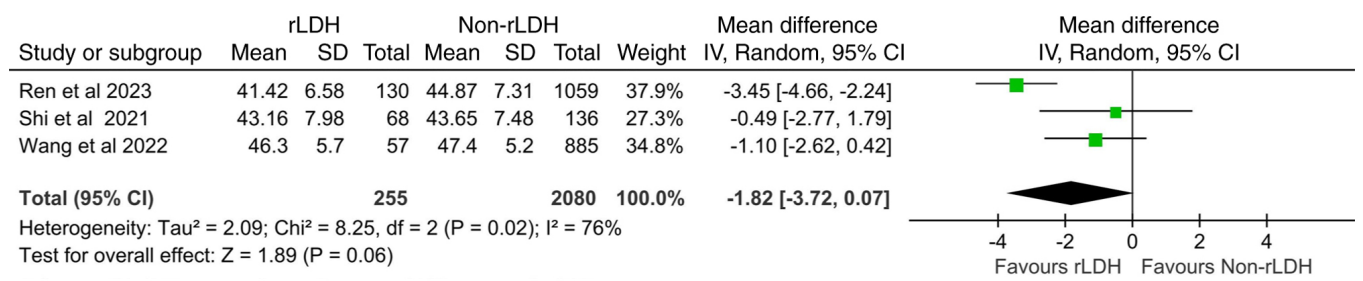


Figure S16. Forest plot of the influence on rLDH per increment in facet tropism. rLDH, recurrent lumbar disc herniation; SD, standard deviation; IV, inverse variance; df, degrees of freedom.

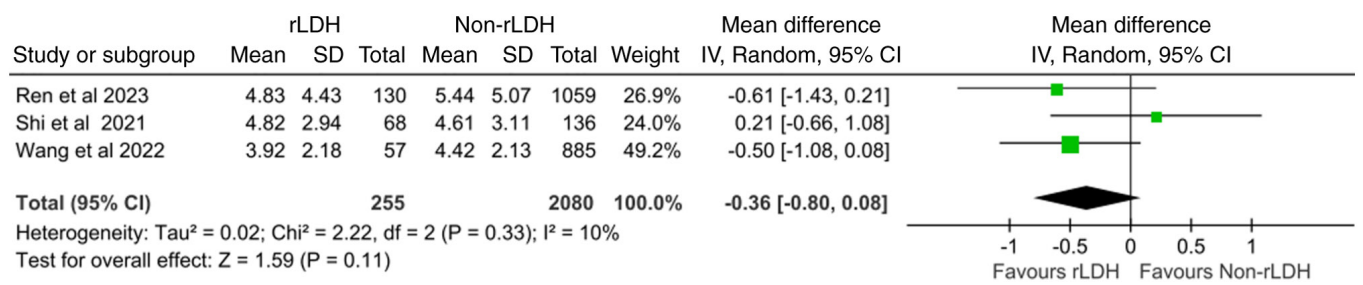


Figure S17. Forest plot of the influence on rLDH per increment in lumbar lordosis angle. rLDH, recurrent lumbar disc herniation; SD, standard deviation; IV, inverse variance; df, degrees of freedom.

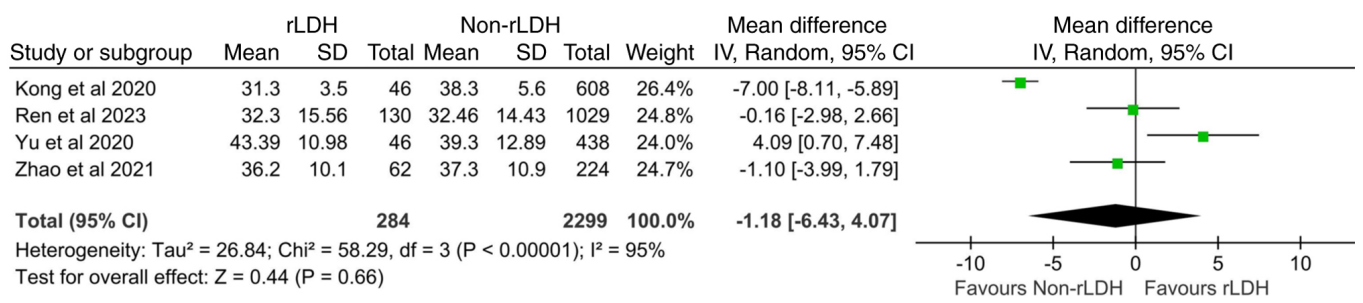


Figure S18. Forest plot of the influence on rLDH per increment in sacral slope. rLDH, recurrent lumbar disc herniation; SD, standard deviation; IV, inverse variance; df, degrees of freedom.

