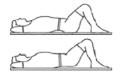


## Δρ. Χρήστος Κ. Γιαννακόπουλος

Ορθοπαιδικός Χειρουργός, Διδάκτωρ Πανεπιστημίου Αθηνών

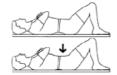
Πύργος Αθηνών, Κτίριο Γ΄,  $2^{o\varsigma}$  όροφος, Λεωφ. Μεσογείων 2–4, Αθήνα 115 27 Tnλ.: 210 7712792 | Κινητό: 697 20 999 11 | E-mail: cky@orthosurgery.gr

## Low back strengthening / Ασκήσεις Ενδυνάμωσης της Οσφυικής Μοίρας της Σπονδυλικής Στήλης



\*Lie on back, knees bent.

\*Tighten back muscles, arching low back off mat.



\*Lie on back, knees bent.

\*Tighten abdominal muscles and press low back down into mat.



\*Lie on back, knees bent, arm at side. \*Lift head and shoulders off floor.

toward knees.
\*Keep low back in contact with mat.



\*Lie on back, knees bent, arm over chest. \*Lift head and shoulders off floor,

toward knees.

\*Keep low back in contact with mat.



\*Lie on back with arms at side. \*Keeping knees straight, tighten

abdominal muscles, and lifting feet about 6 inches from mat.



\*Start in 4 point kneeling. \*Lift one leg up, keeping knee bent.



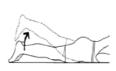
\*Start in 4 point kneeling.
\*Extend right leg while

lifting left arm.
\*Reverse position, and repeat.



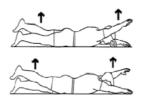
\*Start in 4 point kneeling, back in neutral.

\*Round back upward, one segment at a time. \*Reverse back, one segment at a time, keeping neck neutral.



\*Lie face down.

\*Raise both legs upwards, as shown.



\*Lie face down, arms outstretched overhead as

shown.
\*Raise arm and opposite
leg off mat.

\*Alternate arm and leg and repeat.

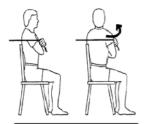


\*Lie face down with hips at edge of surface.

\*Position lower legs

under pads.

\*With arms behind back,
slowly lower and return
back to starting position.



\*Attach elastic to secure object, with chair facing opposite way.

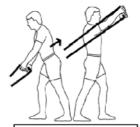
\*Holding elastic, rotate upper body forward and away from elastic.



\*Lie back on padded bar, arms across chest. \*Push back against bar, straightening trunk.

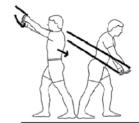


\*Place chest on padded bar, arms across chest. \*Push forward against bar, bending at the waist.



\*Secure elastic at floor

\*With elastic in both hands, bend at hip, keeping back in neutral. \*Pull upward and across as shown.



\*Secure elastic above head.

\*With elastic in both hands, bend at hip, keeping back neutral. \*Pull downward and across as shown.