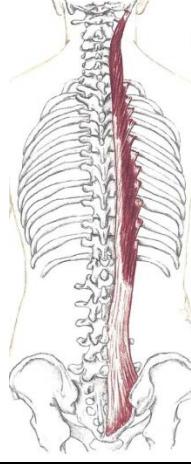
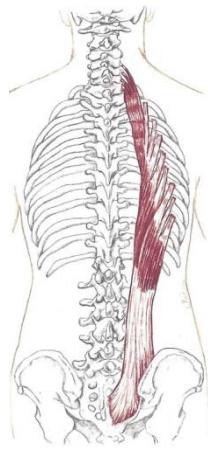
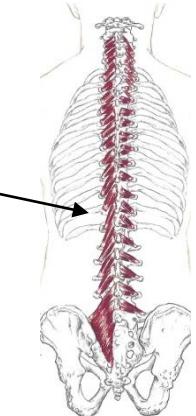
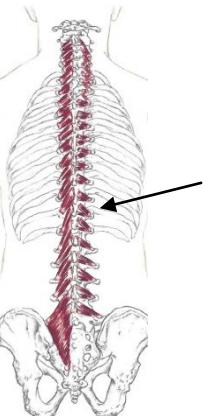
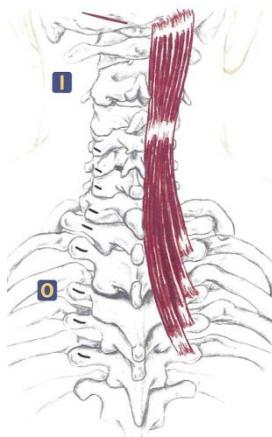
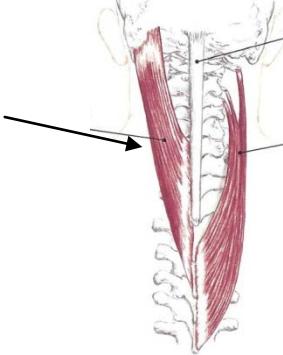
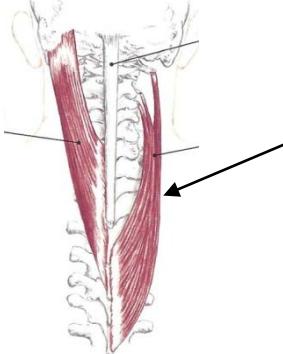
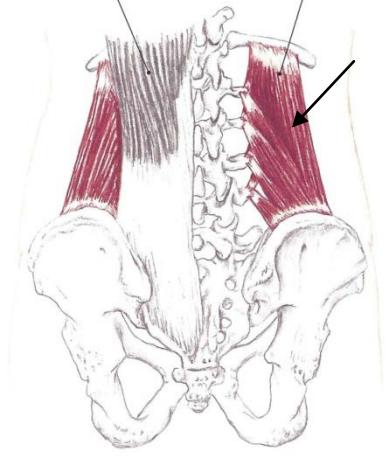
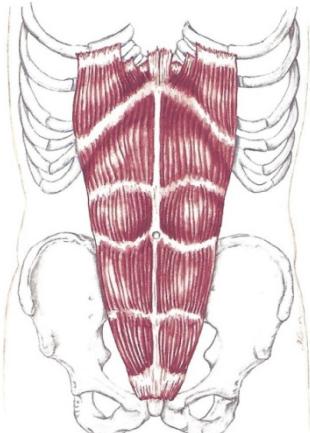
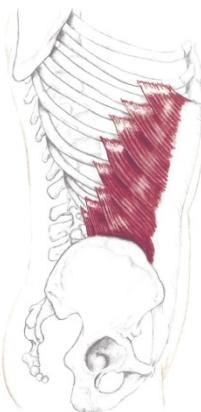
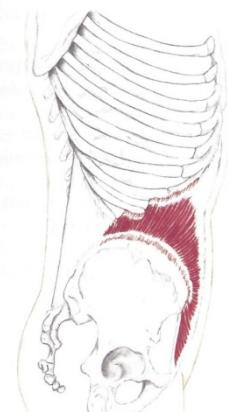
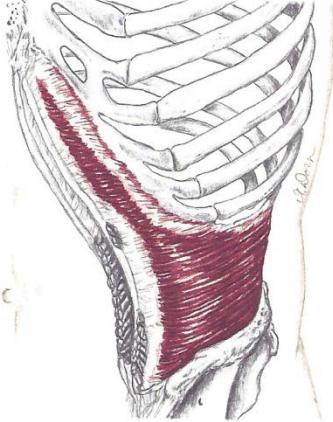
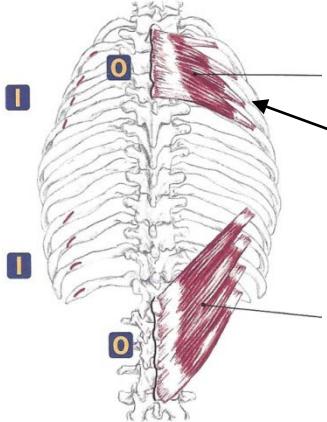
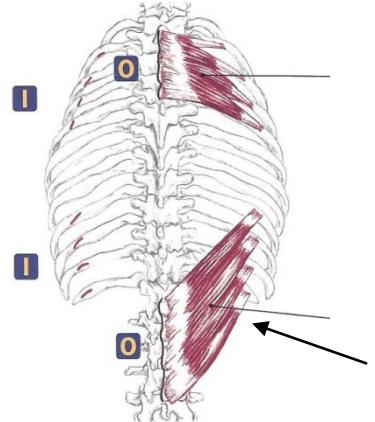
	<p style="text-align: center;">Spinalis</p>	<p>Origin</p> <ul style="list-style-type: none"> SP of the upper lumbar and lower thoracic vertebrae Ligamentum nuchae SP of C7 <p>Insertion</p> <ul style="list-style-type: none"> Sp of upper thoracic SP of cervical, except C1
<p>Action</p> <ul style="list-style-type: none"> Extension of the spine Lateral flexion of the spine 		<p style="text-align: right;">Longissimus</p>
<p>Origin</p> <ul style="list-style-type: none"> TP C7-T9 Thoracolumbar Aponeurosis <p>Insertion</p> <ul style="list-style-type: none"> Mastoid process of the temporal bone TP C1-C6 TP of all thoracic Vertebrae 	<p>Action</p> <ul style="list-style-type: none"> Extension of the spine Lateral Flexion of the spine 	
<p style="text-align: center;">Iliocostalis</p>	<p>Origin</p> <ul style="list-style-type: none"> Posterior, superior surfaces of ribs 1-12 Common Tendon (Thoracolumbar aponeurosis) <p>Insertion</p> <ul style="list-style-type: none"> TP L1-3 Posterior surface of all ribs TP of lower cervicals 	<p>Action</p> <ul style="list-style-type: none"> Extension of the spine Lateral flexion of the spine

	<p>Multifidi</p>	<p>Origin</p> <ul style="list-style-type: none"> • Sacrum • TP of all vertebrae <p>Insertion</p> <ul style="list-style-type: none"> • SP of all vertebrae: 2-4 vertebrae above origin
<p>Action</p> <ul style="list-style-type: none"> • Extension of spine • Rotation of spine to opposite side 		<p>Rotatores</p>
<p>Origin</p> <ul style="list-style-type: none"> • TP of all vertebrae <p>Insertion</p> <ul style="list-style-type: none"> • SP of all vertebrae, 1-2 vertebrae above origin 	<p>Action</p> <ul style="list-style-type: none"> • Rotation of spine to the opposite side • Extension of spine 	
<p>Semispinalis</p>	<p>Origin</p> <ul style="list-style-type: none"> • TP of C4-T5 <p>Insertion</p> <ul style="list-style-type: none"> • Occipital bone 	<p>Action</p> <ul style="list-style-type: none"> • Extend the vertebral column and head

	<p>Splenius Capitis</p>	<p>Origin</p> <ul style="list-style-type: none"> • Inferior ½ of Ligamentum nuchae • SP of C7-T4 <p>Insertion</p> <ul style="list-style-type: none"> • Mastoid process • Occipital Bone
<p>Action</p> <ul style="list-style-type: none"> • Extension of the head and neck • Lateral flexion of the head and neck • Rotation of the head and neck to the same side 		<p>Splenius Cervicis</p>
<p>Origin</p> <ul style="list-style-type: none"> • TP of T3-T6 <p>Insertion</p> <ul style="list-style-type: none"> • TP of C1-C3 	<p>Action</p> <ul style="list-style-type: none"> • Extension of the head and neck • Lateral flexion of the head and neck • Rotation of the head and neck to the same side 	
<p>Quadratus Lumborum</p>	<p>Origin</p> <ul style="list-style-type: none"> • Posterior Iliac Crest <p>Insertion</p> <ul style="list-style-type: none"> • Inferior surface of 12th rib • TP of L1-L4 	<p>Action</p> <ul style="list-style-type: none"> • Lateral flexion of the lumbar spine to the same side • Laterally tilt (elevate) the pelvis • Assist to extend the vertebral column • Fix the last rib during forced inhalation and exhalation

	<p>Rectus Abdominis</p>	<p>Origin</p> <ul style="list-style-type: none"> • Pubic crest • Pubic symphysis <p>Insertion</p> <ul style="list-style-type: none"> • Costal Cartilage of 5th, 6th and 7th ribs • Xiphoid process
<p>Action</p> <ul style="list-style-type: none"> • Flex the vertebral column • Tilt pelvis posteriorly 		<p>External Oblique</p>
<p>Origin</p> <ul style="list-style-type: none"> • Lateral surface of ribs 5-12 <p>Insertion</p> <ul style="list-style-type: none"> • Anterior iliac crest • Abdominal aponeurosis 	<p>Action</p> <ul style="list-style-type: none"> • Lateral flexion of the trunk to same side • Rotate vertebral column to the opposite side • Flex the vertebral column • Compress abdominal contents 	
<p>Internal Oblique</p>	<p>Origin</p> <ul style="list-style-type: none"> • Lateral inguinal ligament • Iliac crest • Thoracolumbar fascia <p>Insertion</p> <ul style="list-style-type: none"> • Internal surface of lower 3 ribs • Abdominal aponeurosis 	<p>Action</p> <ul style="list-style-type: none"> • Lateral flexion of the trunk to the same side • Rotate vertebral column to the same side • Flex the vertebral column • Compress abdominal contents

	<p>Transverse Abdominis</p>	<p>Origin</p> <ul style="list-style-type: none"> Lateral surfaces of ribs 5-12 <p>Insertion</p> <ul style="list-style-type: none"> Anterior Iliac Crest Abdominal aponeurosis
<p>Action</p> <ul style="list-style-type: none"> Compress abdominal contents 		<p>Serratus Posterior Superior</p>
<p>Origin</p> <ul style="list-style-type: none"> SP of C7 to T3 <p>Insertion</p> <ul style="list-style-type: none"> Posterior surface of second through fifth ribs 	<p>Action</p> <ul style="list-style-type: none"> Elevate the ribs during inhalation 	
<p>Serratus Posterior Inferior</p>	<p>Origin</p> <ul style="list-style-type: none"> SP of T12-L3 <p>Insertion</p> <ul style="list-style-type: none"> Posterior surface of ninth through twelfth ribs 	<p>Action</p> <ul style="list-style-type: none"> Depress the ribs during exhalation