

Anatomy of Locomotion of the Dog

Muscles of Hip Flexion

- 1. Iliopsoas**
- 2. Tensor Fascia Latae**
- 3. Rectus Femoris**
- 4. Sartorius**
- 5. Articularis Coxae**

Muscles of Hip Extension

- 1. Gluteus Medialis (Middle Gluteal)**
- 2. Superficial Gluteal**
- 3. Semitendinosus**
- 4. Semimembranosus**
- 5. Biceps Femoris**
- 6. Piriformis**
- 7. Gracilis**
- 8. Adductores (Adductor Magnus et Brevis and Longus)**
- 9. Quadratus Femoris**
- 10. Gluteus Profundus**

Muscles of Hip Abduction

- 1. Gluteus Medialis**
- 2. Gluteus Profundus**

Muscles of Hip Adduction

- 1. Adductores (Adductor Magnus et Brevis and Longus)**

Muscles of Lateral Rotation of the Hip

Anatomy of Locomotion of the Dog

- 1. Obturator Internus**
- 2. Gemelli**
- 3. Quadratus Femoris**
- 4. Obturator Externus**

Muscles of Adduction of the Thigh

- 1. Gracilis**
- 2. Pectineus**

Muscles of Abduction of the Thigh

- 1. Abductor Cruris Caudalis**
- 2. Biceps Femoris**

Muscles of Flexion of the Stifle

- 1. Gastrocnemius**
- 2. Biceps Femoris**
- 3. Semimembranosus**
- 4. Sartorius (caudal part)**
- 5. Abductor Cruris Caudalis**
- 6. Flexor Digitorum Superficialis**
- 7. Popliteus**
- 8. Semitendinosus**

Muscles of Extension of the Stifle

- 1. Sartorius (cranial part)**
- 2. Biceps Femoris**
- 3. Quadriceps Femoris**
 - A. Rectus Femoris**
 - B. Vastus Lateralis**

Anatomy of Locomotion of the Dog

3

- C. Vastus Intermedius**
- D. Vastus Medialis**

4. Articularis Genus

Muscles of Extension of the Hock

- 1. Gracilis**

Muscles of Flexion of the Tarsus

- 1. Peroneus Longus**
- 2. Tibialis Cranialis**
- 3. Extensor Digitorum Longus**
- 4. Peroneus Brevis**

Muscles of Extension of the Tarsus

- 1. Gastrocnemius**
- 2. Flexor Digitorum Superficialis**
- 3. Tibialis Caudalis**
- 4. Semitendinosus**

Muscles of Flexion of the Caudal Digits

- 1. Flexor Digitorum Longus**
- 2. Flexor Digitorum Superficialis**
- 3. Flexor Digitorum Profundus**

Muscles of Extension of the Caudal Digits

- 1. Extensor Digitorum Longus**
- 2. Extensor Digiti 1**
- 3. Extensor Digitorum Lateralis (digit 5)**

Anatomy of Locomotion of the Dog

4

4. Extensor Digitorum Brevis

Muscles of Lateral Rotation of the Caudal Paw

- 1. Tibialis Cranialis**
- 2. Tibialis Caudalis**

Muscles of Medial Rotation of the Caudal Paw

- 1. Peroneus Longus**

Muscles of Vertebral Fixation Lumbar Region

- 1. Iliopsoas**
- 2. Quadratus Lumborum**

Muscles of Flexion of the Lumbar Vertebra

- 1. Iliopsoas**

Muscles of Adduction of the Shoulder

- 1. Subscapularis**
- 2. Coracobrachialis**
- 3. Pectoralis Superficialis**

Muscles of Flexion of the Shoulder

- 1. Latissimus Dorsi**
- 2. Pectoralis Superficialis**
- 3. Pectoralis Profundus**
- 4. Infraspinatus**
- 5. Teres Minor**
- 6. Deltoideus**

Anatomy of Locomotion of the Dog

5

- 7. Teres Major**
- 8. Triceps Brachii**
- 9. Romboideus**
- 10. Serratus Ventralis**
- 11. Subscapularis**

Muscles of Extension of the Shoulder

- 1. Trapezius**
- 2. Cleidocervicalis**
- 3. Pectoralis Superficialis**
- 4. Pectoralis Profundus**
- 5. Supraspinatus**
- 6. Subscapularis**
- 7. Biceps Brachii**
- 8. Coracobrachialis**
- 9. Omotransversarius**
- 10. Serratus Ventralis**
- 11. Coracobrachialis**
- 12. Romboideus**
- 13. Infraspinatus**

Muscles of Elevation of the Shoulder

- 1. Trapezius**
- 2. Rhomboideus**

Muscles of Abduction of the Humerus

- 1. Infraspinatus**

Muscles of Lateral Rotation of the Humerus

Anatomy of Locomotion of the Dog

1. **Infraspinatus**

Muscles of Elevation of the Humerus

1. **Deltoideus**

Muscles of Extension of the Humerus

1. **Teres Major**

Muscles of Flexion of the Elbow

1. **Biceps Brachii**
2. **Brachialis**
3. **Extensor Carpi Radialis**
4. **Supinator**
5. **Pronator Teres**

Muscles of Extension of the Elbow

1. **Triceps Brachii**
2. **Tensor Fasciae Antibrachii**
3. **Extensor Carpi Ulnaris**
4. **Anconeus**

Muscles of Cranial Limb Medial Rotation

1. **Pronator Teres**

Muscles of Lateral Rotation of the Forearm

1. **Extensor Carpi Ulnaris**

Muscles of Dorsal Lateral Rotation of the Radius

Anatomy of Locomotion of the Dog

7

1. Brachioradialis

Muscles of Abduction of the Carpal Joint

1. Flexor Carpi Ulnaris

Muscles of Flexion of the Carpal Joint

- 1. Flexor Carpi Radialis**
- 2. Flexor Carpi Ulnaris**
- 3. Flexor Digitorum Profundus**
- 4. Interflexorius**
- 5. Flexor Digitorum Brevis**

Muscles of Extension of the Carpal Joint

- 1. Extensor Carpi Radialis**
- 2. Extensor Digitorum Communis**
- 3. Extensor Carpi Ulnaris**

Muscles of Pronation of the Carpal Joint

1. Pronator Quadratus

Muscles of Supination of the Cranial Paw

1. Supinator

Muscles of Flexion of the Cranial Paw

1. Flexor Carpi Ulnaris

Muscles of Abduction of the Digits

Anatomy of Locomotion of the Dog

- 1. Abductor Pollicis Longus**
- 2. Abductor Digiti 5**

Muscles of Adduction of the Digits

- 1. Adductor Digiti 5**
- 2. Adductor Digiti 2**
- 3. Extensor Digiti 1 and 2**

Muscles of Flexion of the Digits

- 1. Abductor Digiti Brevis**
- 2. Flexor Digiti 1 Brevis**
- 3. Flexor Digitorum Superficialis**

Muscles of Extension of the Digits

- 1. Extensor Digitorum Lateralis**
- 2. Extensor Digiti 1 and 2**
- 3. Abductor Pollicis Longus**

Muscles of Neck Extension

- 1. Splenius**
- 2. Longissimus Cervicis**
- 3. Semispinalis Cervicis**
- 4. Semispinalis Capitis**
- 5. Longissimus Capitis**
- 6. Obliquus Capitis Cranialis**

Muscles of Flexion of the Neck

- 1. Scalenus**

Anatomy of Locomotion of the Dog

9

2. Longus Capitis
3. Longus Colli
4. Rectus Capitis Ventralis
5. Rectus Capitis Lateralis

Muscles of Fixation of the Neck

1. Splenius
2. Cleidocervicalis
3. Oblique Capitis Caudalis

Muscles of Lateral Flexion of the Neck

1. Splenius
2. Scalenus
3. Brachiocephalicus
4. Sternocephalicus

Muscles of Rotation of Neck

1. Oblique Capitis Caudalis
2. Longissimus Capitis

Muscles of Expiration

1. Iliocostalis
2. Serratus Dorsalis Caudalis
3. Intercostalis Externi
4. Intercartilaginei Externi
5. Intercostalis Interni
6. Subcostalis
7. Intercartilaginei Interni
8. Retractor Costa
10. Transversus Thoracis

Muscles of Inspiration

1. Levatores Costarum
2. Rectus Thoracis

Muscles of Fixation of the Thorax

1. Semispinalis Thoracis
2. Multifidus
3. Rotatores Longi
4. Rotatores Brevis
5. Interspinalis

Muscles of Abdominal Compression, Support of the Viscera, Expiration, Urination, Defecation and Parturition

1. Obliquus Internus
2. Obliquus Abdominus
3. Transversus Abdominus
4. Rectus Abdominus

Muscles of Abdominal Flexion

1. Rectus Abdominus

Muscles of Skin Shaking and Increase Heat Production

1. Cutaneous Trunci

Muscles of Fixation of the Vertebral Column

1. Longissimus Thoracis
2. Iliocostalis
3. Multifidus

Muscles of Extension of the Vertebral Column Cranially

1. Longissimus Thoracis

Muscles of Extension of the Vertebral Column Caudally

1. Longissimus Thoracis

Muscles of Lumbar Extension

1. Longissimus Lumborum

Muscles of Fixation of the Lumbar Region

1. Iliocostalis
2. Multifidus
3. Interspinales

Muscles of Lateral Flexion of the Lumbar Region

1. Iliocostalis
2. Longissimus Lumborum

Muscles of Extension of the Tail

1. Sacro Caudalis Dorsalis Lateralis
2. Sarco Caudalis Dorsalis Medialis

Muscles of Lateral Flexion of the Tail

Anatomy of Locomotion of the Dog

- 1. Sacro Caudalis Dorsalis Lateralis**
- 2. Sacro Caudalis Dorsalis Medialis**
- 3. Intertransversarius Dorsalis Caudalis**
- 4. Intertransversarius Ventralis Caudalis**

Muscles of Flexion of the Tail

- 1. Sacro Caudalis**
- 2. Sacro Caudalis Ventralis Lateralis**
- 3. Sacro Caudalis Ventralis Medialis**

Muscles of Unilateral-Lateral Flexion

- 1. Coccygeus**
- 2. Levator Ani**

Muscles of Mastication Elevation of Mandible

- 1. Masseter**
- 2. Temporalis**
- 3. Pterygoideus Lateralis**
- 4. Pterygoideus Medialis**

Muscles of Mastication Depression of Mandible

- 1. Digastric**

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