

# **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**

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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)**

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## **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**

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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**

6

- 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**

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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**

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- 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**

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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

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- 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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