A dynamic visual resource that makes complex anatomy, functional anatomy and key resistance exercises easier to learn, remember and understand. 3D anatomy section includes detailed and labeled 3D models and sequences covering anatomical language, bones, joints and joint action, muscles, respiratory and cardiovascular systems including labeled cardiac cycles. Interactive functions allow you to rotate any anatomical view 360 degrees or add and remove layers.

Anatomical planes are explained visually, and animation is used to show joint actions and muscle function during common movements such as flexion, extension, adduction, abduction, and internal/external rotation.

Resistance exercises section allows comparison of live video clips and labeled 3D animations of 24 exercises. Animated sequences can be rotated and any visible anatomy labeled. Description text in bullet point format covers correct form and technique for each exercise.

This title will help to:

- Learn, remember and revise relevant anatomy in visually memorable 3D.
- The same resistance exercises are shown as both live video clips and labeled 3D animations to aid understanding and application to real exercise.
- Use MCQ section to test your knowledge and prepare effectively for exams and training sessions.
- Export images from the software to produce beautifully illustrated and professional client information sheets

**3D ANATOMY SECTION:**

- Anatomical Language
- Skeletal System – including skeletal tissue, histology of a bone, anatomy of a long bone.
- Axial skeleton
- Vertebral column
- Thoracic Cage
- Appendicular skeleton
- Muscular System – including muscle tissue
- Axial muscles
- Appendicular muscles
- Cardiovascular System and blood vessels
- Respiratory System

**MUSCLE ATLAS:**

The anatomy section also features a comprehensive muscle atlas showing 148 individual muscles in isolation – one view showing the muscle on the bone and a view with the origin and insertion marked on the bones.

For each 3D anatomy view, interactive functions allow you to rotate and add and remove layers of anatomy. All visible structures are labeled and have associated text.

**MUSCLE FUNCTION ANIMATIONS:**

This section includes 43 3D animations of normal muscle function during movement of the joints including flexion/extension, lateral flexion, adduction/abduction, external/internal rotation, plantar flexion/dorsiflexion and more.
RESISTANCE TRAINING SECTION:
Created in consultation with Jeffrey M. Willardson, this section contains 24 live action video clips and equivalent labeled animations showing the function of muscles during the exercise when it is performed correctly.

Shoulder Girdle
Barbell Shrug
Bench Dip
Barbell Row
Push-Up
Barbell Overhead Press
Pull-Up

Shoulder Joint
Dumbbell Side Lateral
Dumbbell Chest Fly
Dumbbell Bent-Over Fly
Dumbbell External Rotation
Standing Db Front Raise

Elbow Joint
Barbell Curl
Dumbbell Triceps Kickbacks

Wrist Joint
Seated Dumbell Wrist Curls
Seated Dumbell Wrist Extensions

Hip and Knee Joint
Leg Raises
Barbell Straight Leg Deadlift
Barbell Back Squat

Ankle Joint
Toe Raises
Reverse Toe Raise

Trunk
Abdominal Crunch
Back Extension
Side Bend
Medicine Ball Trunk Rotation

All the exercises have short descriptive text of how to perform the exercise and also technique tips.

MCQ (multiple choice questions)
An interactive MCQ section with over 100 multiple choice questions based on resistance exercises allows you to revise and test yourself.

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Mac: Mac OSX10.3, 10.4, 10.5, 10.6
1.5Ghz Processor or greater, 200MB RAM, 24-bit color.
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