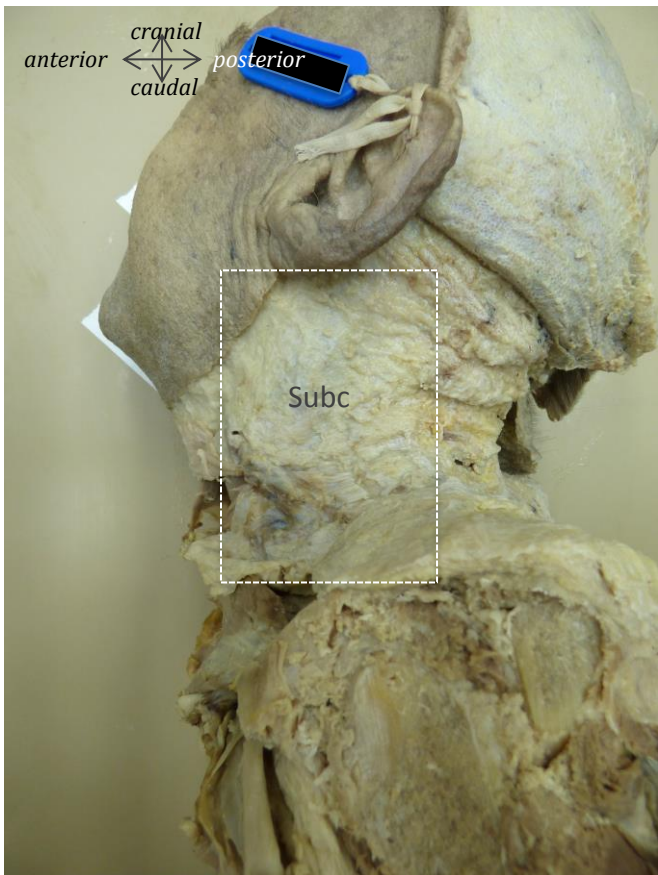
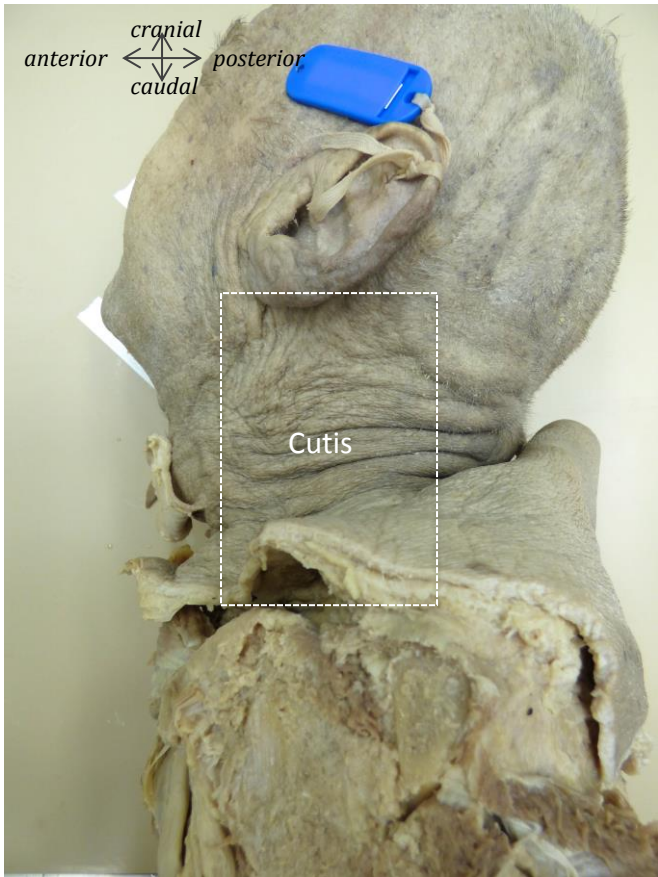


A dorsolateral dissection of the cervical neck

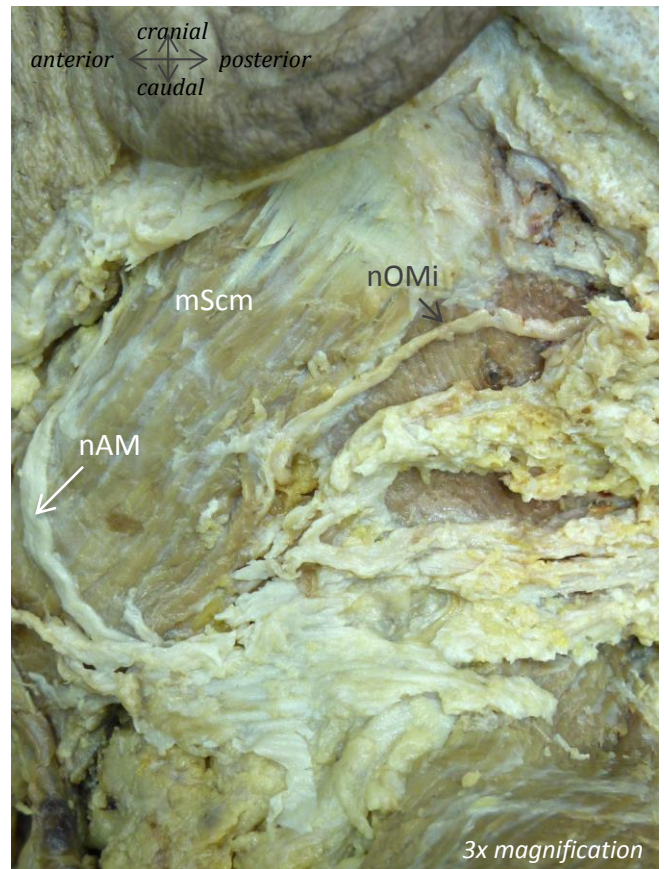
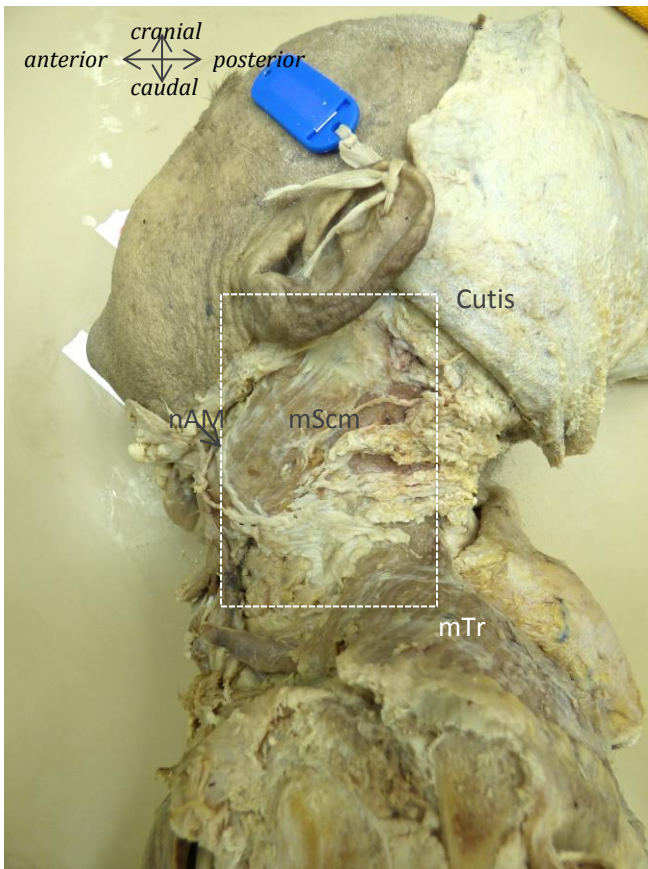
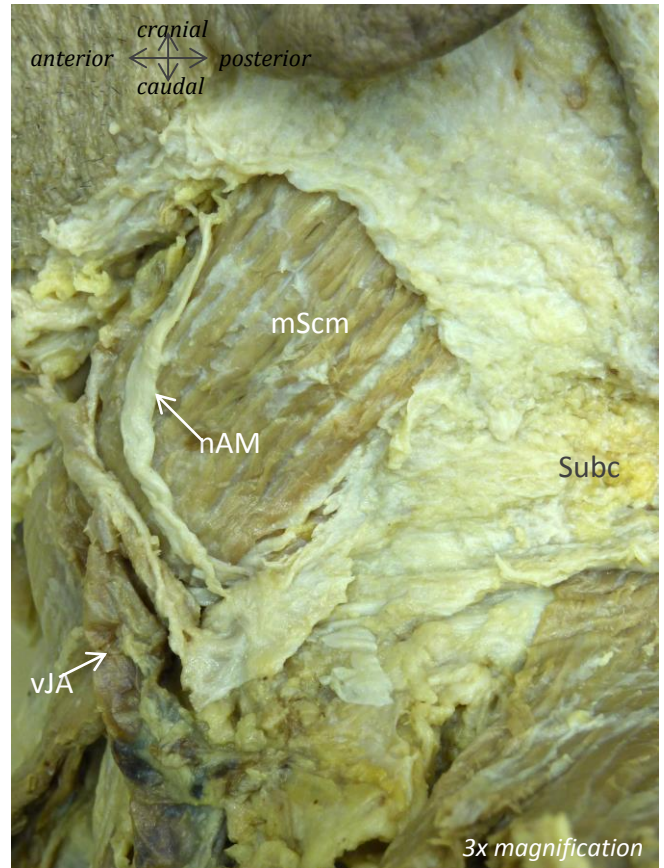
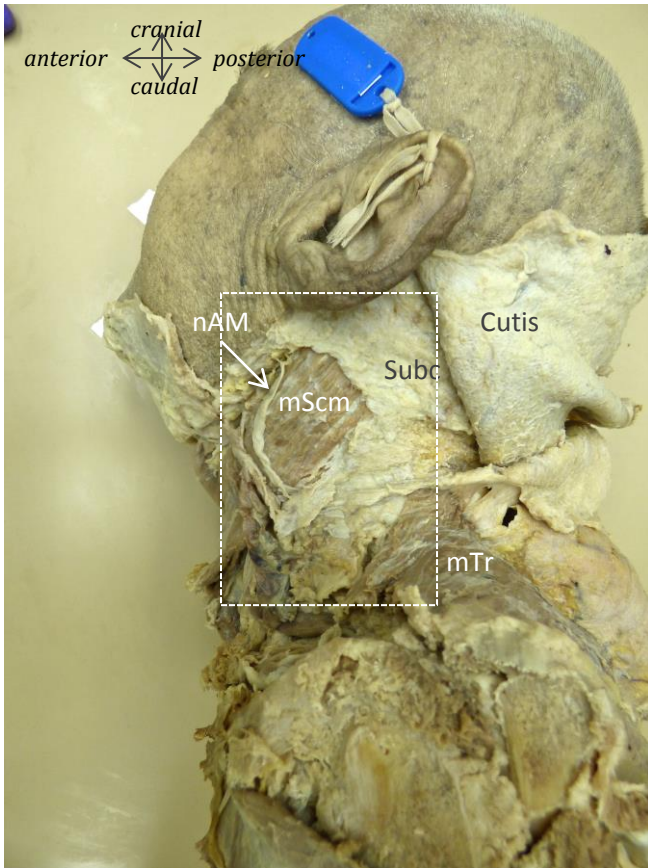
*dissection from skin to facet joints of the
cervical region, documented stepwise by high
resolution pictures with all relevant structures
labeled*

*Fabian Büsken, Noëlle Dirks, Andreas Herrler, Arno
Lataster
Department of Anatomy & Embryology
FHML, Maastricht University
The Netherlands*



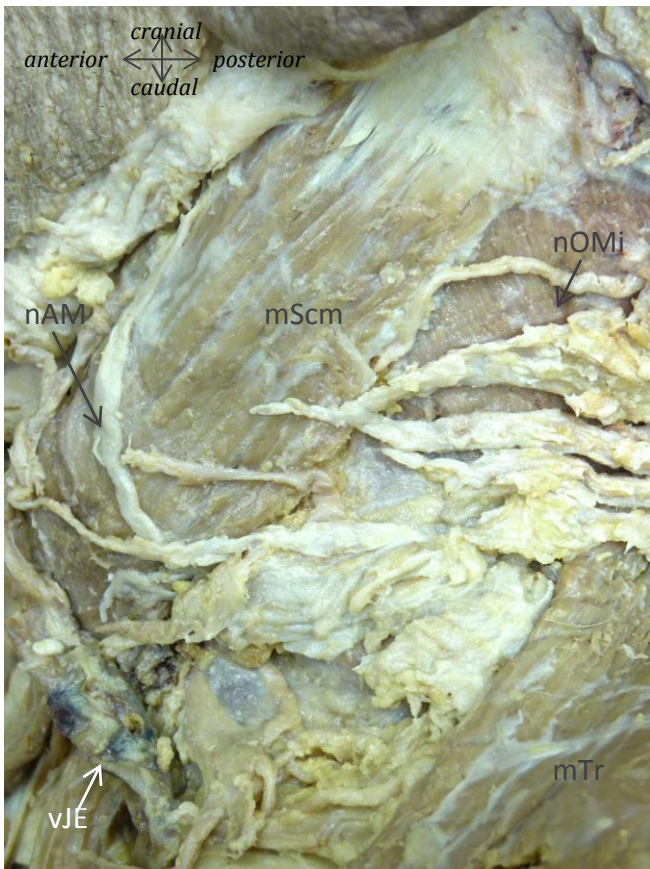
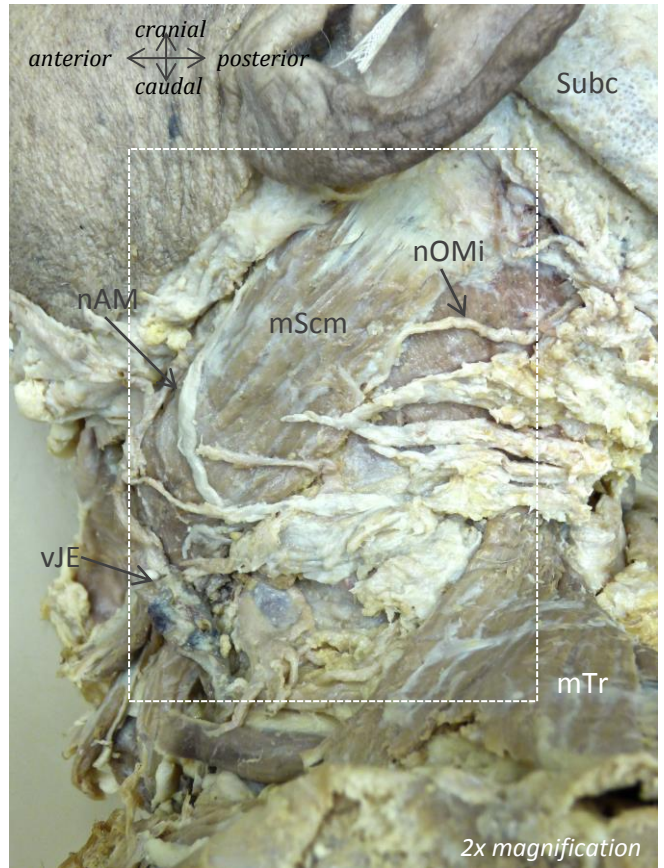
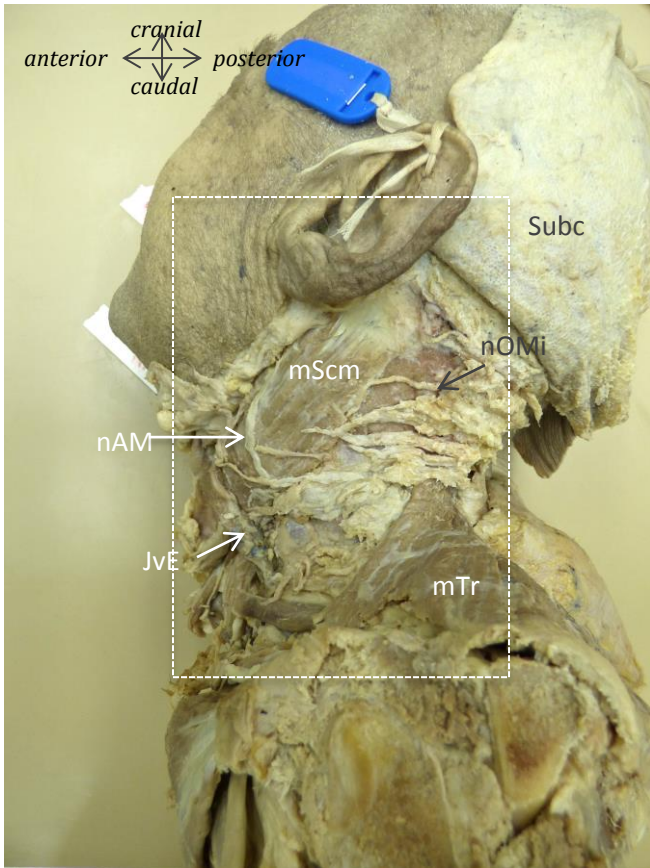
Extra: Subc = subcutis

Male, 86 years of age



Muscles: mScm = m. sternocleidomastoideus
Nerves: nOMi = n. occipitalis minor; nAM = n. auricularis magnus
Vessels: vJA = v. jugularis anterior
Extra: Subc = subcutis (folded)

Male, 86 years of age



Muscles

mScm = m. sternocleidomastoideus

mTr = m. trapezius

Nerves

nOMi = n. occipitalis minor

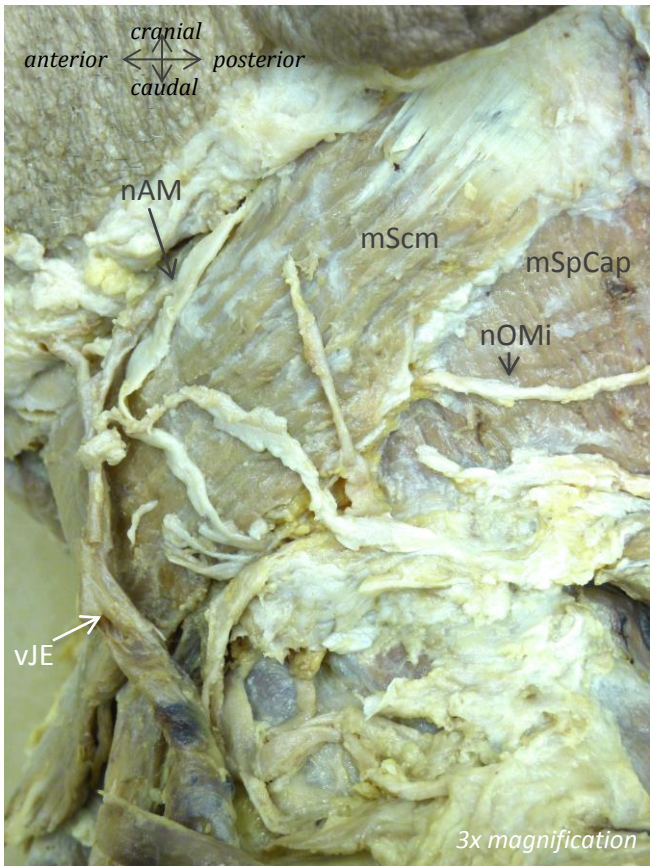
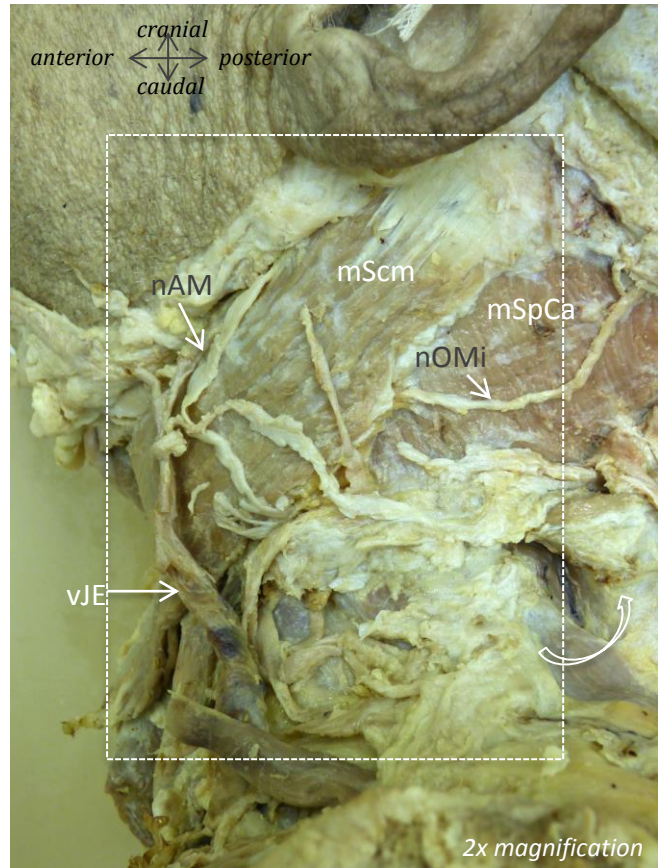
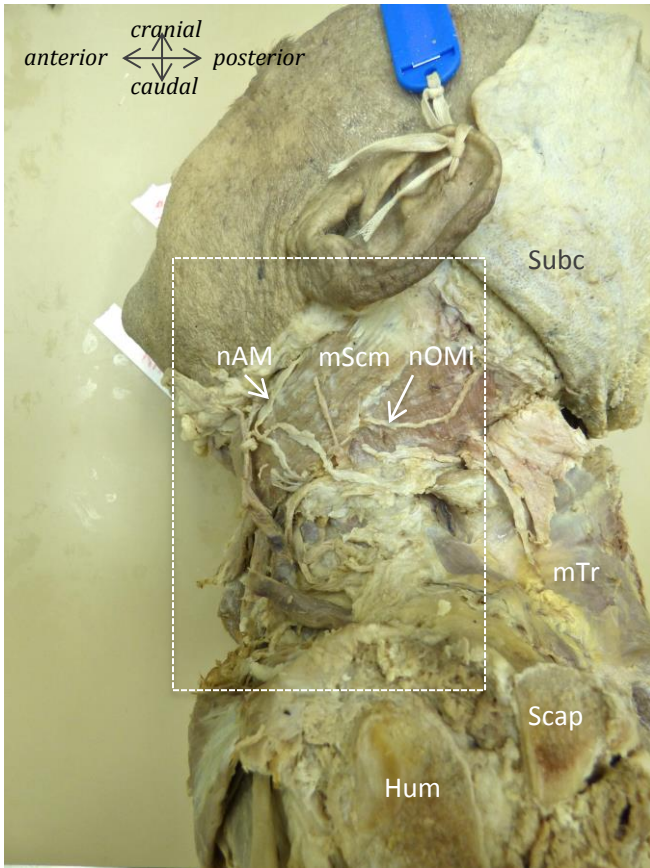
nAM = n. auricularis magnus

Vessels

vJE = v. jugularis externa

Extra

Subc = subcutis (folded)



Muscles

mScm = m. sternocleidomastoideus
 mSpCap = m. splenius capitis
 mTr = m. trapezius (folded)

Nerves

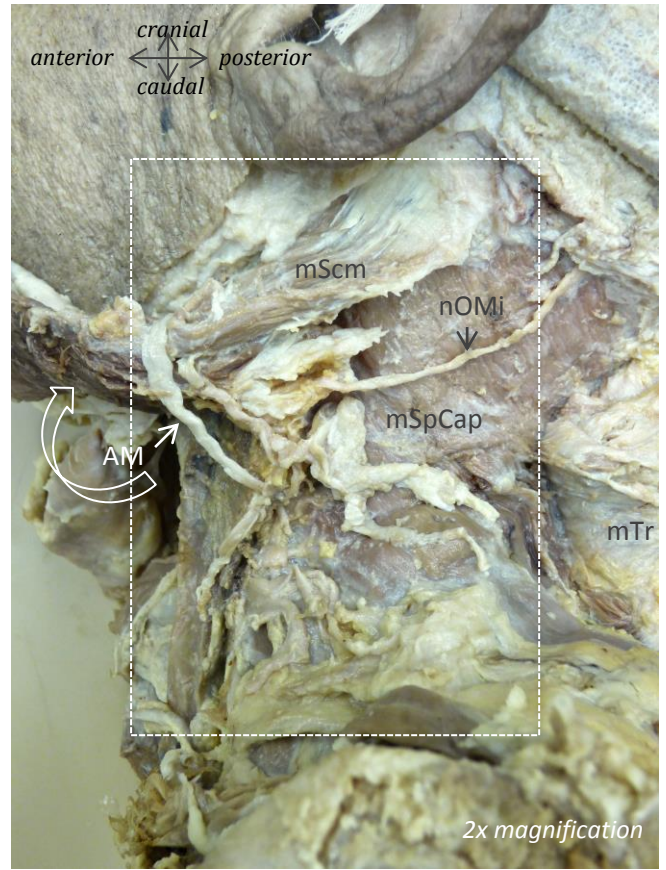
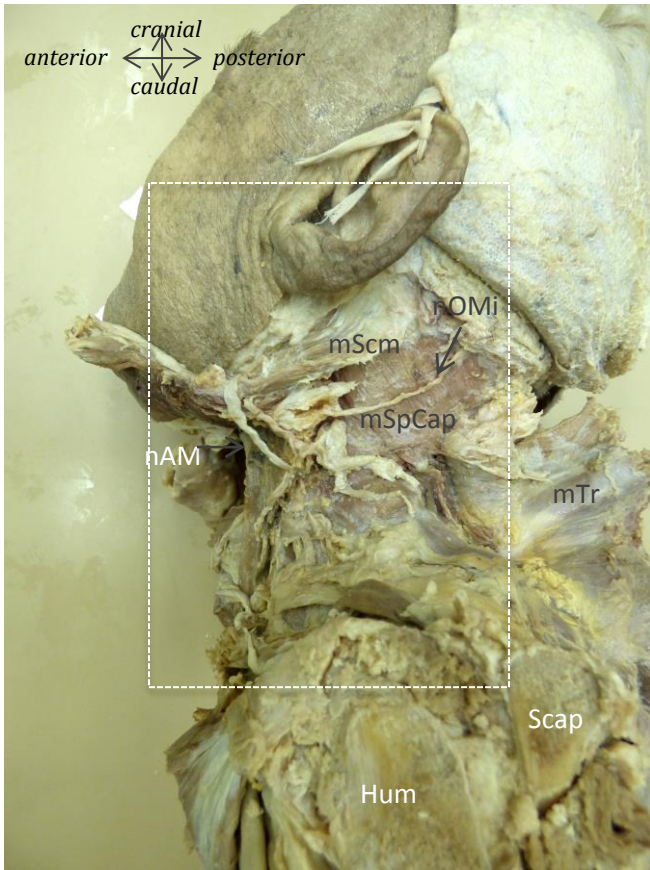
nOMi = n. occipitalis minor
 nAM = n. auricularis magnus

Vessels

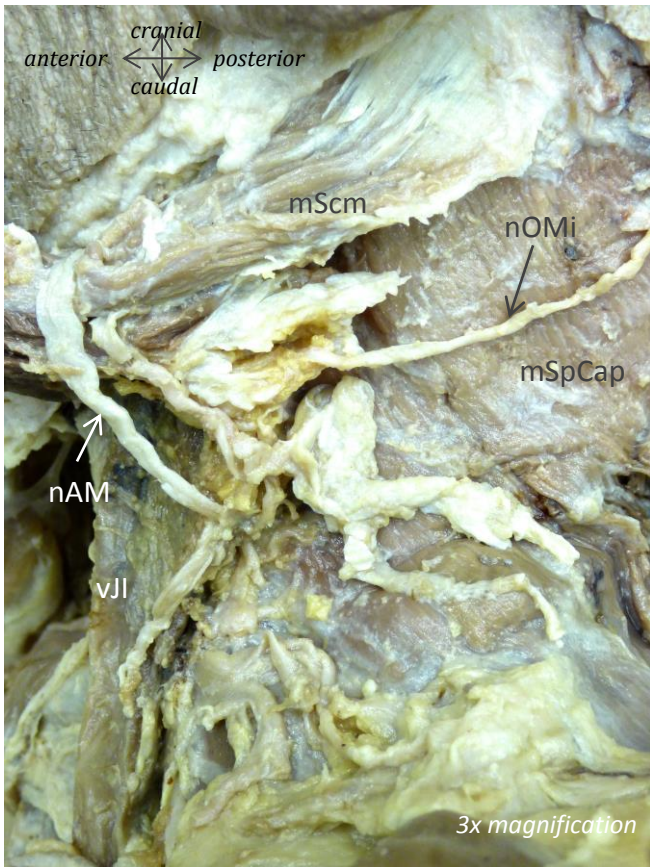
vJE = v. jugularis externa

Extra

Subc = subcutis (folded)
 Scap = scapula
 Hum = humerus



2x magnification



3x magnification

Muscles

mScm = m. sternocleidomastoideus (folded)
 mSpCap = m. splenius capitis
 mTr = m. trapezius

Nerves

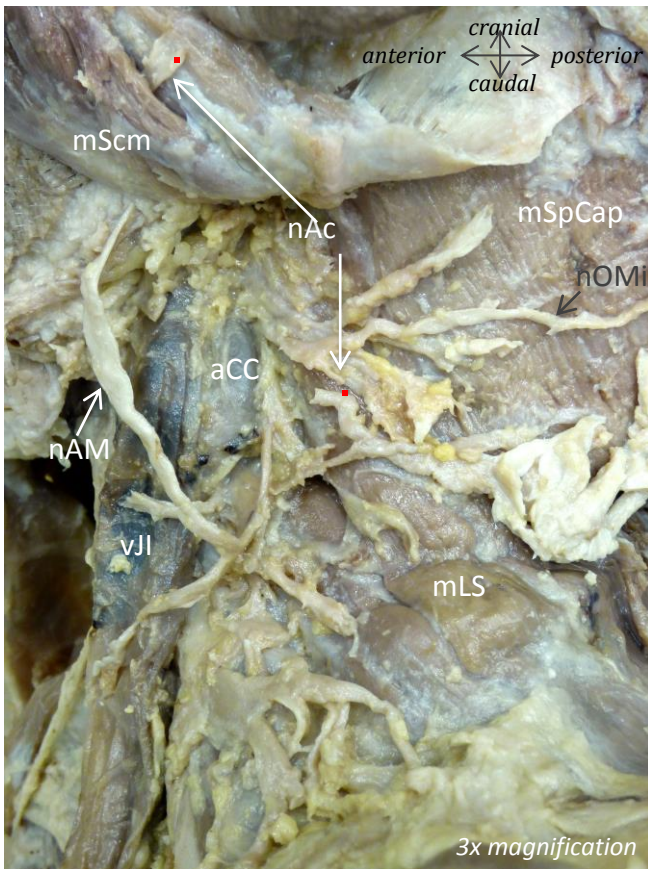
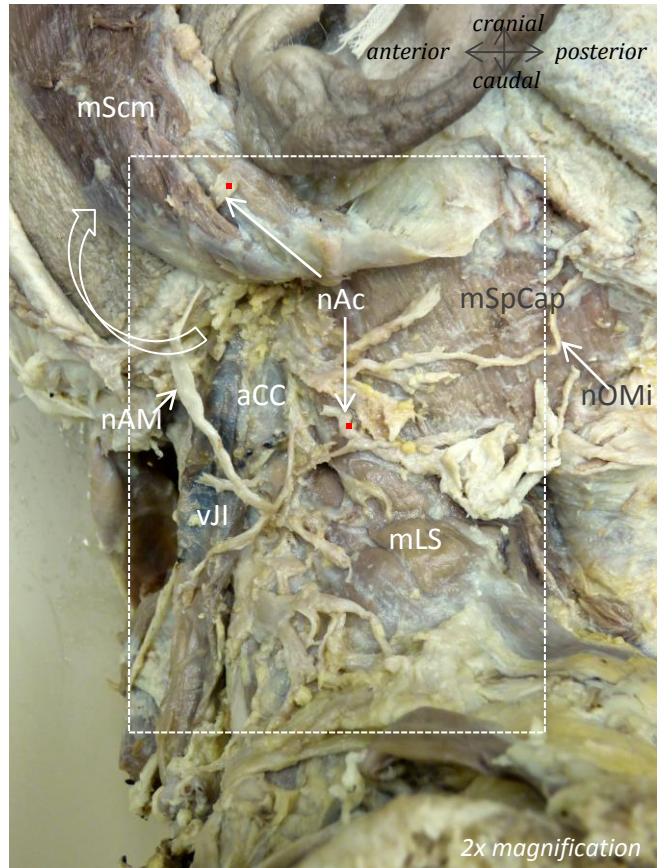
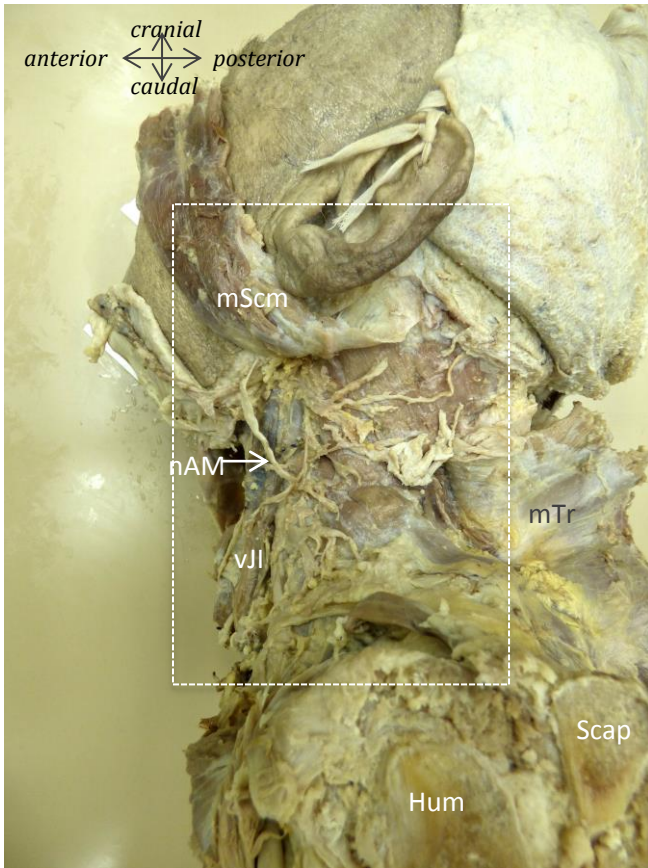
nOMi = n. occipitalis minor
 nAM = n. auricularis magnus (folded)

Vessels

vJI = v. jugularis interna

Extra

Hum = humerus
 Scap = scapula



Muscles

mScm = m. sternocleidomastoideus (folded)
 mSpCap = m. splenius capitis
 mTr = m. trapezius
 mLS = m. levator scapulae

Nerves

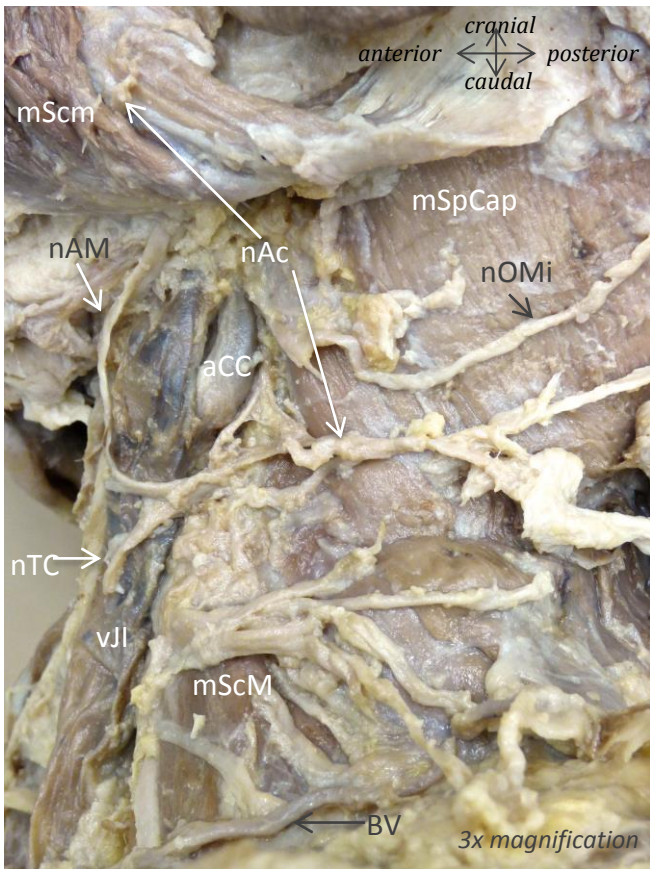
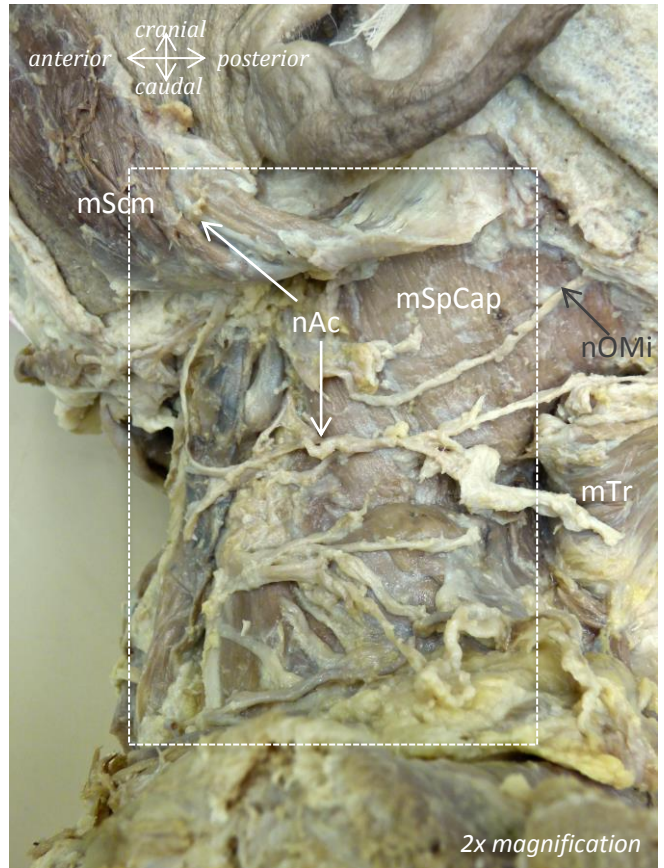
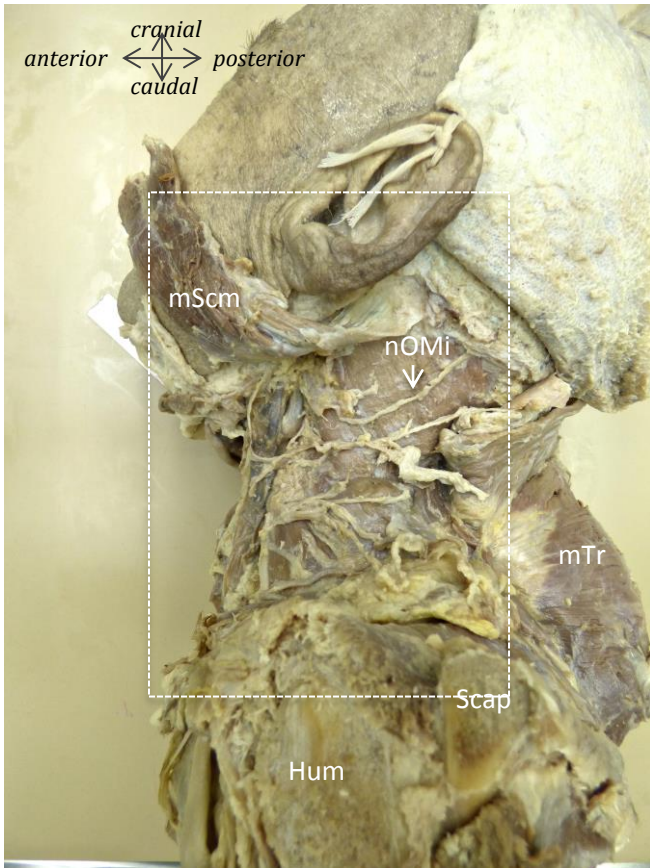
nOMi = n. occipitalis minor
 nAM = n. auricularis magnus
 nAc = n. accessorius

Vessels

vJI = v. jugularis interna
 aCC = a. carotis communis

Extra

Scap = scapula
 Hum = humerus
 • = nAc (cut)



Muscles

mScM = m. sternocleidomastoideus (folded)
 mSpCap = m. splenius capitis
 mTr = m. trapezius
 mScM = scalenus medius

Nerves

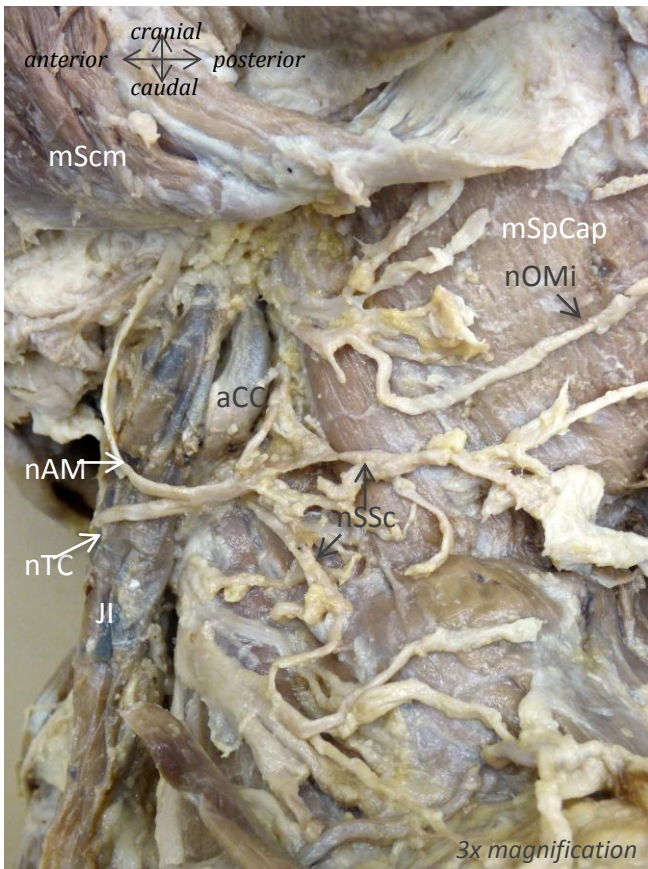
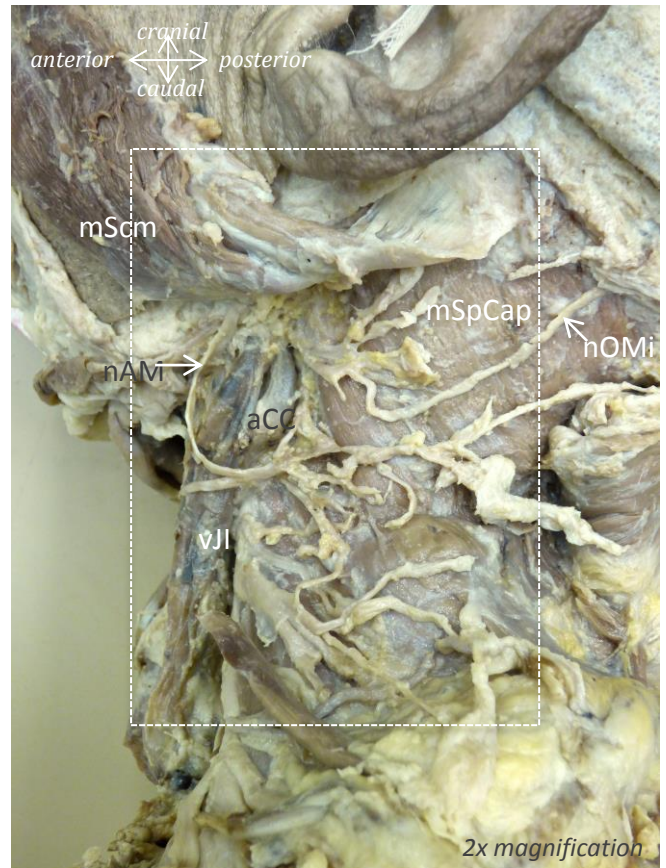
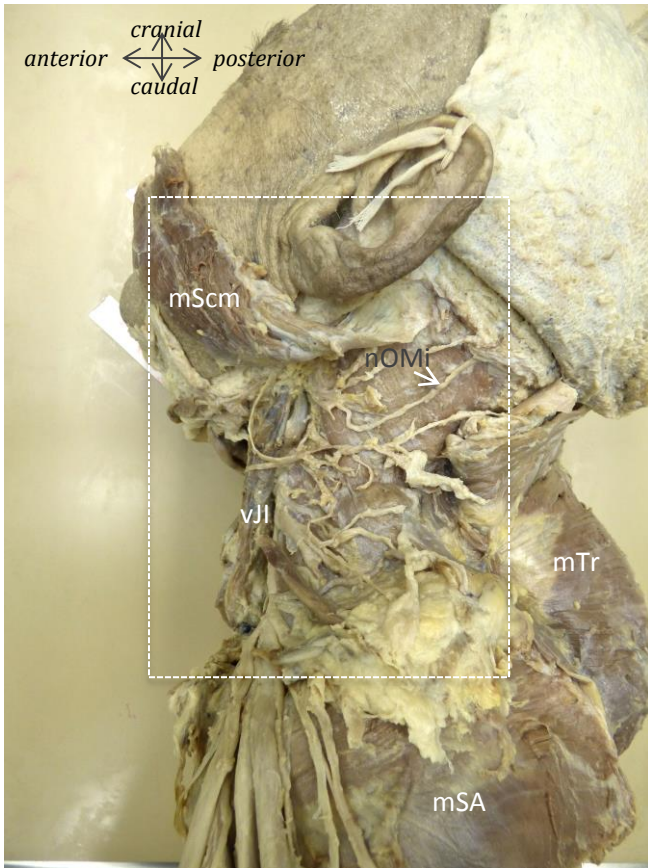
nOMi = n. occipitalis minor
 nAM = n. auricularis magnus
 nTC = n. transversus colli
 nAc = n. accessorius

Vessels

vJl = v. jugularis interna
 aCC = a. carotis communis
 BV = blood vessel

Extra

Scap = scapula
 Hum = humerus



Muscles

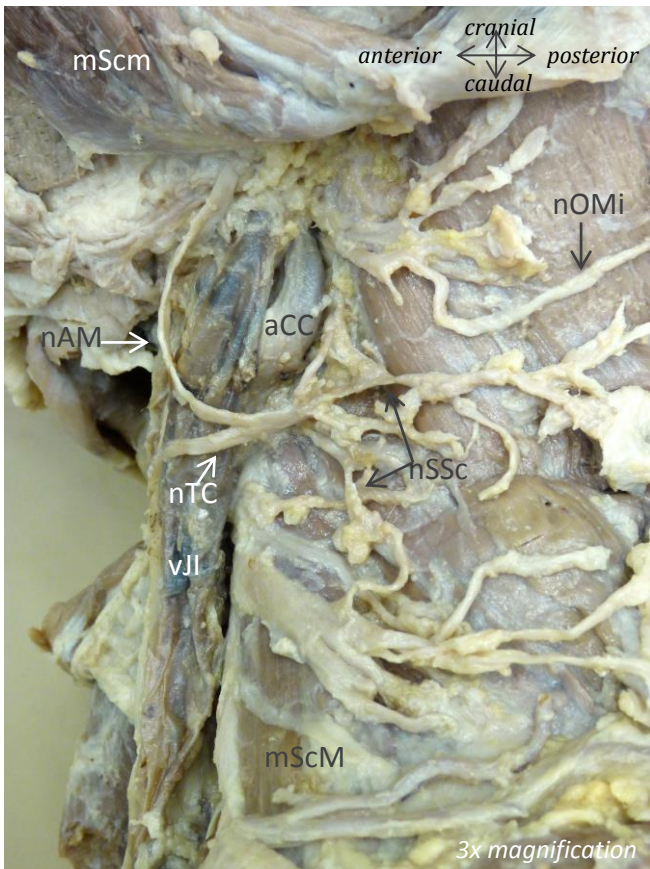
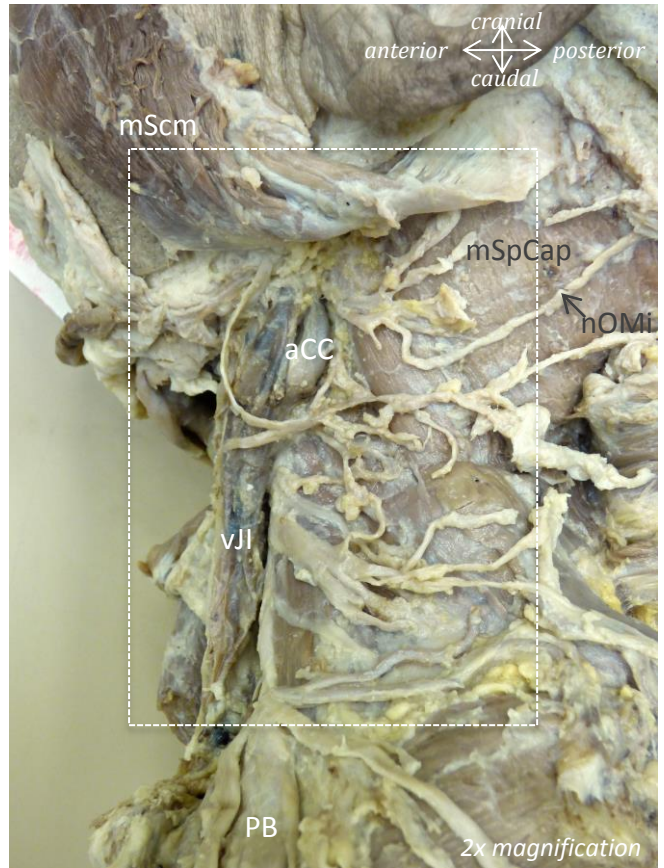
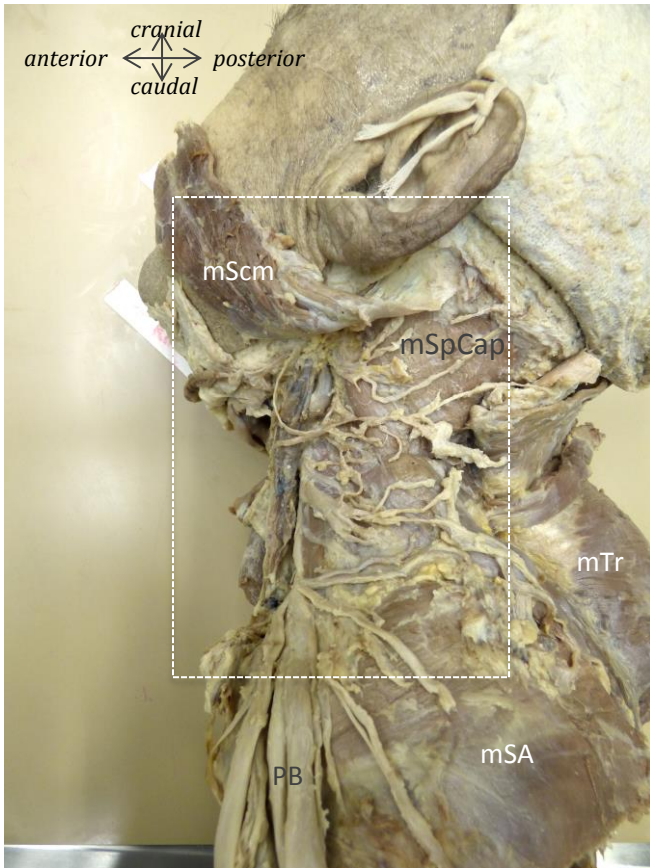
- mScm = m. sternocleidomastoideus
- mSpCap = m. splenius capitis
- mTr = m. trapezius
- mSA = m. serratus anterior

Nerves

- nOMi = n. occipitalis minor
- nAM = n. auricularis magnis
- nTC = n. transversus colli
- nSSc = n. suprascapularis

Vessels

- vJI = v. jugularis interna
- aCC = a. carotis communis



Muscles

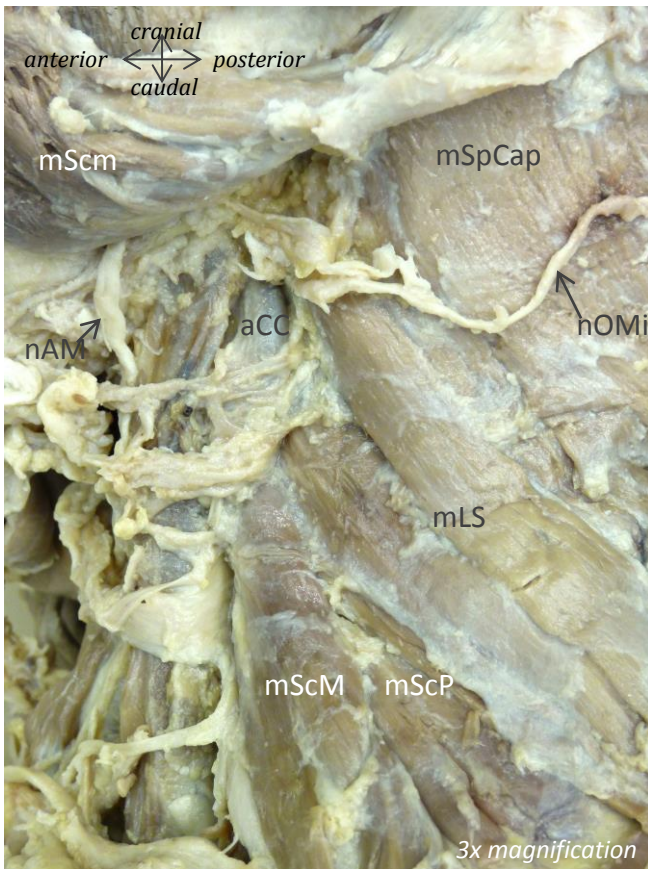
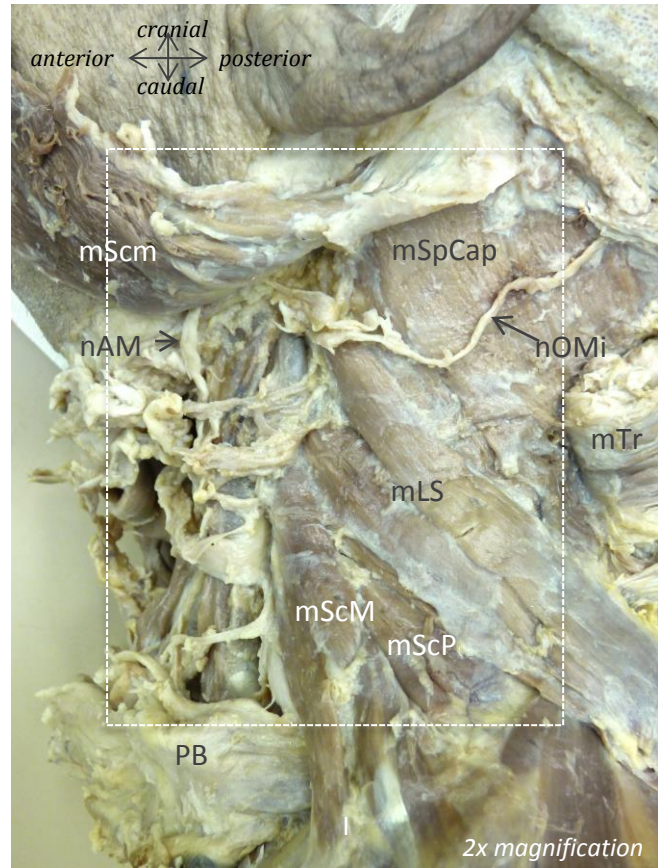
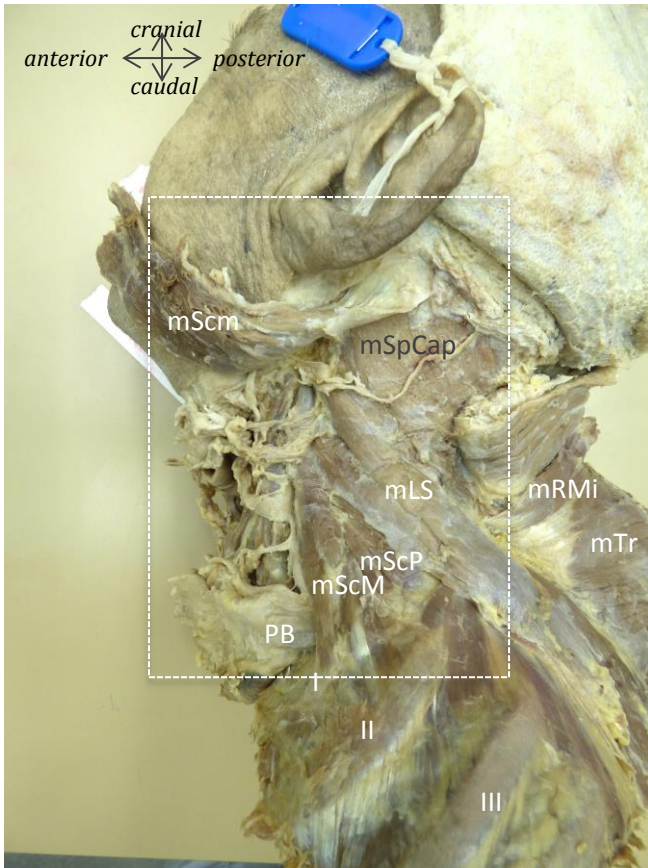
- mScm = m. sternocleidomastoideus (folded)
- mSpCap = m. splenius capitis
- mTr = m. trapezius (folded)
- mSA = m. serratus anterior
- mScM = m. scalenus medius

Nerves

- nOMi = n. occipitalis minor
- nAM = n. auricularis magnus
- PB = plexus brachialis
- nTC = n. transversus colli
- nSSc = n. suprascapularis

Vessels

- vJl = v. jugularis interna
- aCC = a. carotis communis



Muscles

- mScm = m. sternocleidomastoideus (folded)
- mSpCap = m. splenius capitis
- mLS = m. levator scapulae
- mRMi = m. rhomboideus minor (folded)
- mTr = m. trapezius (folded)
- mScM = m. scalenus medius
- mScP = m. scalenus posterior

Nerves

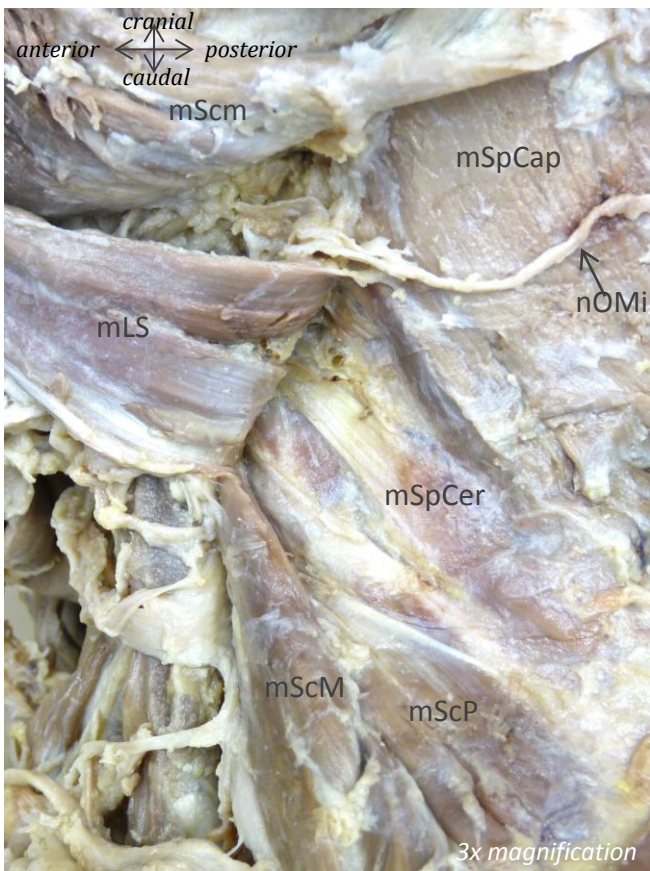
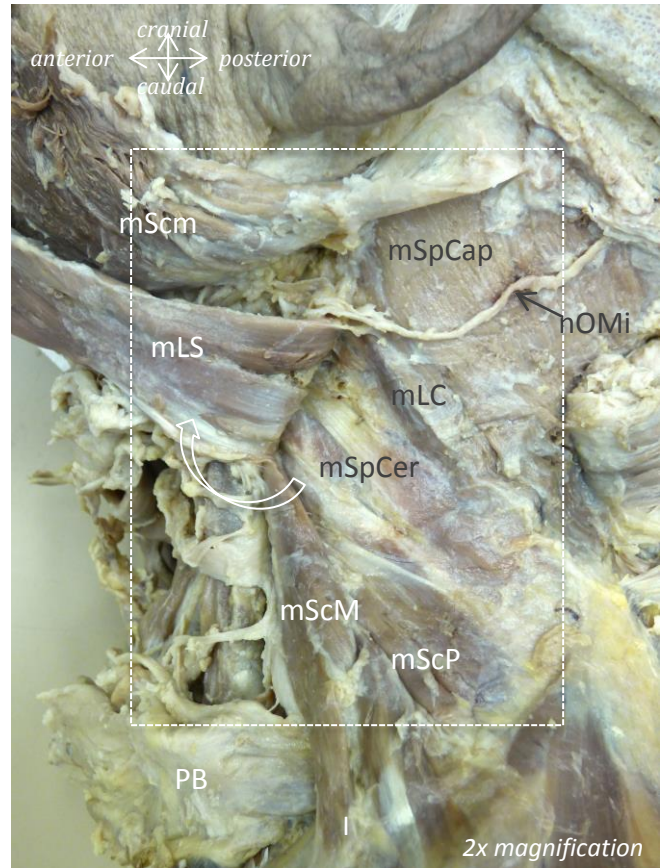
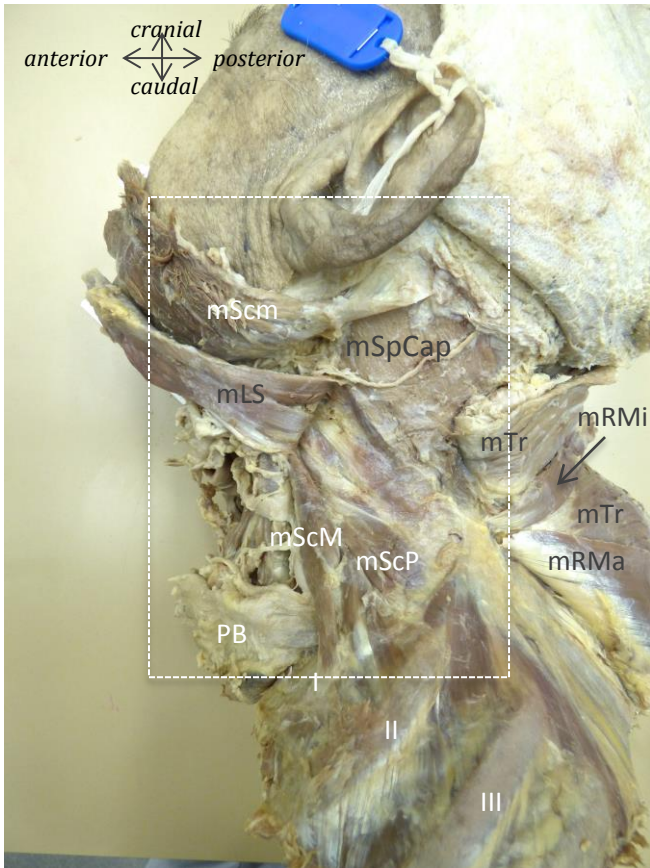
- nOMi = n. occipitalis minor
- nAM = n. auricularis magnus
- PB = plexus brachialis

Vessels

- aCC = a. carotis communis

Extra

- I, II, III = costae



Muscles

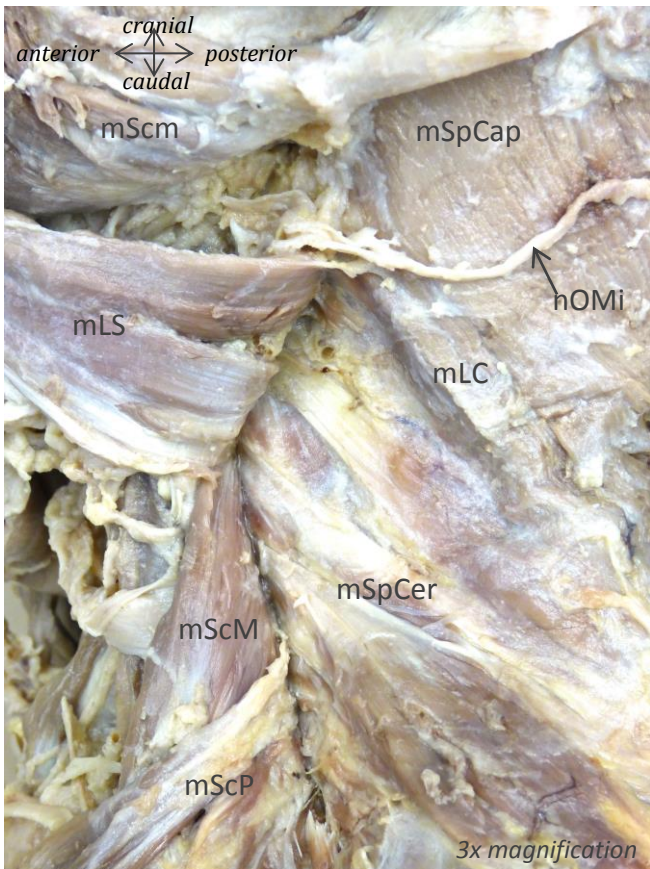
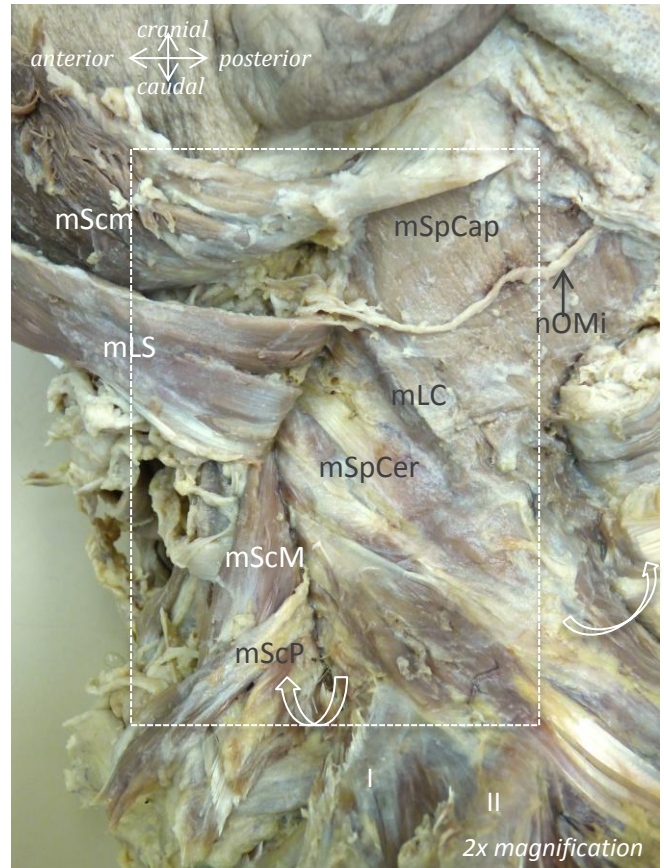
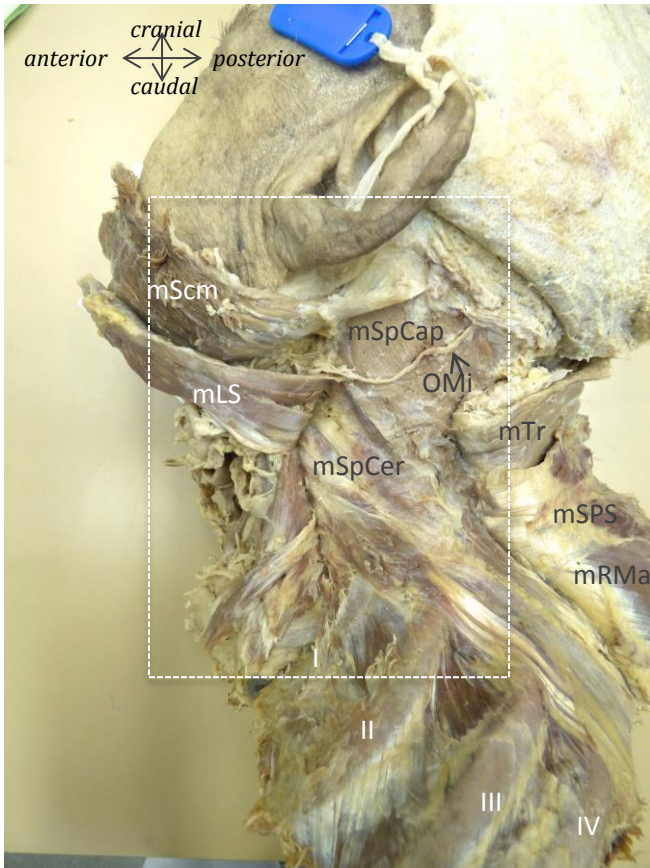
- mScm = m. sternocleidomastoideus
- mLS = m. levator scapulae
- mSpCap = m. splenius capitis
- mSpCer = m. splenius cervicis
- mLC = m. longissimus capitis
- mTr = m. trapezius
- mRMI = m. rhomboideus minor
- mRMA = m. rhomboideus major
- mScM = m. scalenus medius
- mScP = m. scalenus posterior

Nerves

- nOMi = n. occipitalis minor

Extra

- I, II, III = costae



Muscles

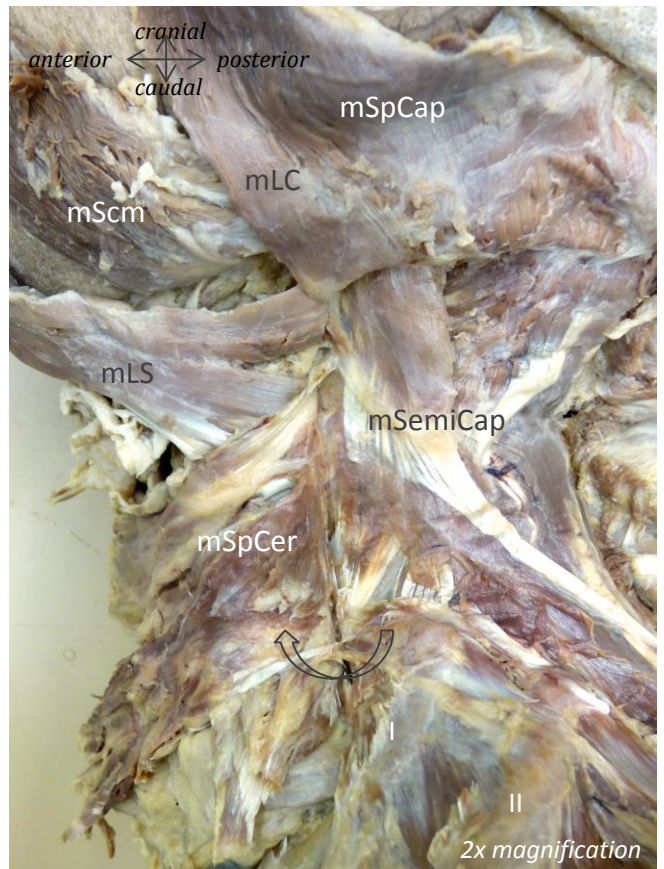
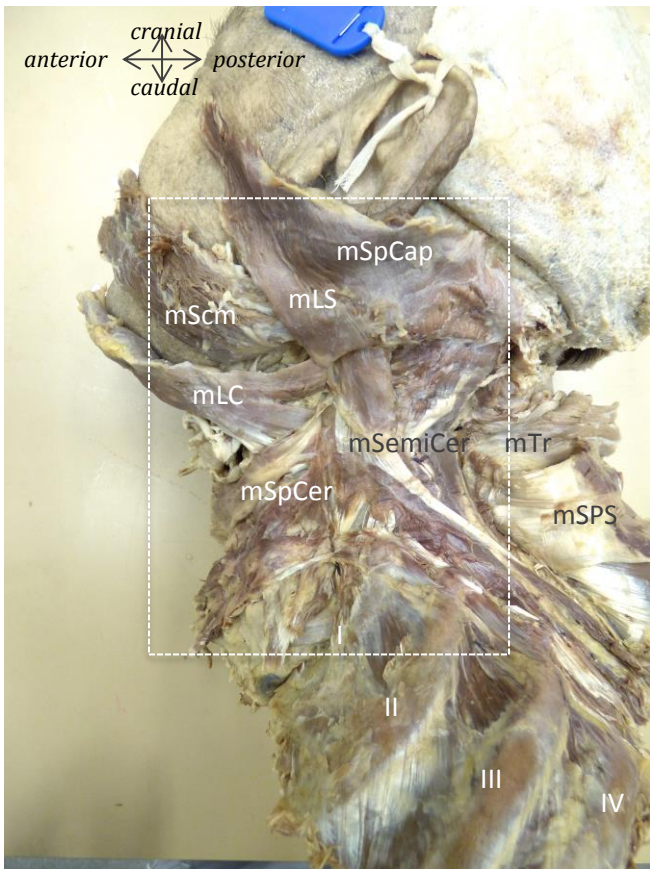
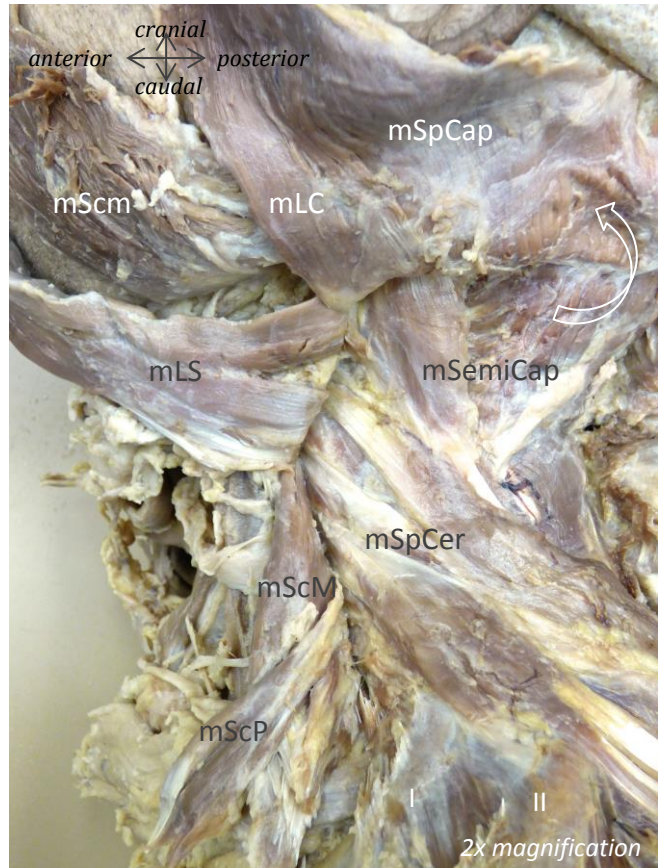
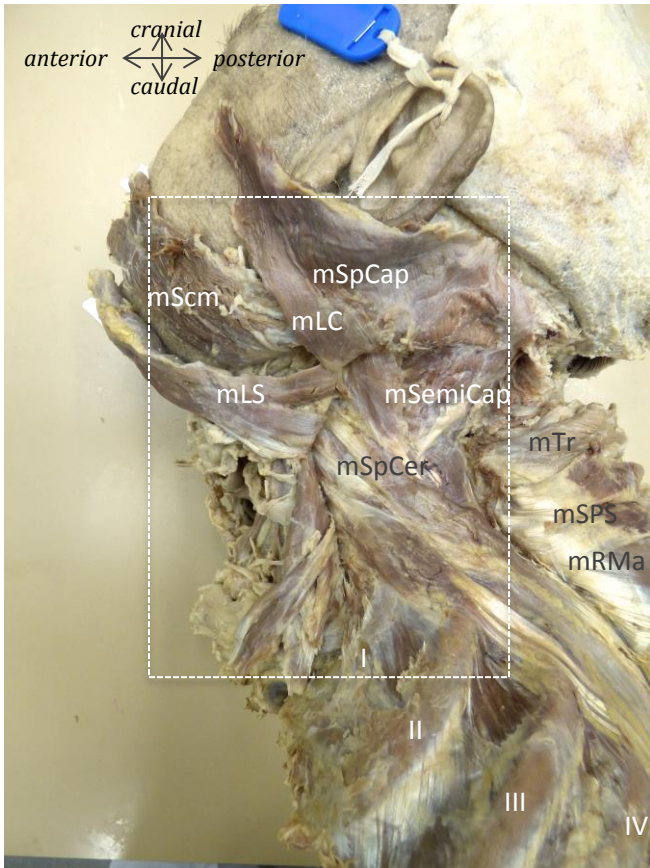
- mScm = m. sternocleidomastoideus
- mLS = m. levator scapulae
- mSpCap = m. splenius capitis
- mSpCer = m. splenius cervicis
- mLC = m. longissimus capitis
- mTr = m. trapezius
- mRMA = m. rhomboideus major
- mSPS = m. serratus posterior superior
- mScM = m. scalenus medius
- mScP = m. scalenus posterior

Nerves

- nOMi = n. occipitalis minor

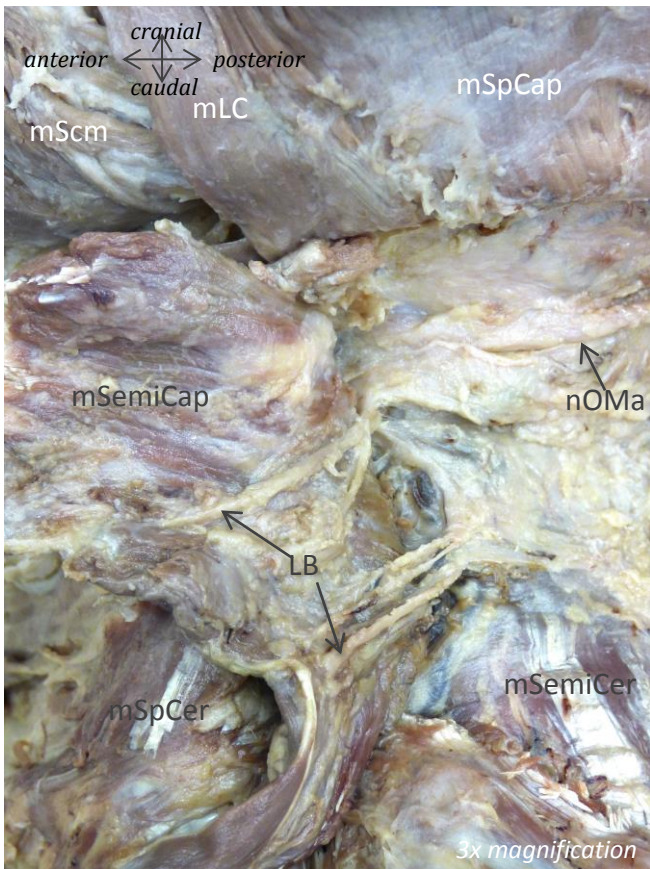
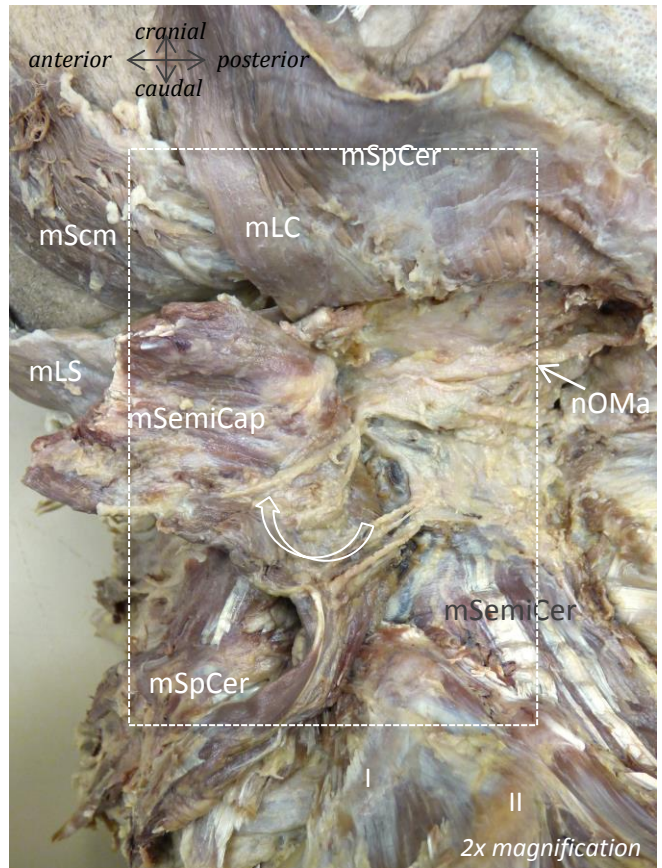
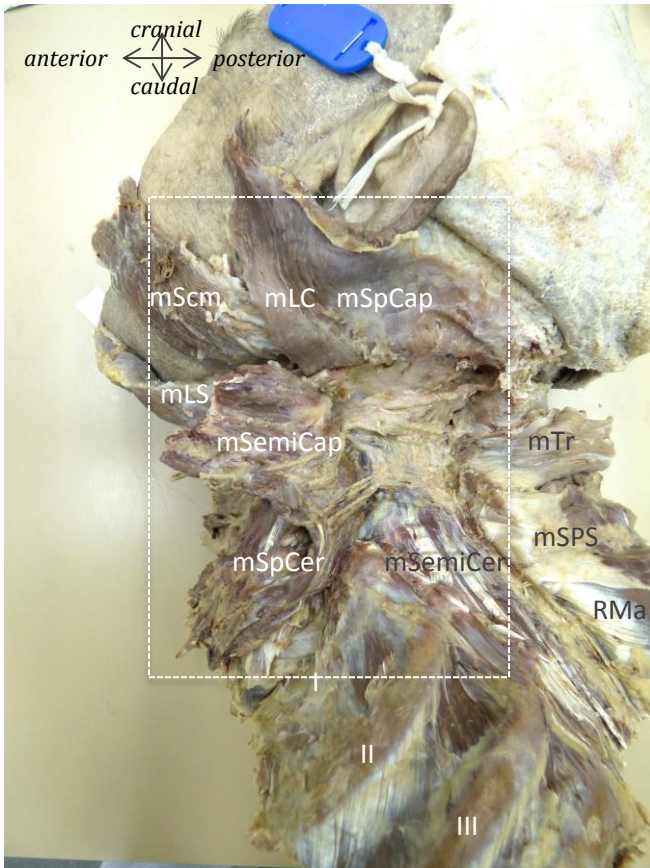
Extra

- I, II, III, IV = costae



Muscles: mScm = m. sternocleidomastoideus; mLS = m. levator scapulae; mSpCap = m. splenius capitis; mSpCer = m. splenius cervicis; mSemiCap = m. semispinalis capitis; mLC= m. longissimus capitis; mTr = m. trapezius; mRMa = m. rhomboideus major; mSPS = m. serratus posterior superior
Extra: I,II,III,IV = costae

Male, 86 years of age



Muscles

- mScm = m. sternocleidomastoideus
- mLS = m. levator scapulae
- mSpCap = m. splenius capitis
- mSpCer = m. splenius cervicis
- mSemiCap = m. semispinalis capitis
- mSemiCer = m. semispinalis cervicis
- mLC = m. longissimus capitis
- mTr = m. trapezius
- mRMa = m. rhomboideus major
- mSPS = m. serratus posterior superior

Nerves

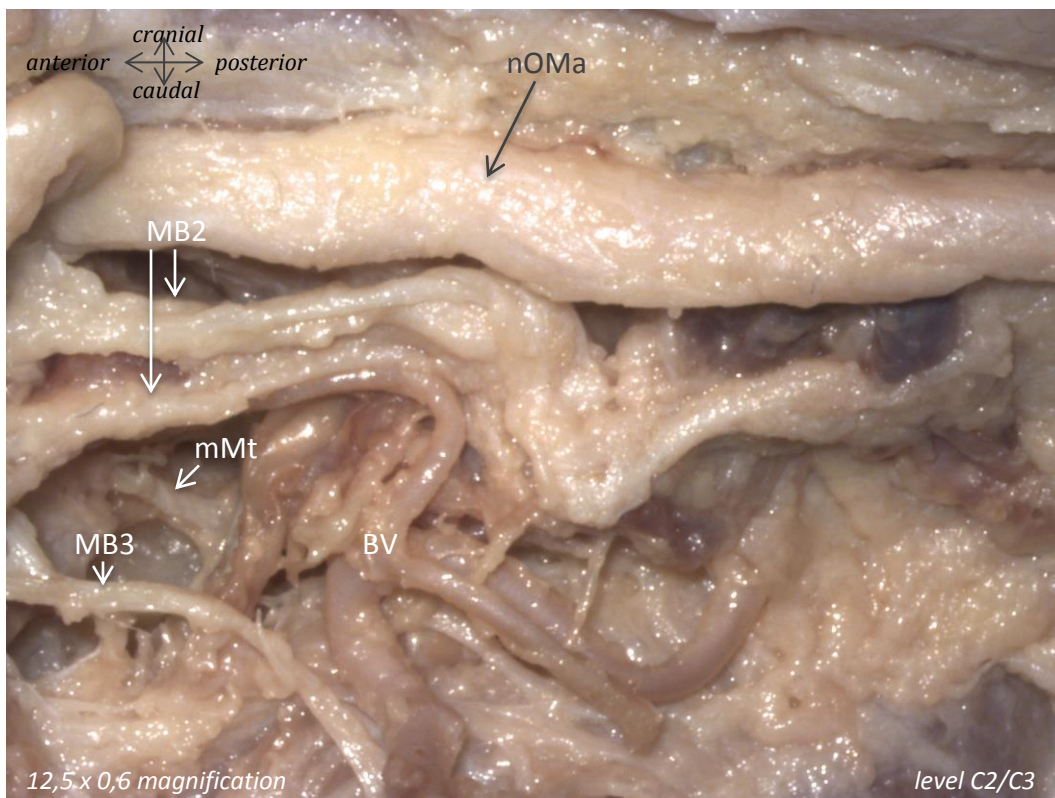
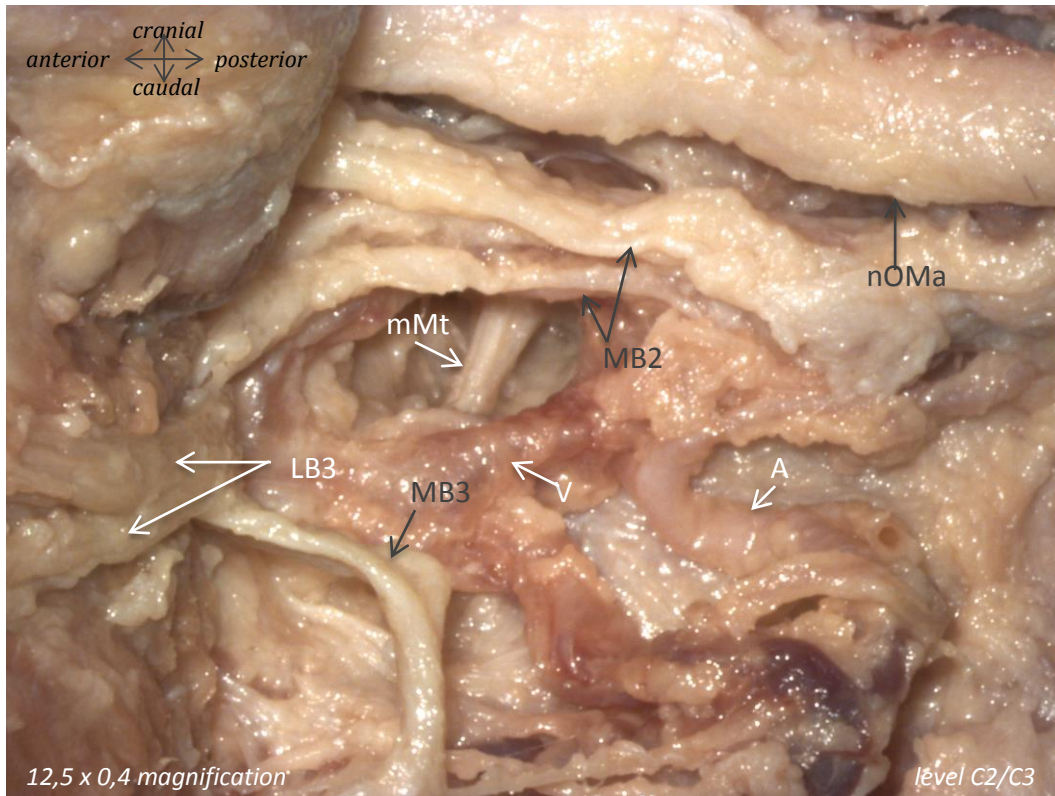
- nOMa = n. occipitalis major
- LB = lateral branch

Extra

- I, II, III = costae



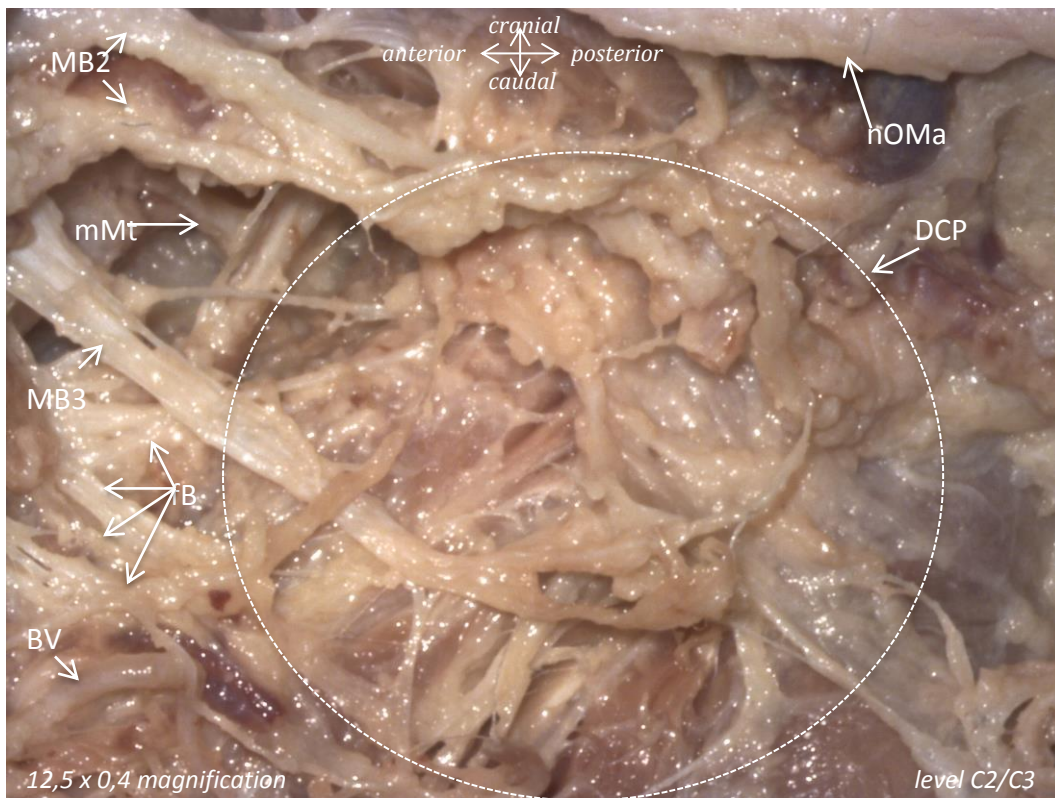
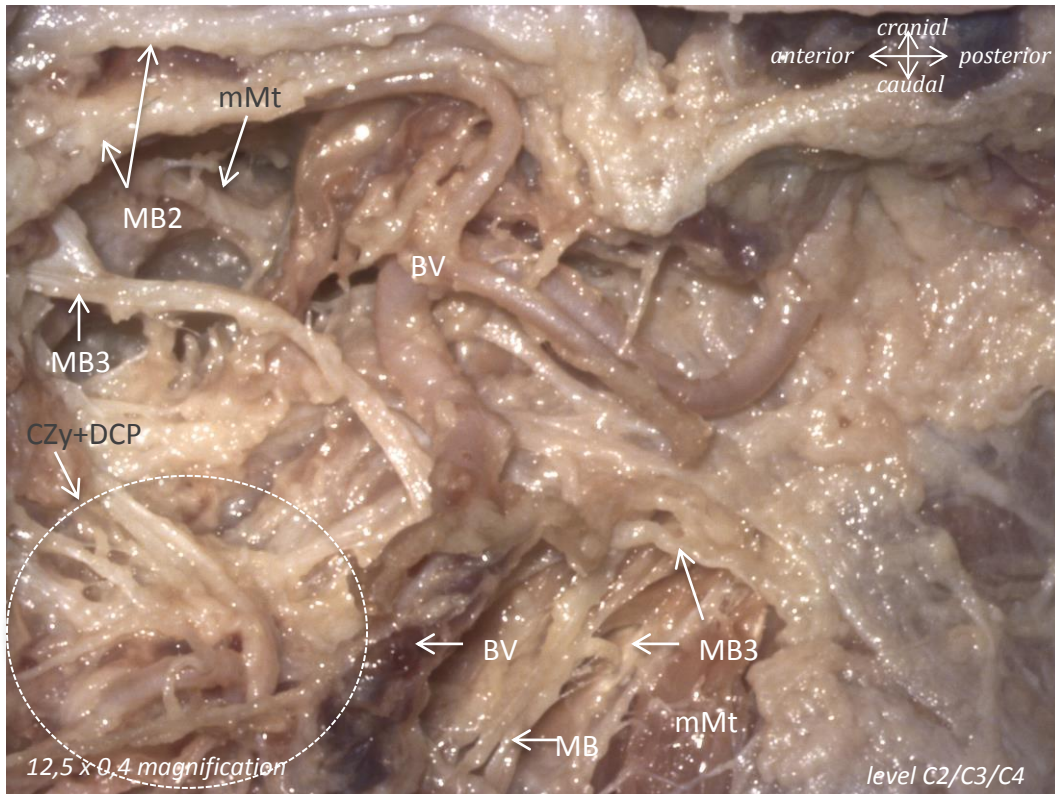
Muscles: mSemiCap = m. semispinalis capitis; mSemiCer = m. semispinalis cervicis
Nerves: nOMa = n. occipitalis major; LB = lateral branch



Muscles: mMt = m. multifidus

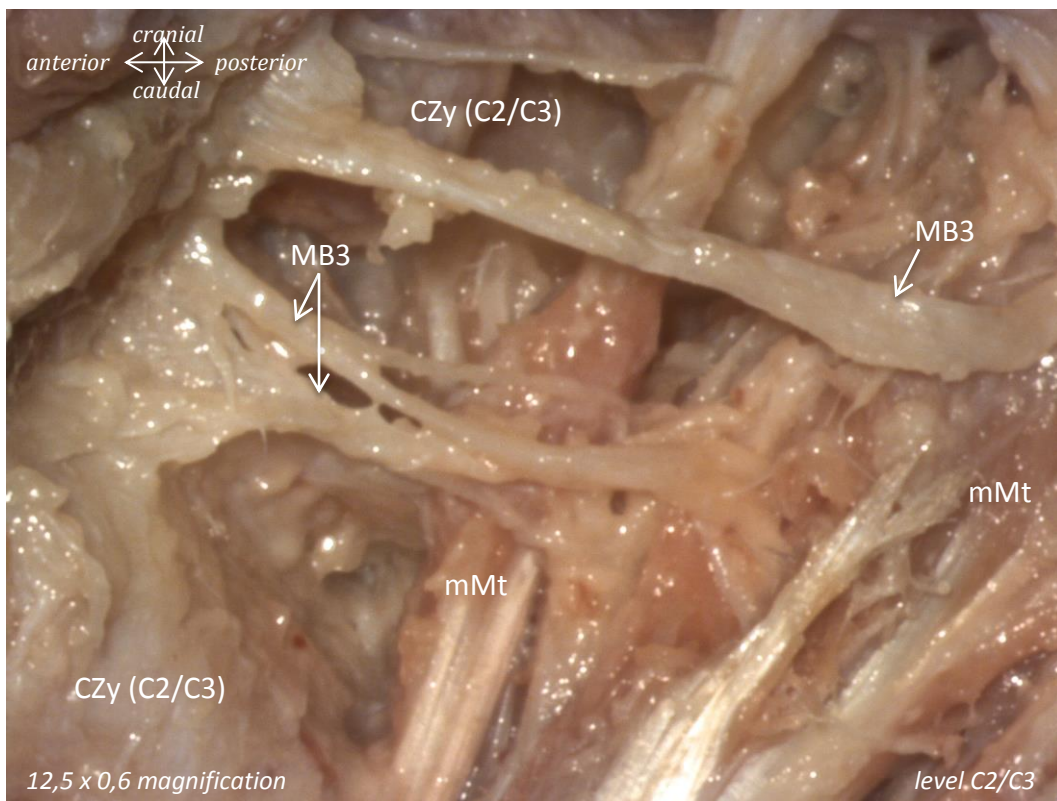
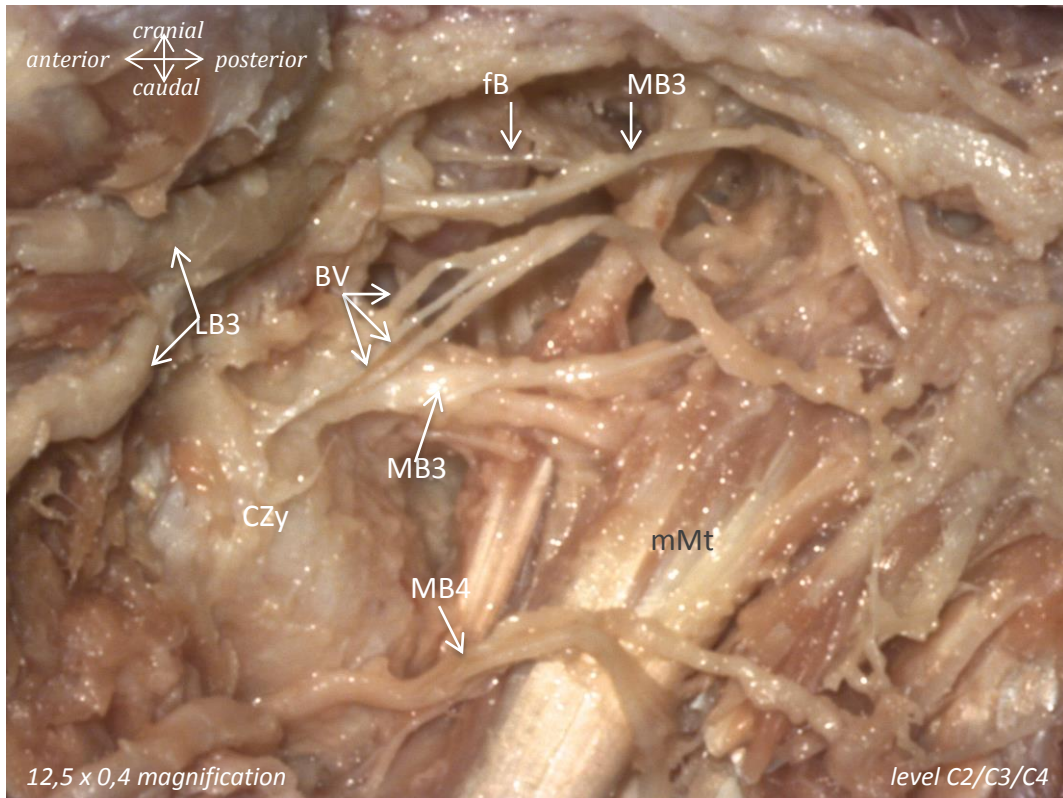
Nerves: nOma = n. occipitalis major; LB = lateral branch; MB = medial branch

Vessels: BV = blood vessel; A = artery; V = vene

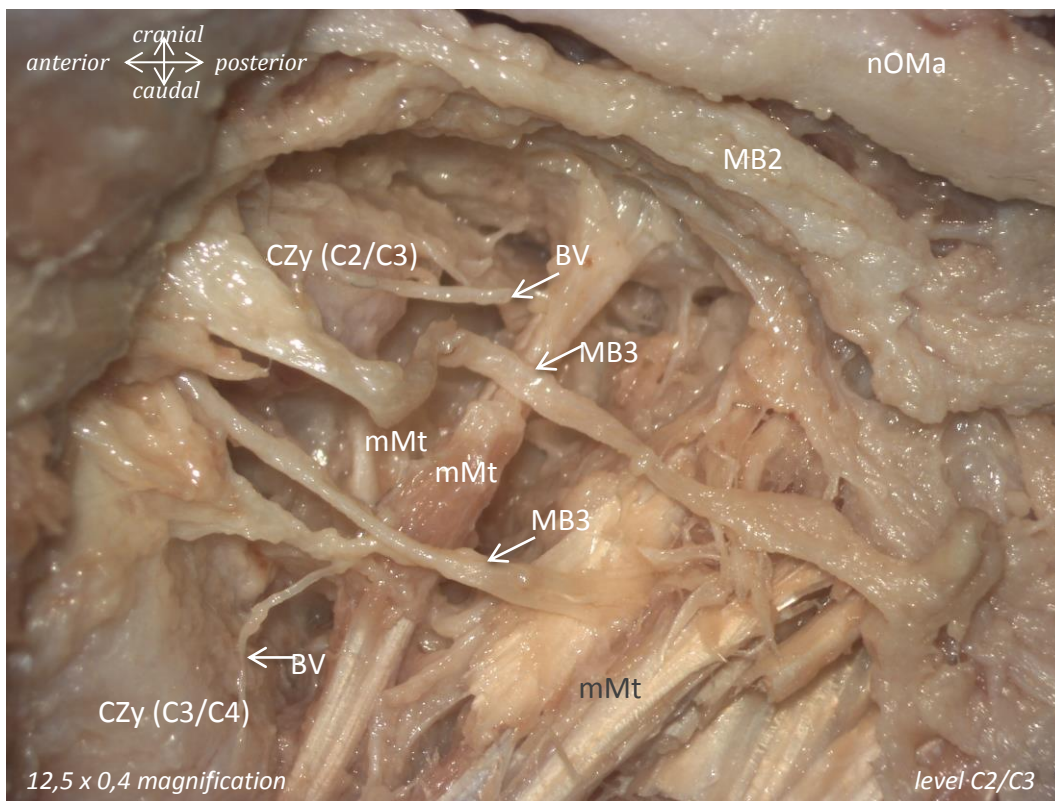
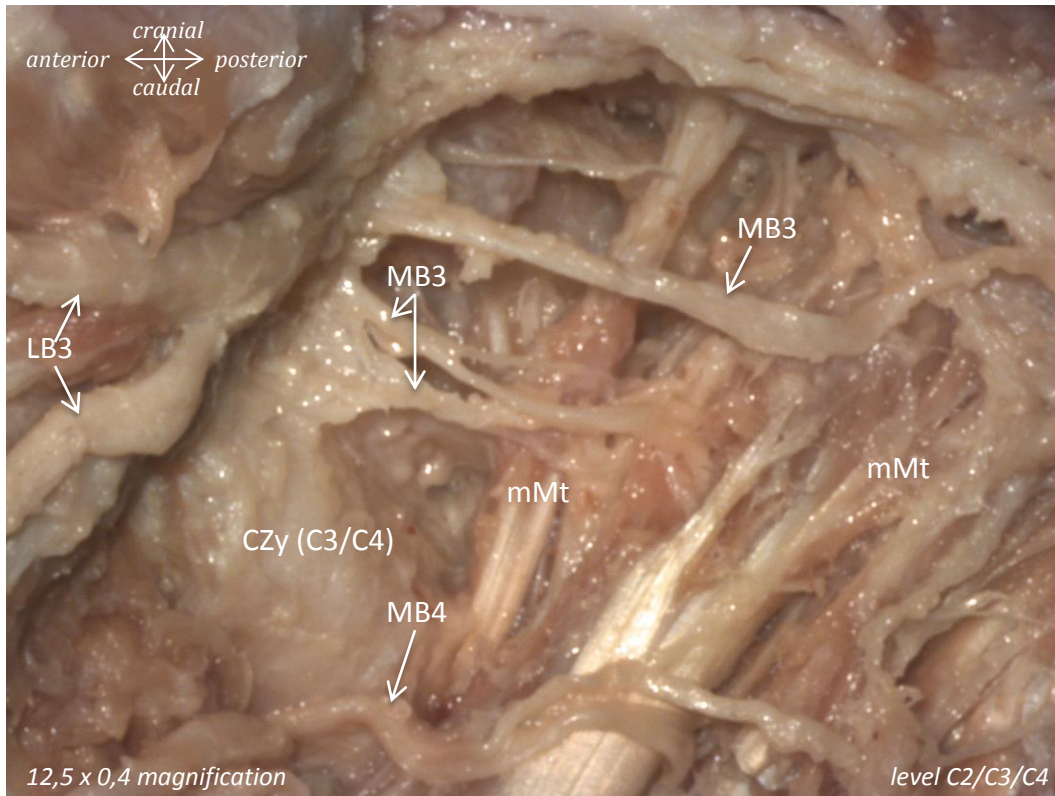


Muscles: mMt = m. multifidus
Nerves: nOMa = n. occipitalis major; LB = lateral branch; MB = medial branch; fB = facet joint branch; DCP = deep cervical plexus (innervation "plexus alike")
Vessels: BV = blood vessel
Extra: CZy = capsula articulation zygapophysealis

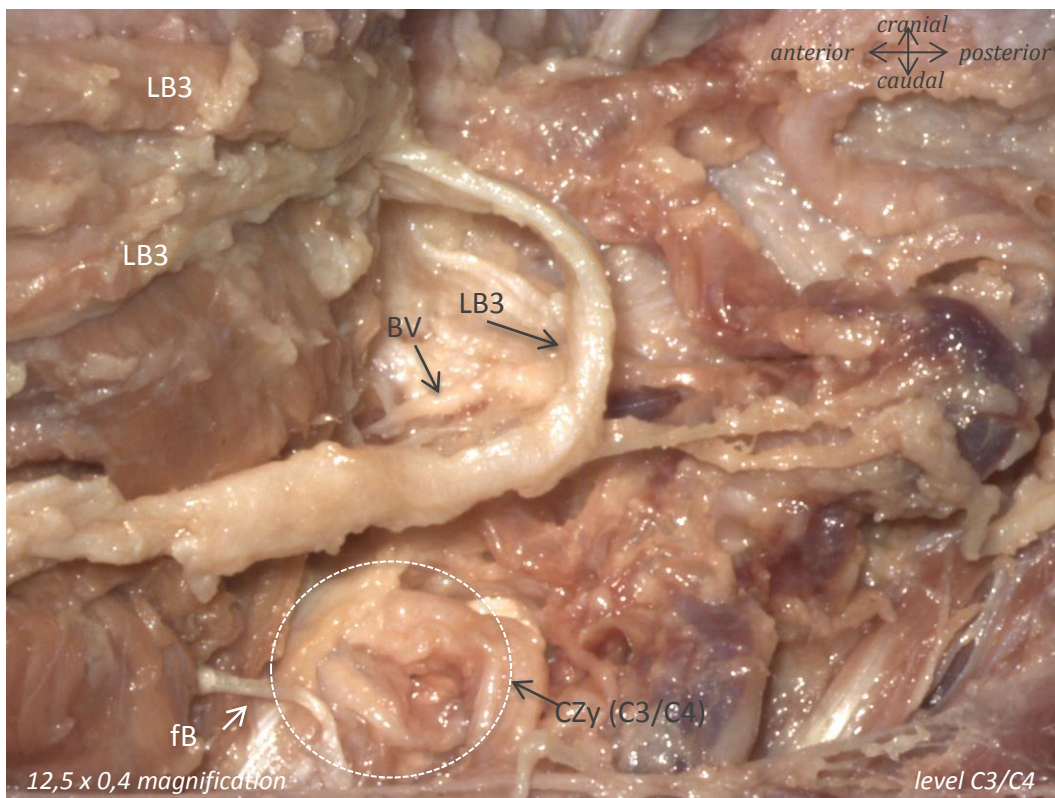
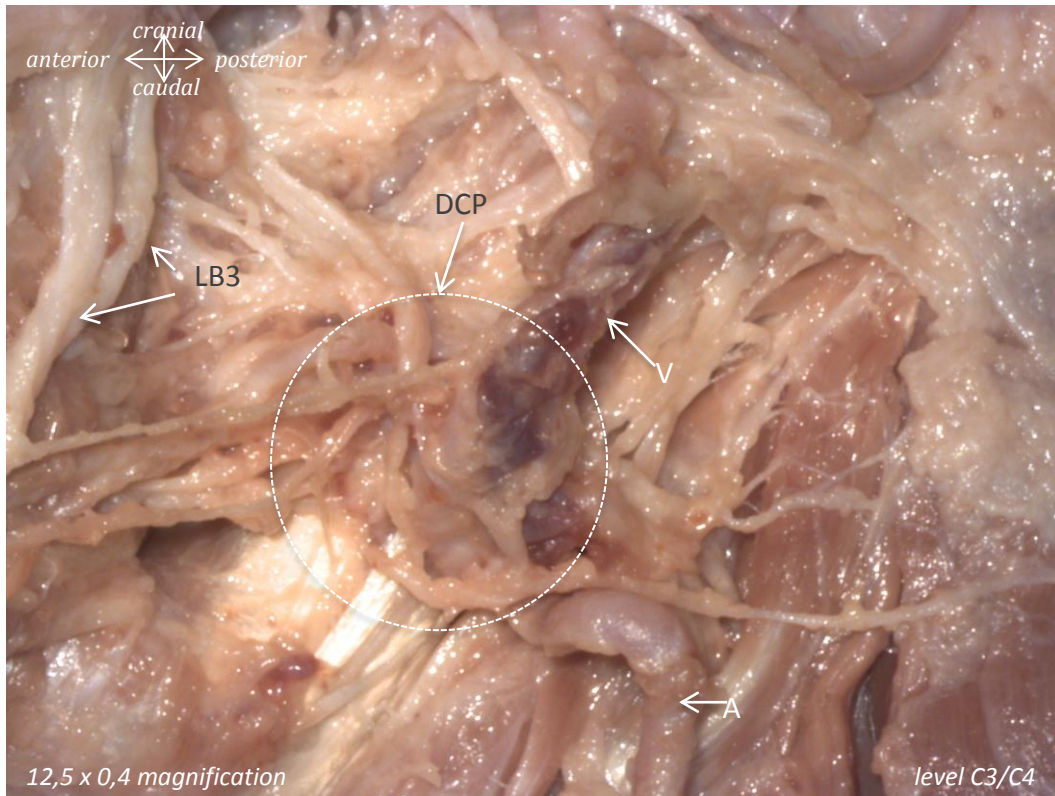
Male, 86 years of age



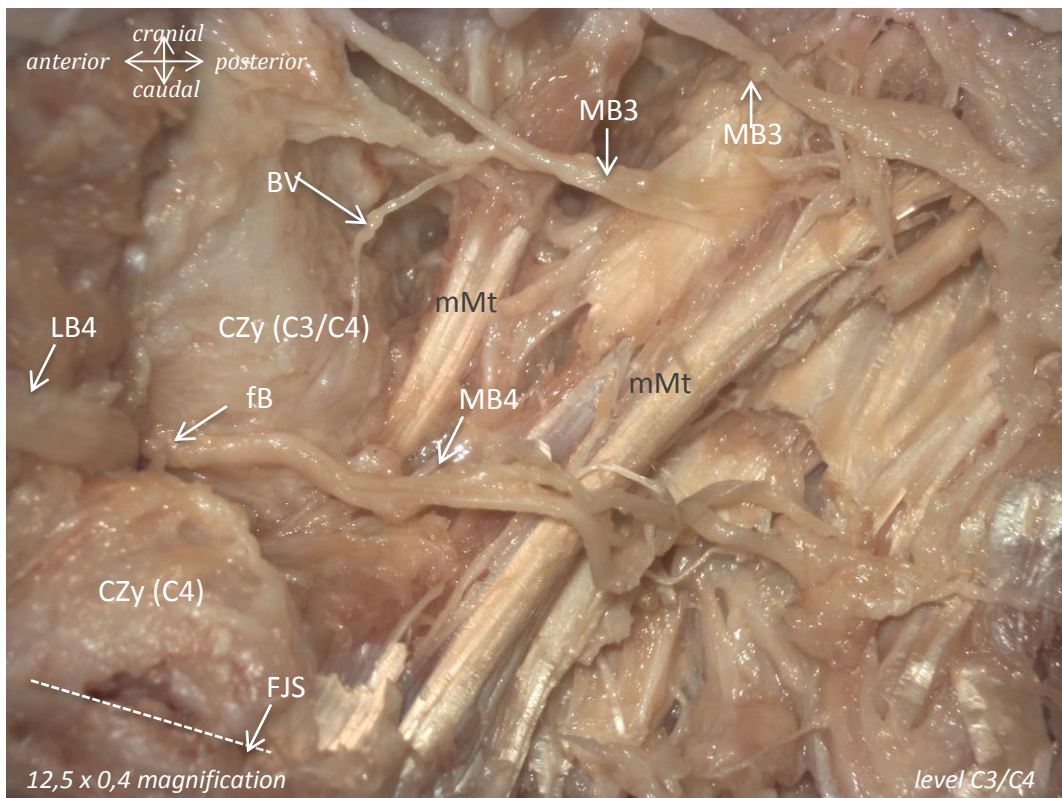
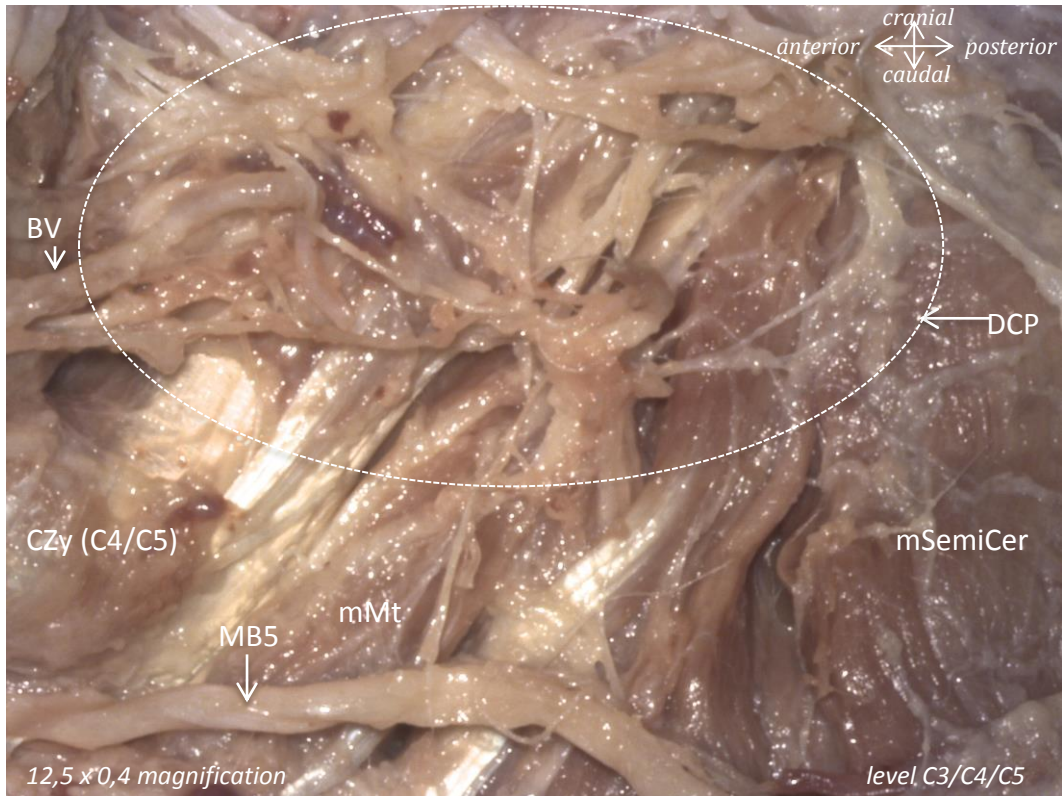
Muscles: mMt = m. multifidus
Nerves: LB = lateral branch; MB = medial branch
Vessels: BV = blood vessel
Extra: CZy = capsula articularis zygapophysialis;



Muscles: mMt = m. multifidus
Nerves: nOMa = n. occipitalis major; LB = lateral branch; MB = medial branch
Vessels: BV = blood vessel
Extra: CZy = capsula articulatio zygapophysealis



Nerves: LB = lateral branch; fB = facet joint branch; DCP = deep cervical plexus
Vessels: A = artery; V = vene; BV = blood vessel
Extra: CZy = capsula articulation zygapophysialis

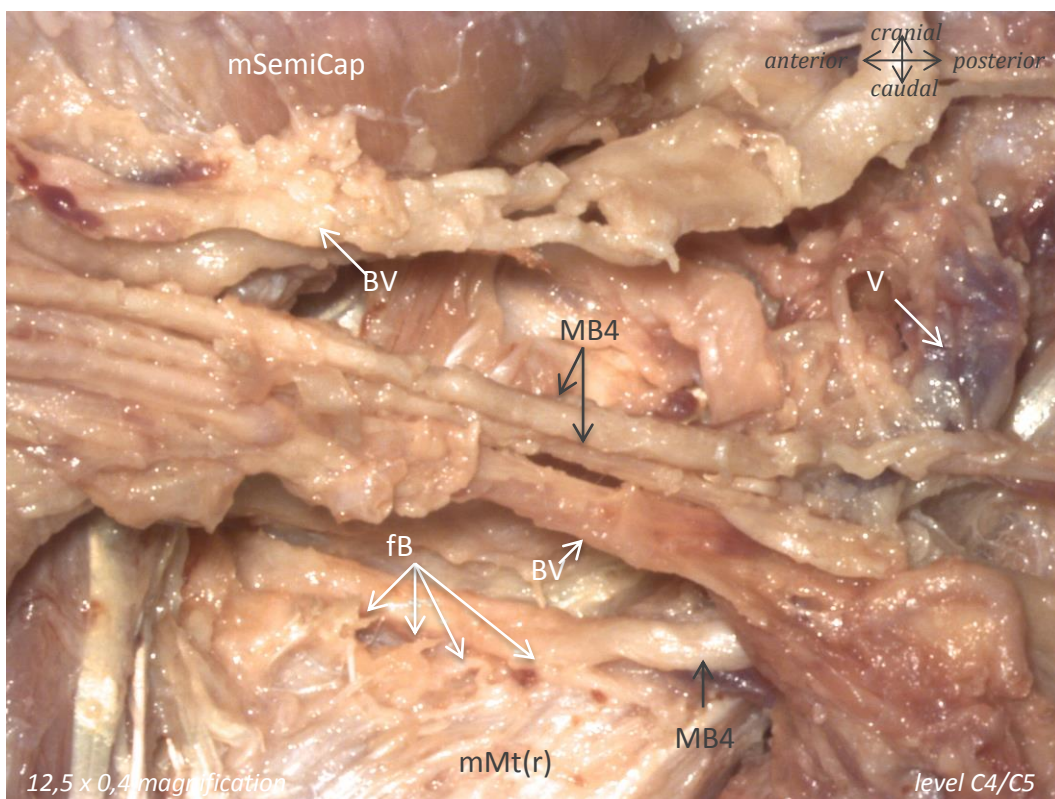
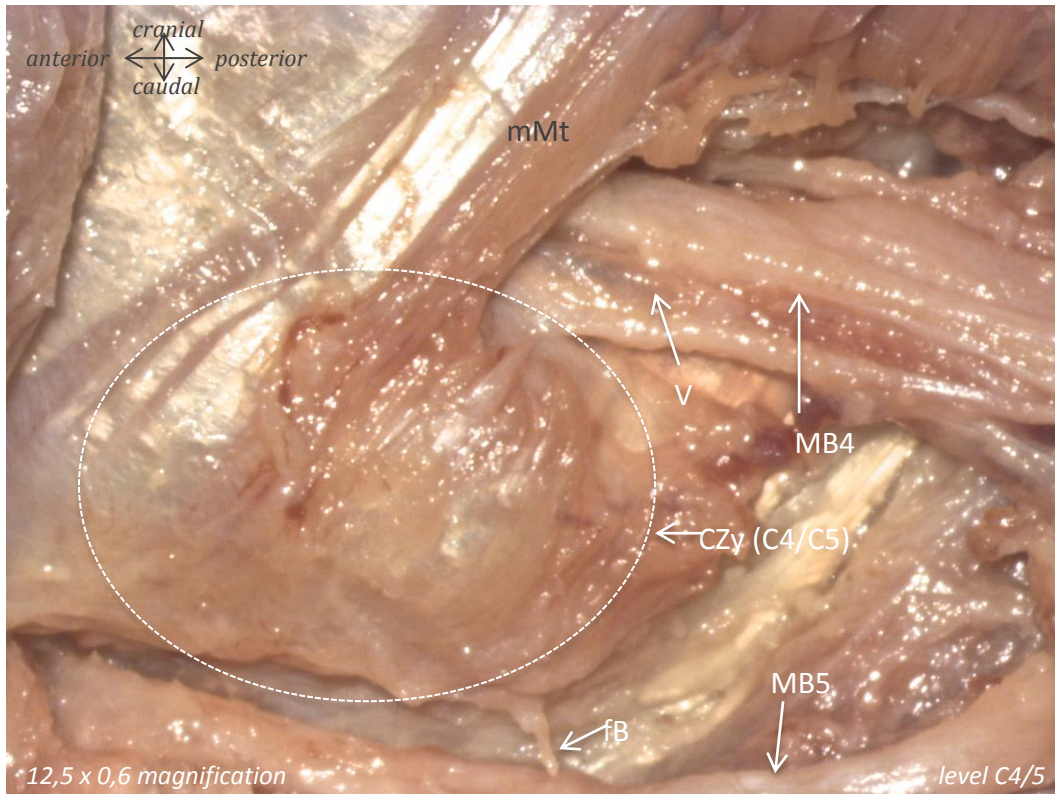


Muscles: mMt = m. multifidus; mSemiCer = m. semispinalis cervicis

Nerves: LB = lateral branch; MB = medial branch; fB=facet joint branch; DCP = deep cervical plexus (innervation "plexus alike")

Vessels: BV = blood vessel

Extra: CZy = capsula articulatio zygapophysealis; FJS = facet joint space

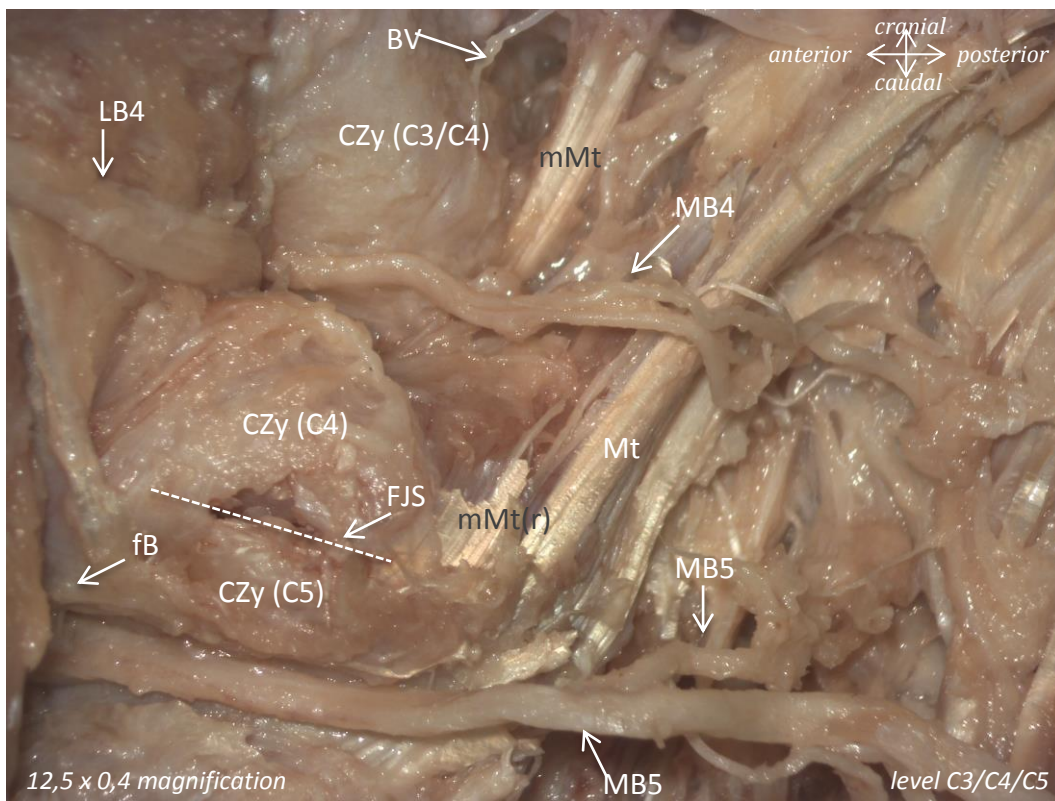
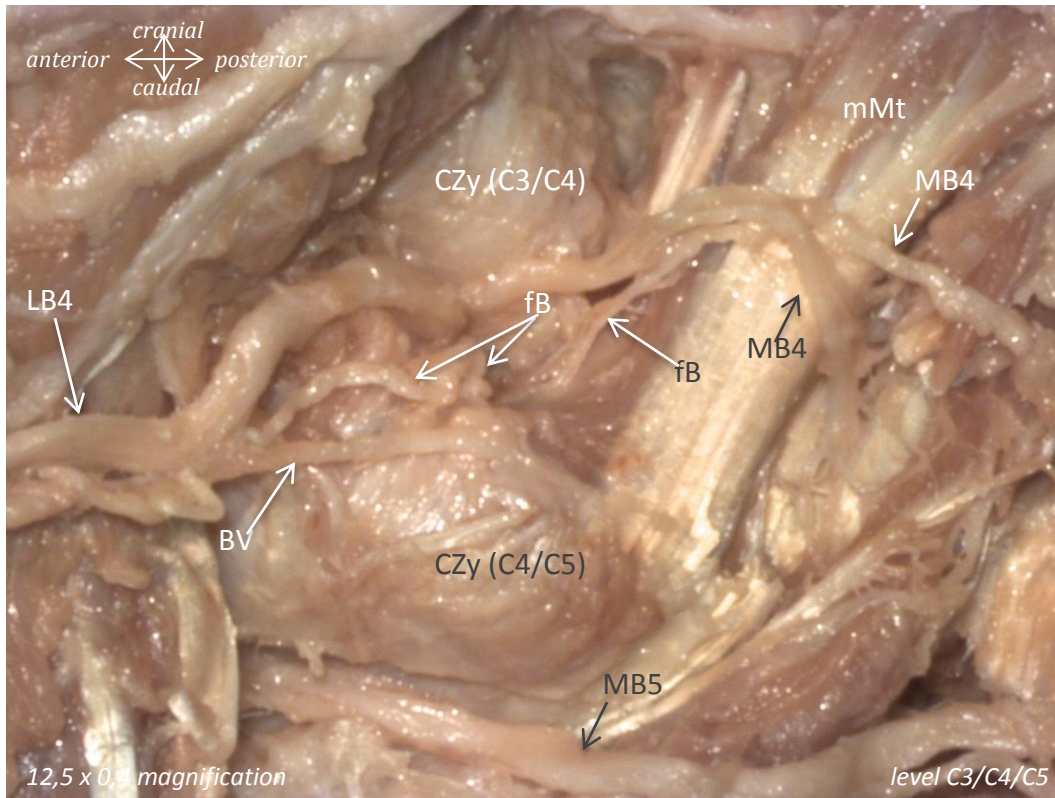


Muscles: mSemiCap = m. semispinalis capitis; mMt = m. multifidus; Mt(= m. multifidus (removed)

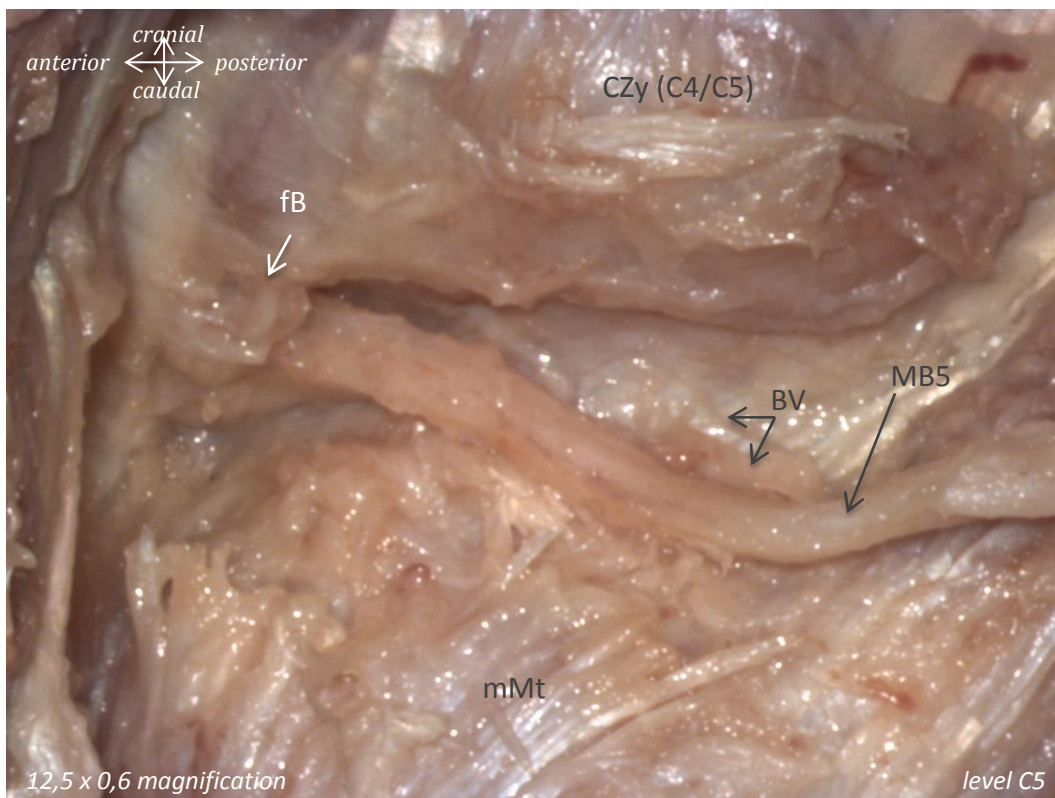
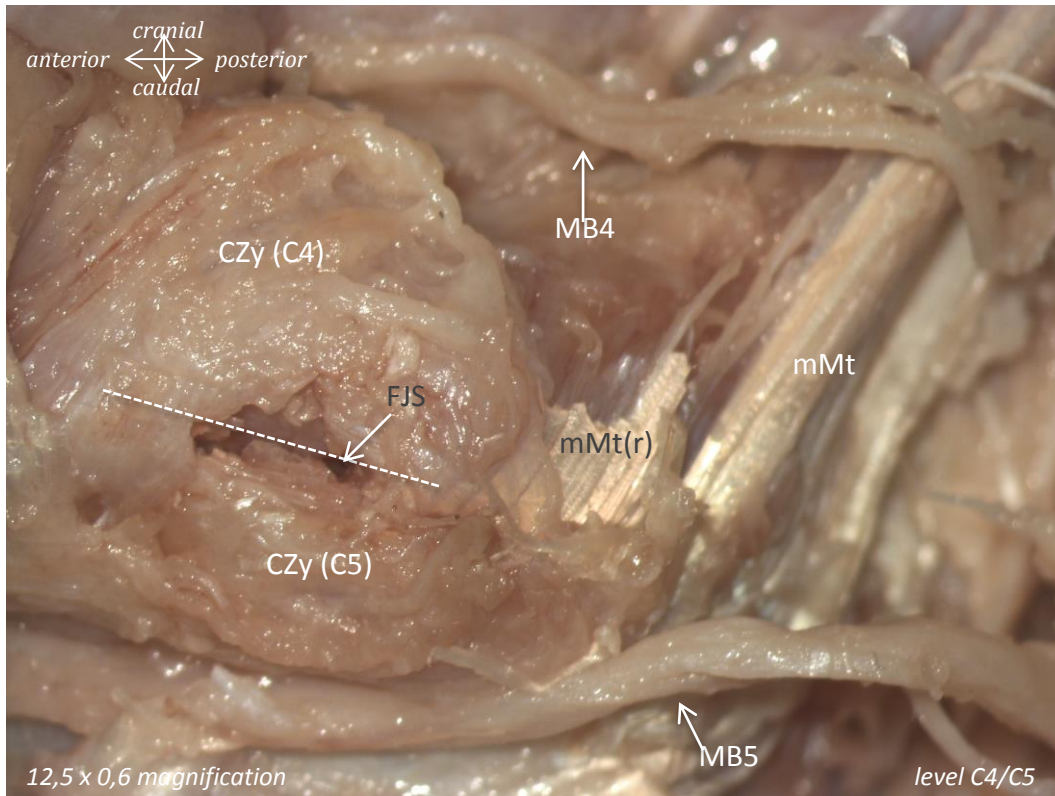
Nerves: LB = lateral branch; MB = medial branch; fB = facet joint branch

Vessels: BV = blood vessel; V = vene

Extra: CZy = capsula articulatio zygapophysealis

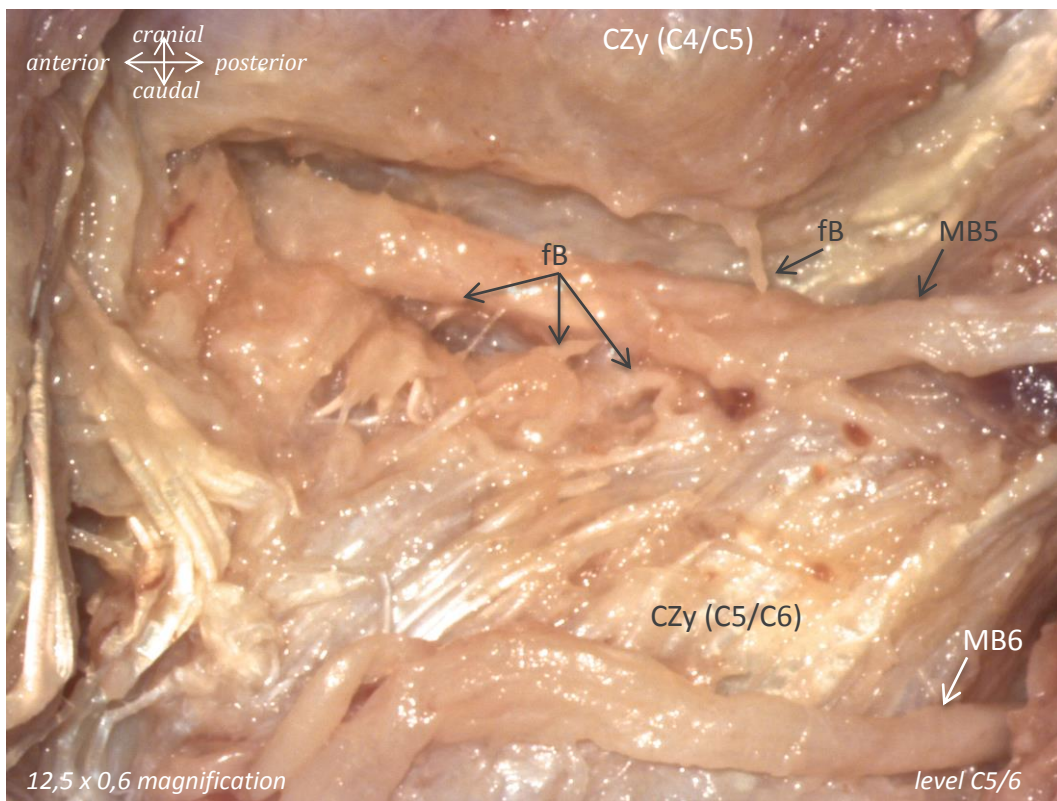
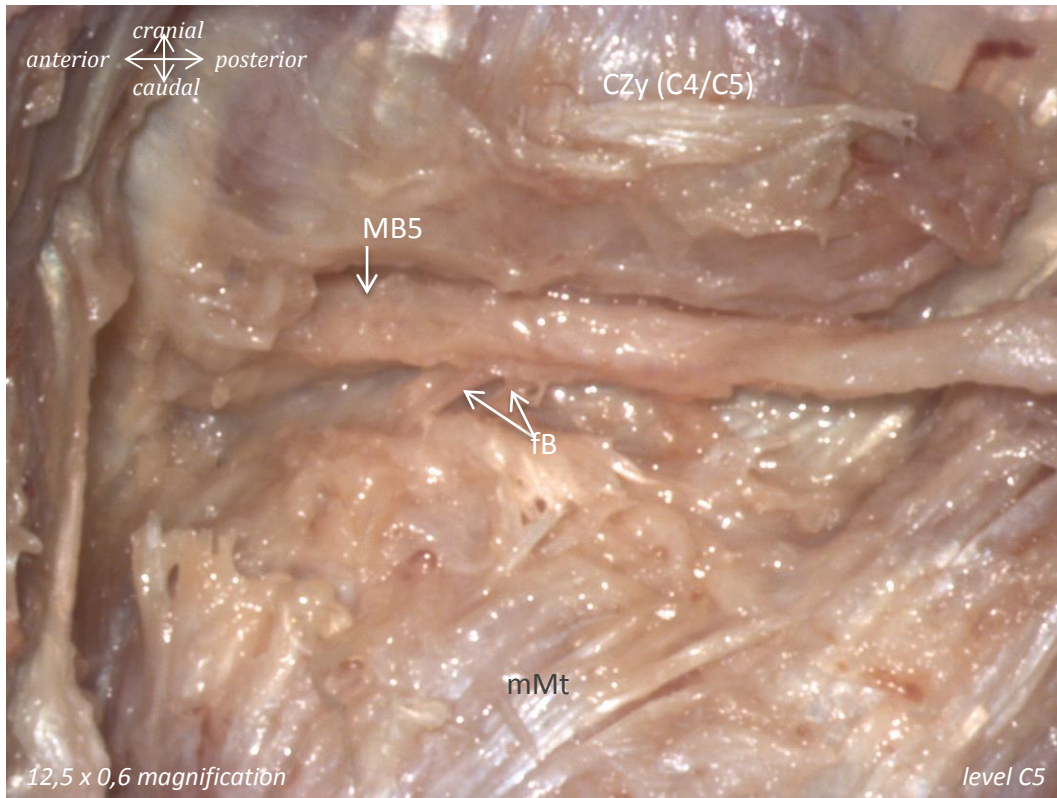


Muscles: mMt = m. multifidus; mMt(r) = m. multifidus (removed)
Nerves: LB = lateral branch; MB = medial branch; FB = facet joint branch
Vessels: BV = blood vessel
Extra: CZy = capsula articulatio zygapophysealis; FJS = facet joint space

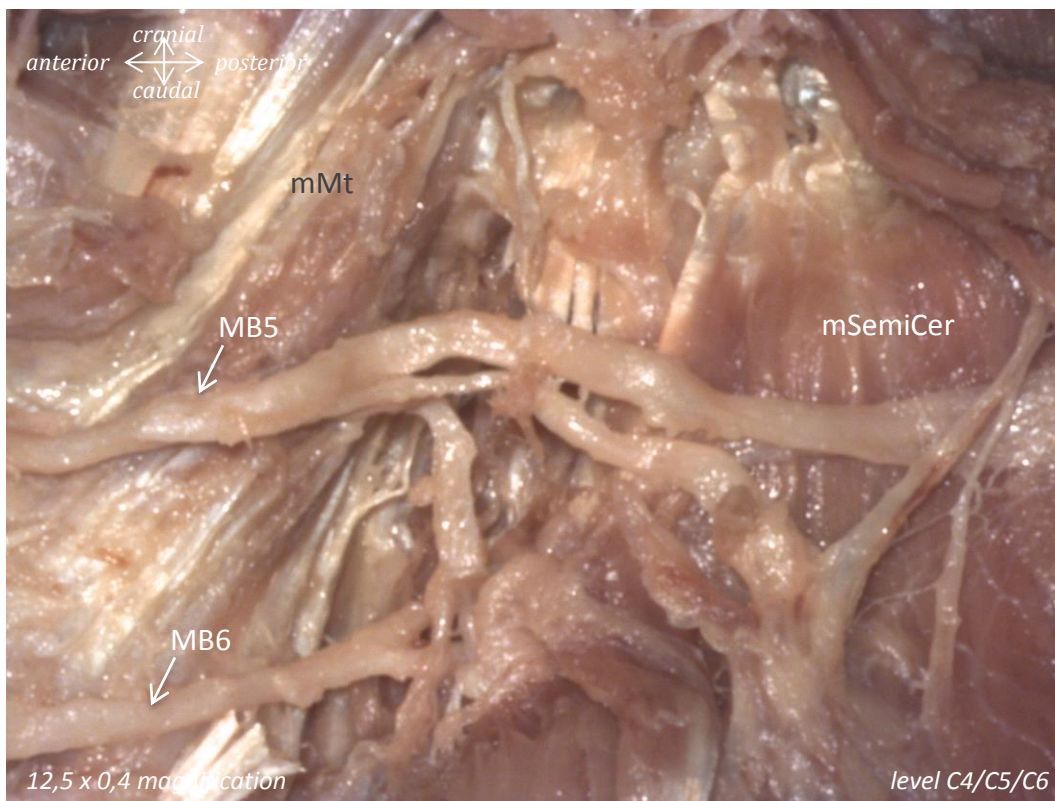
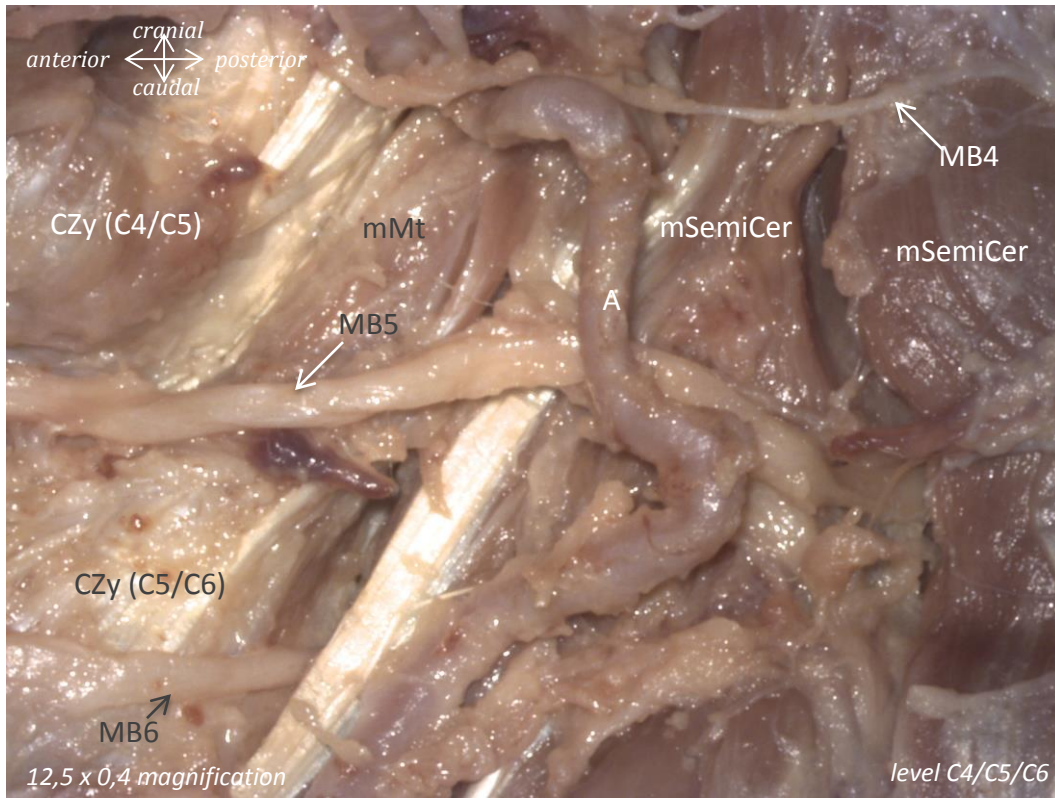


Muscles: mMt = m. multifidus; mMt(r) = m. multifidus (removed)
Nerves: MB = medial branch; fB = facet joint branch
Vessels: BV = blood vessel
Extra: CZy = capsula articulationis zygapophysialis; FJS = facet joint space

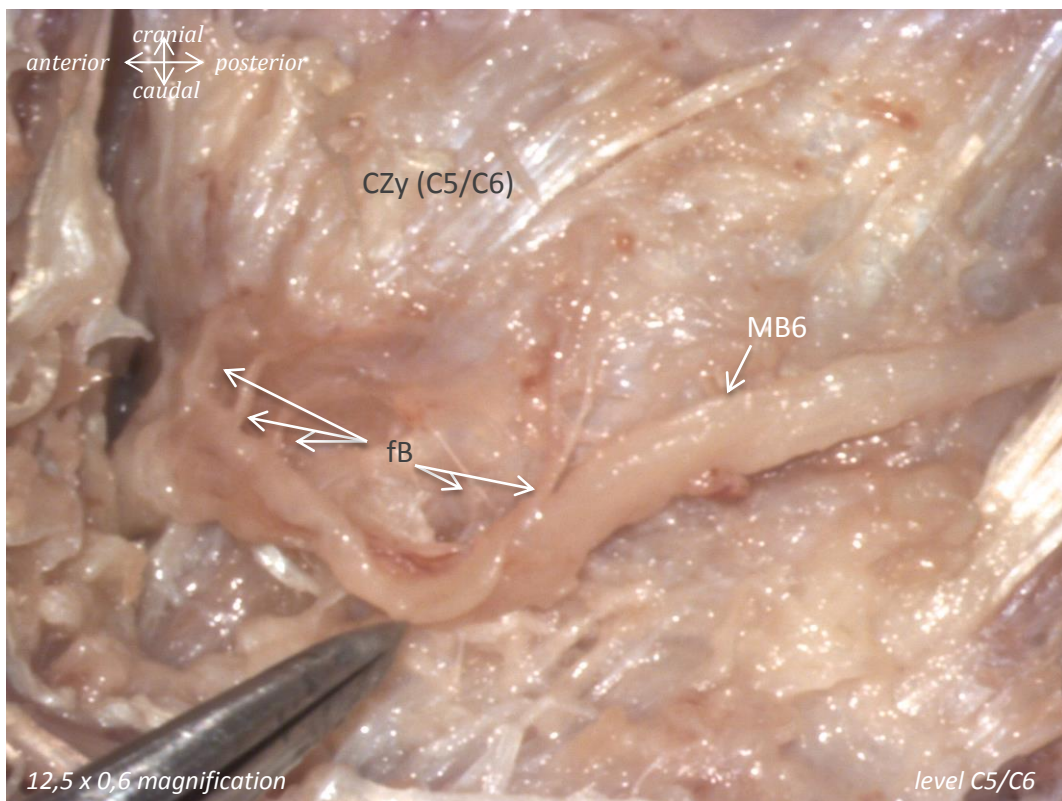
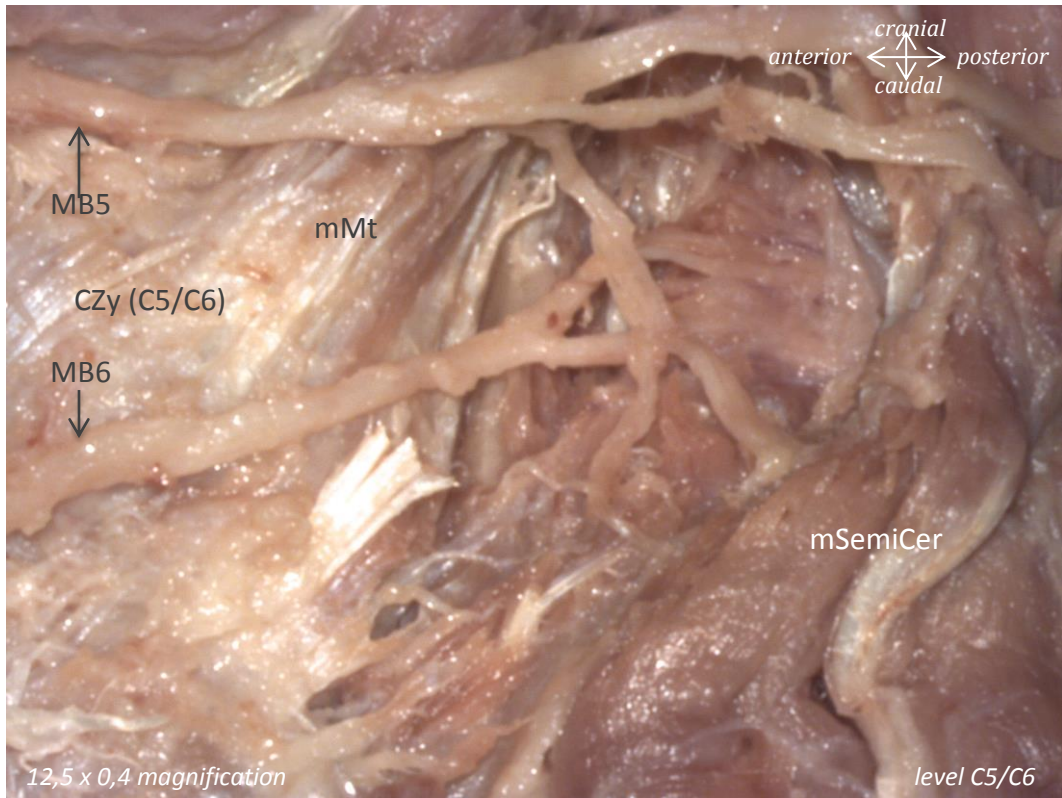
Male, 86 years of age



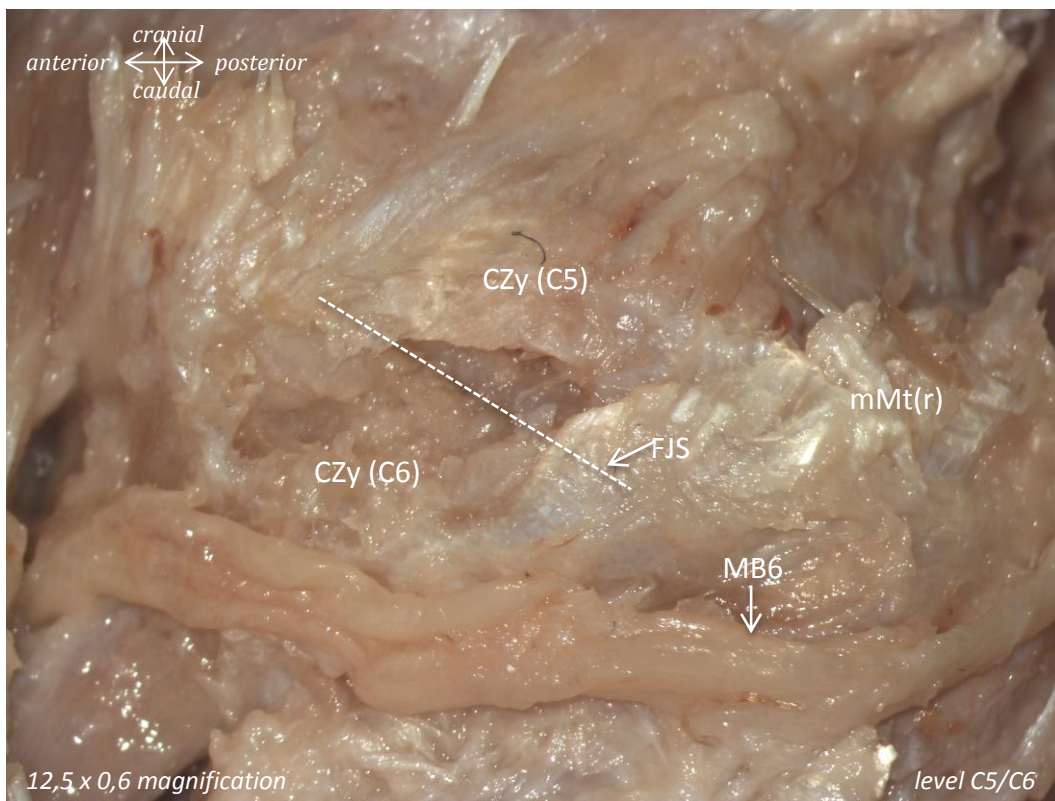
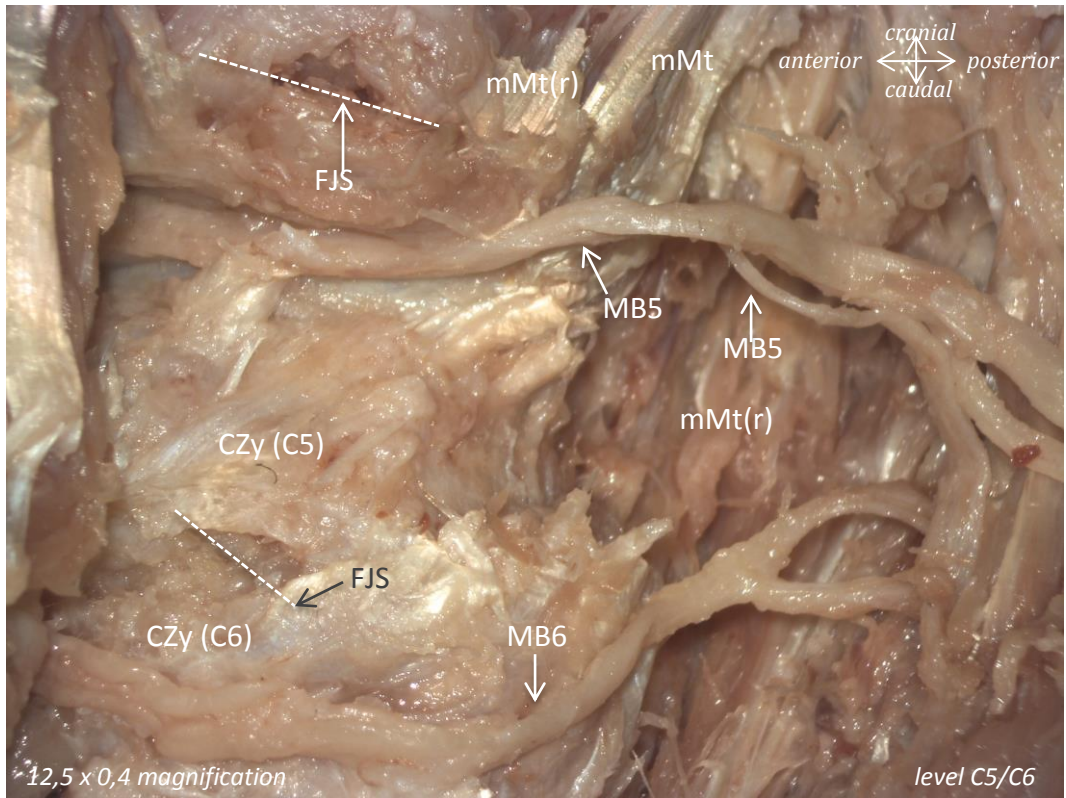
Muscles: mMt = m. multifidus
Nerves: MB = medial branch; fB = facet joint branch
Vessels: BV = blood vessel
Extra: CZy = capsula articulatio zygapophysealis



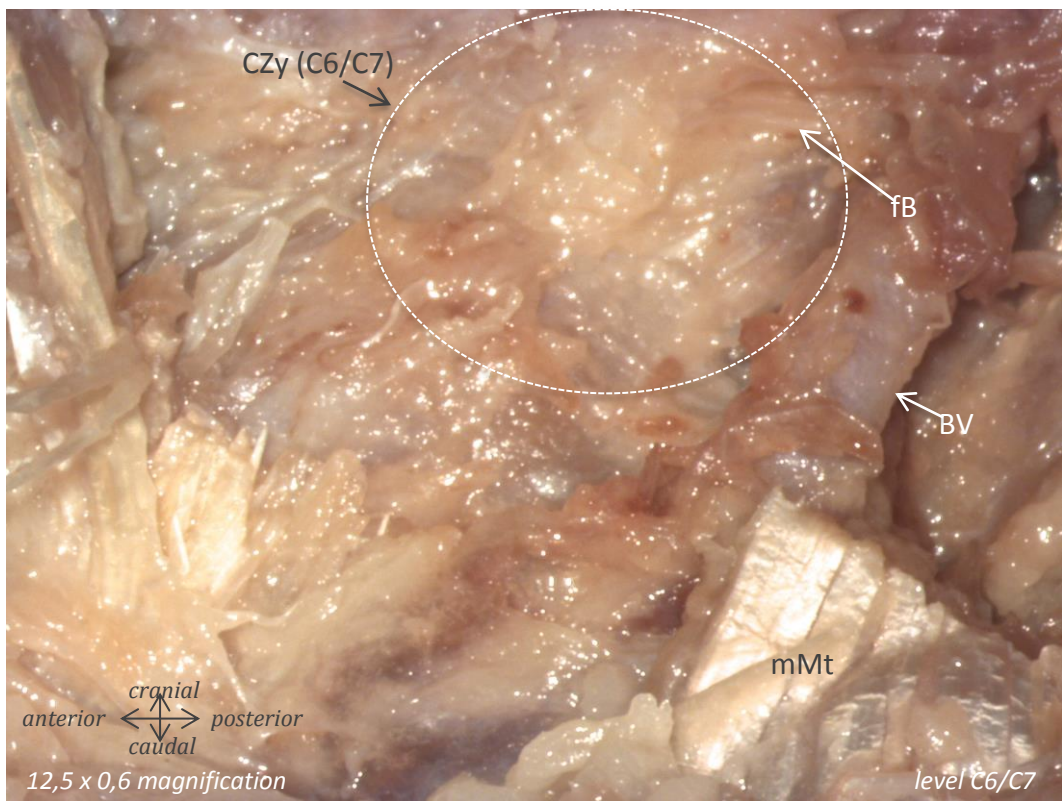
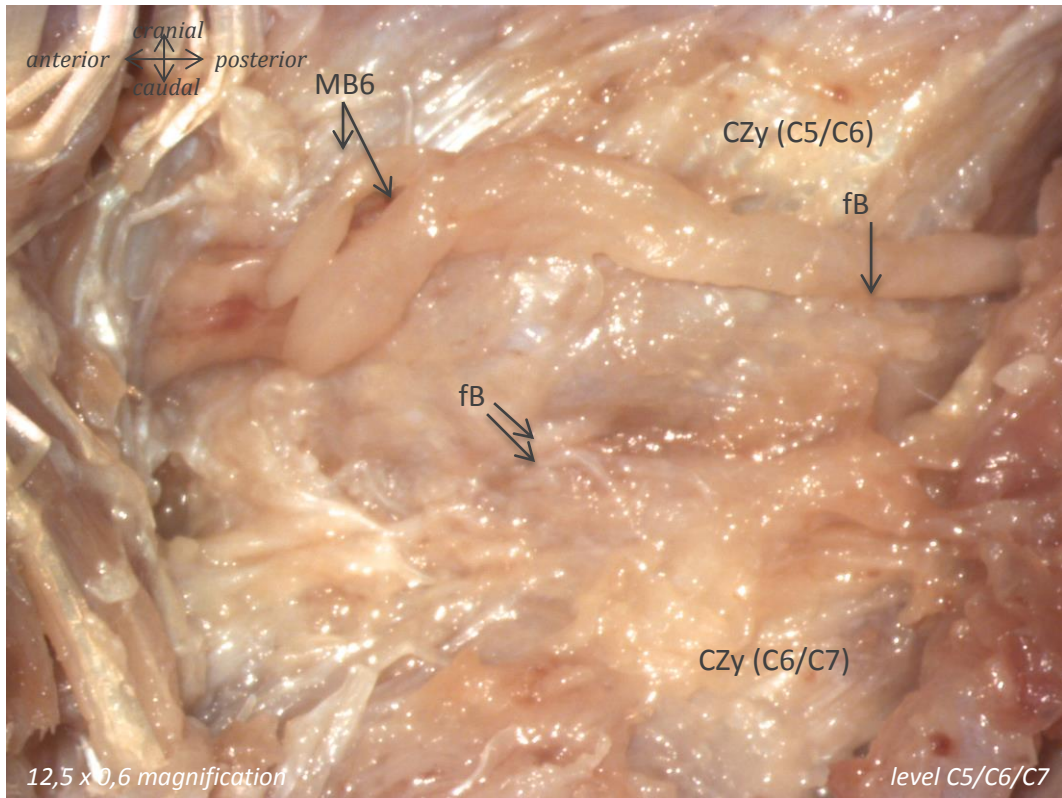
Muscles: mSemiCer = m. semispinalis cervicis; mMt = m. multifidus
Nerves: MB = medial branch
Vessels: A = artery
Extra: CZy = capsula articulatio zygapophysealis



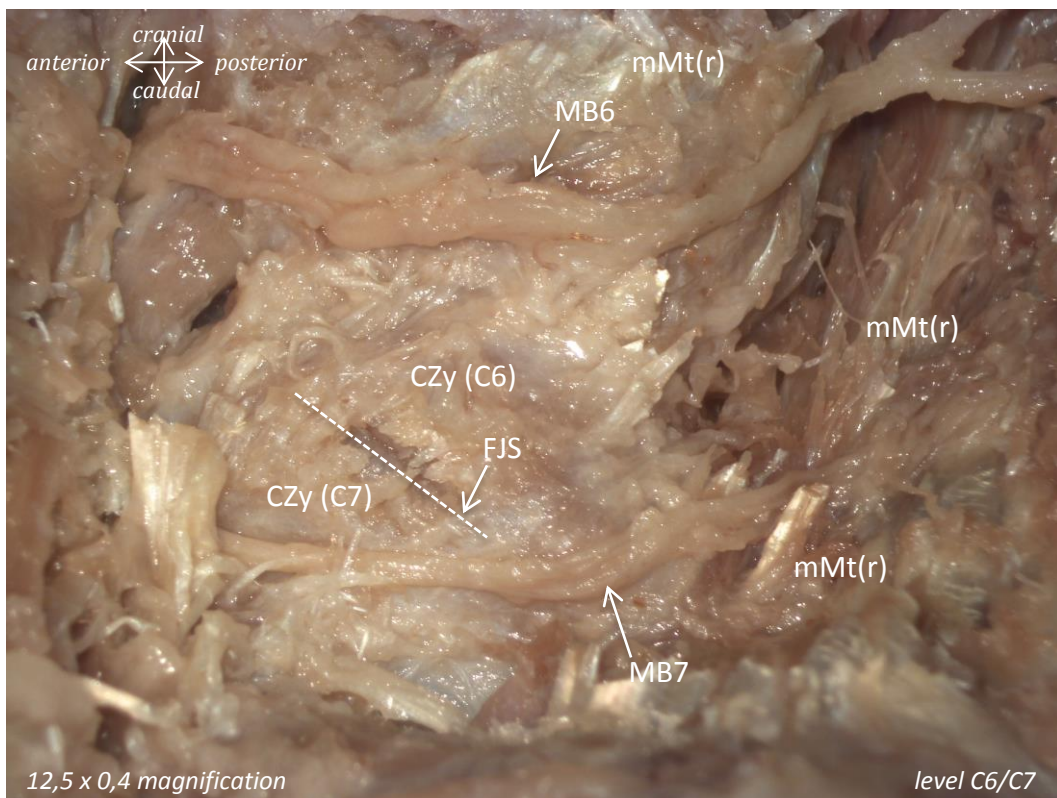
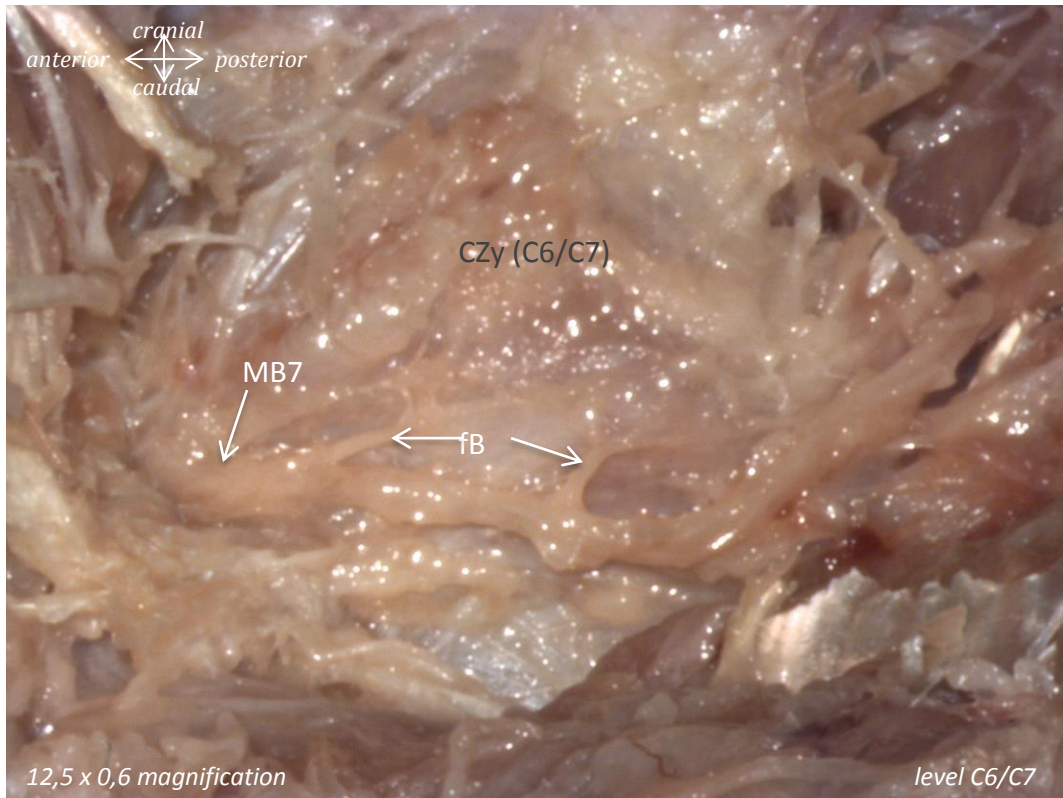
Muscles: mMt = m. multifidus; mSemiCer = m. semispinalis cervicis
Nerves: MB = medial branch; fB = facet joint branch
Extra: CZy = capsula articularis zygapophysialis;



Muscles: mMt = m. multifidus; mMt(r) = m. multifidus (removed)
Nerves: LB = lateral branch; MB = medial branch;
Extra: CZy = capsula articulatio zygapophysealis; FJS = facet joint space



Muscles: mMt = m. multifidus
Nerves: MB = medial branch; fB = facet joint branch
Vessels: BV = blood vessel
Extra: CZy = capsula articulatio zygapophysealis

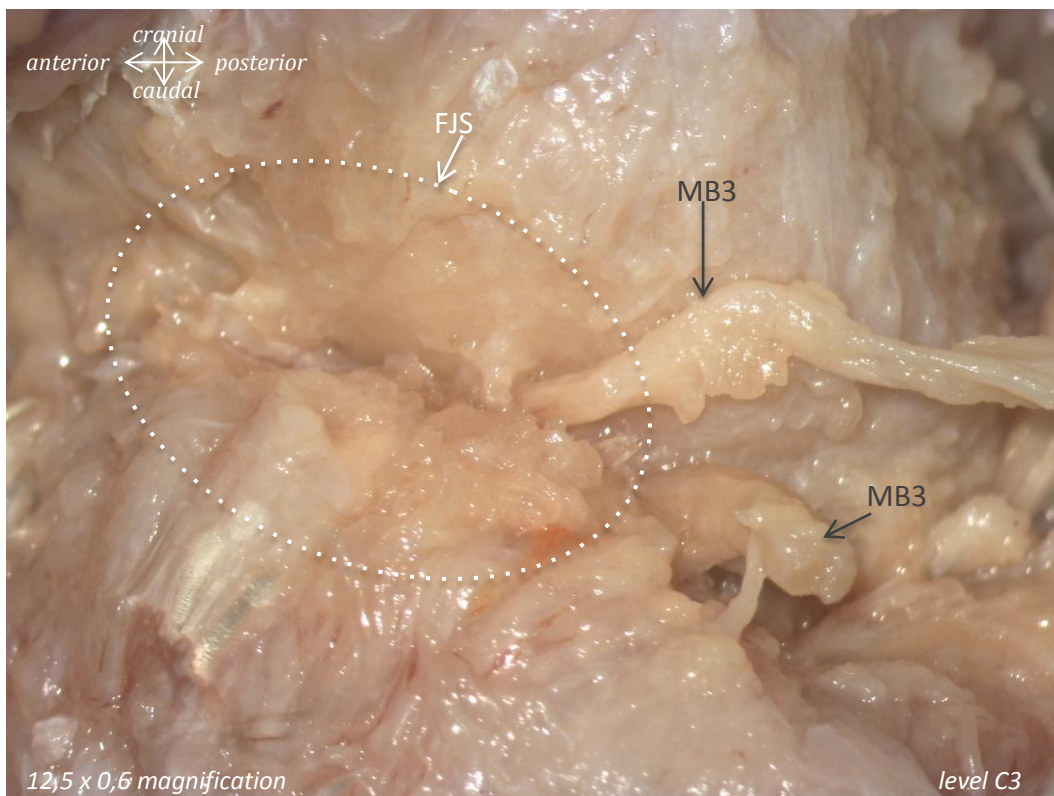
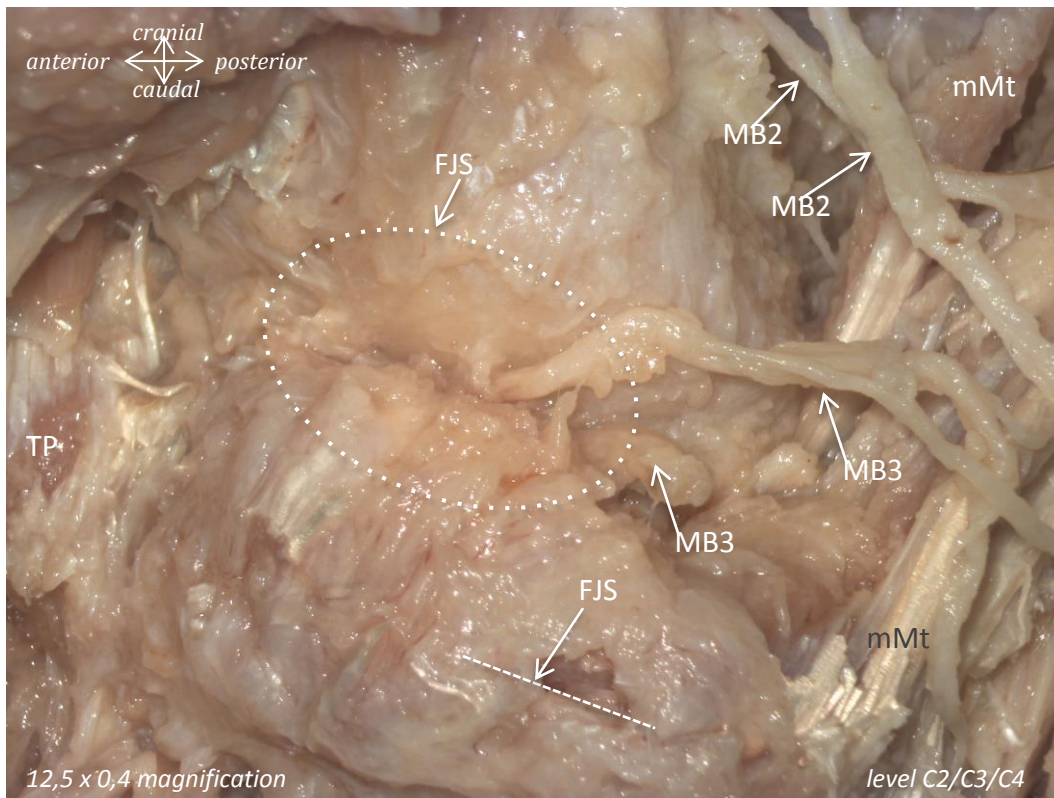


Muscles: mMt(r) = m. multifidus (removed)

Nerves: MB = medial branch; fB = facet joint branch

Extra: CZy = capsula articulatio zygapophysealis; FJS = facet joint space

Origin medial branch

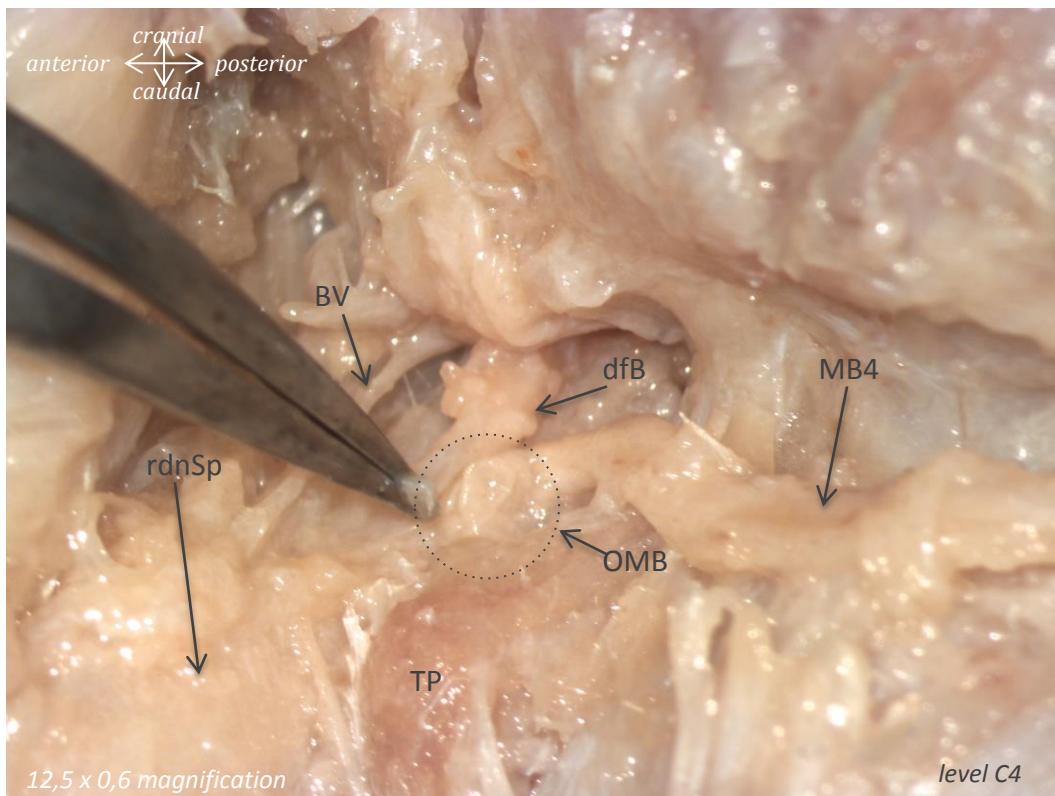
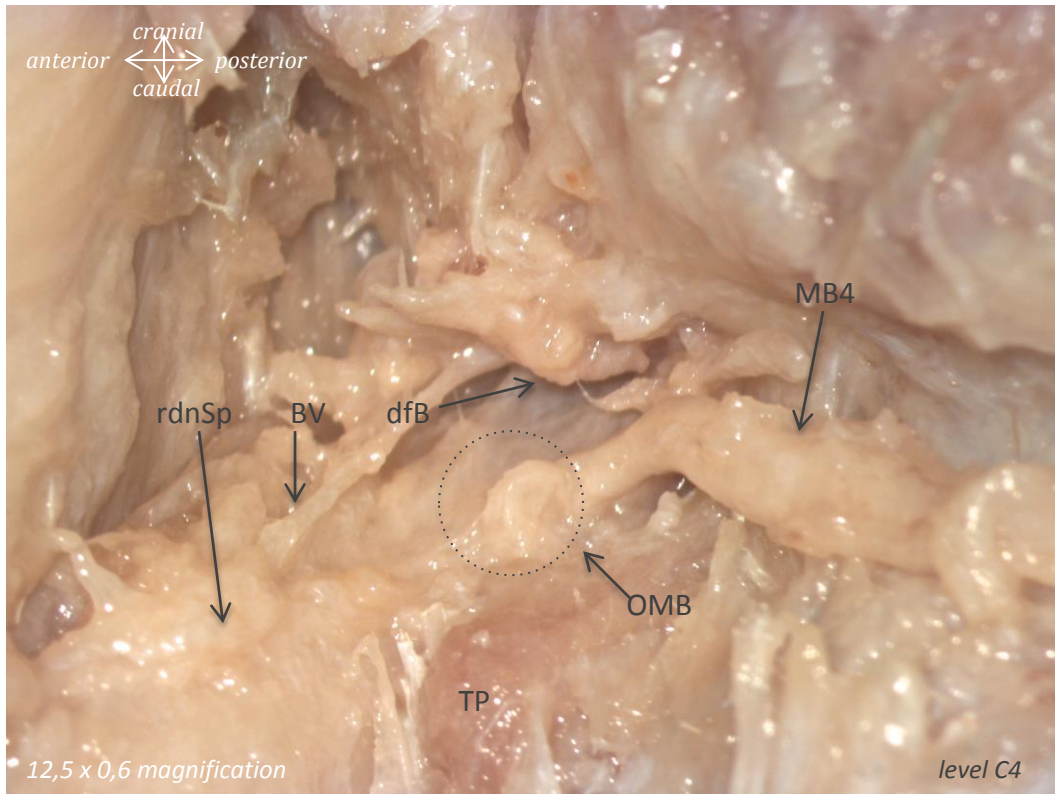


Muscles: mMt = m. multifidus;

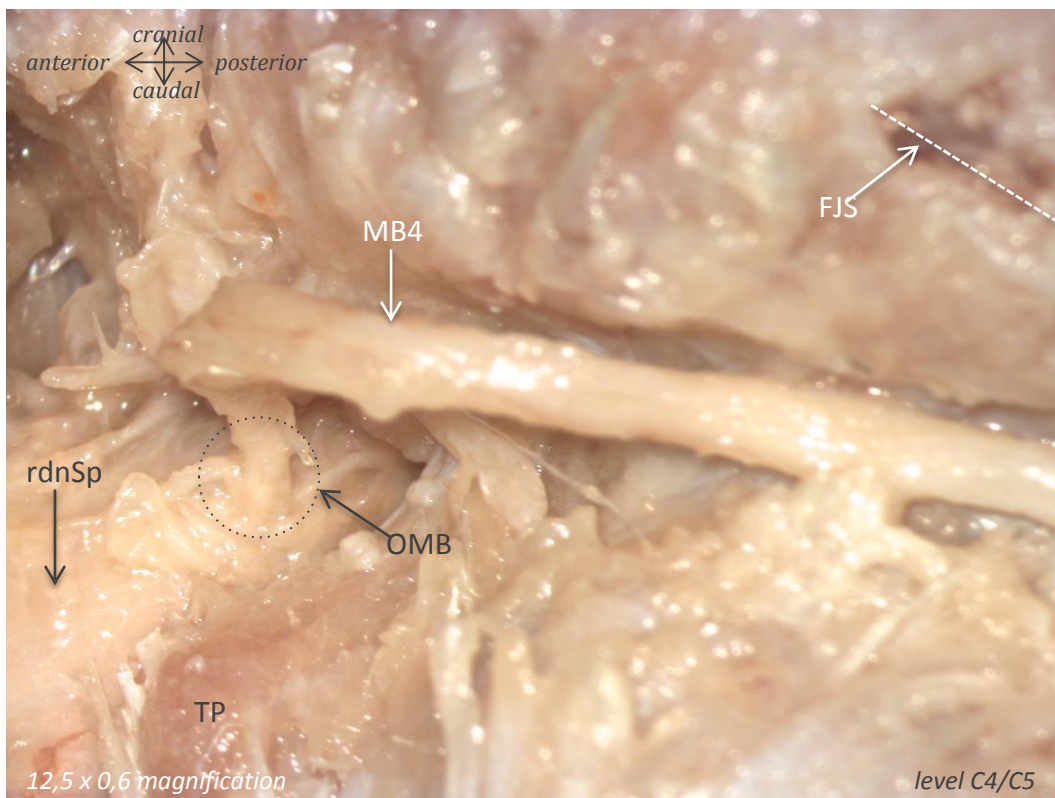
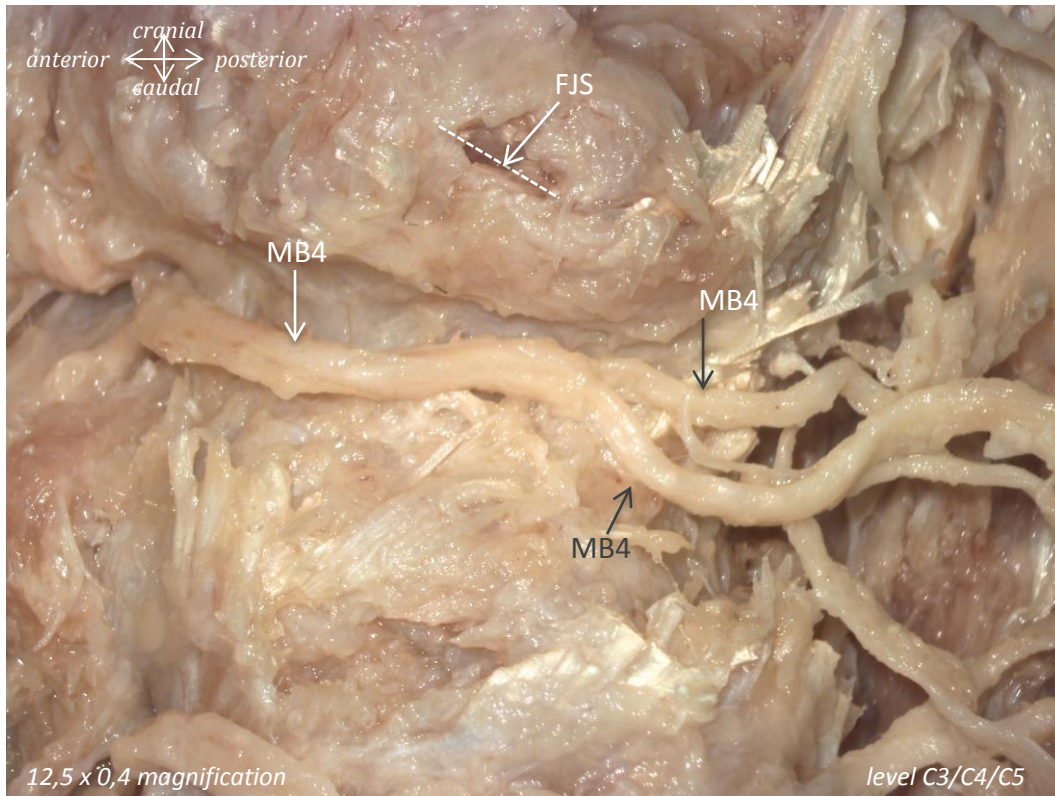
Nerves: MB = medial branch

Extra: TP = tuberculum posterius; FJS = facet joint space; white circle= osteophytes have grown over the waist

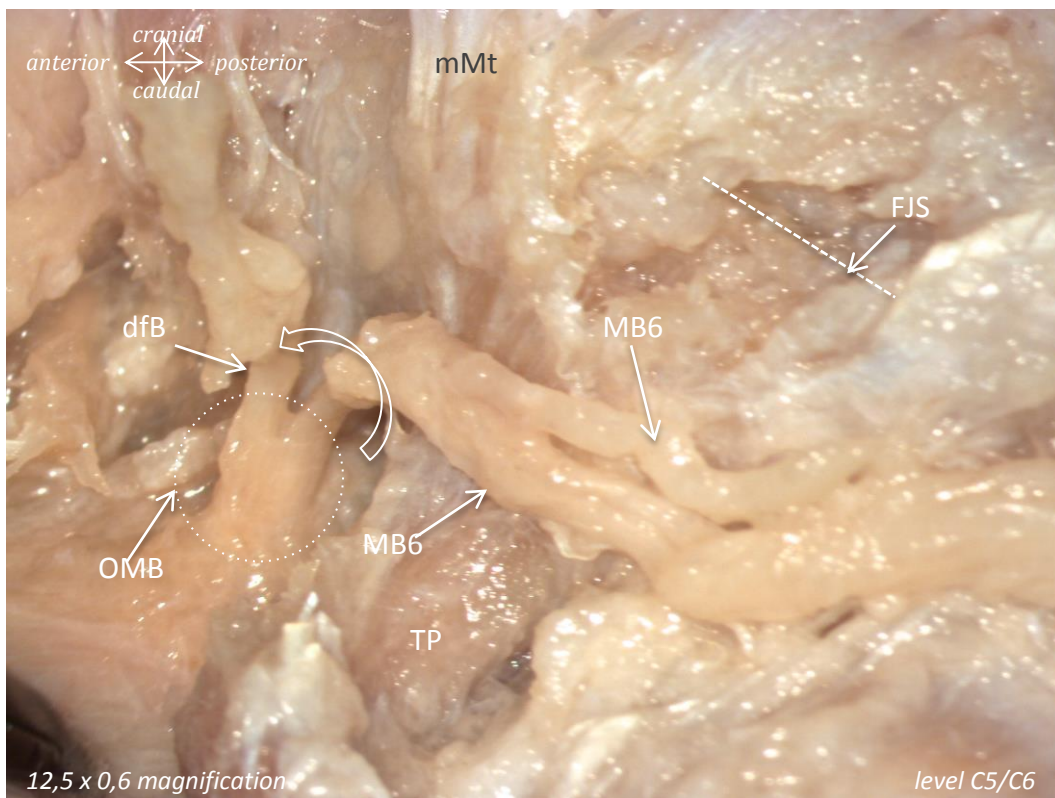
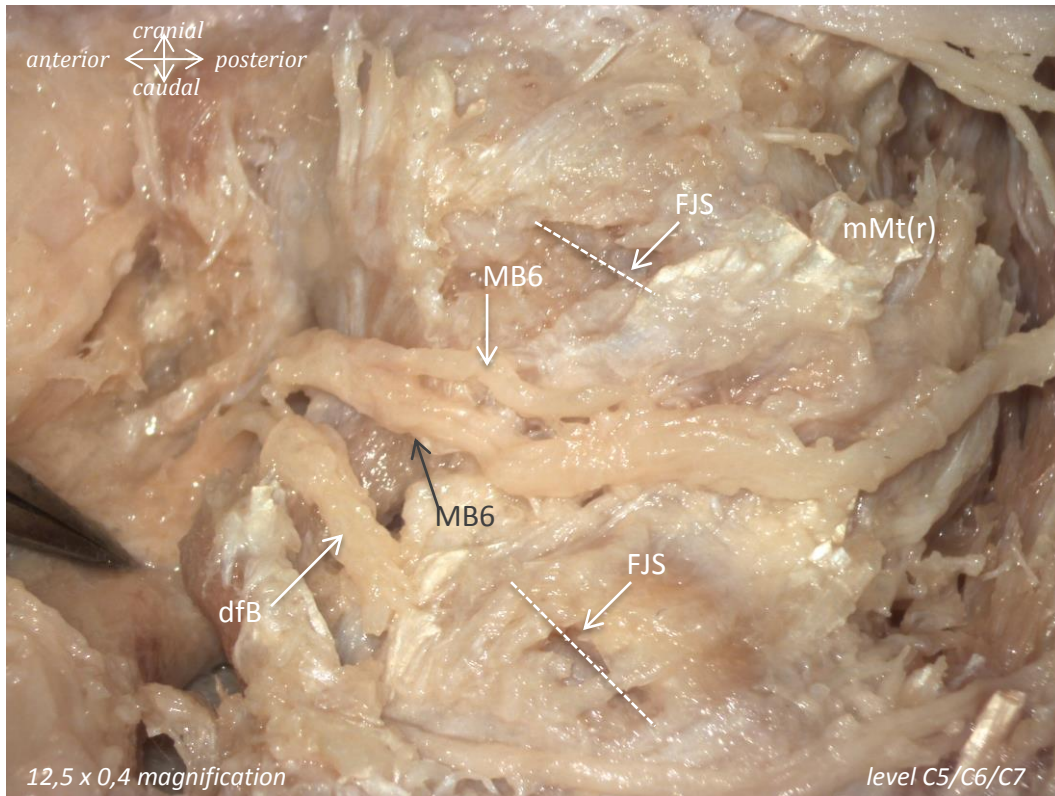
Male, 86 years of age



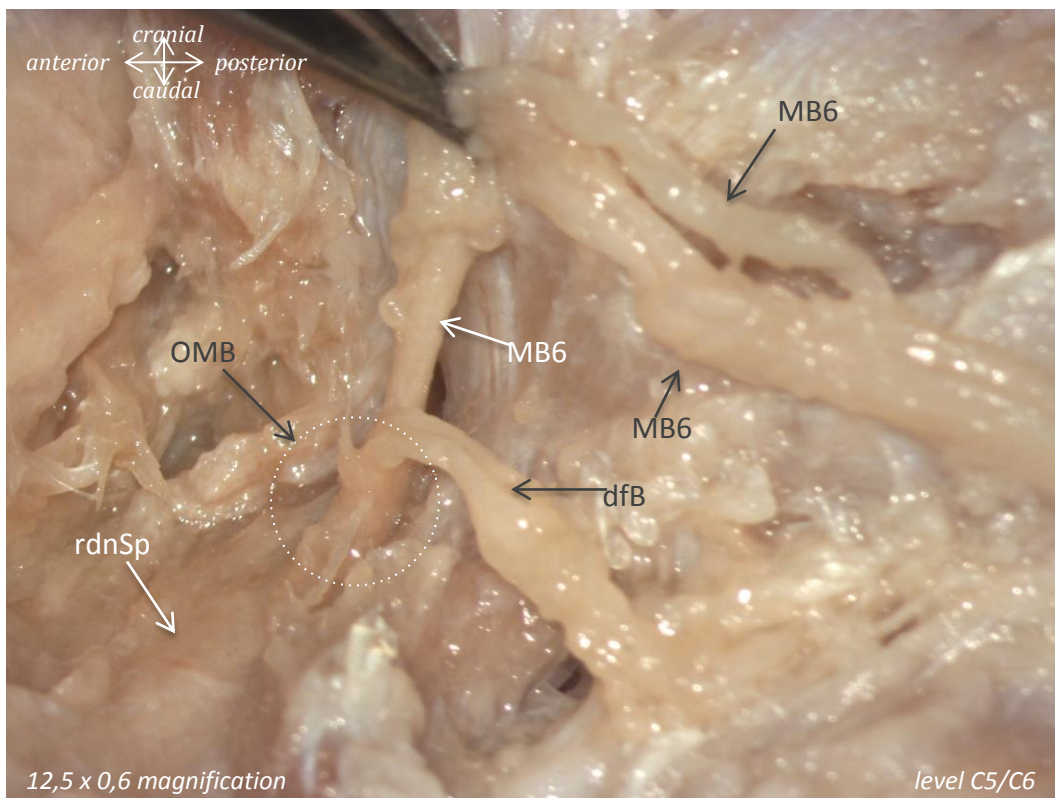
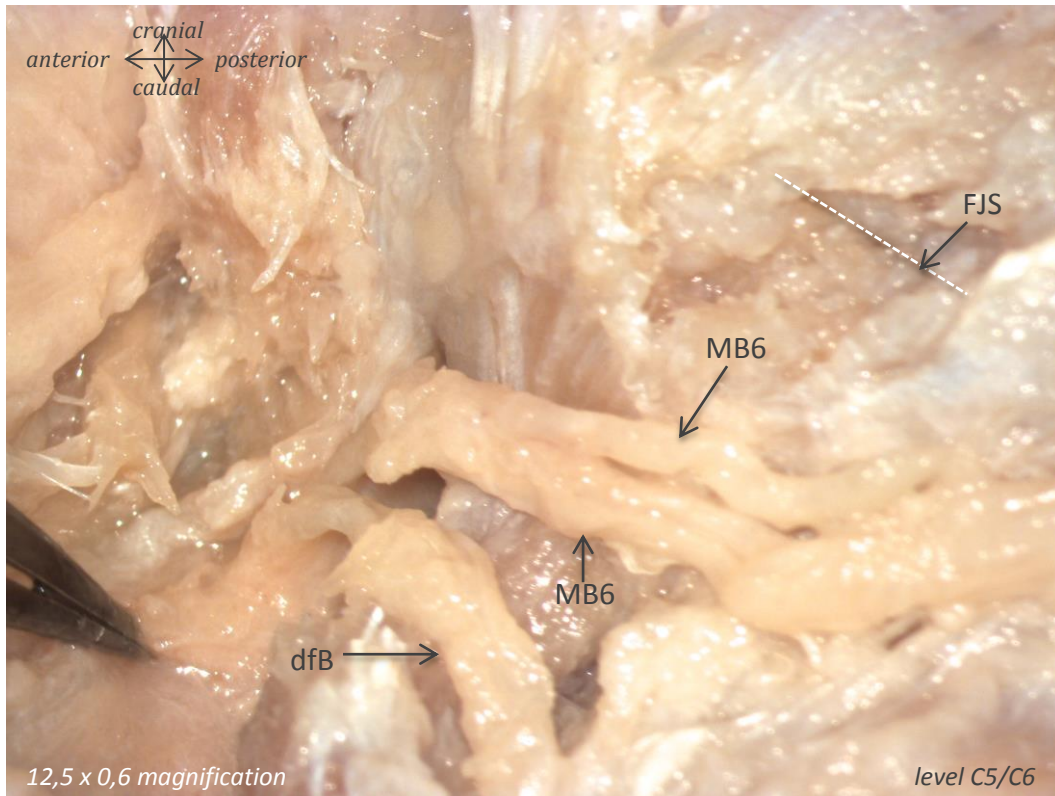
Nerves: MB = medial branch; dfB = direct facet joint branch; OMB = origin medial branch;
 rdnSp = ramus dorsalis n. spinalis
Vessels: BV = blood vessel
Extra: TP = tuberculum posterius



Nerves: MB = medial branch; OMB = origin medial branch; rdnSp = ramus dorsalis n. spinalis
Extra: TP = tuberculum posterius; FJS = facet joint space

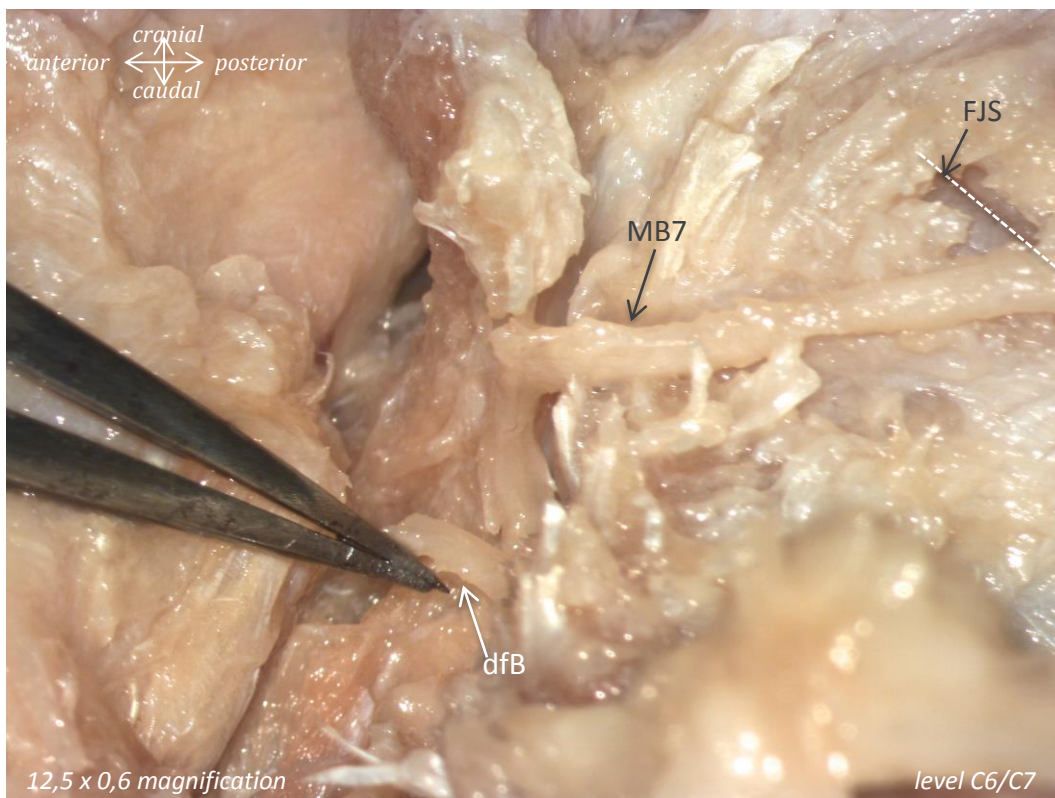
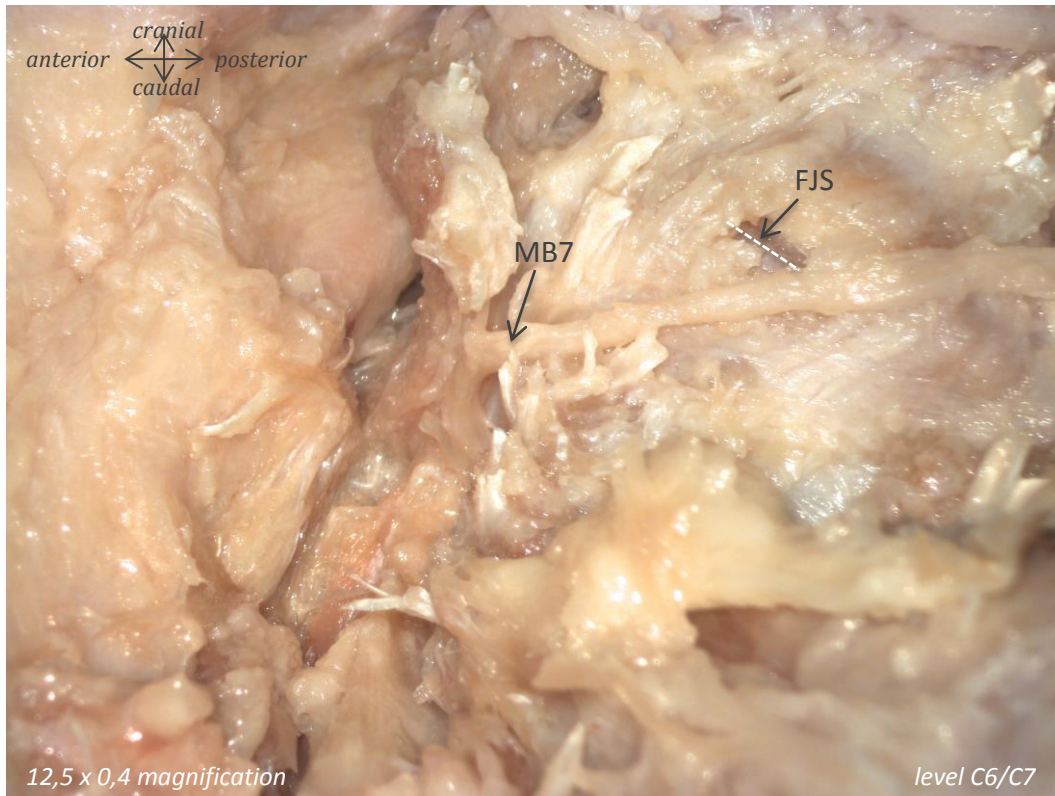


Muscles: mMt = m. multifidus; mMt(r) = m. multifidus (removed)
Nerves: MB = medial branch; dfB = direct facet joint branch; OMB = origin medial branch;
Extra: TP = tuberculum posterius; FJS = facet joint space



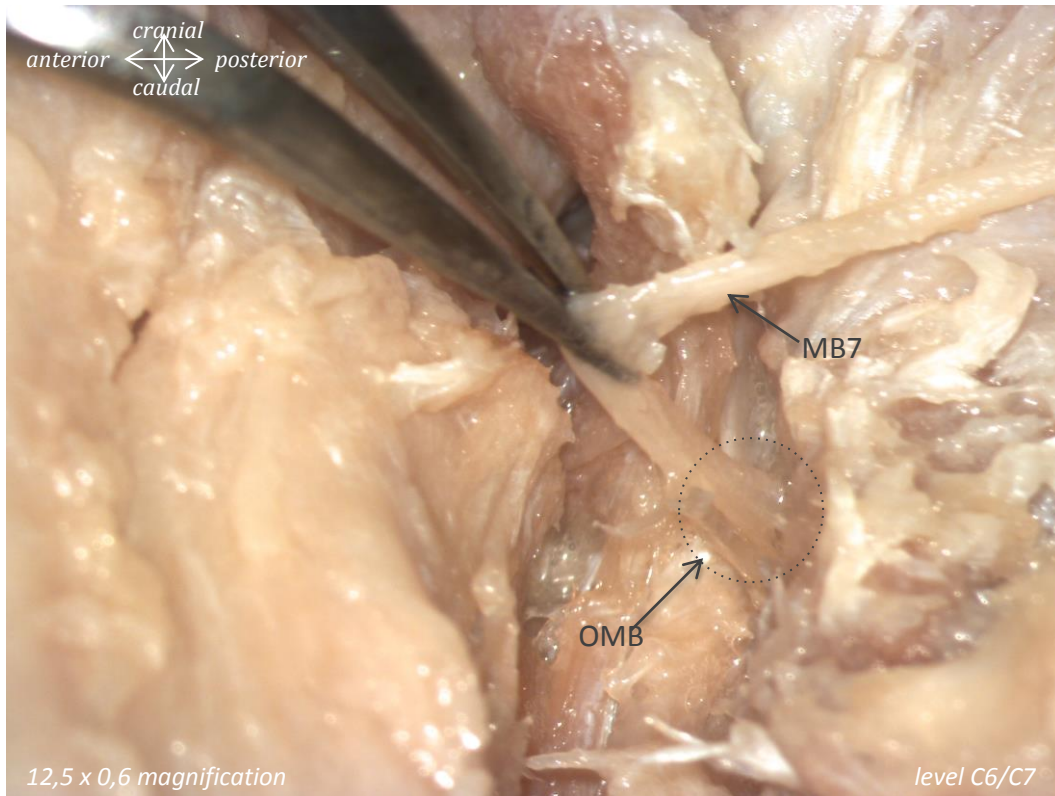
Nerves: MB = medial branch; dfB = direct facet joint branch; OMB = origin medial branch;
rdnSp = ramus dorsalis n. spinalis
Extra: FJS = facet joint space

Male, 86 years of age



Nerves: MB = medial branch; dfB = direct facet joint branch
Extra: FJS = facet joint space

Male, 86 years of age



Nerves: MB = medial branch; OMB = origin medial branch; rdnSp = n. spinalis

Male, 86 years of age