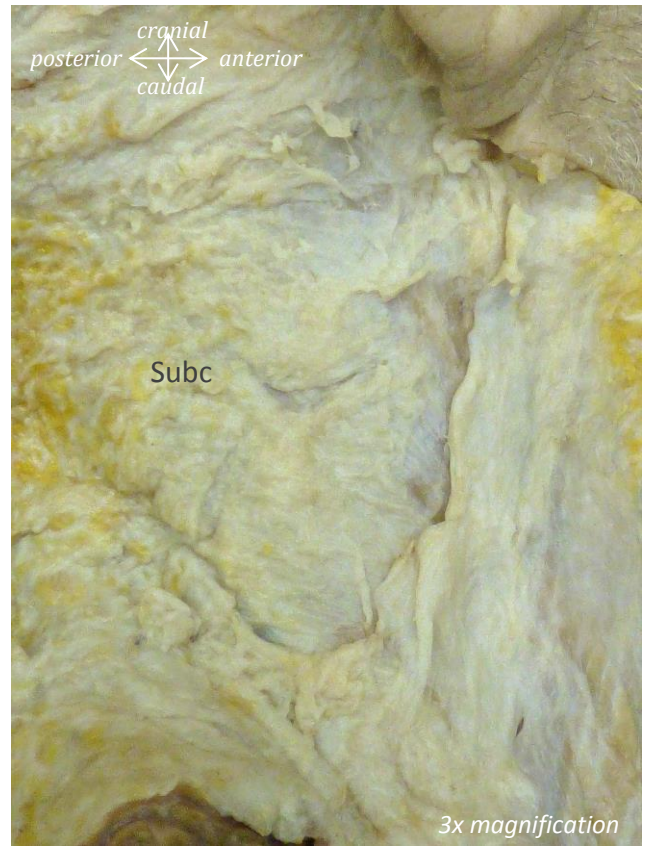
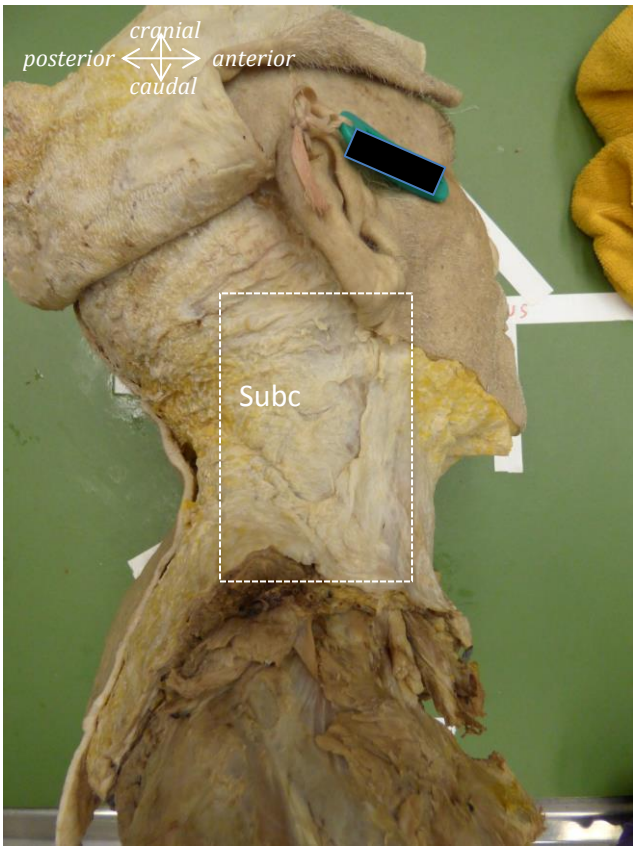
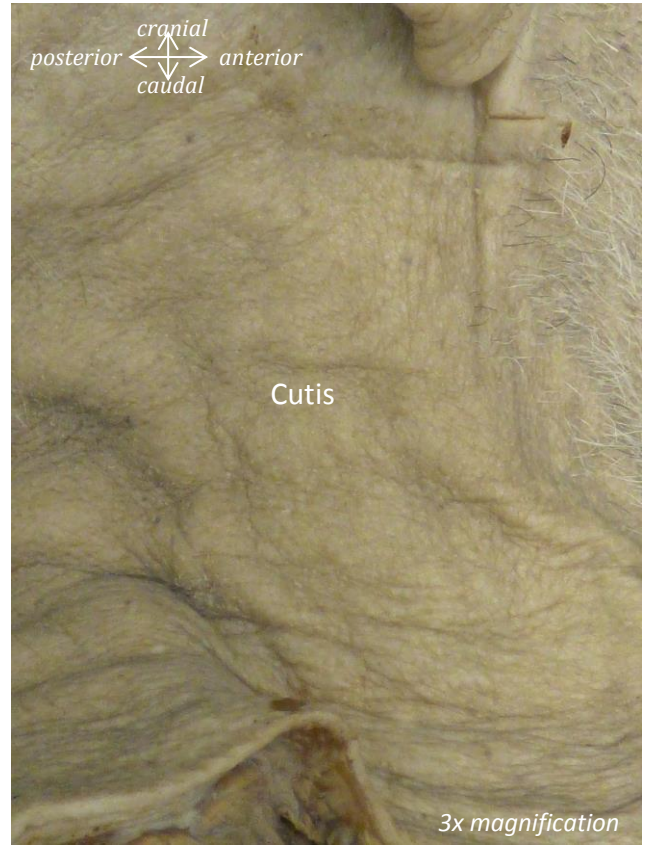
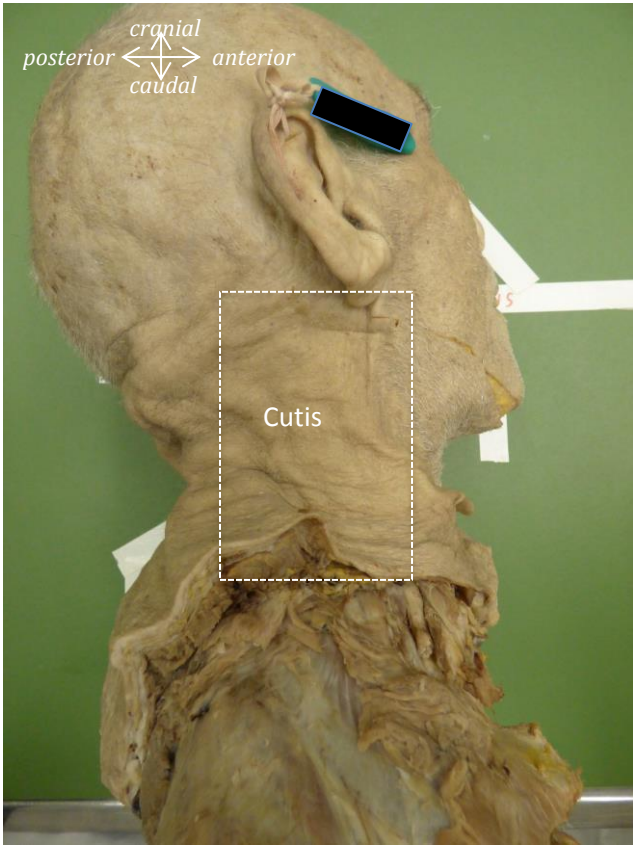


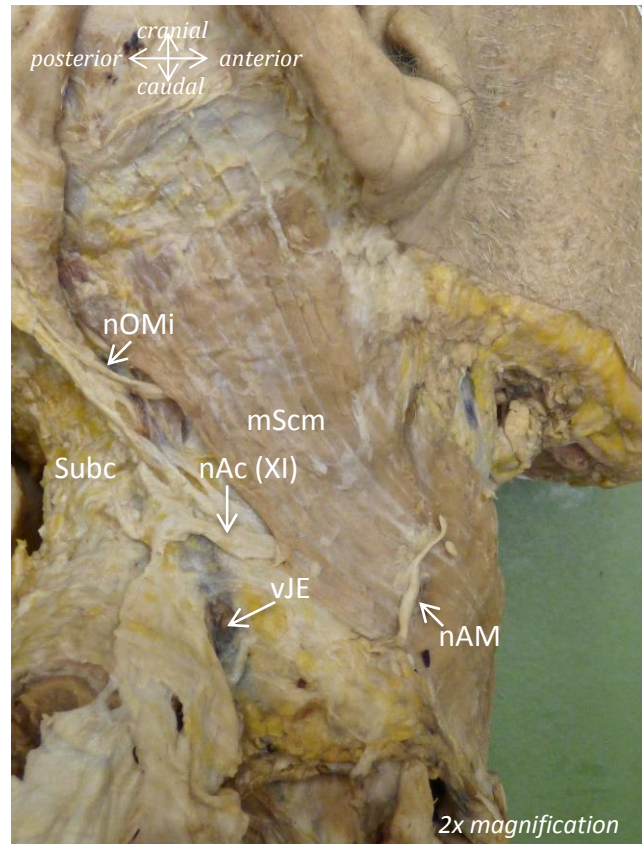
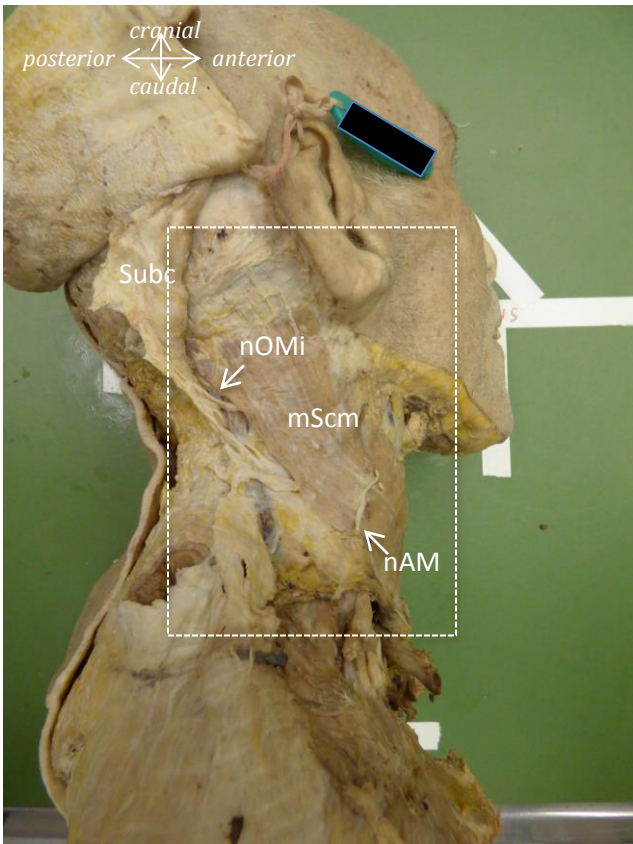
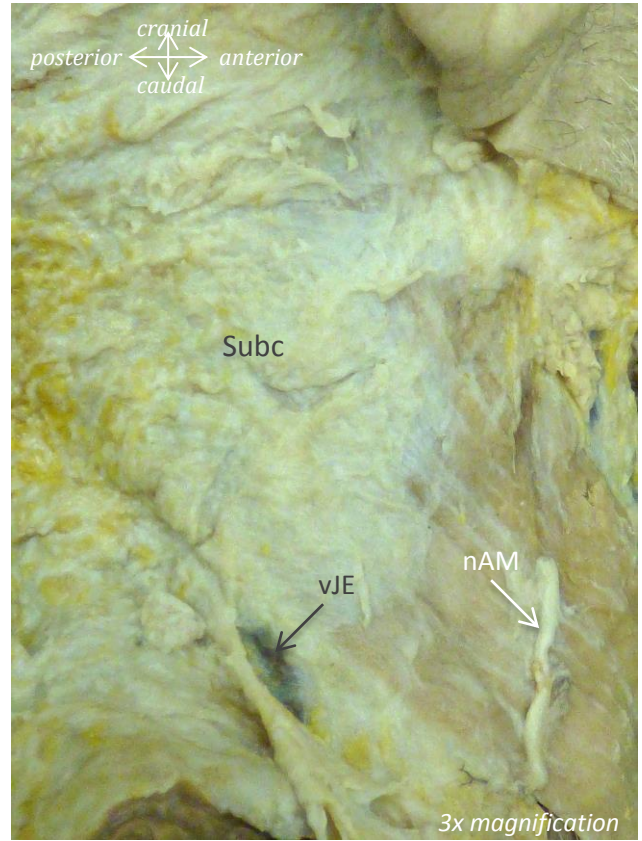
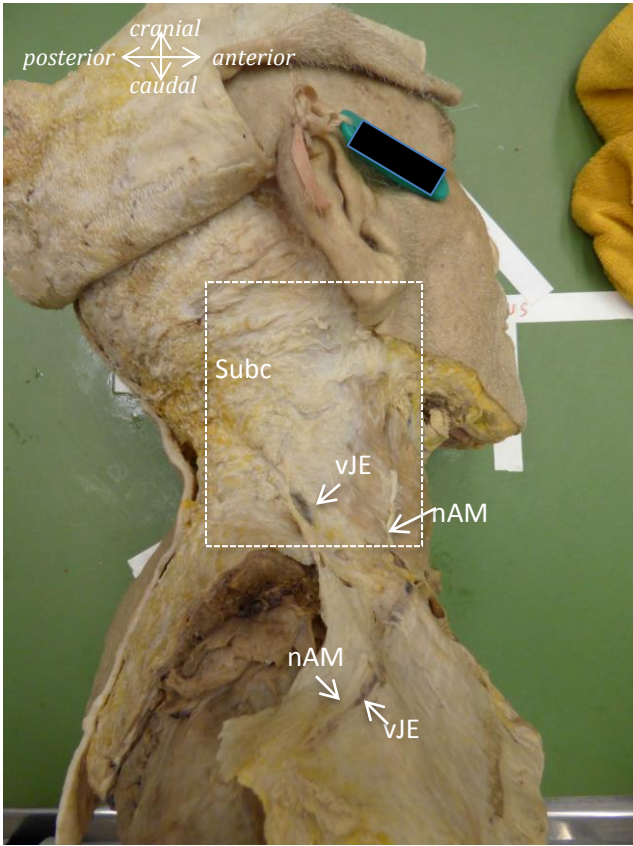
A dorsolateral dissection of the cervical neck

*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



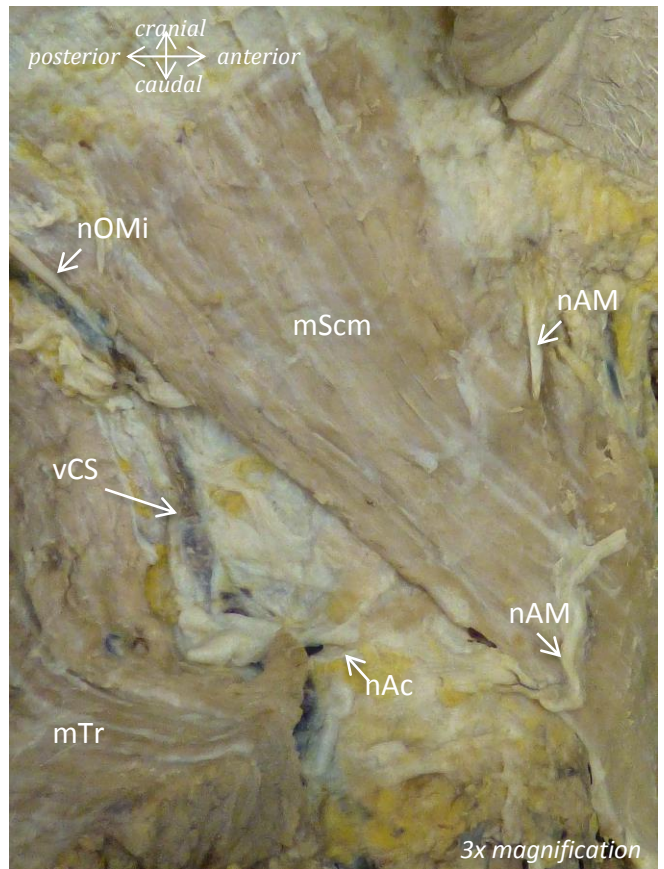
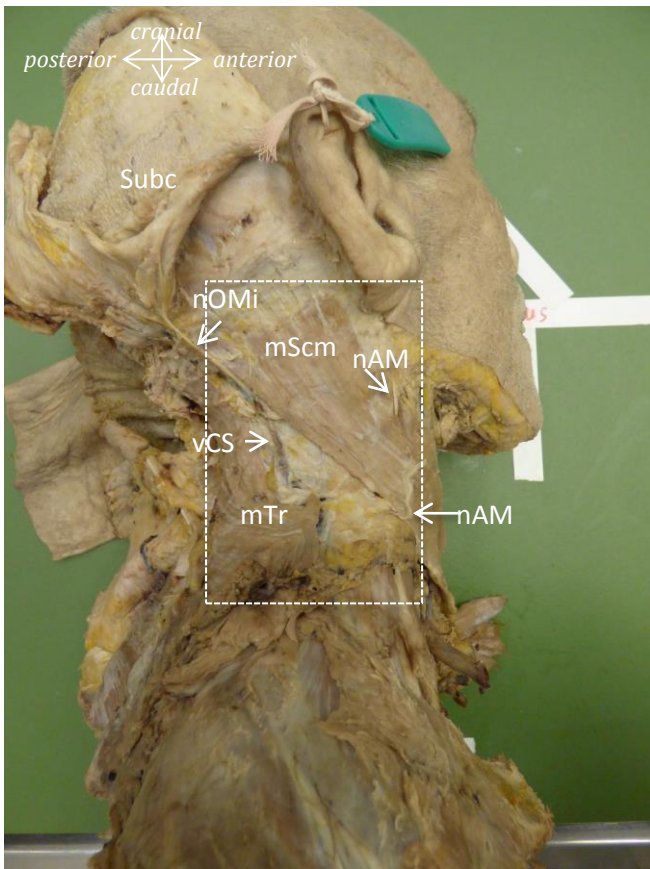
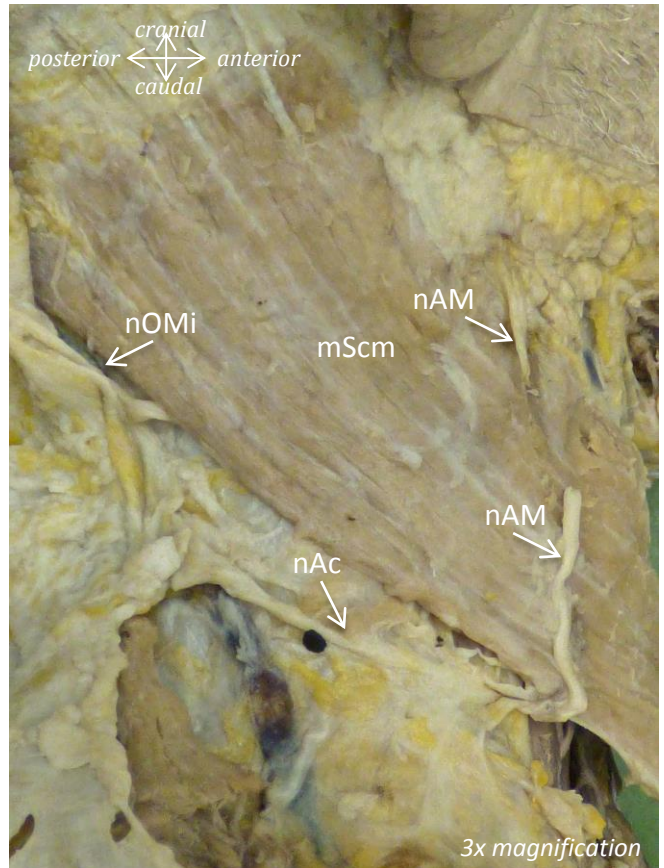
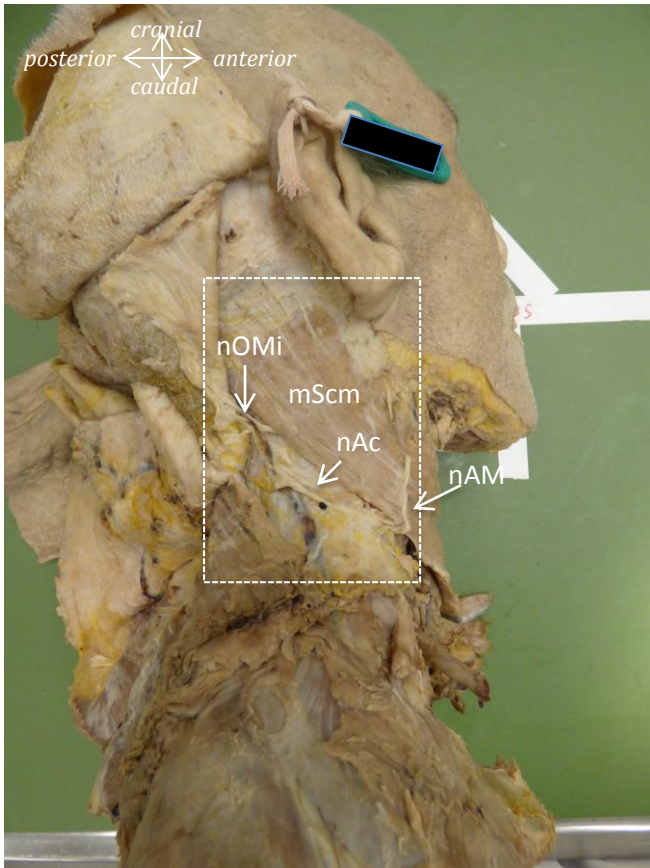
Muscles: mScm = m. sternocleidomastoideus

Nerves: nOMi = n. occipitalis minor; nAc = n. accessorius; nAM = n. auricularis magnus

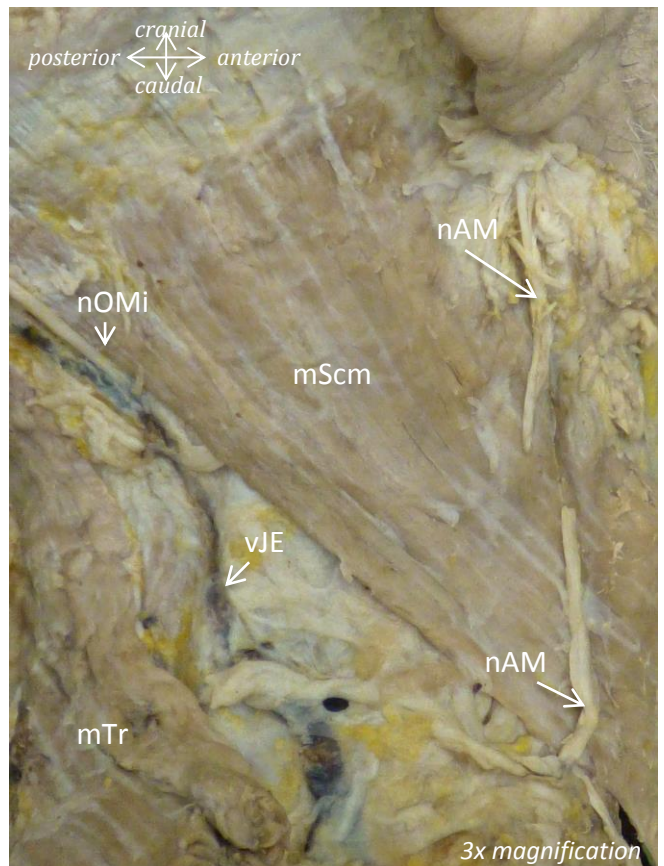
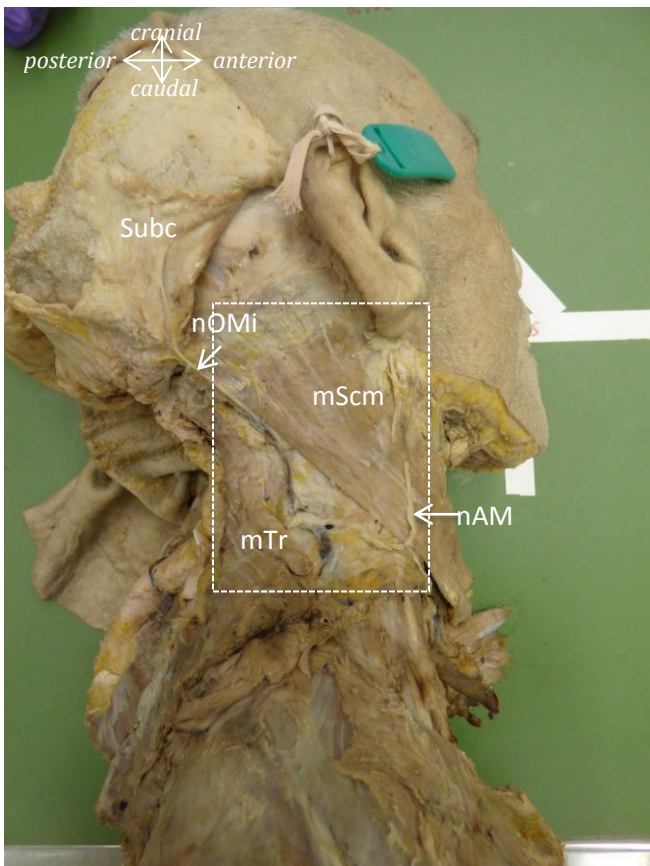
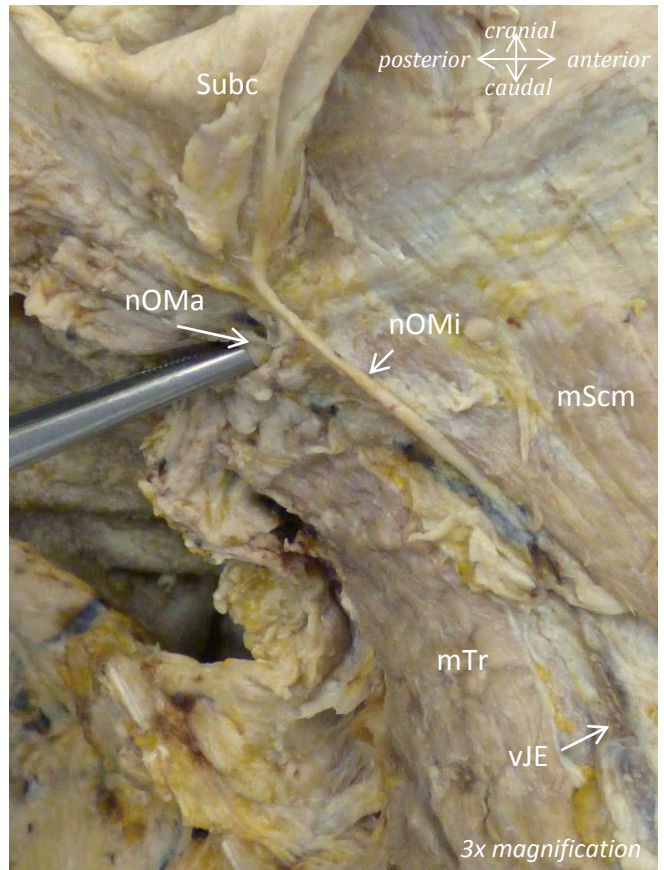
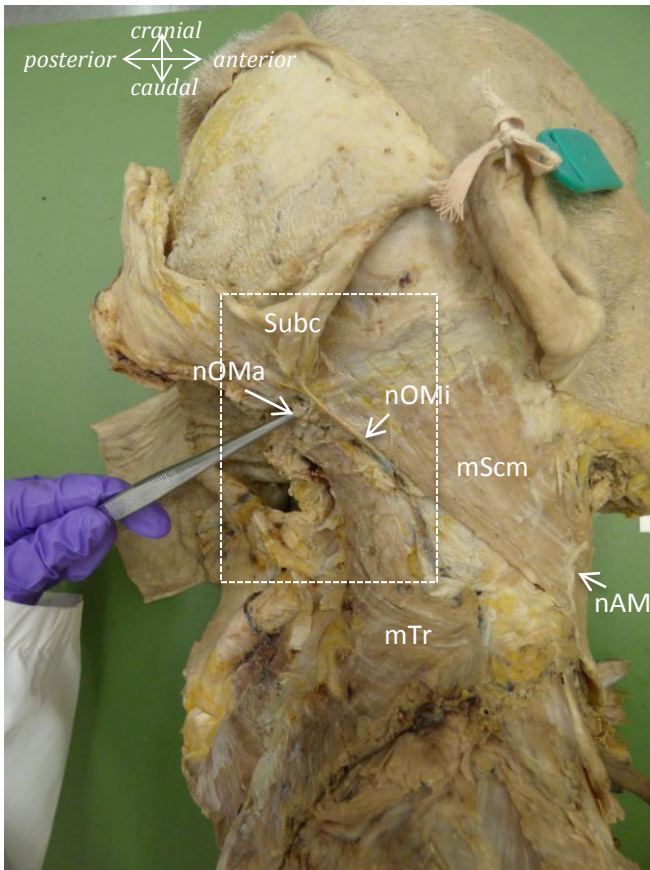
Vessels: vJE = v. jugularis externa

Extra: Subc = subcutis (folded)

Male, 76 years of age

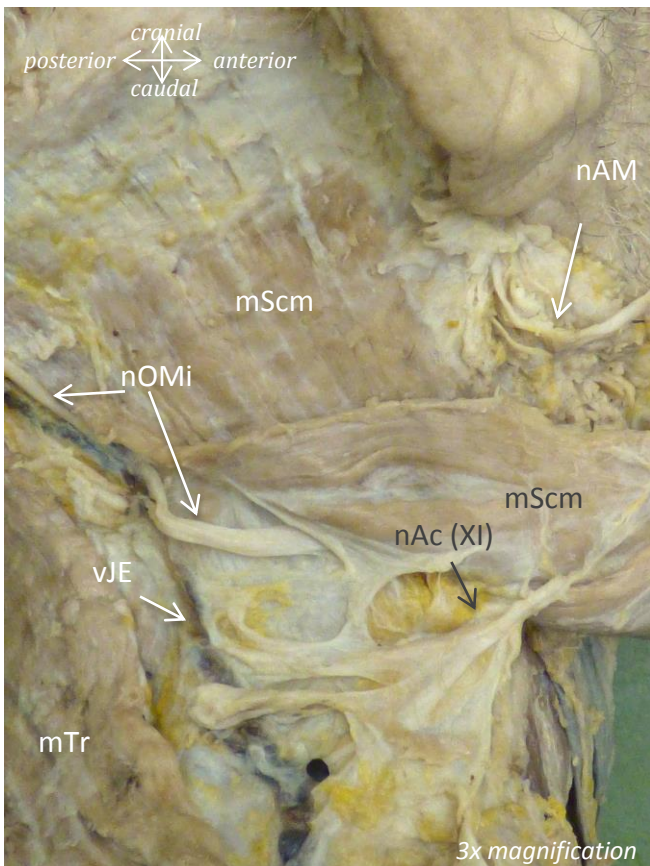
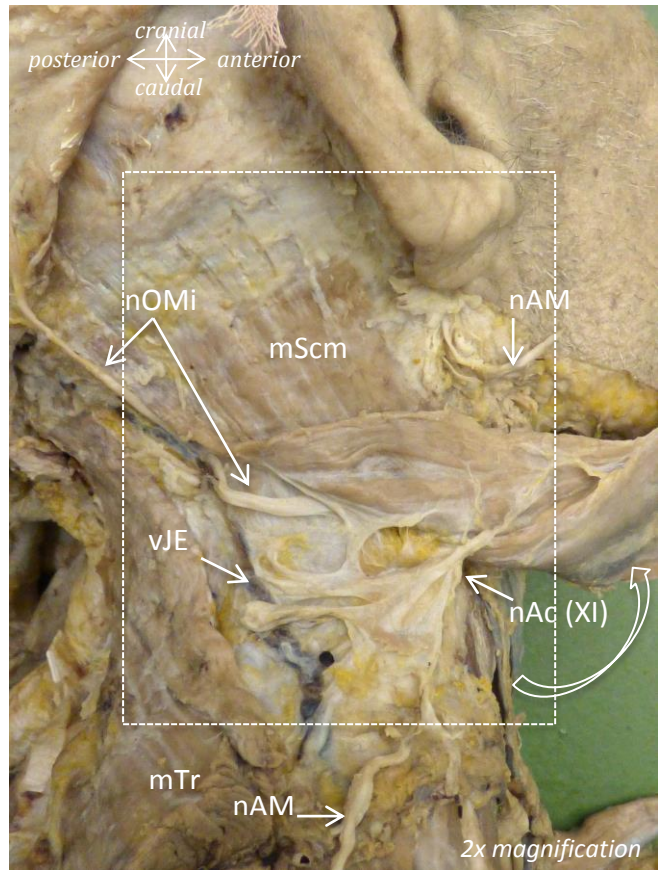
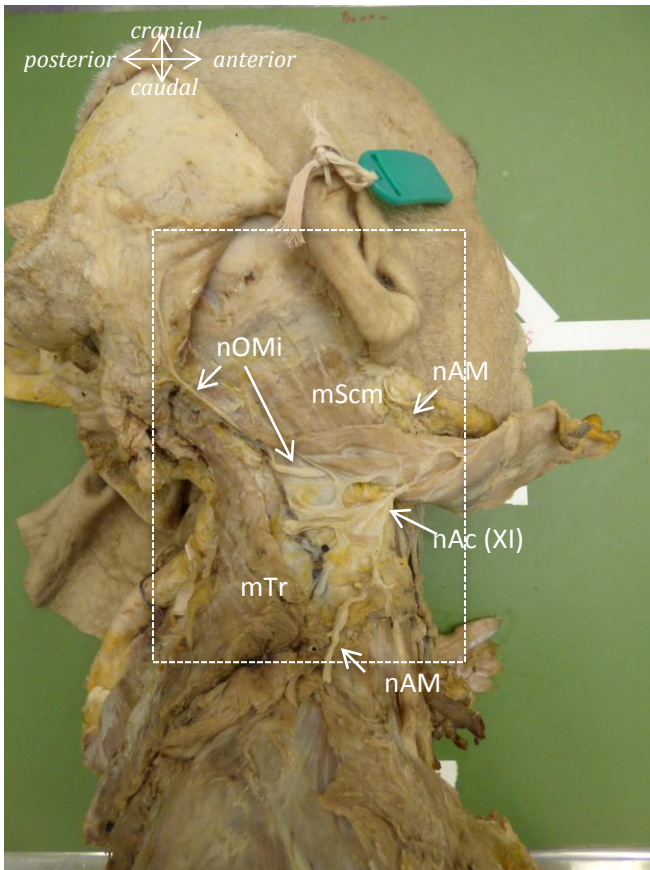


Muscles: mScm = m. sternocleidomastoideus; mTr = m. trapezius
Nerves: nOMi = n. occipitalis minor; nAM = n. auricularis magnus; nAc = n. accessorius
Vessels: vCS = v. capitis superficialis
Extra: Subc = subcutis (folded)



Muscles: mScm = m. sternocleidomastoideus; mTr = m. trapezius
Nerves: nOMi = n. occipitalis minor; nOMa = n. occipitalis major; nAM = n. auricularis magnus;
Vessels: vJE = v. jugularis externa
Extra: Subc = subcutis (folded)

Male, 76 years of age



Muscles

mScm = m. sternocleidomastoideus

mTr = m. trapezius

Nerves

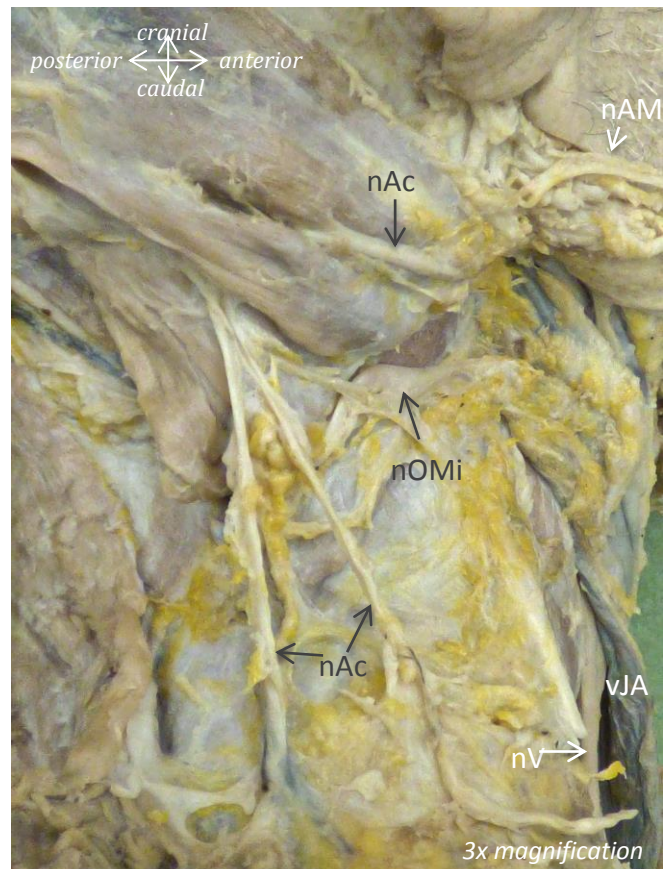
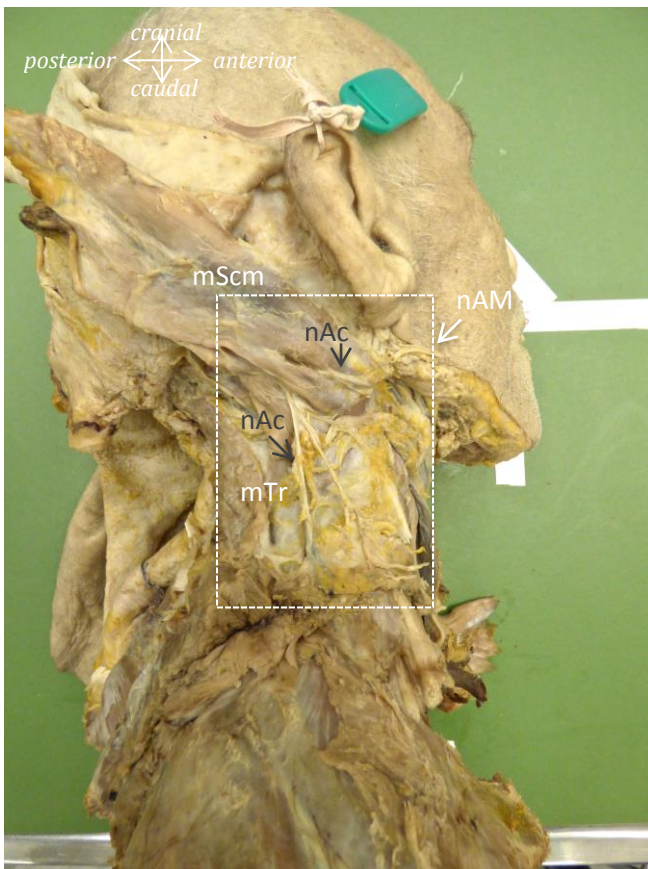
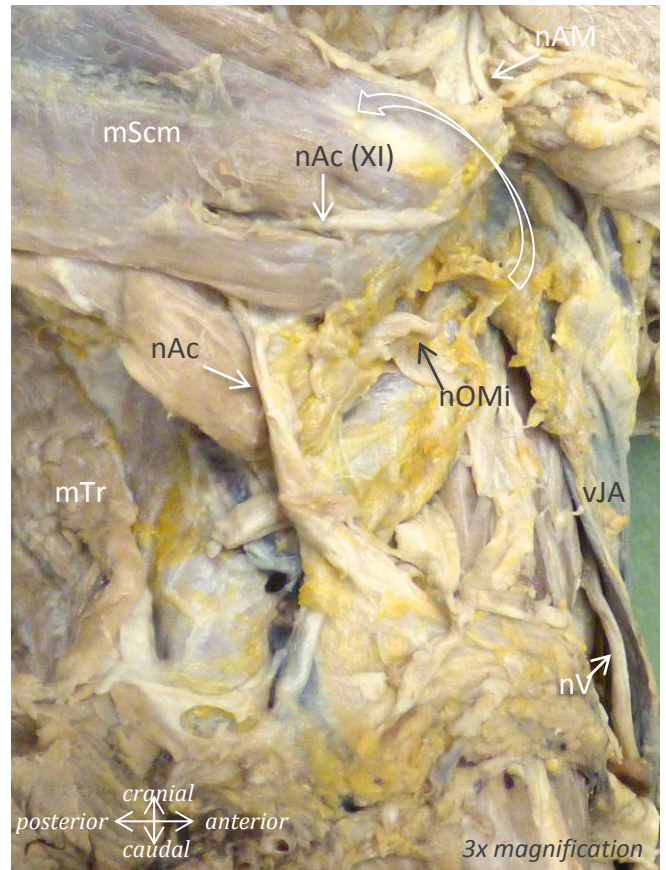
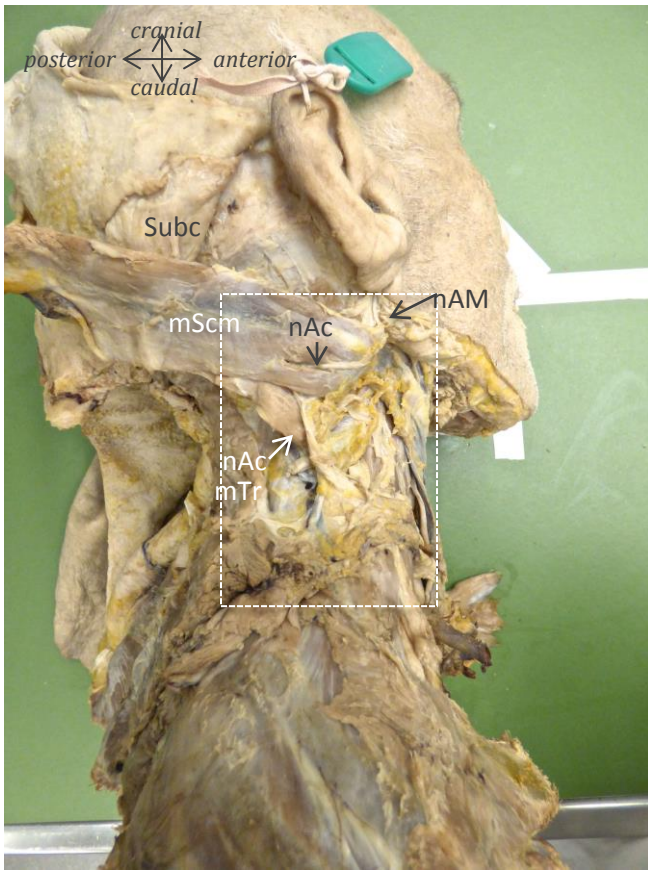
nAM = n. auricularis magnus

nOMi = n. occipitalis minor

nAc = n. accessorius

Vessels

vJE = v. jugularis externa

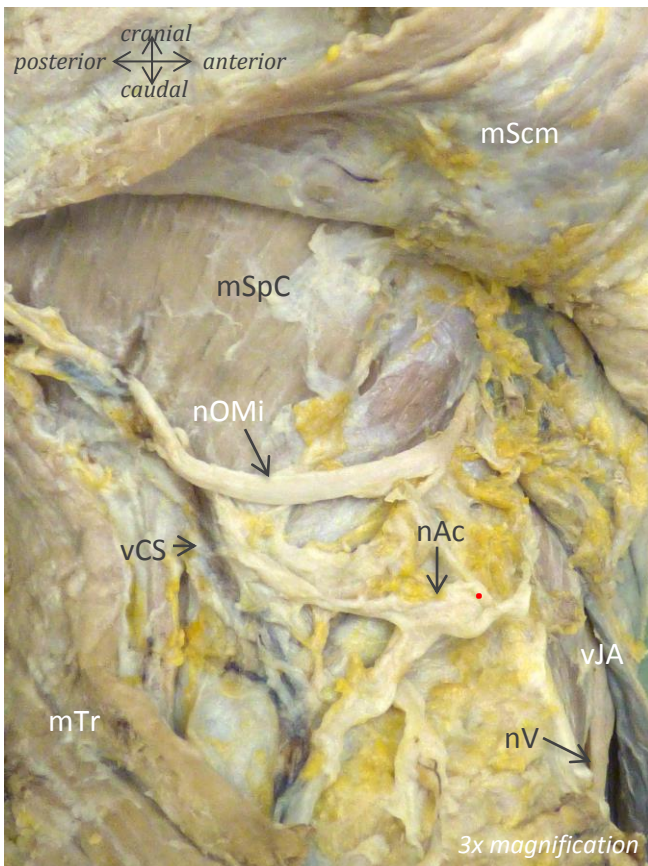
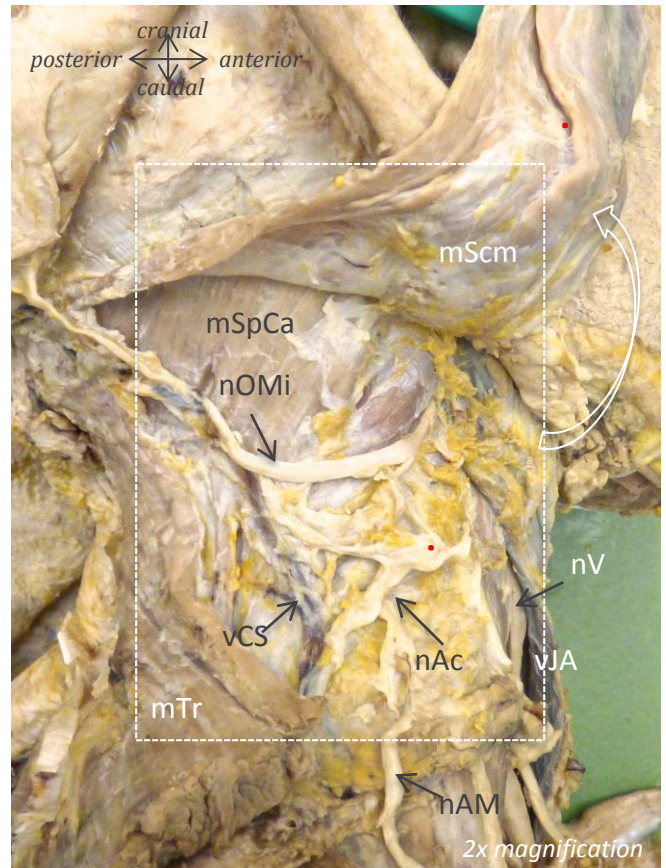
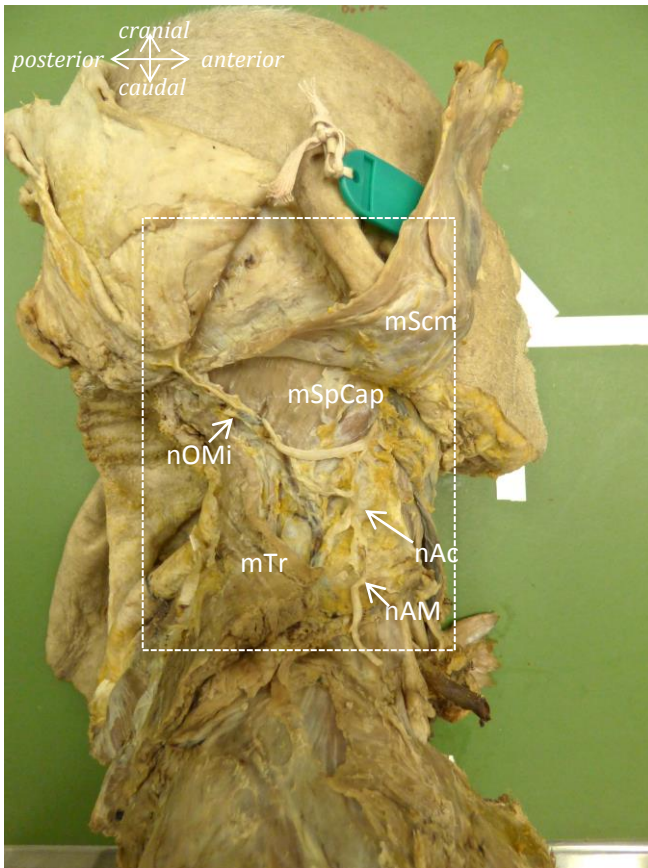


Muscles: mScm = m. sternocleidomastoideus (folded); mTr = m. trapezius

Nerves: nAM = n. auricularis magnus; nOMi = n. occipitalis minor; nAc = n. accessories (partly flapped); nV = n. vagus

Vessels: vJl = v. jugularis anterior

Male, 76 years of age



Muscles

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

Nerves

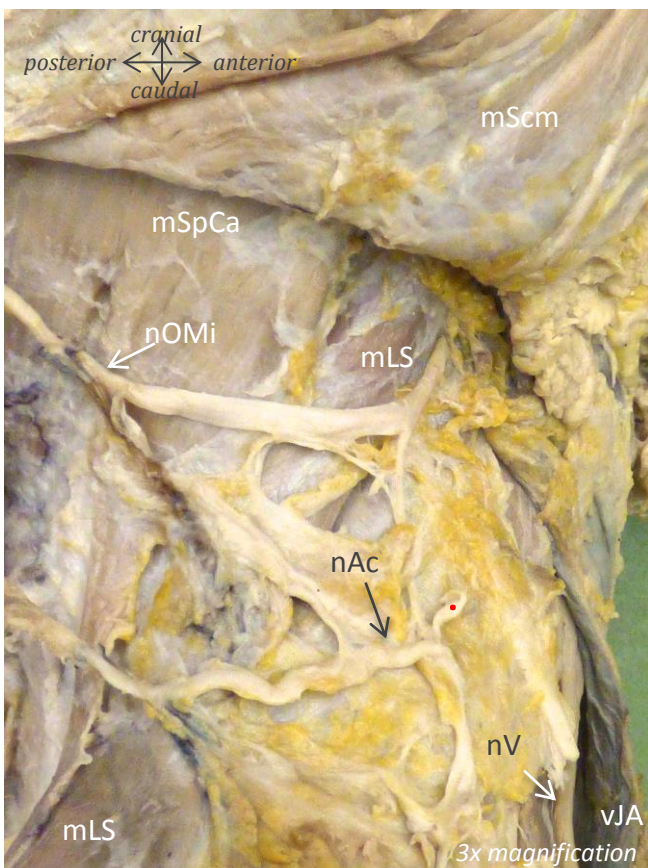
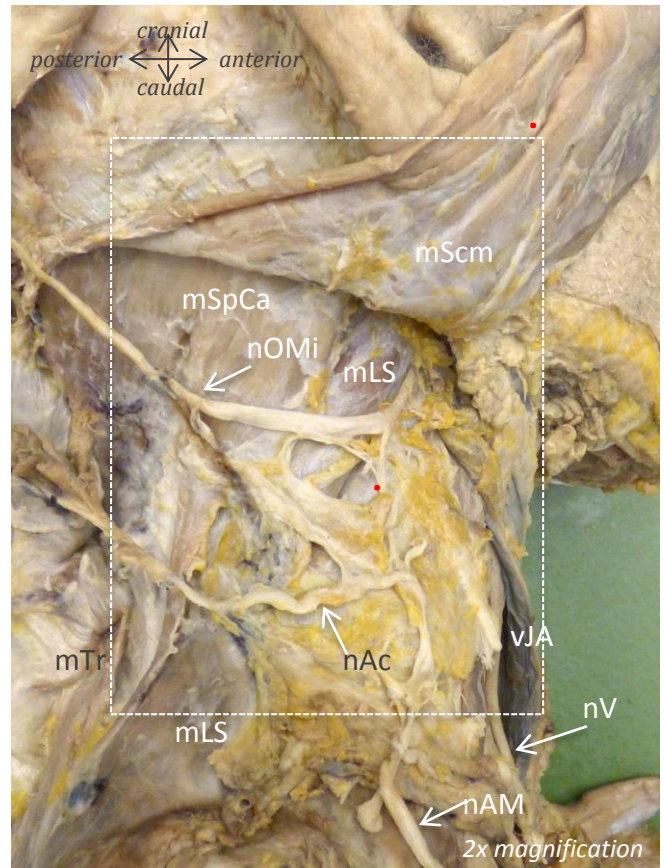
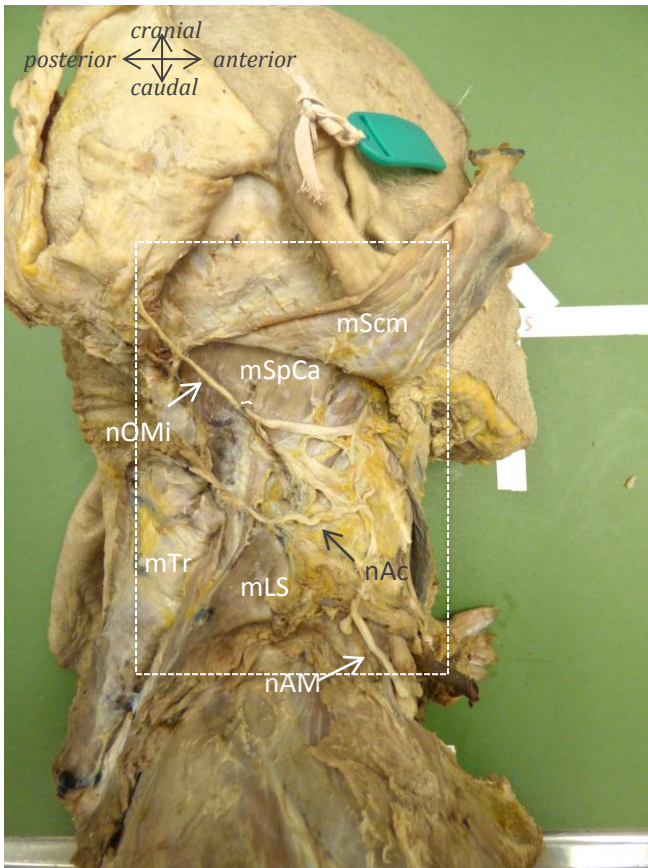
nOMi = n. occipitalis minor
 nAc = n. accessorius
 nAM = n. auricularis magnus
 nV = n. vagus

Vessels

vCS = v. capitis superficialis
 vJA = v. jugularis anterior

Extra

• = nAc cut



Muscles

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

Nerves

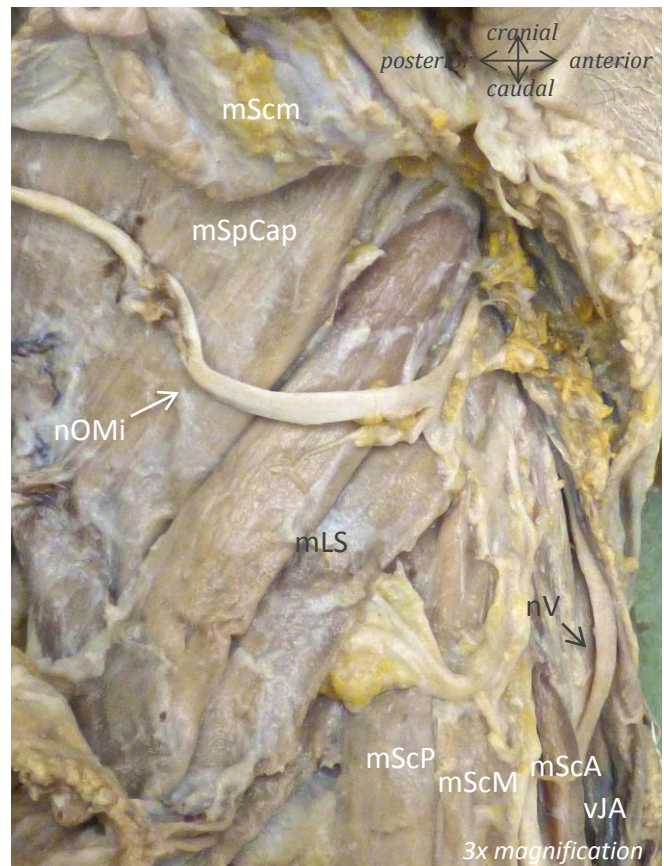
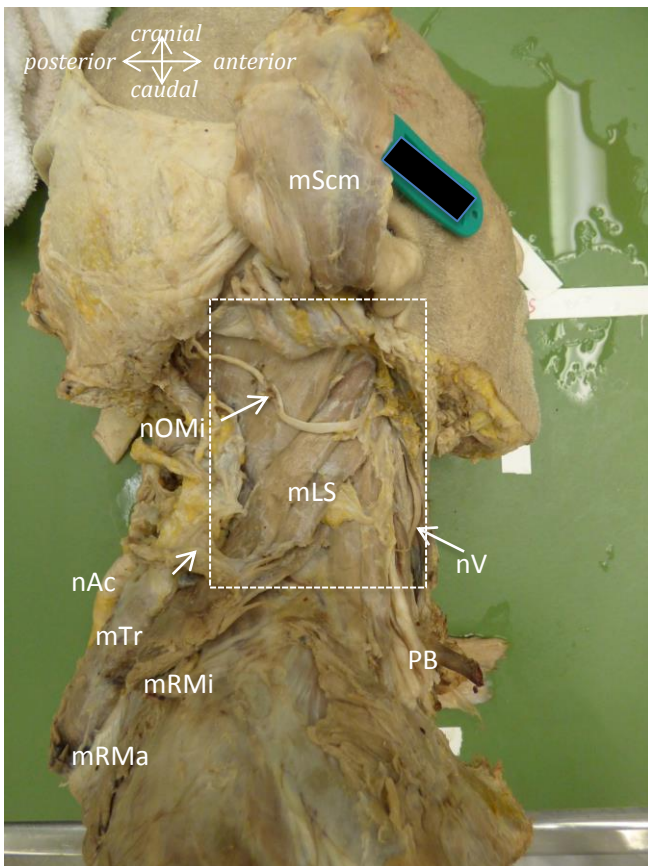
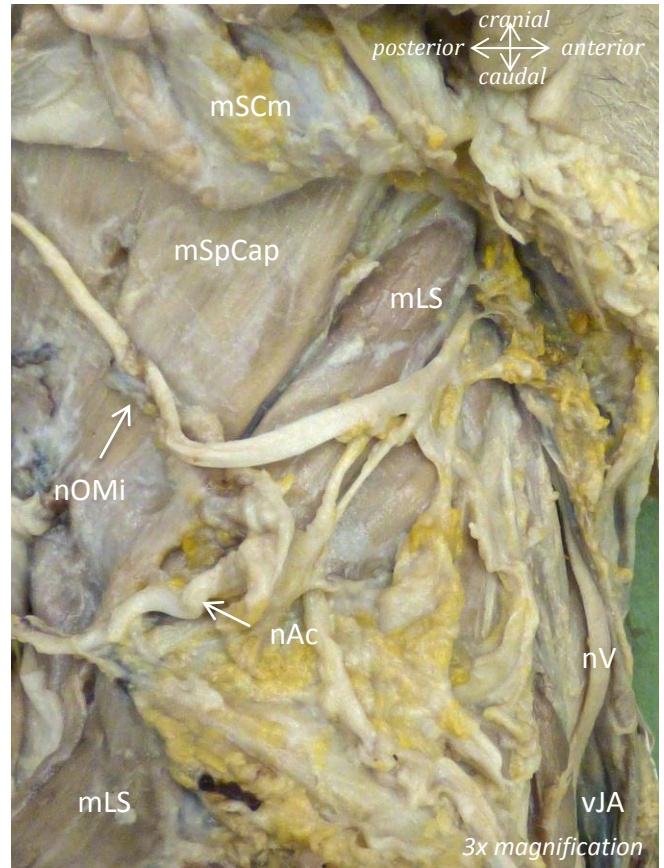
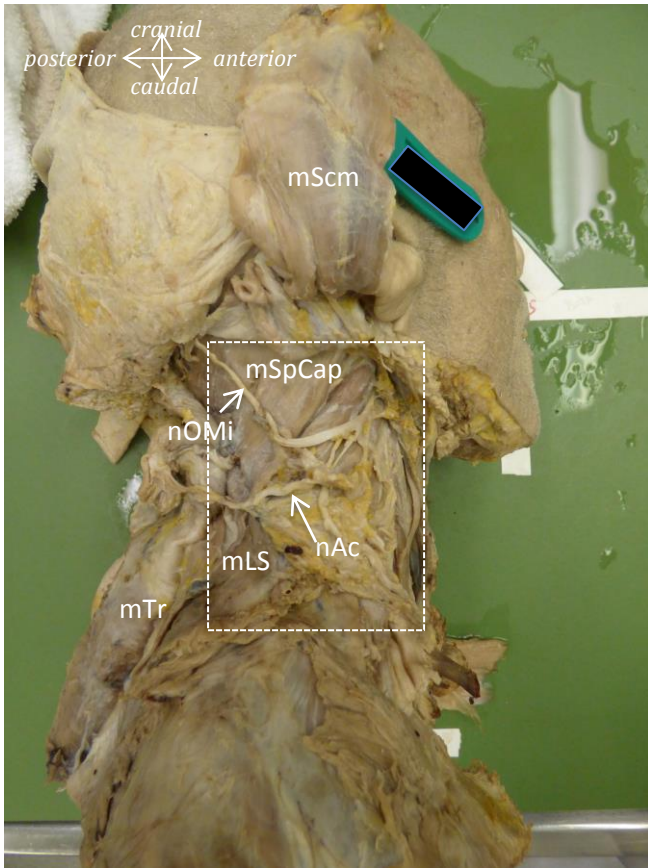
- nOMi = n. occipitalis minor
- nAc = n. accessorius
- nAM = n. auricularis magnus
- nV = n. vagus

Vessels

- vCS = v. capitis superficialis
- vJA = v. jugularis anterior

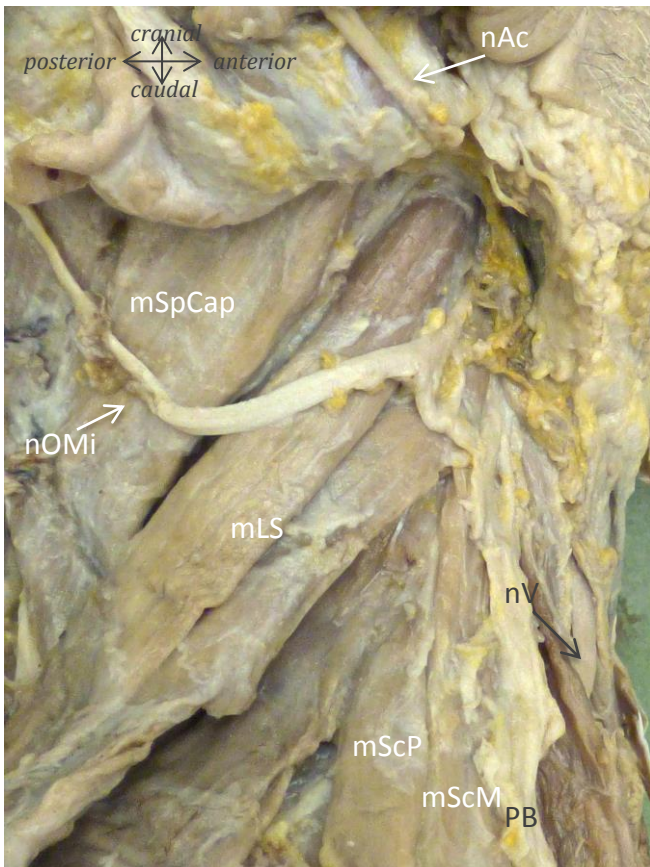
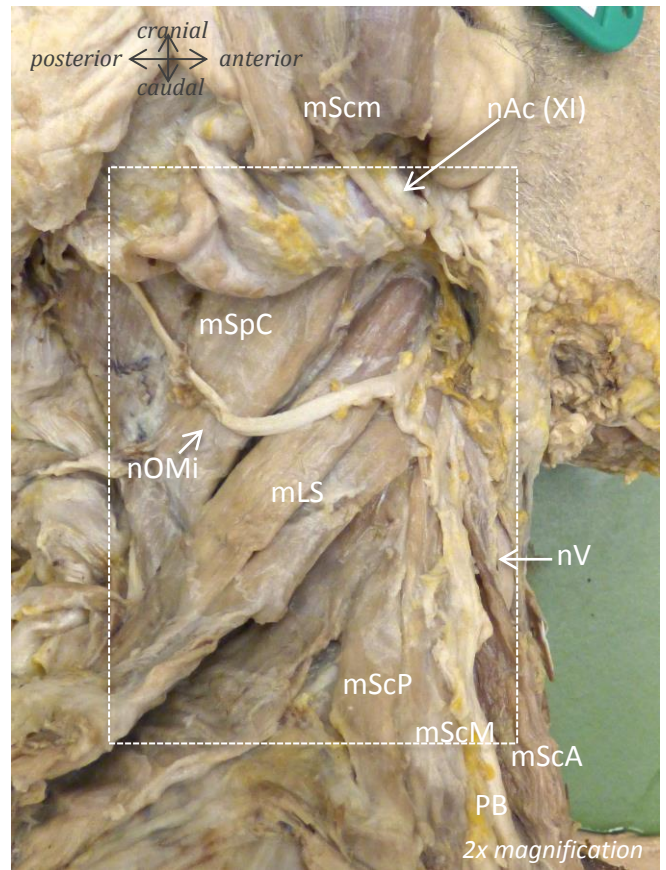
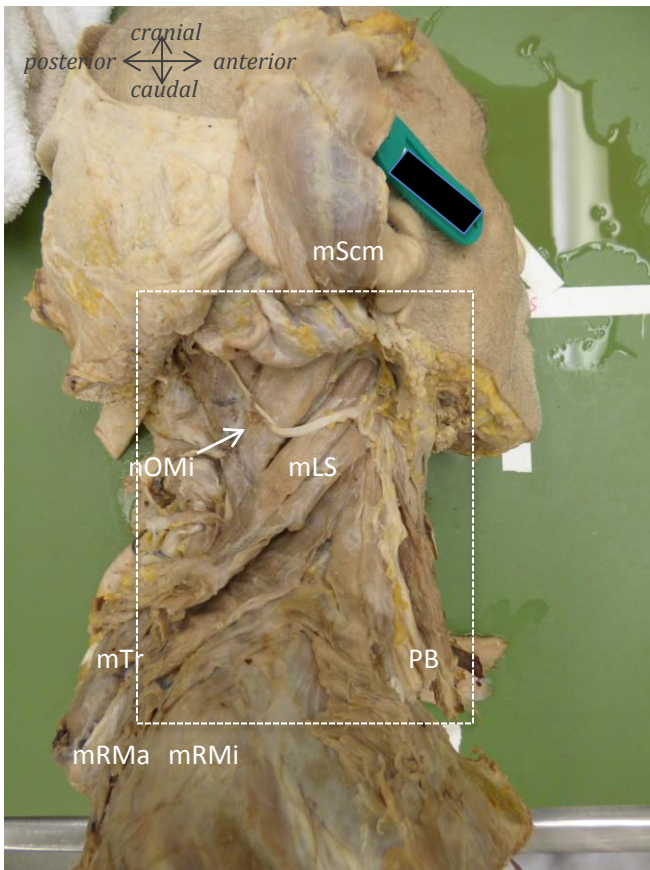
Extra

- = nAc cut

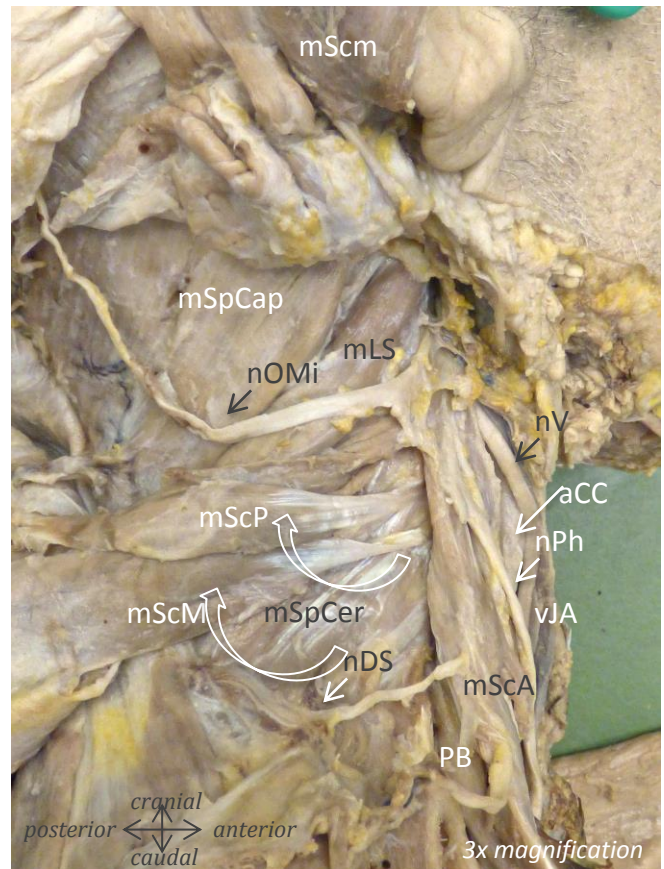
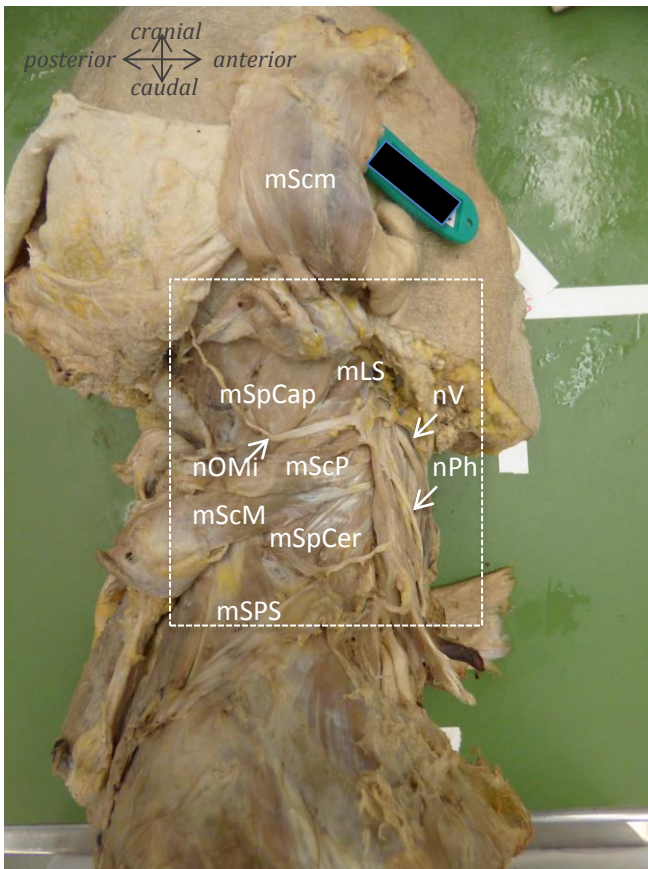
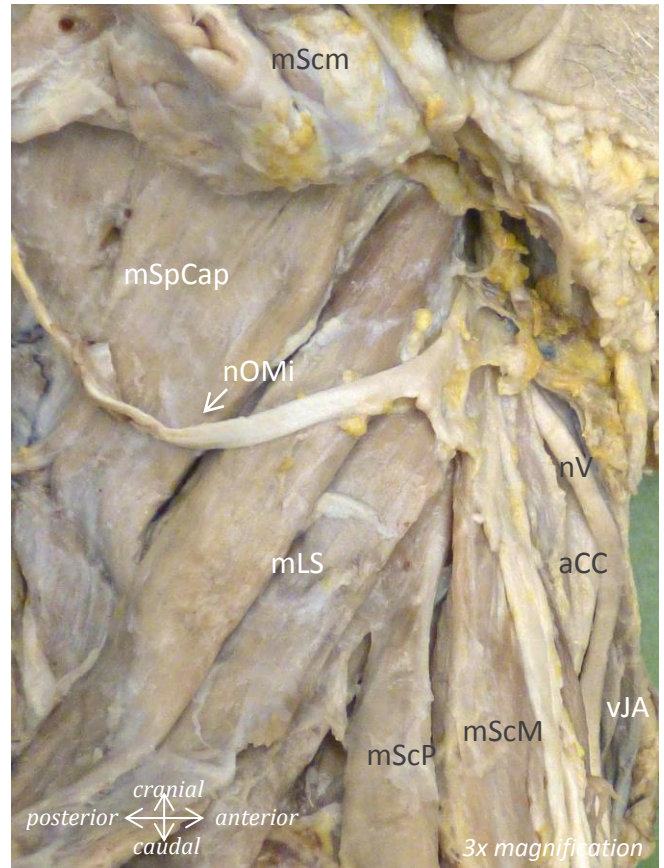
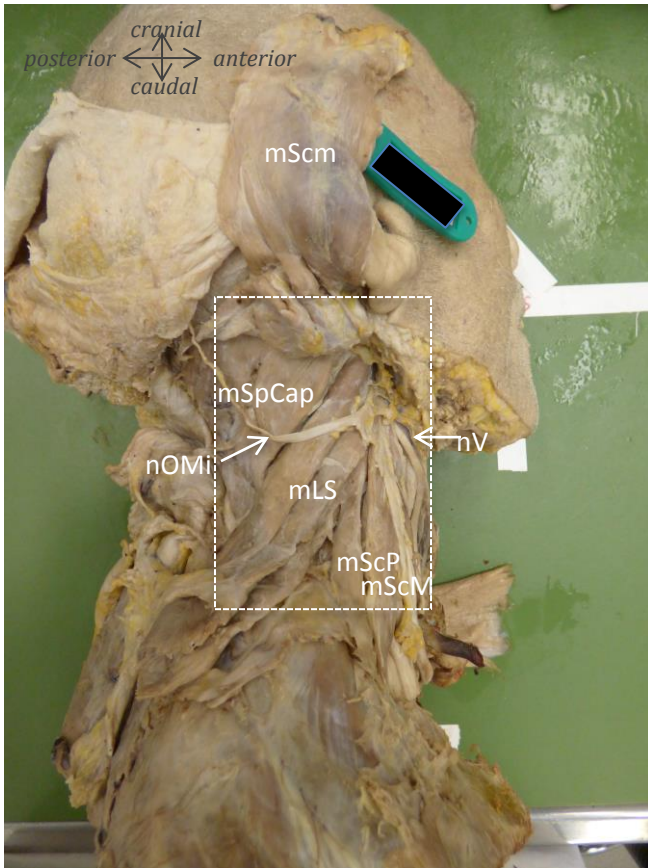


Muscles: mScm = m. Sternocleidomastoideus (folded); mSpCap = m. splenius capitis; mTr = m. trapezius; mRMI = m. rhomboideus minor; mRMA = m. rhomboideus major; mScP = m. scalenus posterior; mScM = m. scalenus medius; mScA = m. scalenus anterior; mLS = m. levator scapulae
Nerves: nOMi = n. occipitalis minor; nAc = n. accessorius; nV = n. vagus; PB = plexus brachialis
Vessels: vJl = v. jugularis anterior

Male, 76 years of age



- Muscles**
 mScm = m. sternocleidomastoideus (folded)
 mLS = m. levator scapulae
 mSpCap = m. splenius capitis
 mTr = m. trapezius
 mRMi = m. rhomboideus minor
 mRMa = m. rhomboideus major
 mScP = m. scalenus posterior
 mScM = m. scalenus medius
 mScA = m. scalenus anterior
- Nerves**
 nOMi = n. occipitalis minor
 nAc = n. accessories (flapped)
 nV = n. vagus
 PB = plexus brachialis
- Vessels**
 vJl = v. jugularis anterior

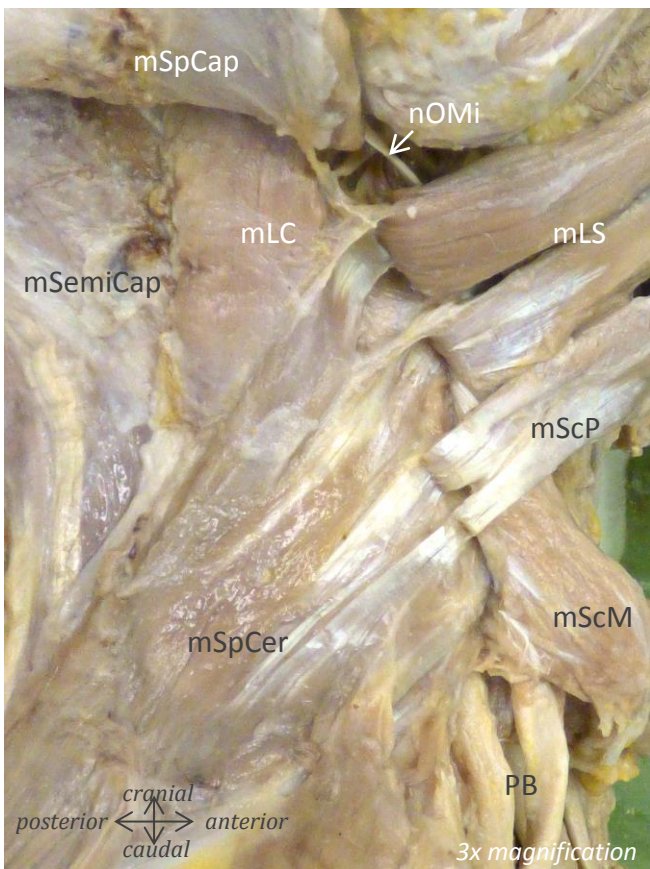
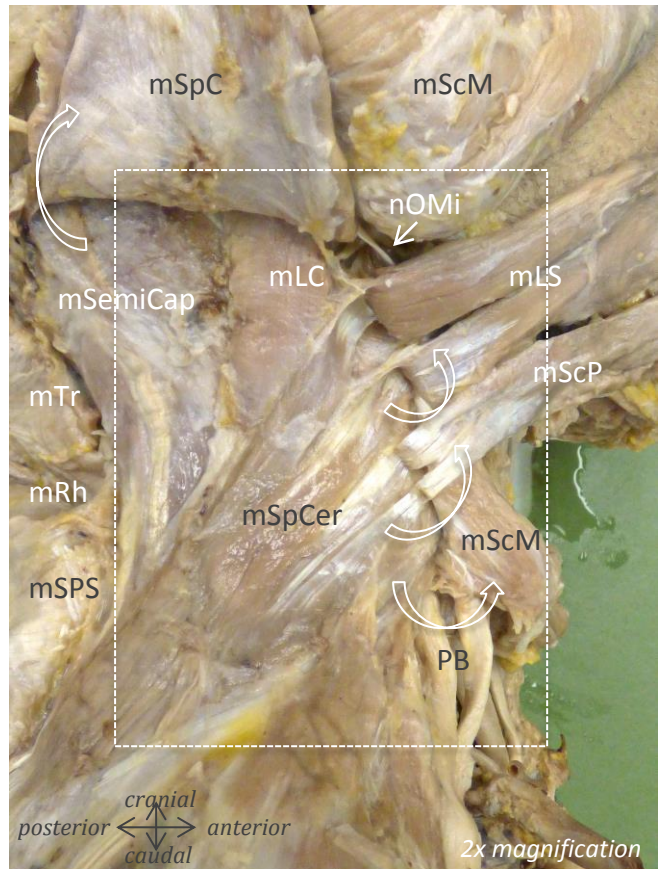
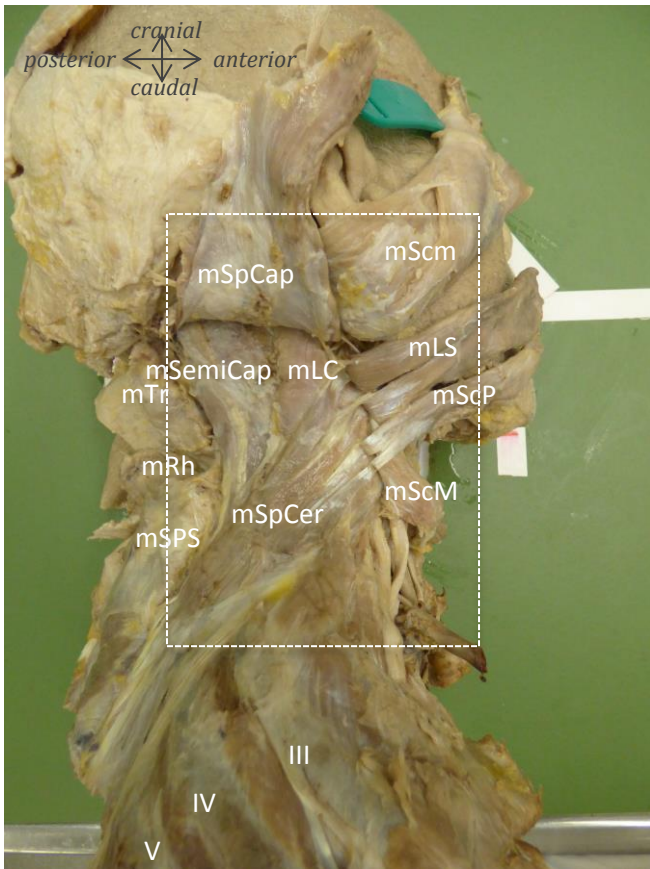


Muscles: mScm = m. Sternocleidomastoideus (folded); mLS = m. levator scapulae; mSPS = m. serratus posterior superior; mSpCap = m. splenius capitis; mSpCer = m. splenius cervicis; mScP = m. scalenus posterior; mScM = m. scalenus medius; mScA = m. scalenus anterior (folded)

Nerves: nOMi = n. occipitalis minor; nV = n. vagus; nPh = n. phrenicus; nDS = n. dorsalis scapulae; PB = plexus brachialis

Vessels: aCC = a. carotis communis; vJA = v. jugularis anterior

Male, 76 years of age



Muscles

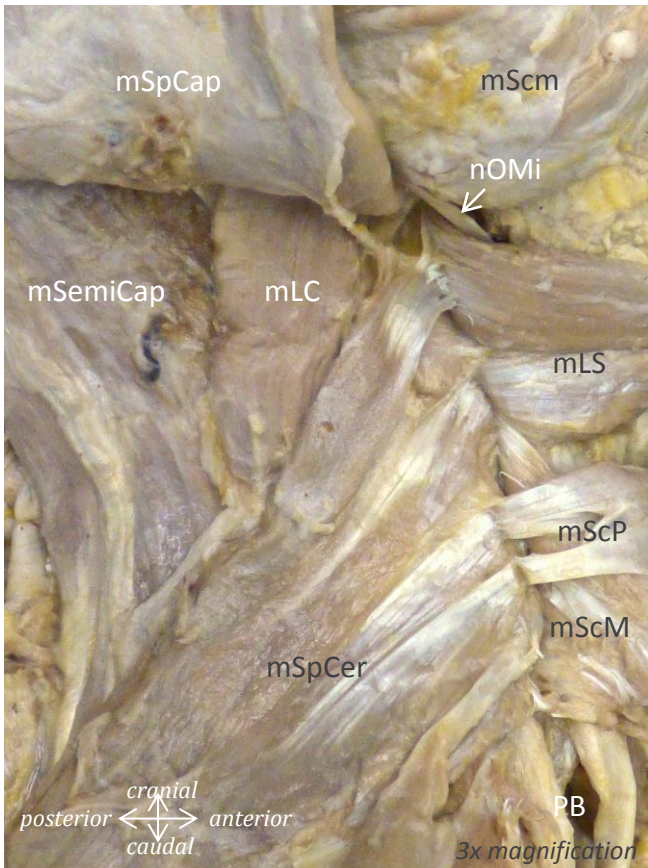
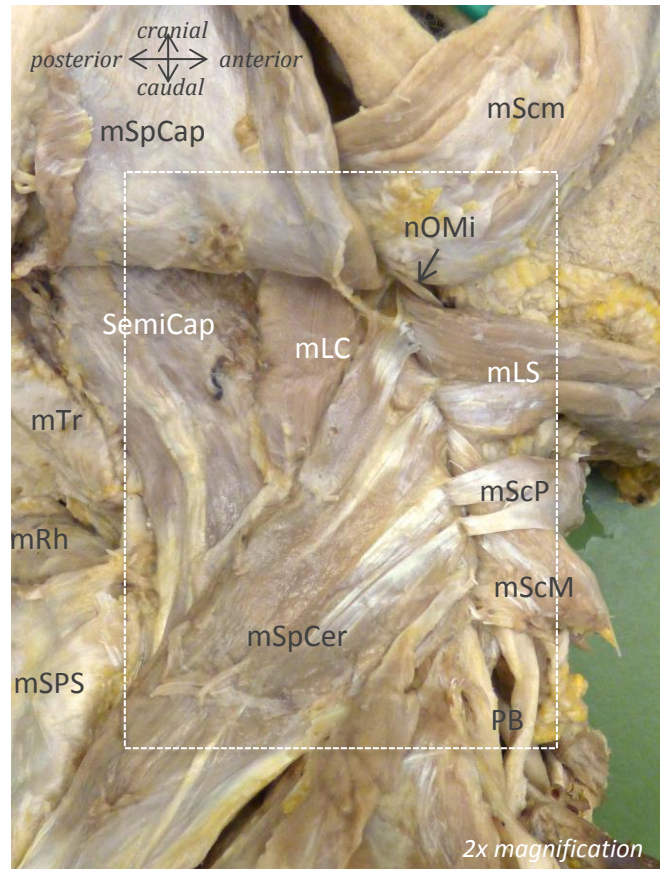
- mScm = m. sternocleidomastoideus (folded)
- mTr = m. trapezius
- mRh = m. rhomboideii
- mSPS = m. serratus posterior superior (folded)
- mScP = m. scalenus posterior (folded)
- mScM = m. scalenus medius (folded)
- mSpCap = m. splenius capitis (folded)
- mSpCer = m. splenius cervicis
- mLS = m. levator scapulae (folded)
- mLC = m. longissimus capitis
- mSemiCap = m. semispinalis capitis

Nerves

- nOMi = n. occipitalis minor
- PB = plexus brachialis

Extra

III, IV, V = costae



Muscles

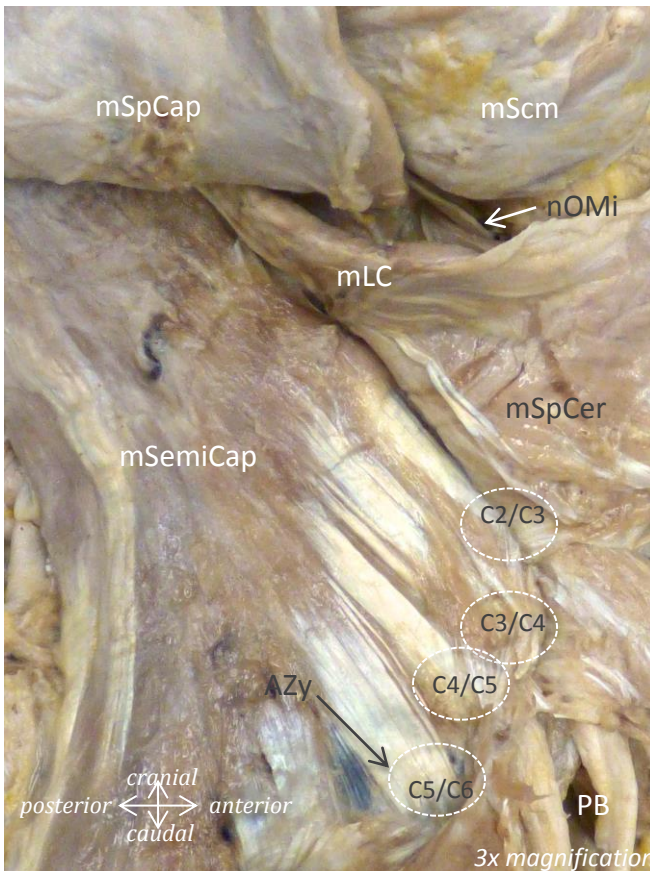
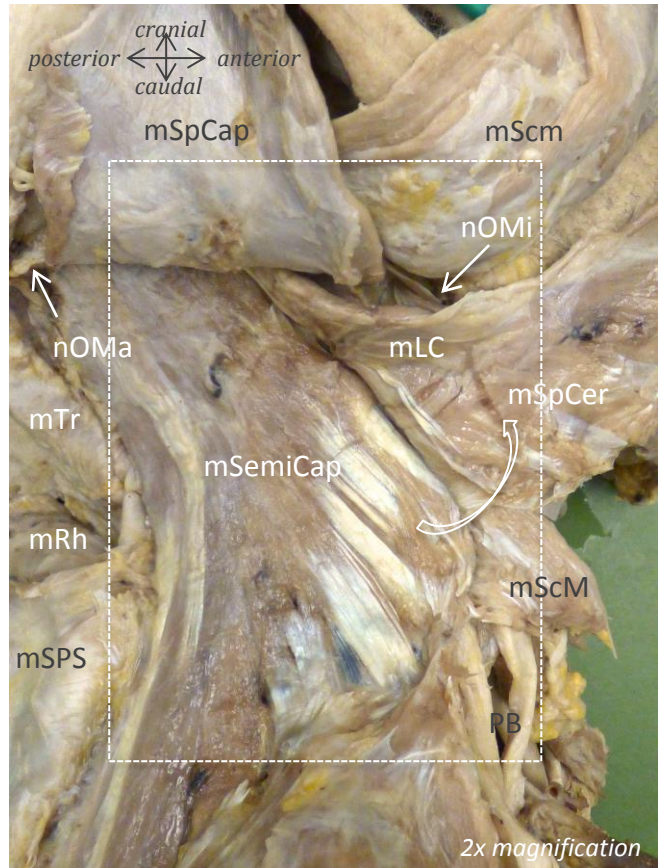
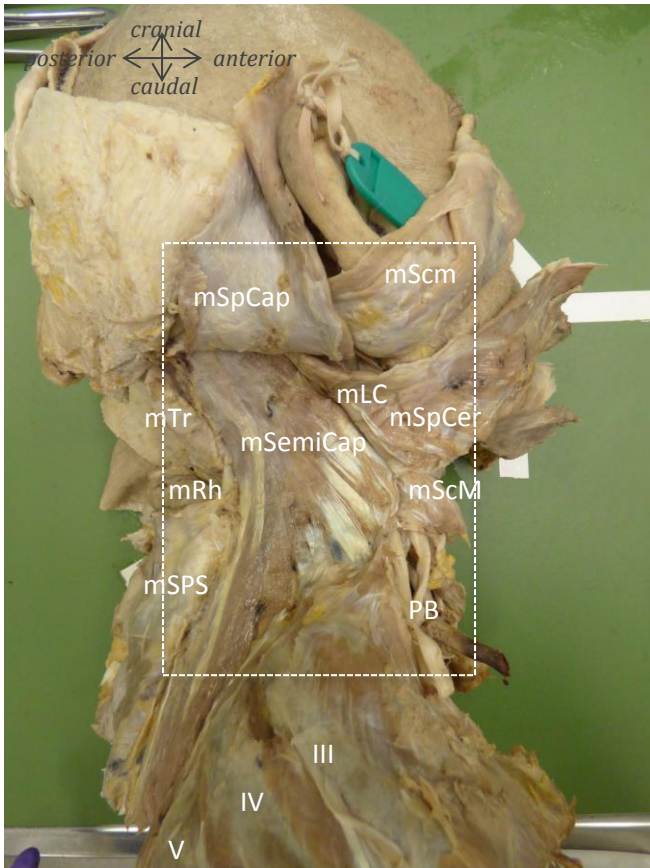
- mScm = m. sternocleidomastoideus (folded)
- mTr = m. trapezius
- mRh = m. rhomboideii
- mSPS = m. serratus posterior superior (folded)
- mScP = m. scalenus posterior (folded)
- mScM = m. scalenus medius (folded)
- mSpCap = m. splenius capitis (folded)
- mSpCer = m. splenius cervicis
- mLS = m. levator scapulae (folded)
- mLC = m. longissimus capitis
- mSemiCap = m. semispinalis capitis

Nerves

- nOMi = n. occipitalis minor
- PB = plexus brachialis

Extra

- III, IV, V = costae



Muscles

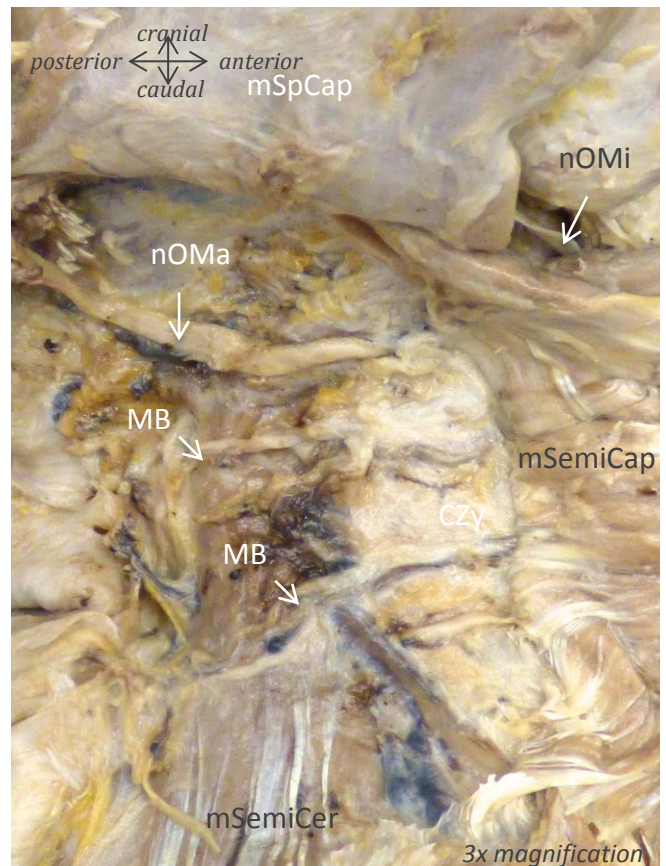
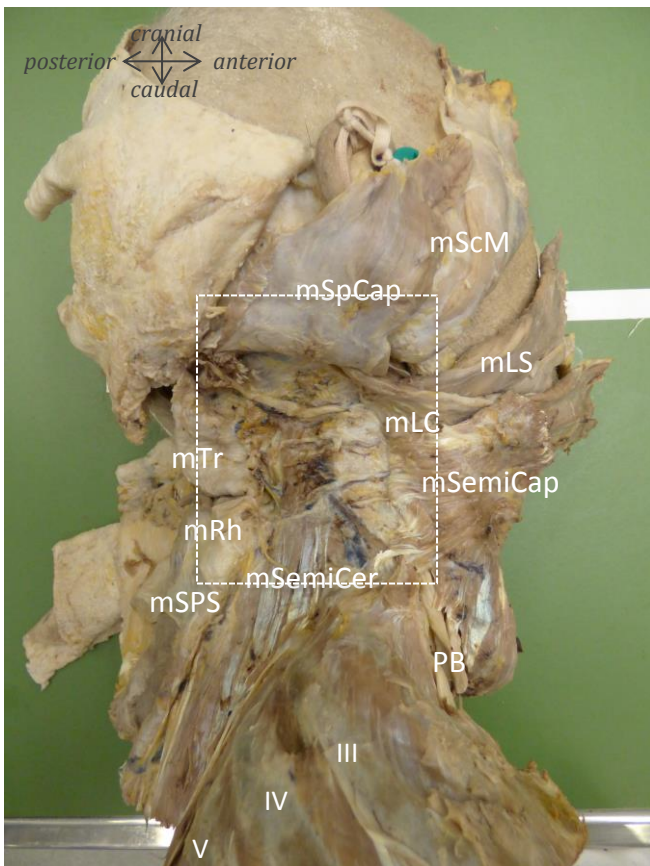
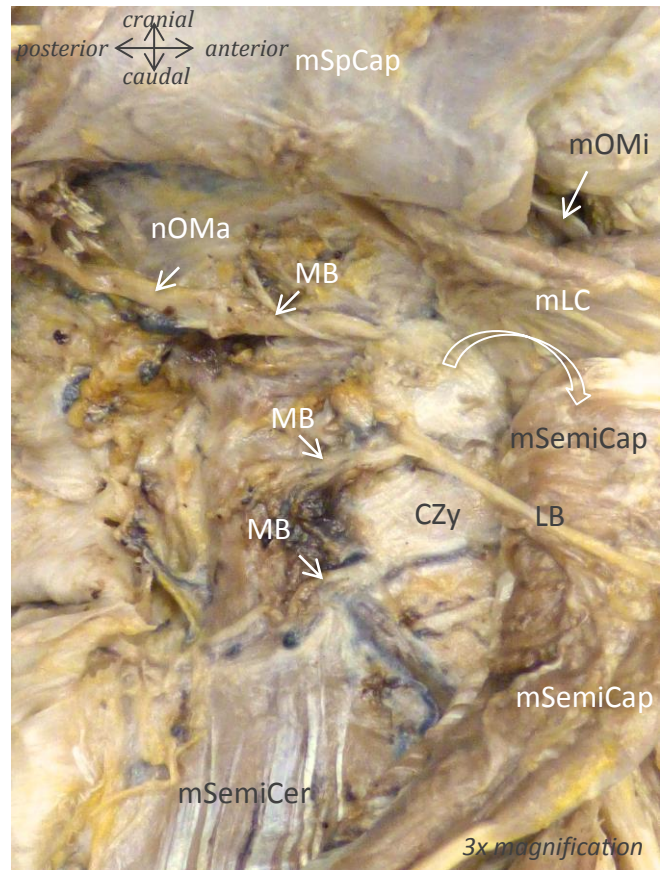
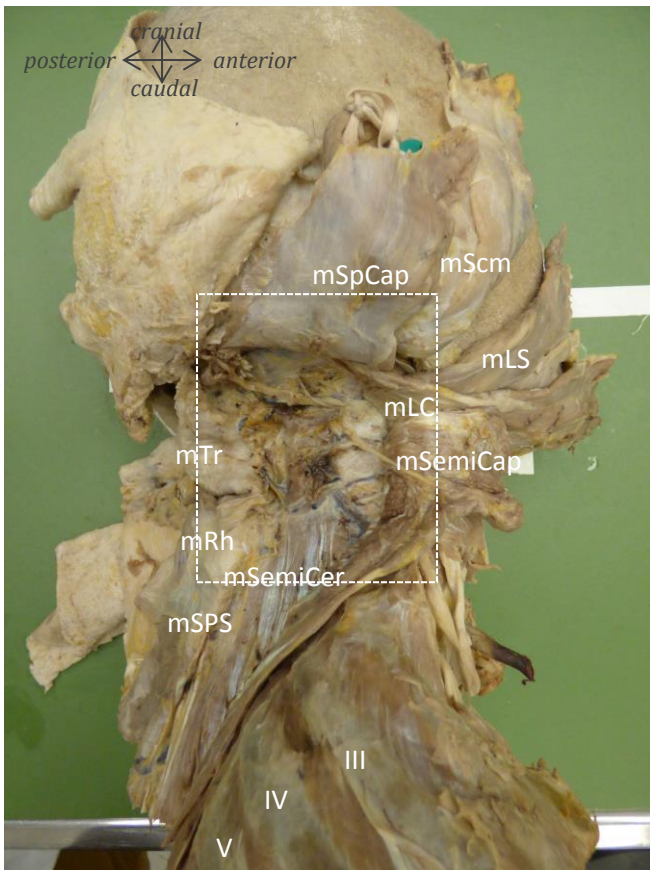
- mScm = m. sternocleidomastoideus (folded)
- mTr = m. trapezius
- mRh = m. rhomboideii
- mSPS = m. serratus posterior superior (folded)
- mScM = m. scalenus medius (folded)
- mSpCap = m. splenius capitis (folded)
- mSpCer = m. splenius cervicis (folded)
- mLC = m. longissimus capitis
- mSemiCap = m. semispinalis capitis

Nerves

- nOMi = n. occipitalis minor
- nOMa = n. occipitalis major
- PB = plexus brachialis

Extra

- AZy = articulatio zygapophysealis
- III, IV, V = costae

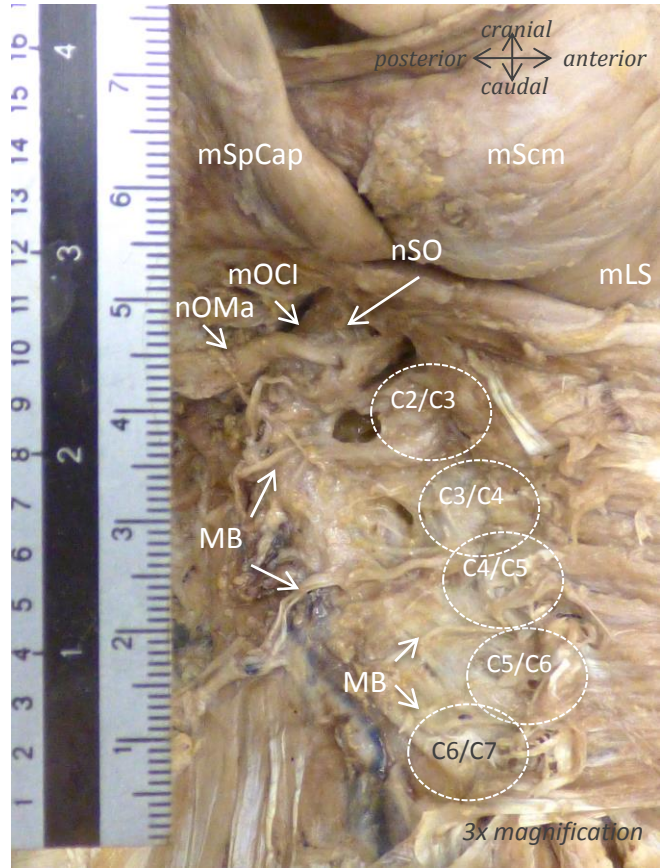


Muscles: mScm = m. Sternocleidomastoideus (folded); mTr = m. trapezius; mRh = m. rhomboideii; mLS = m. levator scapulae (folded); mSPS = m. serratus posterior superior (folded); mSpCap = m. splenius capitis (folded); mSpCer = m. splenius cervicis; mLC = m. longissimus capitis (folded); mSemiCap = m. semispinalis capitis (folded)

Nerves: nOMi = n. occipitalis minor; nOMa = n. occipitalis major; PB = plexus brachialis; LB = lateral branch; MB = medial branch

Extra: CZy = capsula articulatio zygapophysealis; III, IV, V = costae

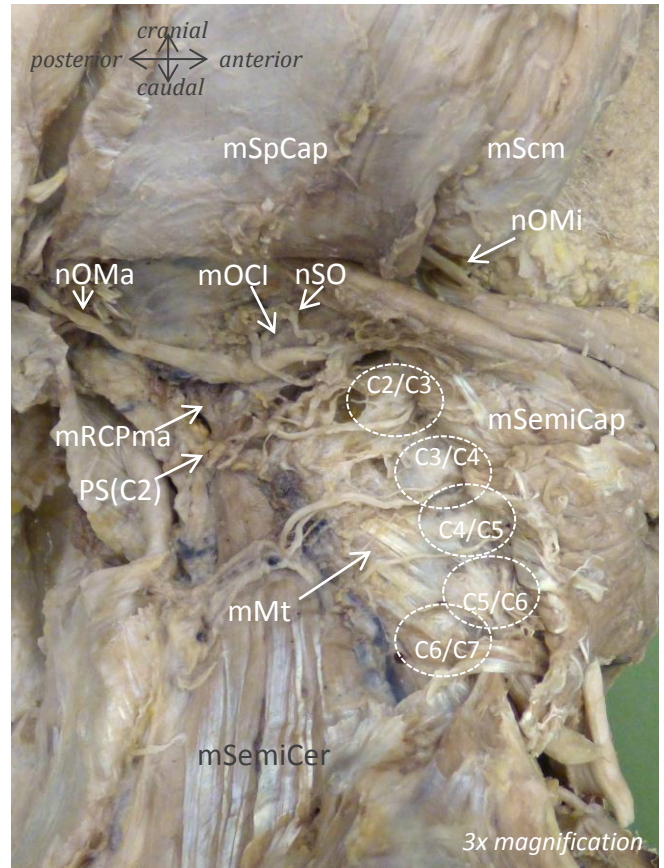
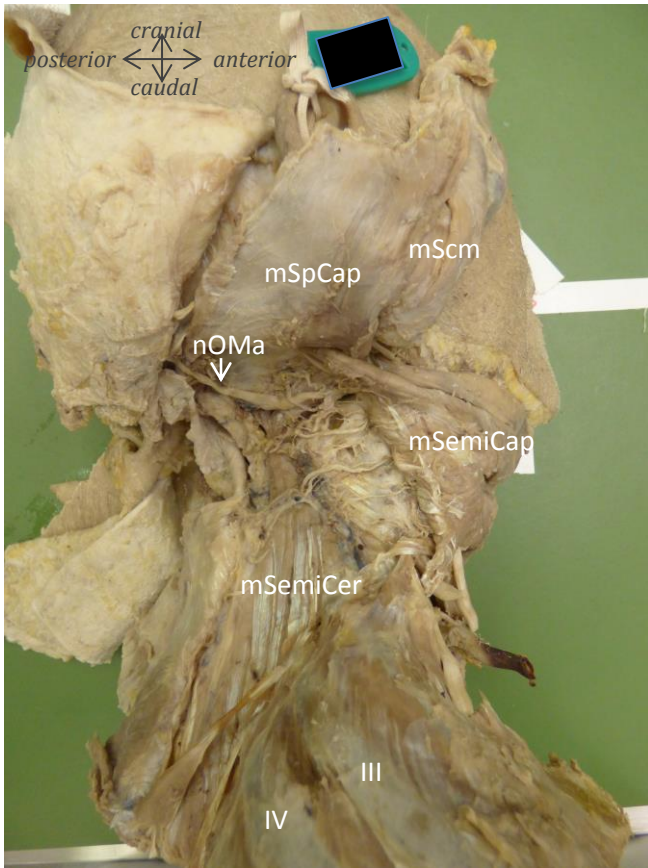
Male, 76 years of age



Muscles
 mScm = m. sternocleidomastoideus (folded)
 mLS = m. levator scapulae (folded)
 mSpCap = m. splenius capitis (folded)
 mOCI = m. obliquus capitis inferior

Nerves
 nOMa = n. occipitalis major
 nSO = n. suboccipitalis
 MB = medial branch

Extra
 PS(C2) = processus spinosus C2
 III, IV = costae



Muscles

- mScm = m. sternocleidomastoideus (folded)
- mSpCap = m. splenius capitis (folded)
- mSemiCap = m. semispinalis capitis (folded)
- mSemiCer = m. semispinalis cervicis
- mOCl = m. obliquus capitis inferior
- mRCPma = m. rectus capitis posterior major
- mMt = m. multifidi

Nerves

- nOMa = n. occipitalis major
- nOMi = n. occipitalis minor
- nSO = n. suboccipitalis

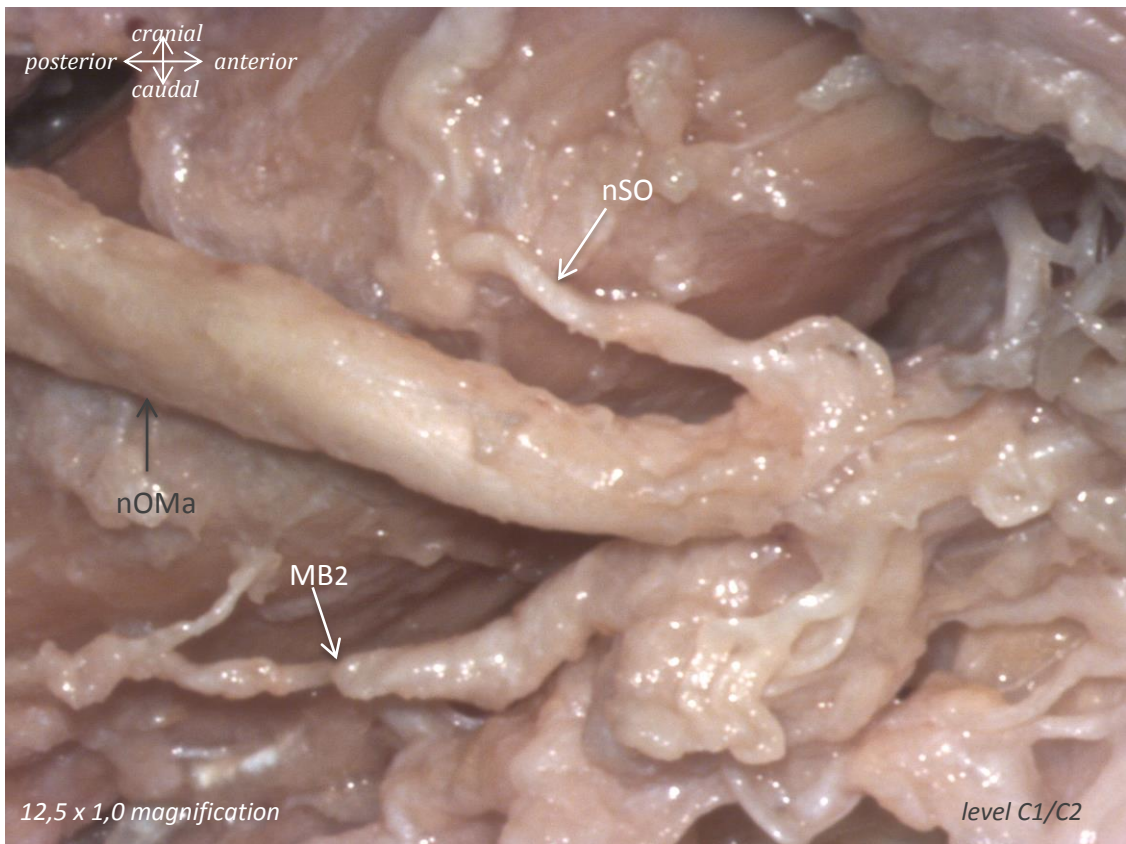
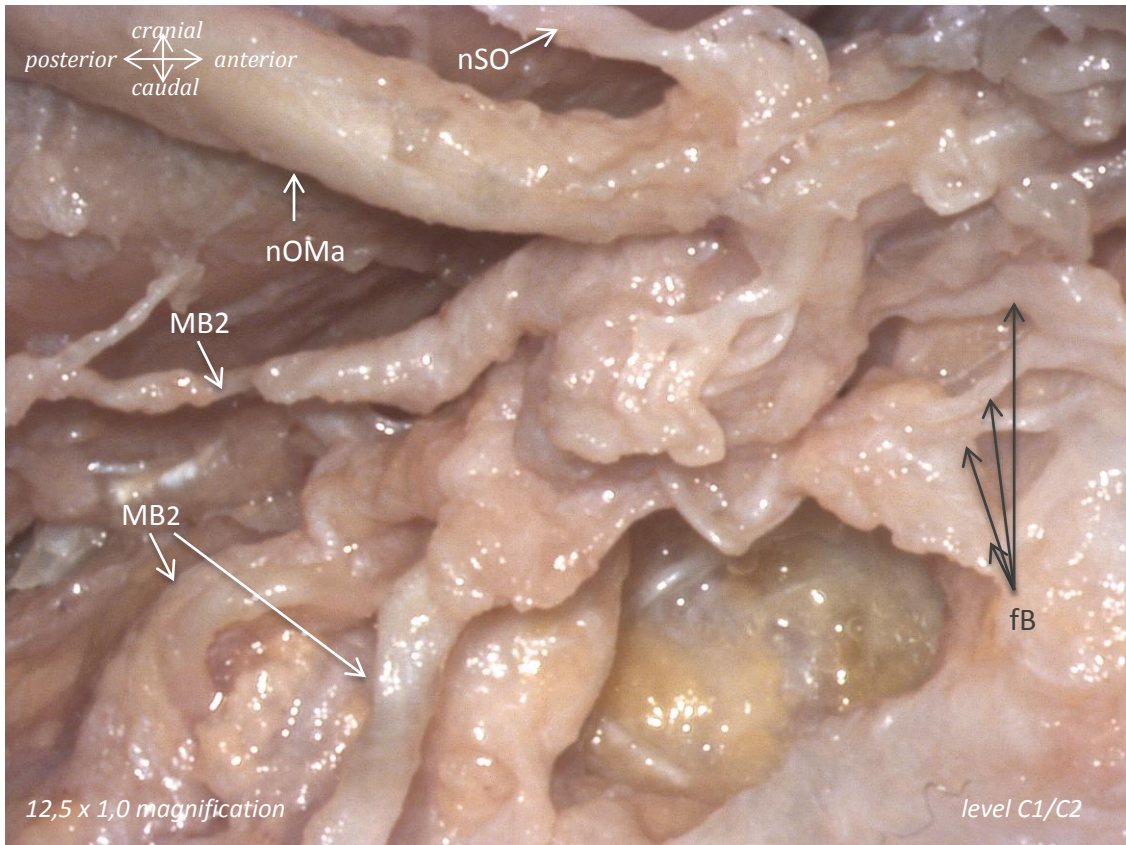
Extra

- PS(C2) = processus spinosus C2
- III, IV = costae

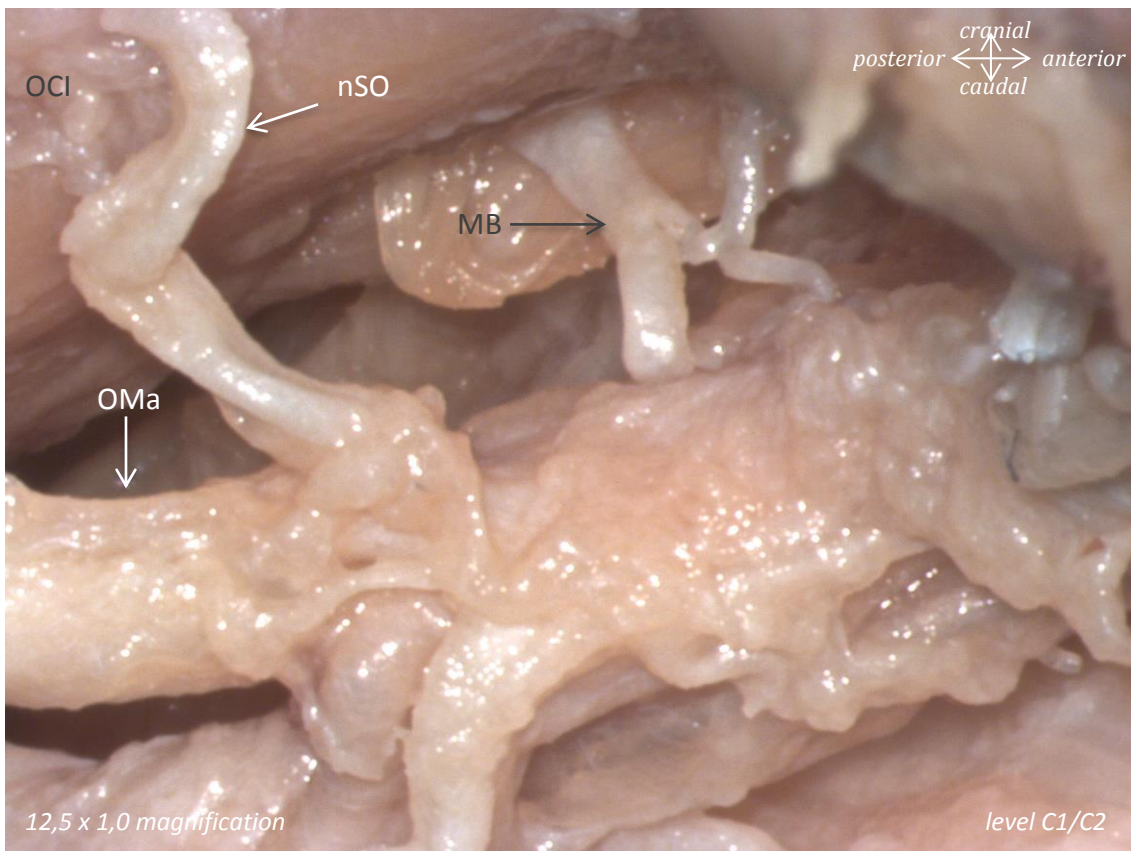
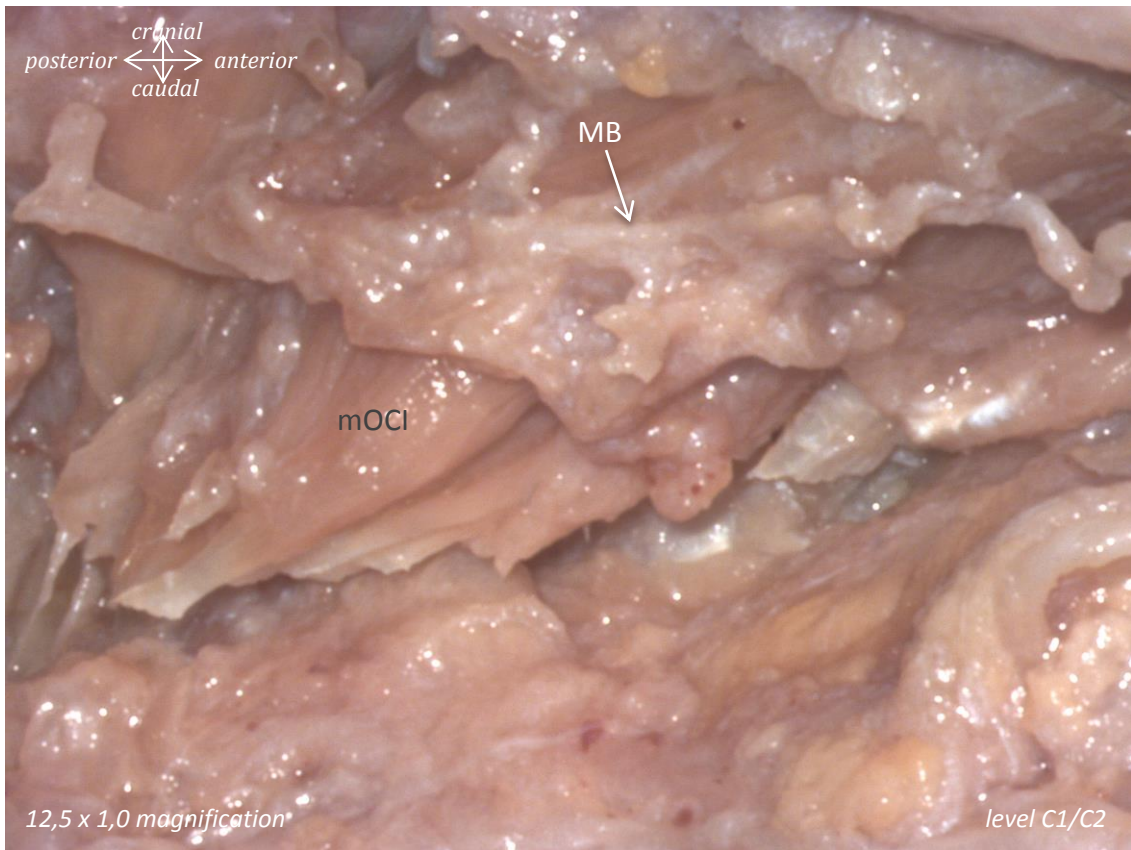


Muscles: mSemiCap = m. semispinalis capitis (folded); mSemiCer = m. semispinalis cervicis
Nerves: nOMa = n. occipitalis major; LB = lateral branch; MB = medial branch

Male, 76 years of age

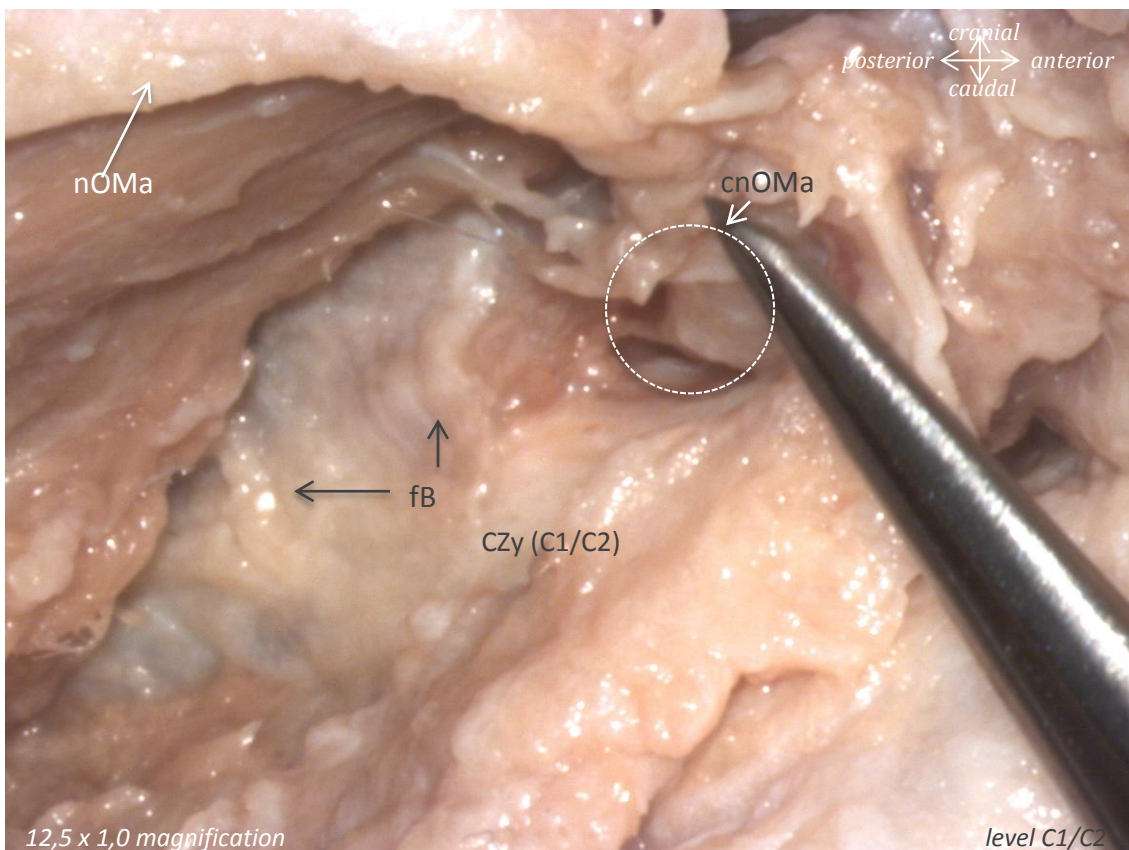
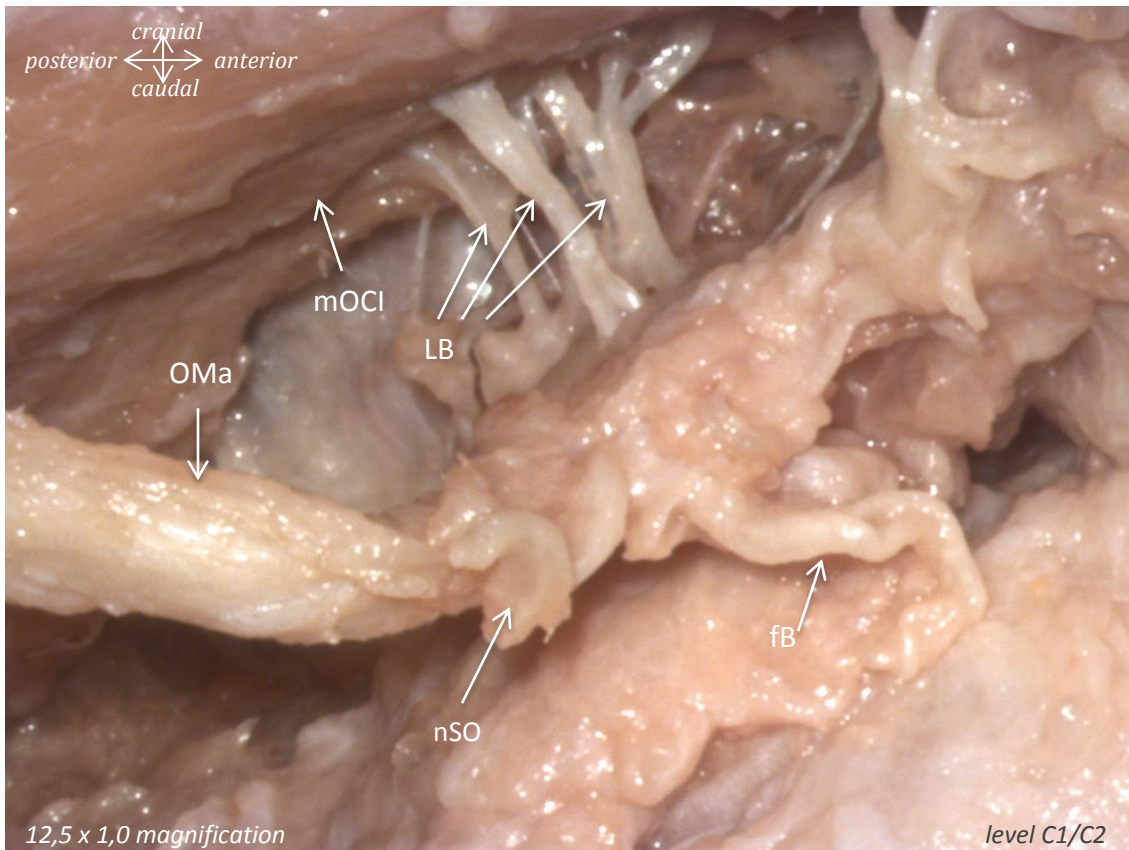


Nerves: nOMa = n. occipitalis major; LB = lateral branch; MB = medial branch; fB = facet joint branch;



Muscles: mOCl = m. obliquus capitis inferior

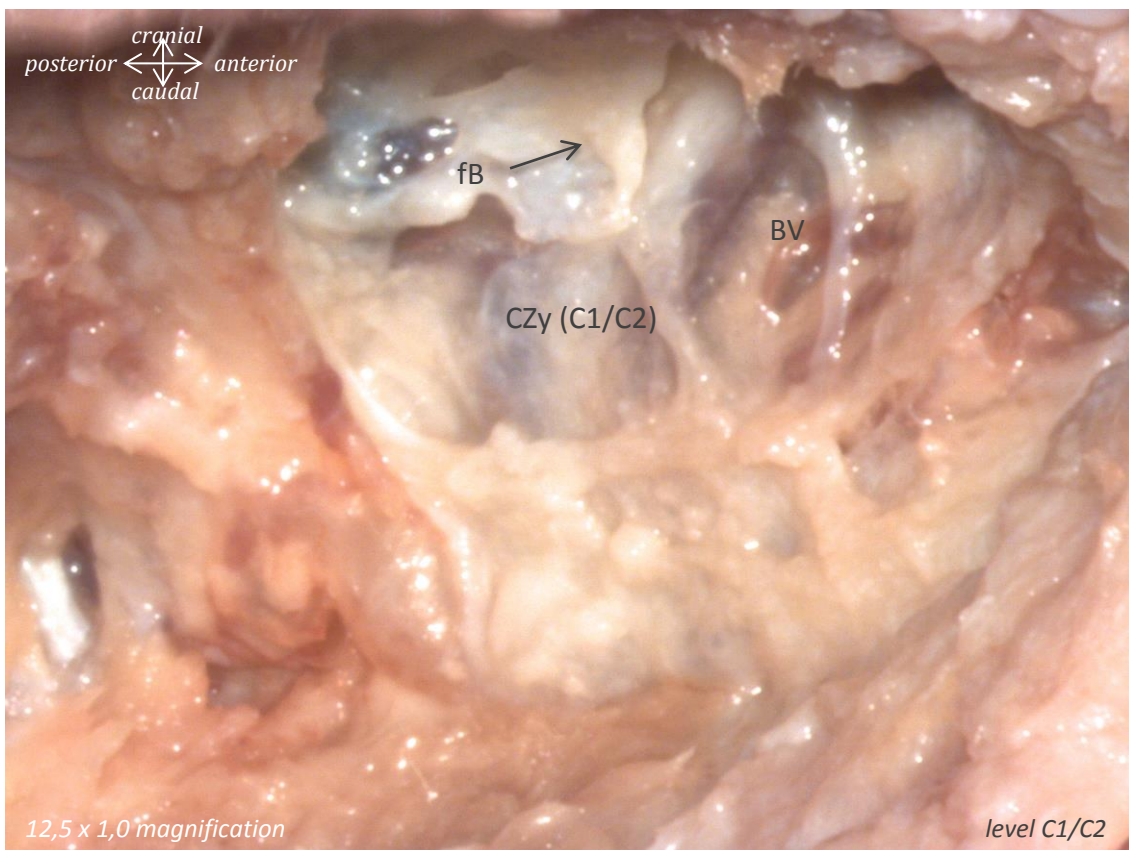
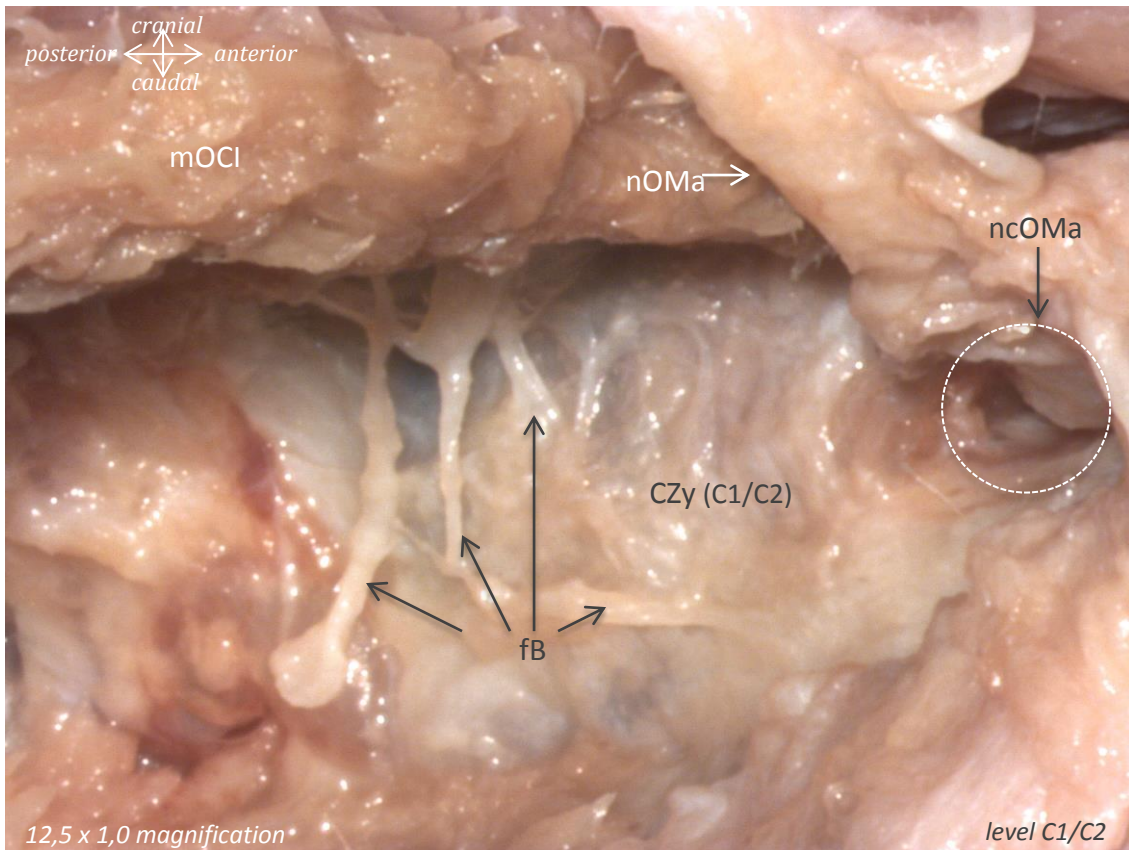
Nerves: OMa = n. occipitalis major; MB = medial branch; nSO = n. suboccipitalis



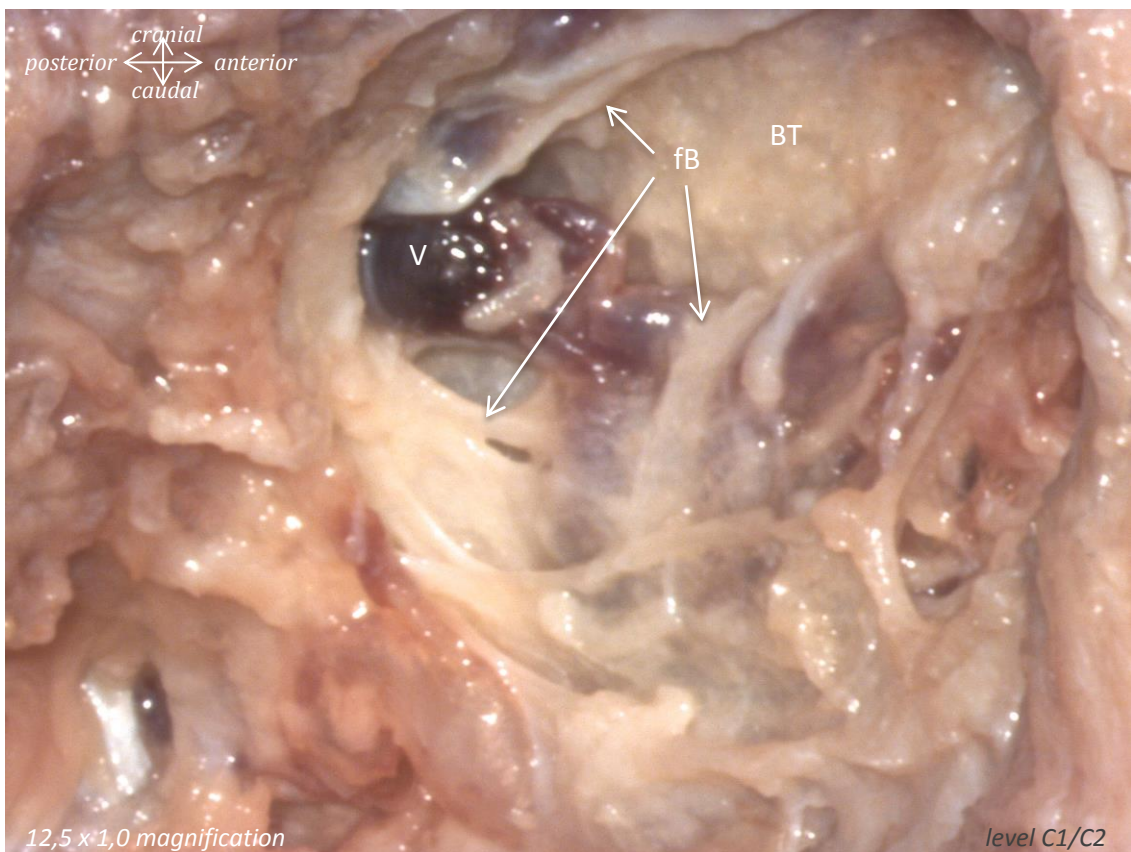
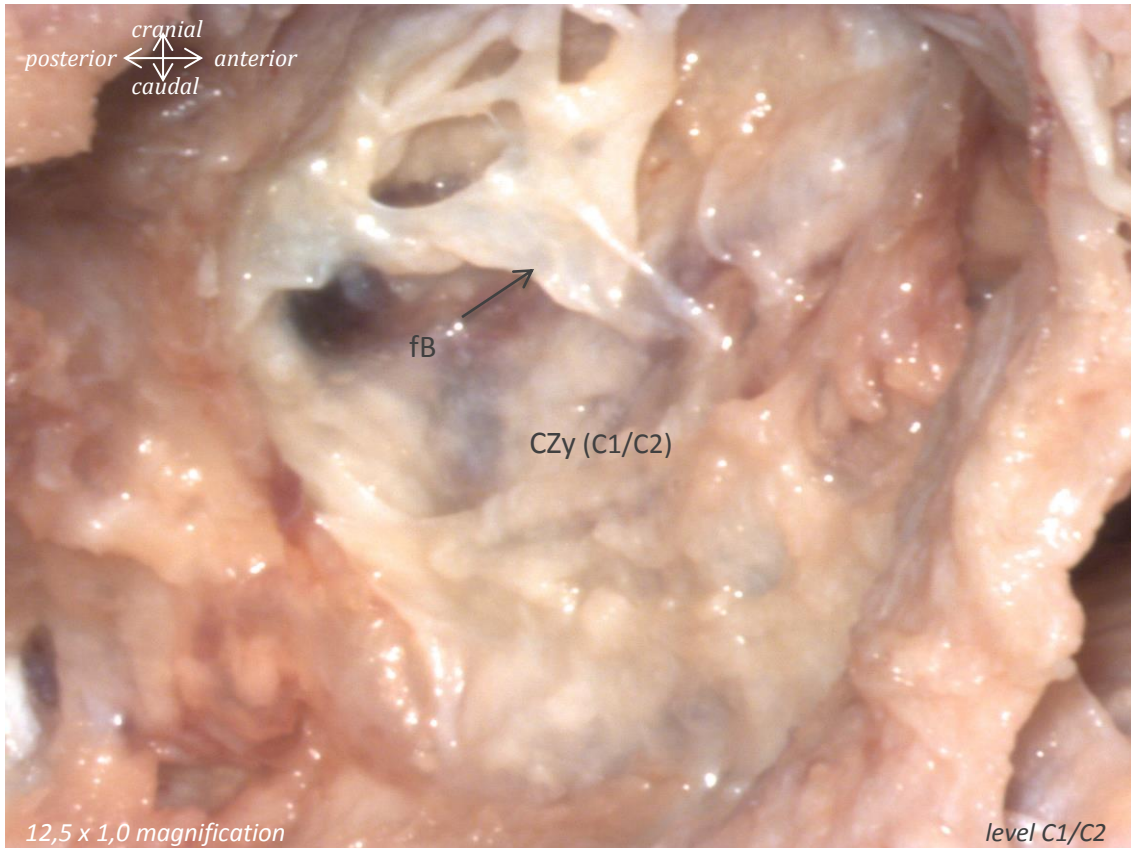
Muscles: mOCl = m. obliquus capitis inferior

Nerves: OMa = n. occipitalis minor; LB= lateral branch; MB = medial branch; fB = facet joint branch; nSO = n. suboccipitalis

Extra: cnOMa = nOMa courses through the capsula articulationis zygapophysialis of C1 and probably follows the waist of the articular column to its point of origin



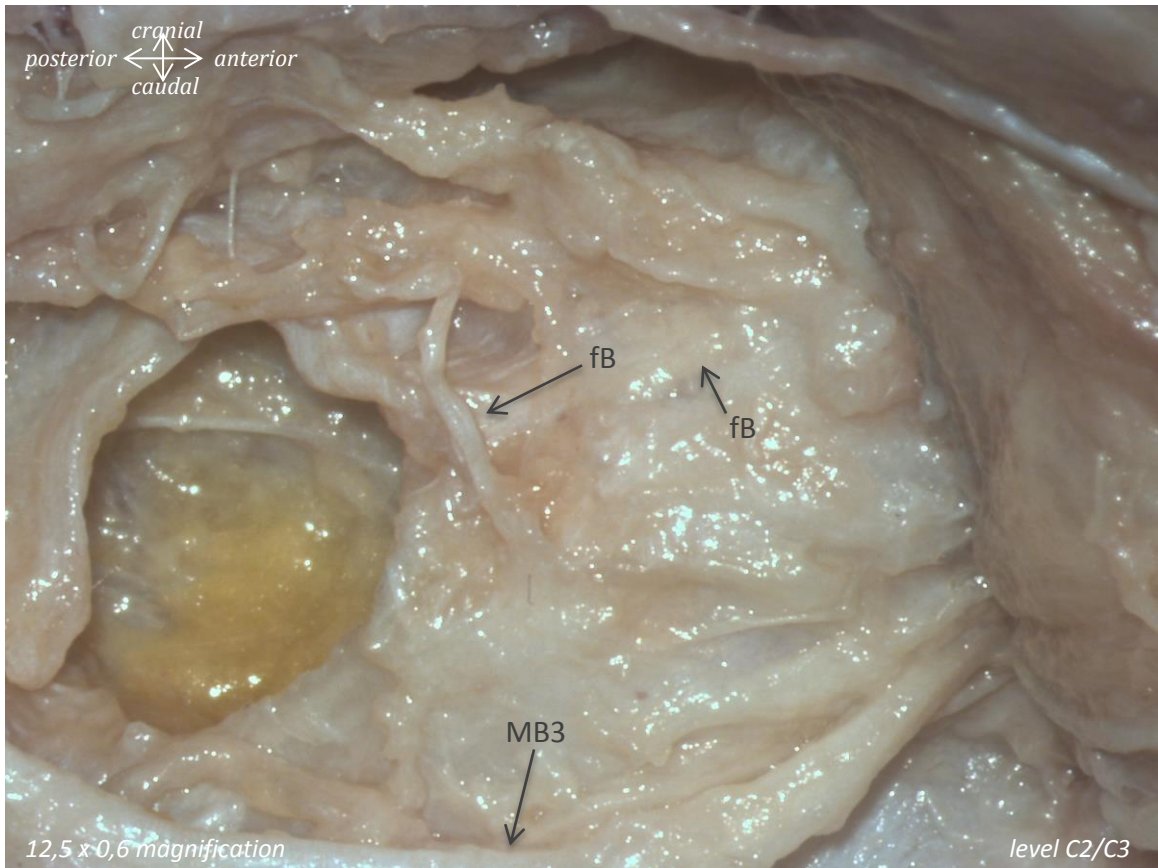
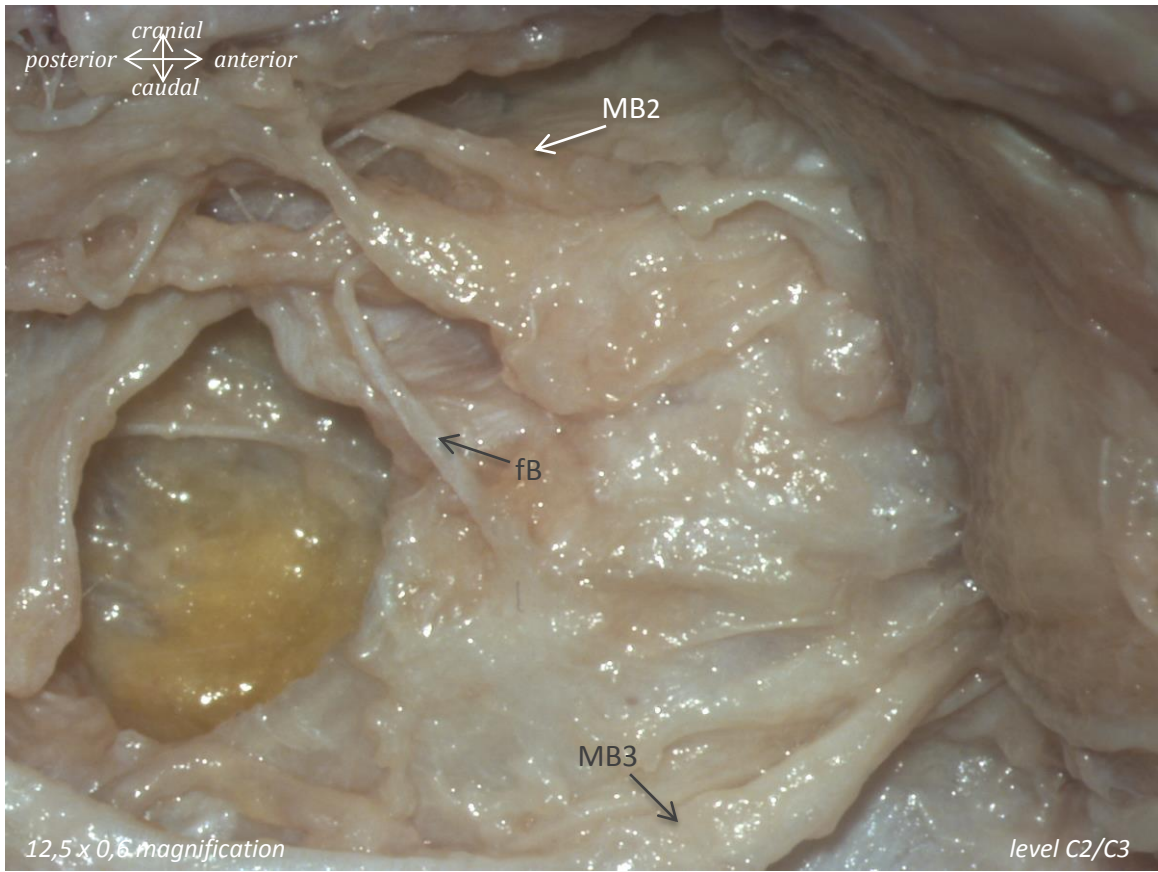
Muscles: mOCl = m. obliquus capitis inferior
Nerves: nOMa = n. occipitalis minor; MB = medial branch; fB = facet joint branch
Vessels: BV = blood vessel
Extra: CZy = capsula articulatio zygapophysealis; cnOMa = nOMa courses through the capsula articulatio zygapophysealis of C1 and probably follows the waist of the articular column to its point



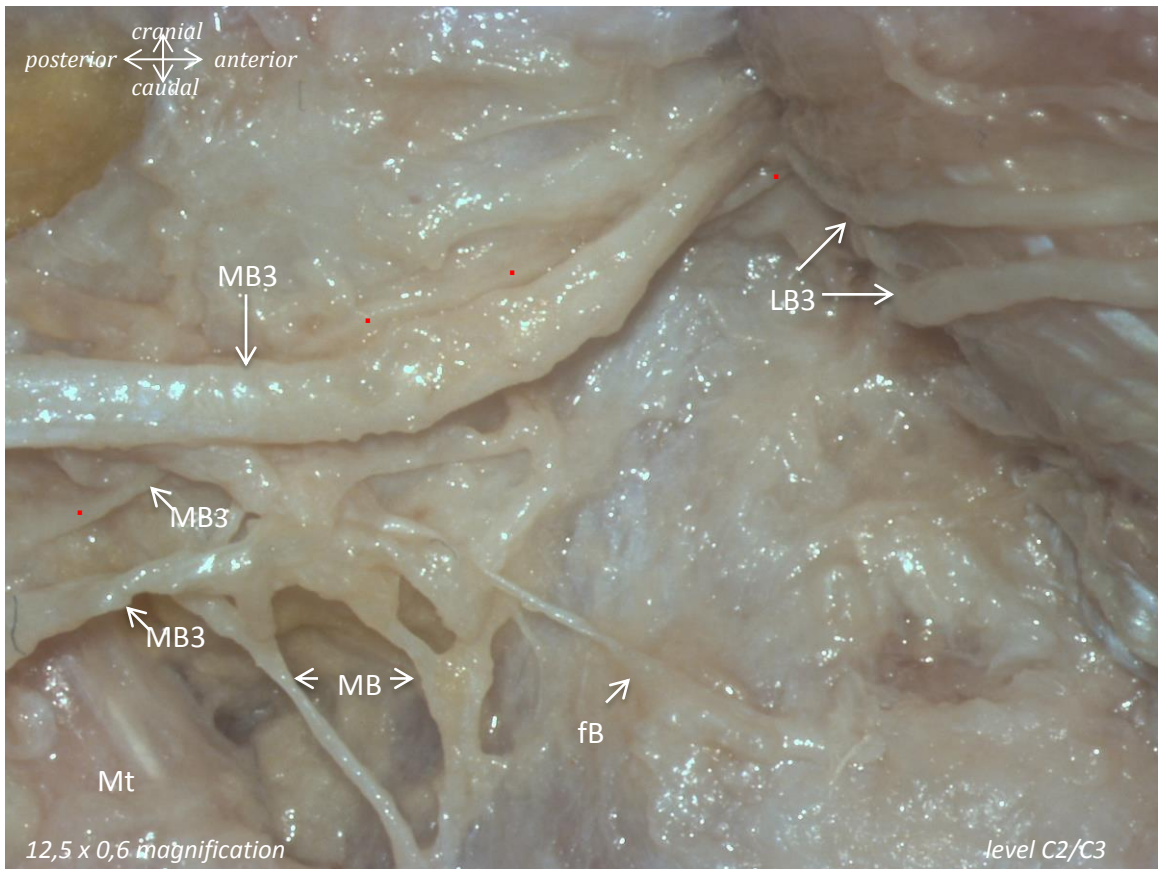
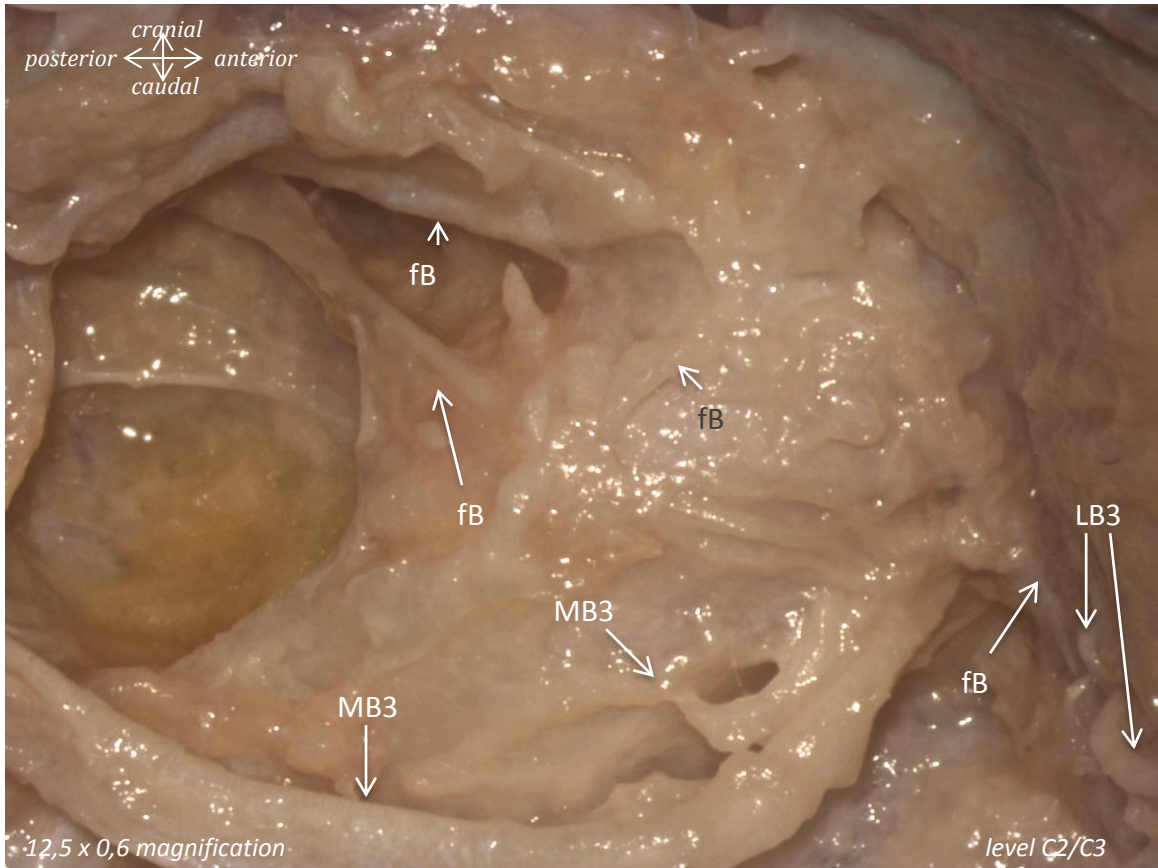
Nerves: fB = facet joint branch

Vessels: V = vene

Extra: CZy = capsula articulatio zygapophysealis; BT = bone tissue



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

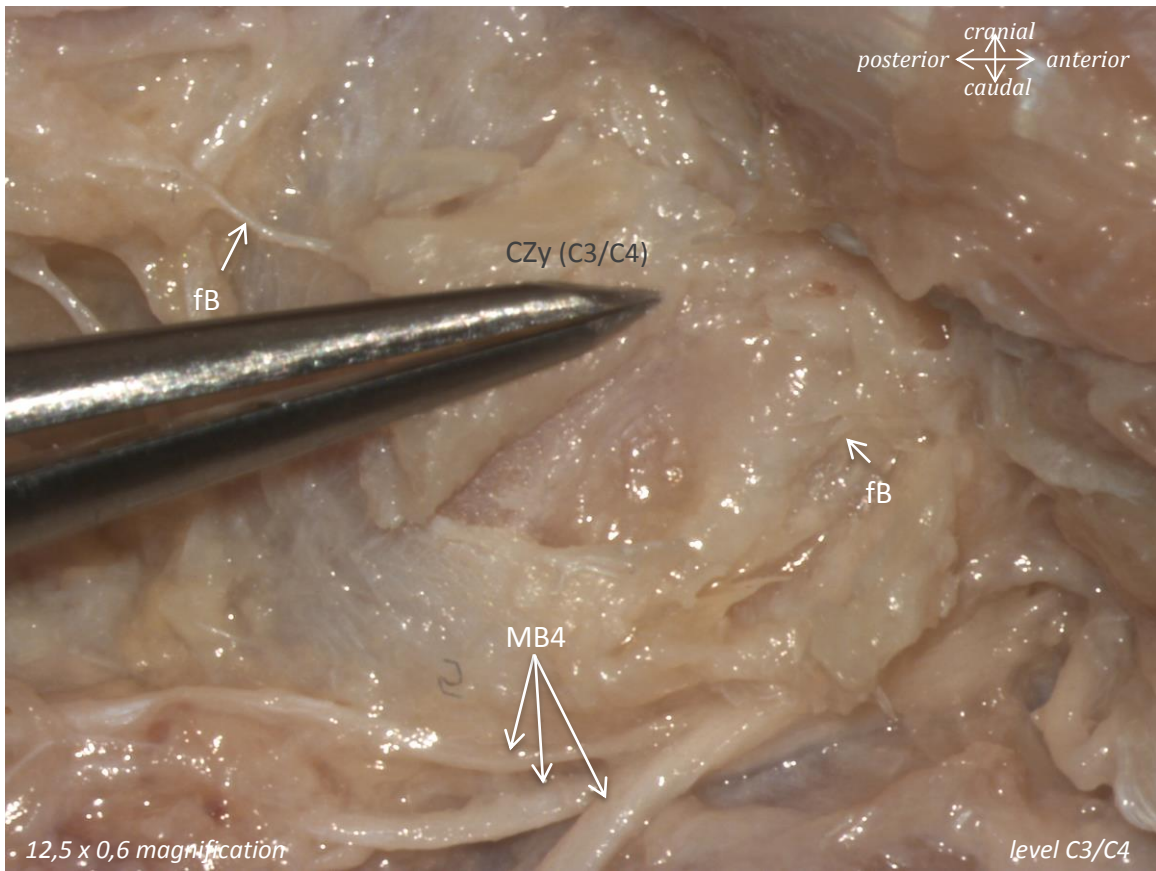
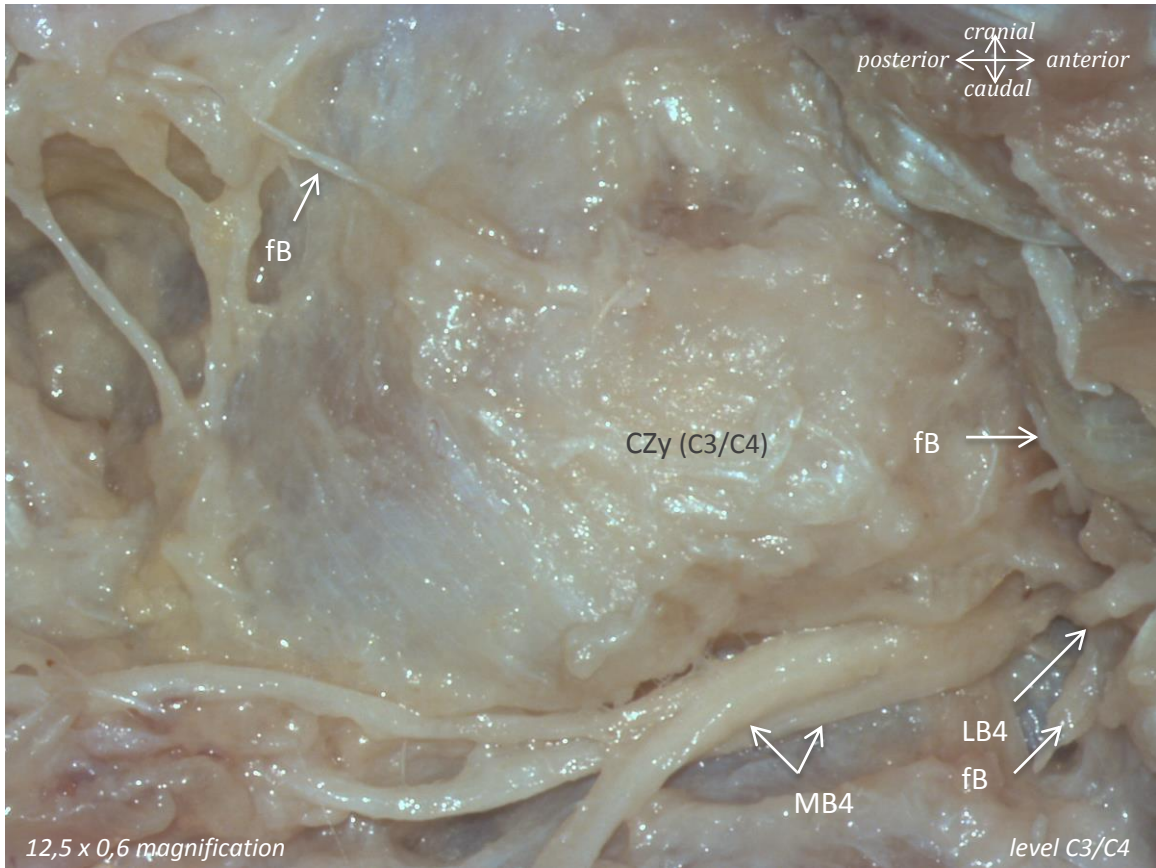


Muscles: Mt = m. multifidi

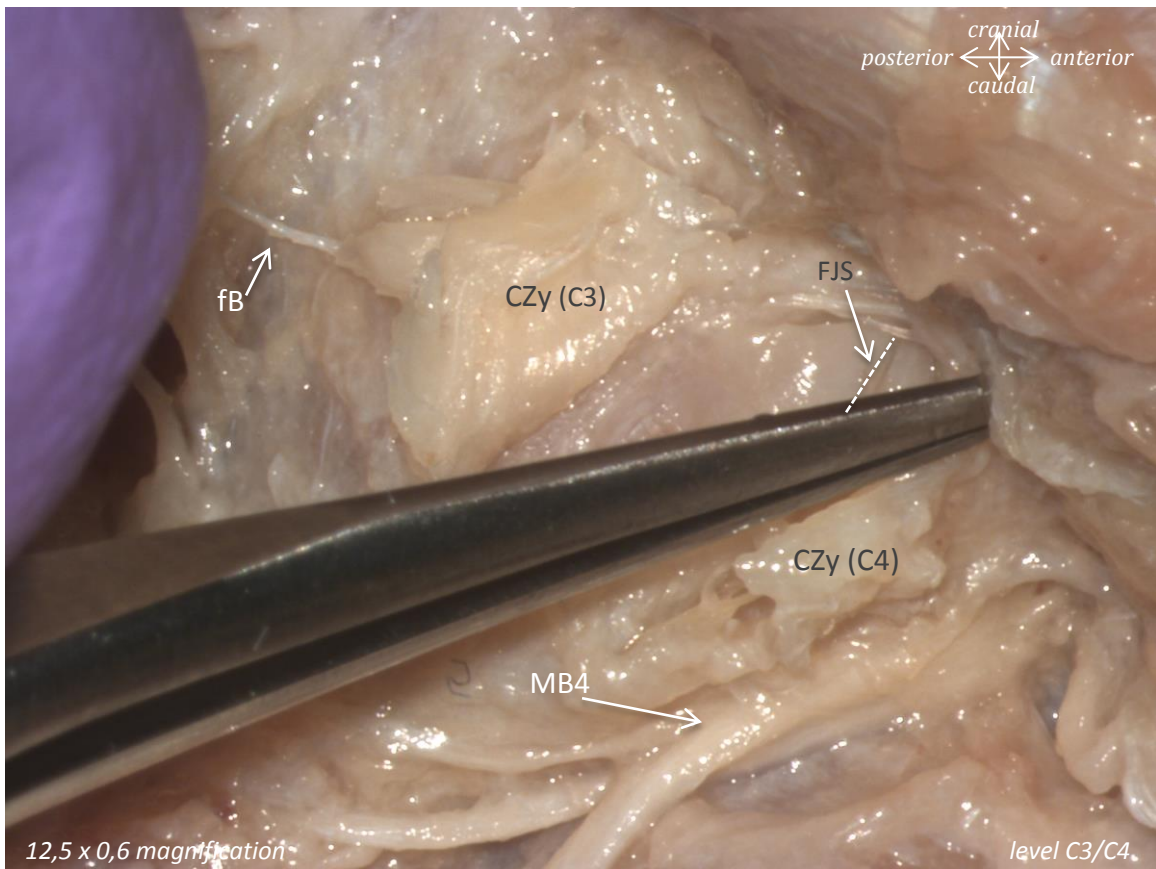
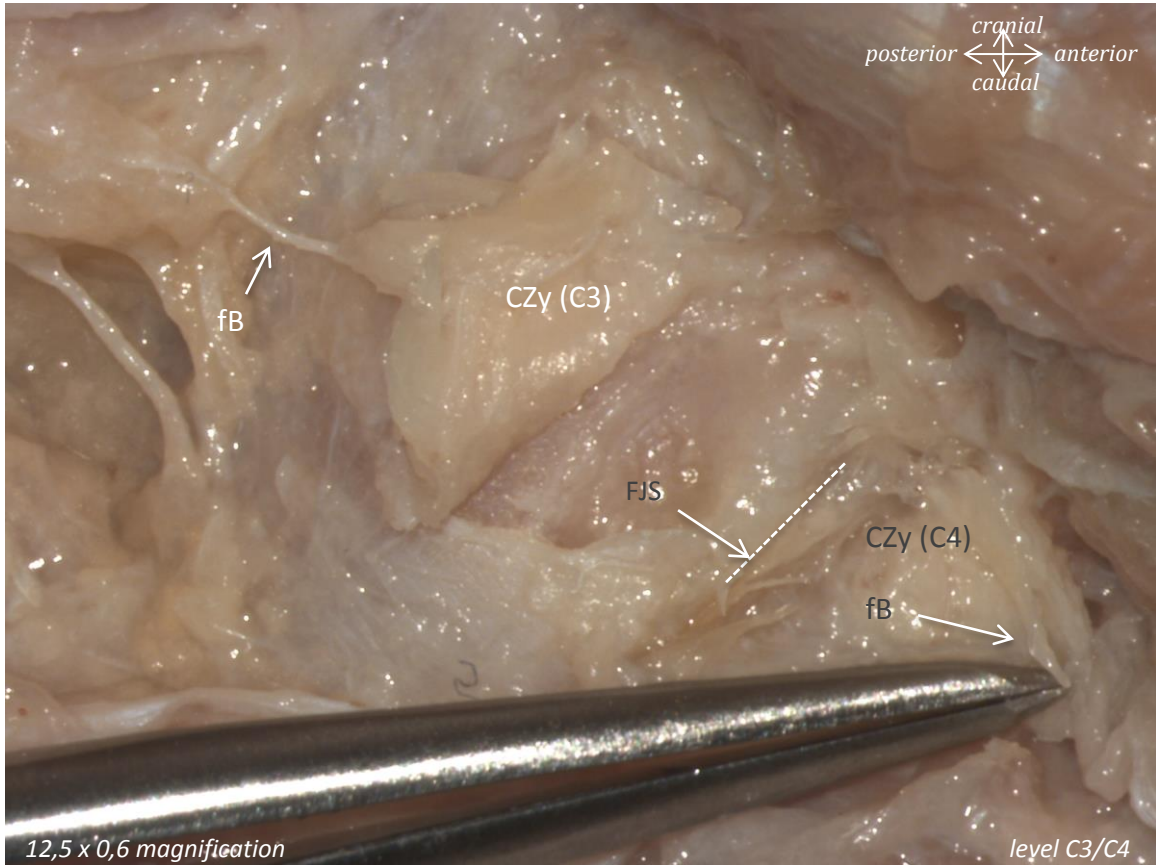
Nerves: LB = lateral branch; MB = medial branch; fB = facet joint branch

▪ = Course of medial branch

Male, 76 years of age

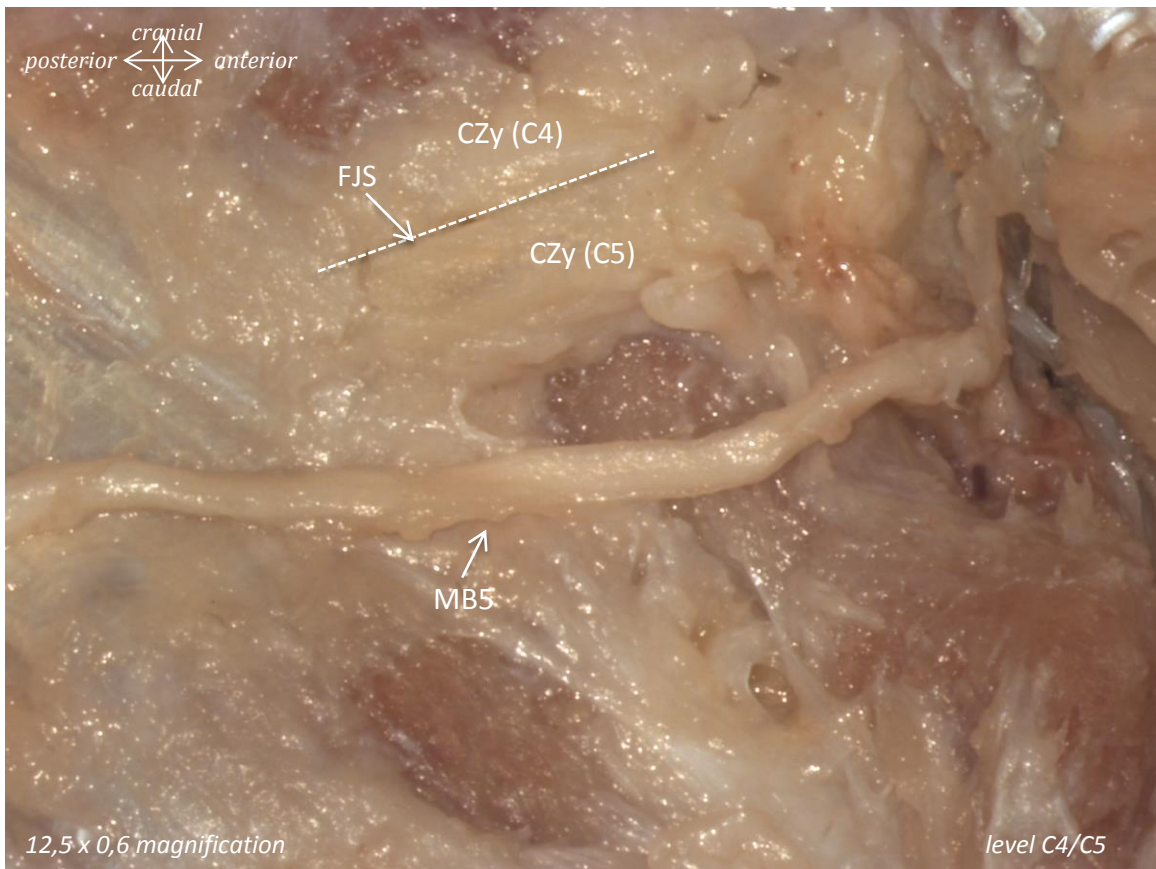
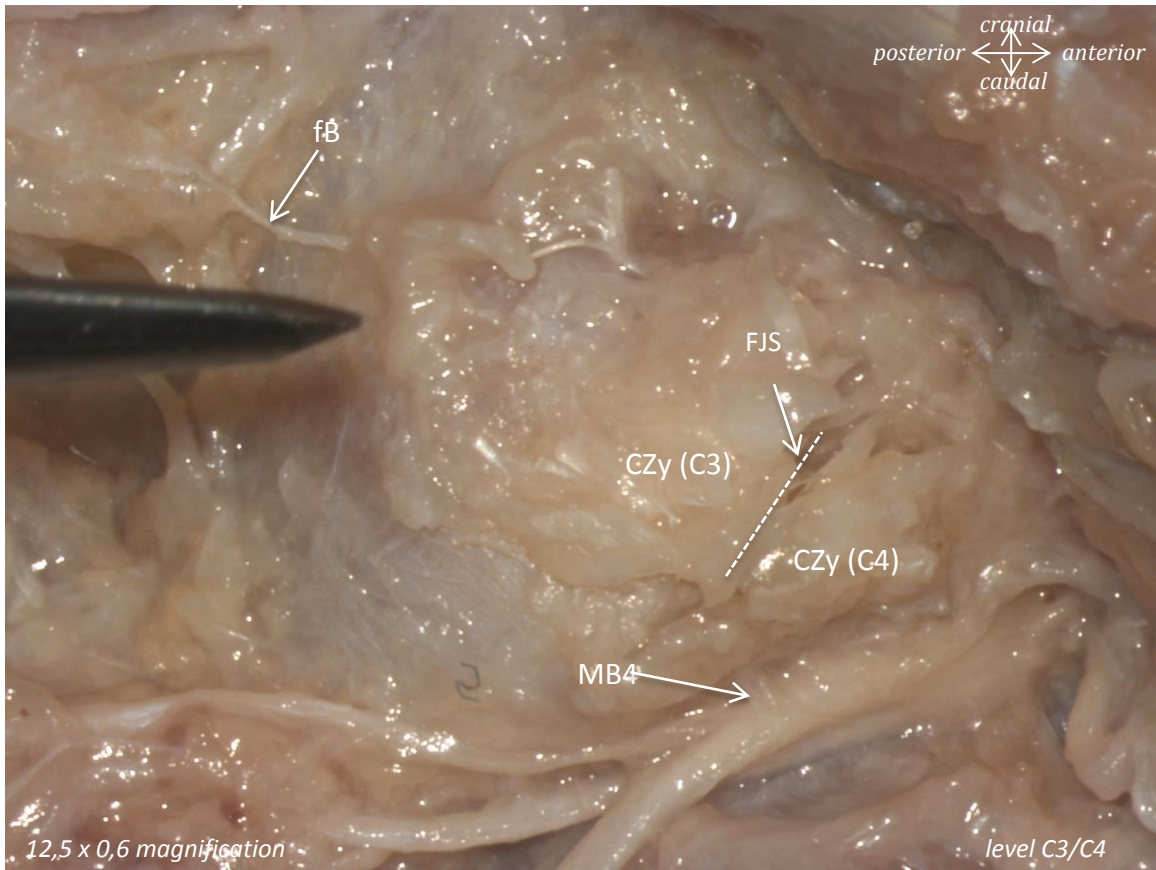


Nerves: LB = lateral branch; MB = medial branch; fB = facet joint branch
Extra: CZy = capsula articulatio zygapophysealis

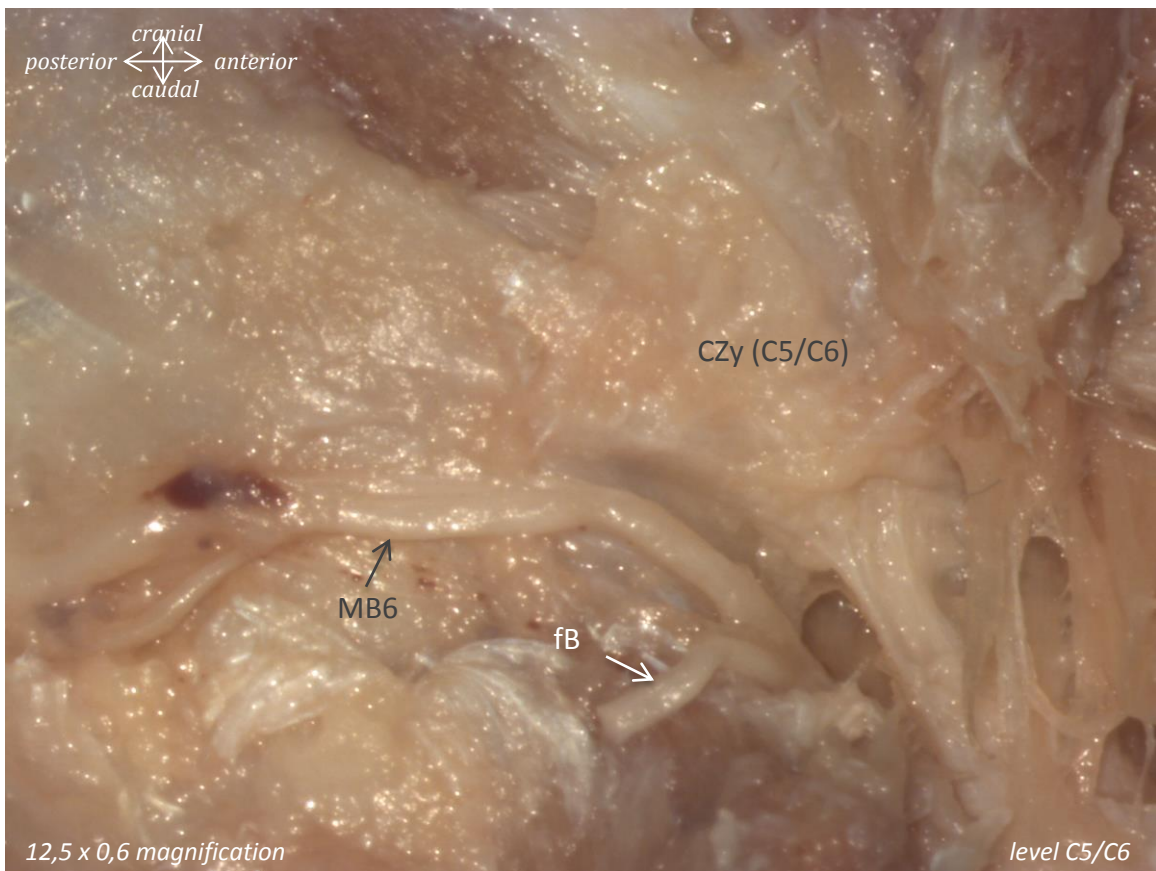
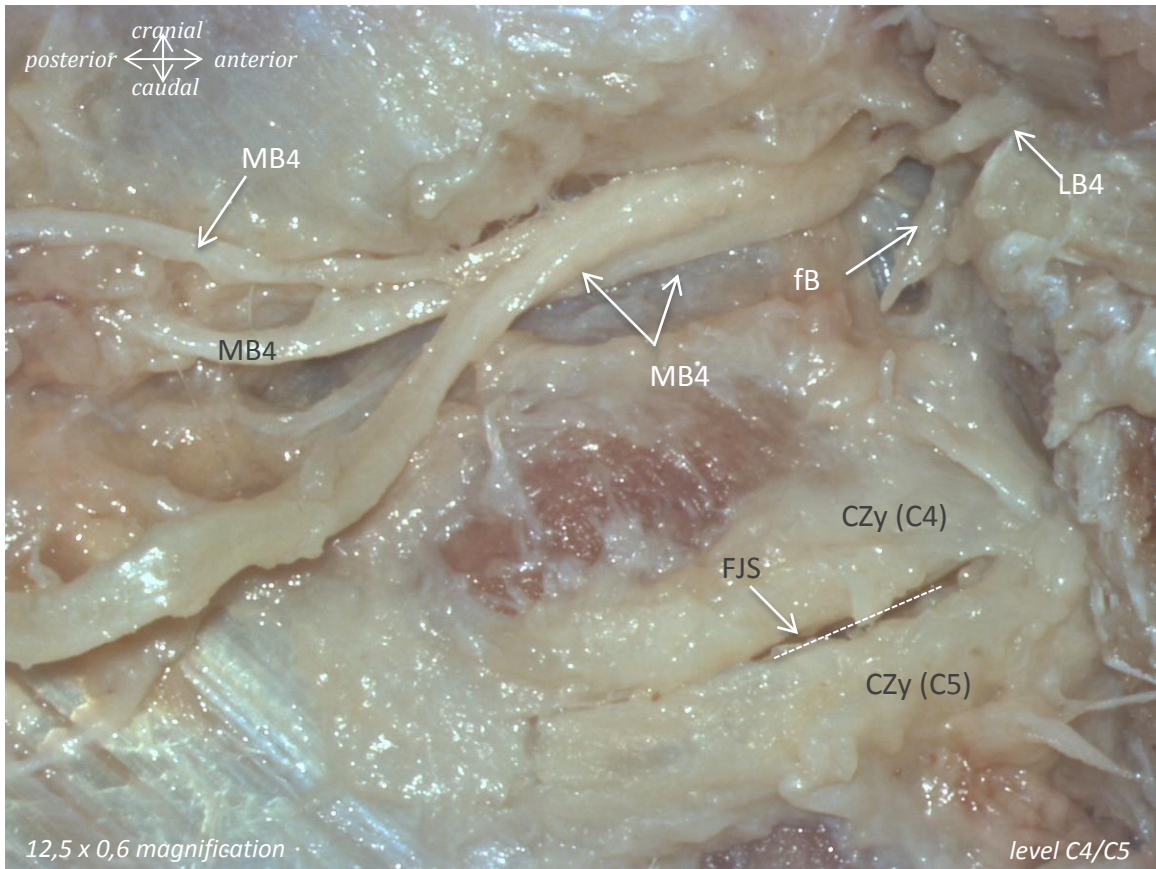


Nerves: MB = medial branch; fB = facet joint branch
Extra: CZy = capsula articulation zygapophysealis; FJS = facet joint space

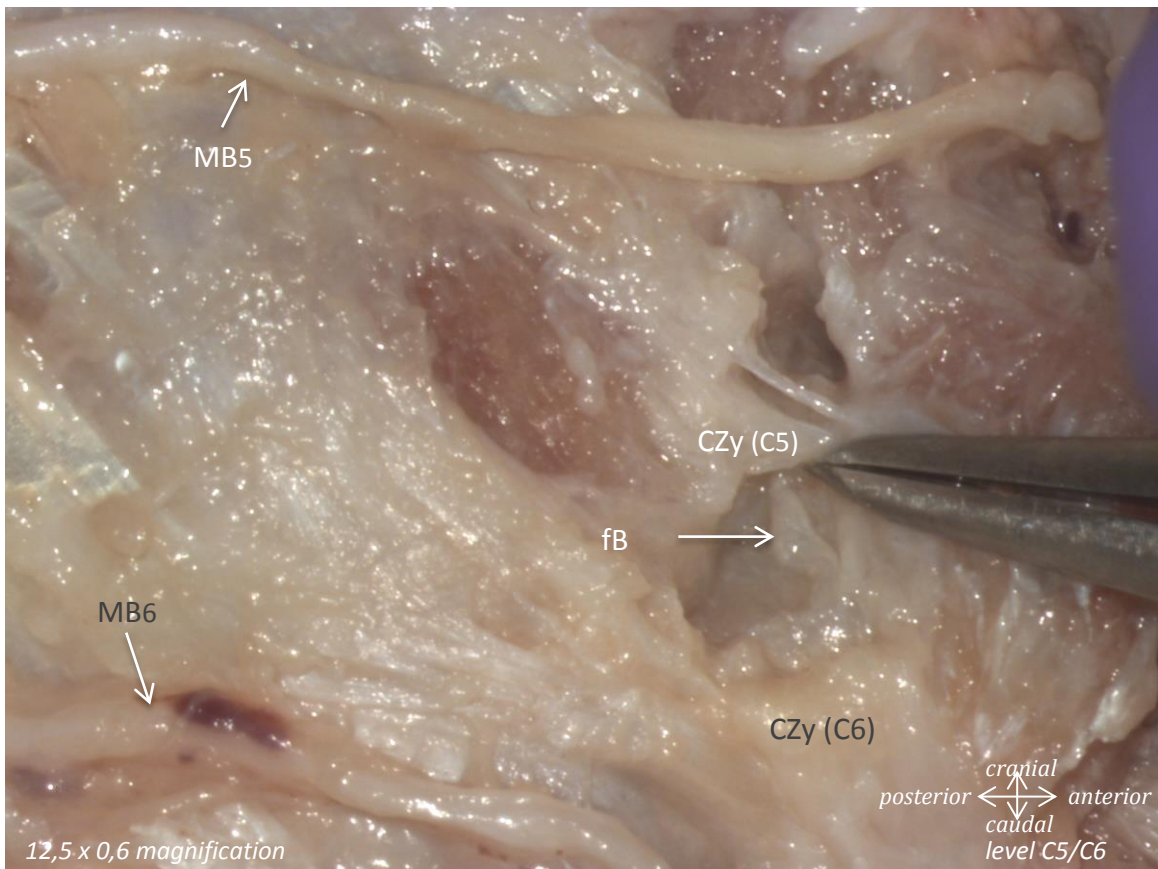
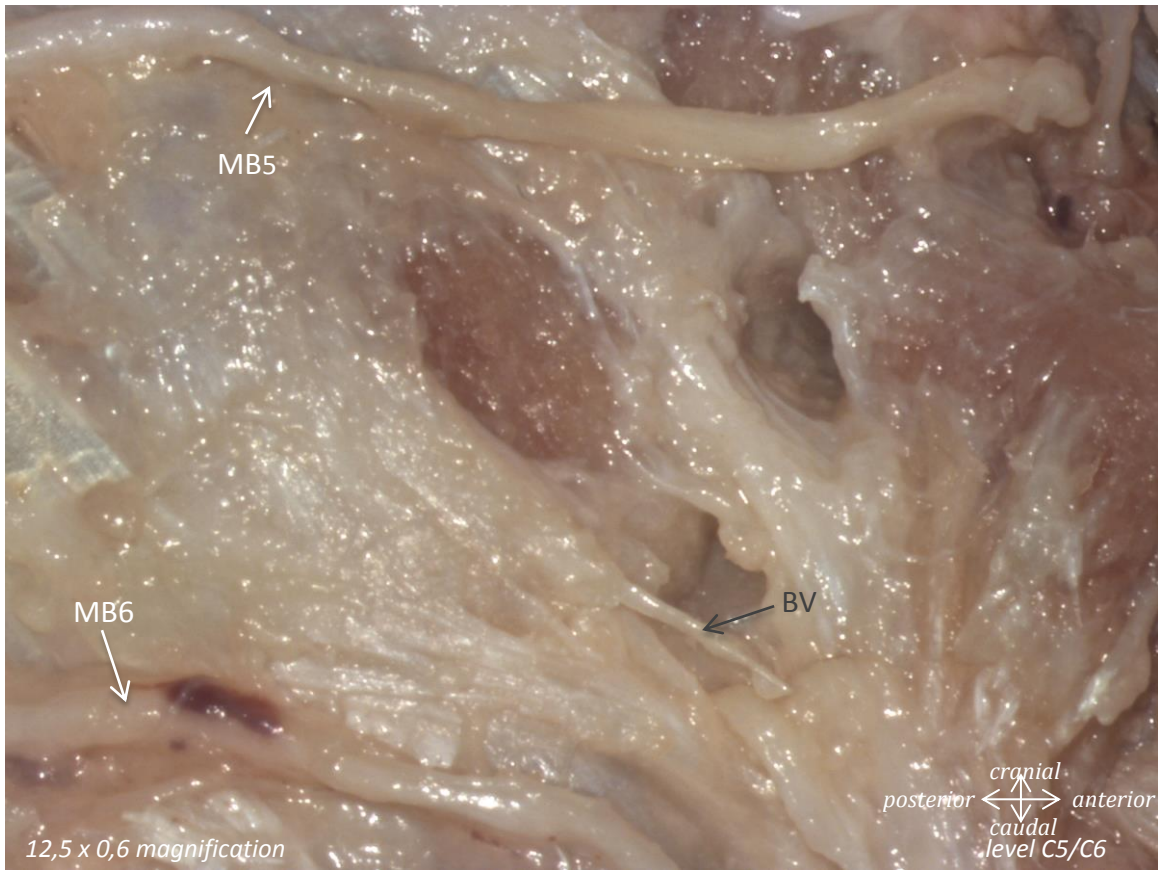
Male, 76 years of age



Nerves: MB = medial branch; fB = facet joint branch
Extra: CZy = capsula articularis zygapophysialis; FJS = facet joint space

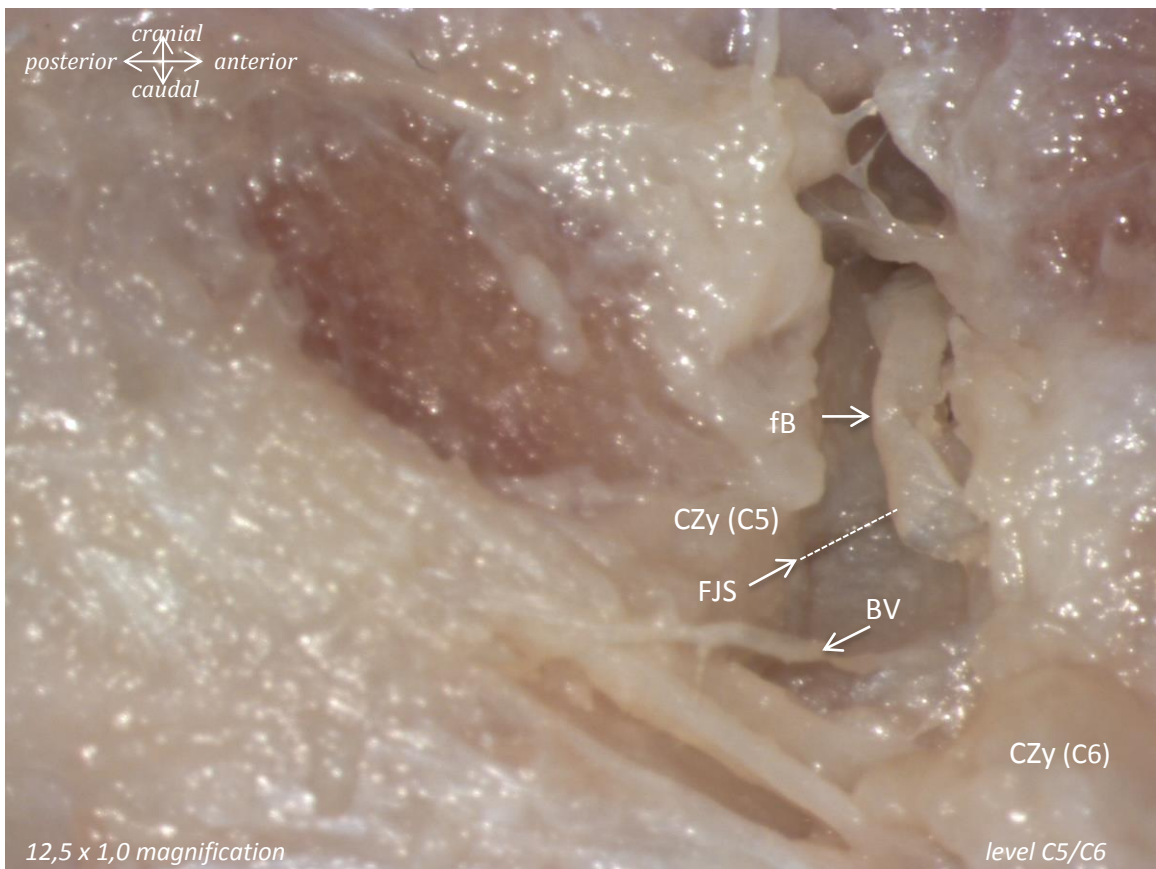
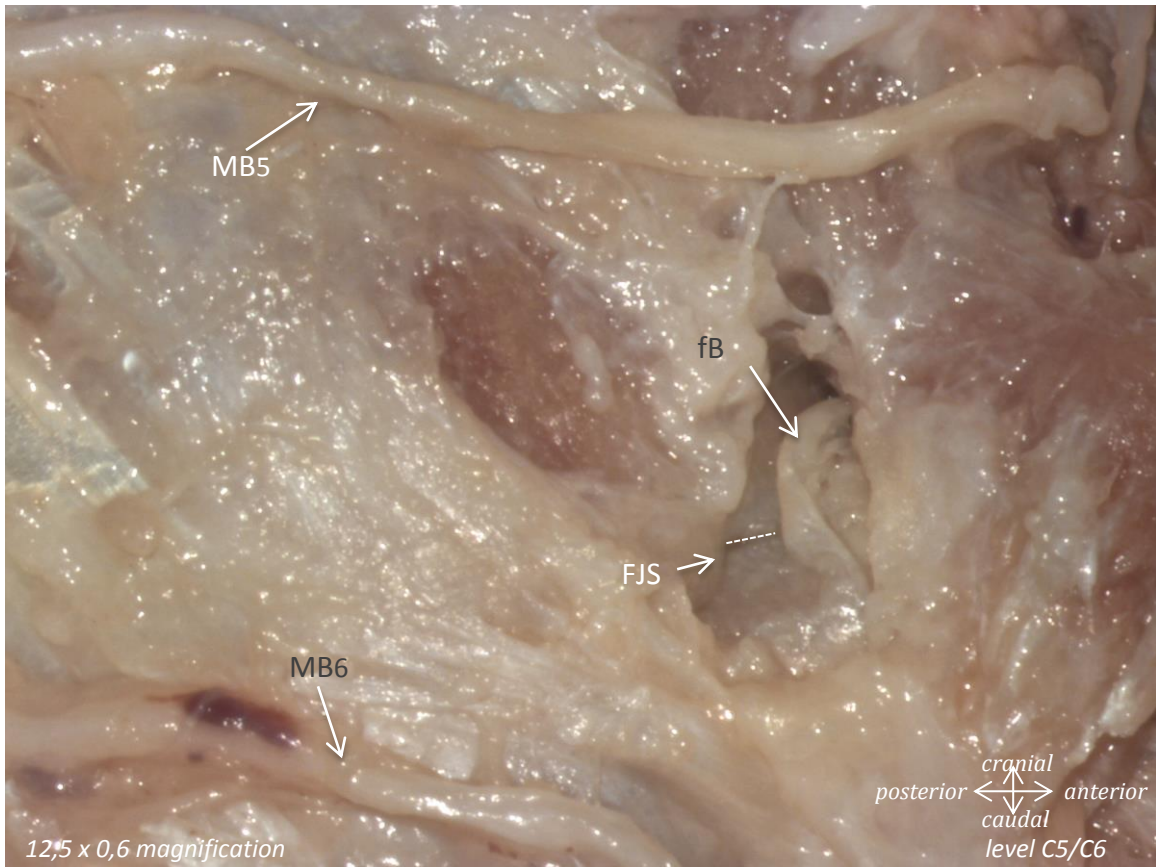


Nerves: LB = lateral branch; MB = medial branch; fB = facet joint branch
Extra: CZy = capsula articulatio zygapophysealis; FJS = facet joint space

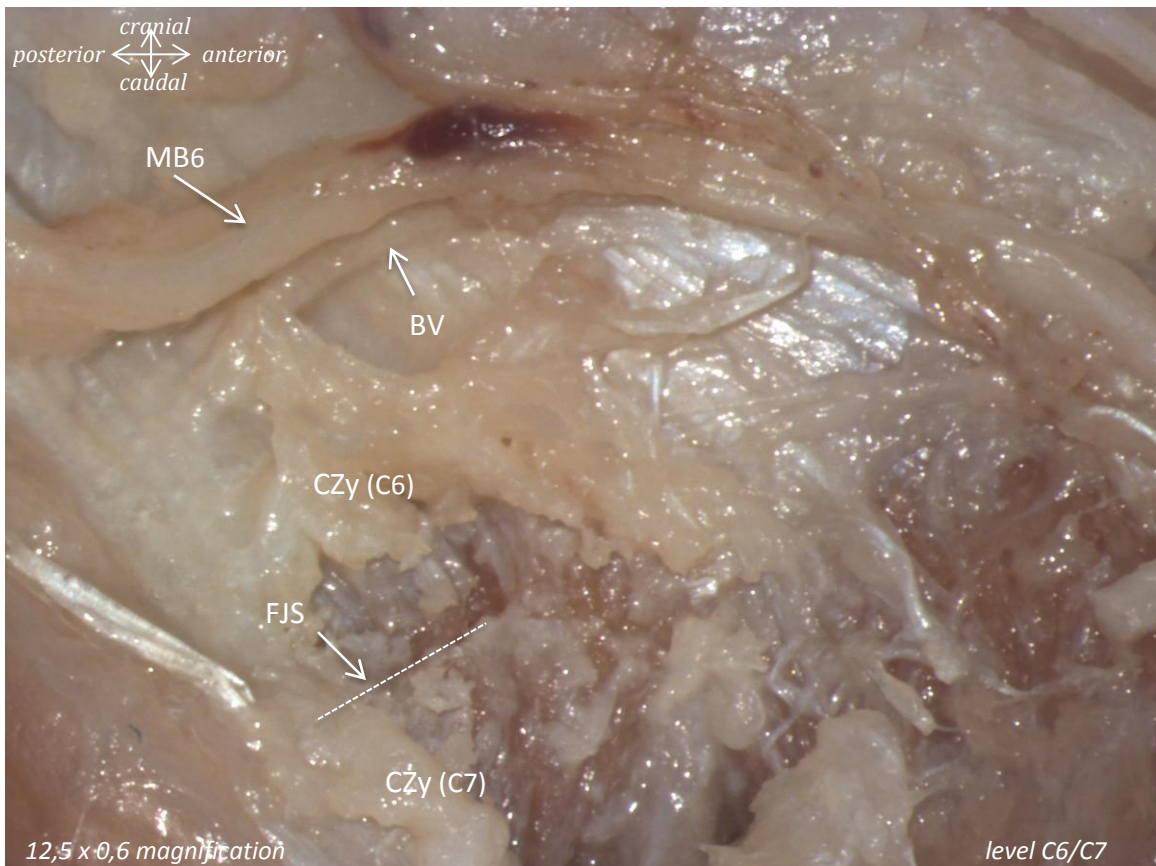
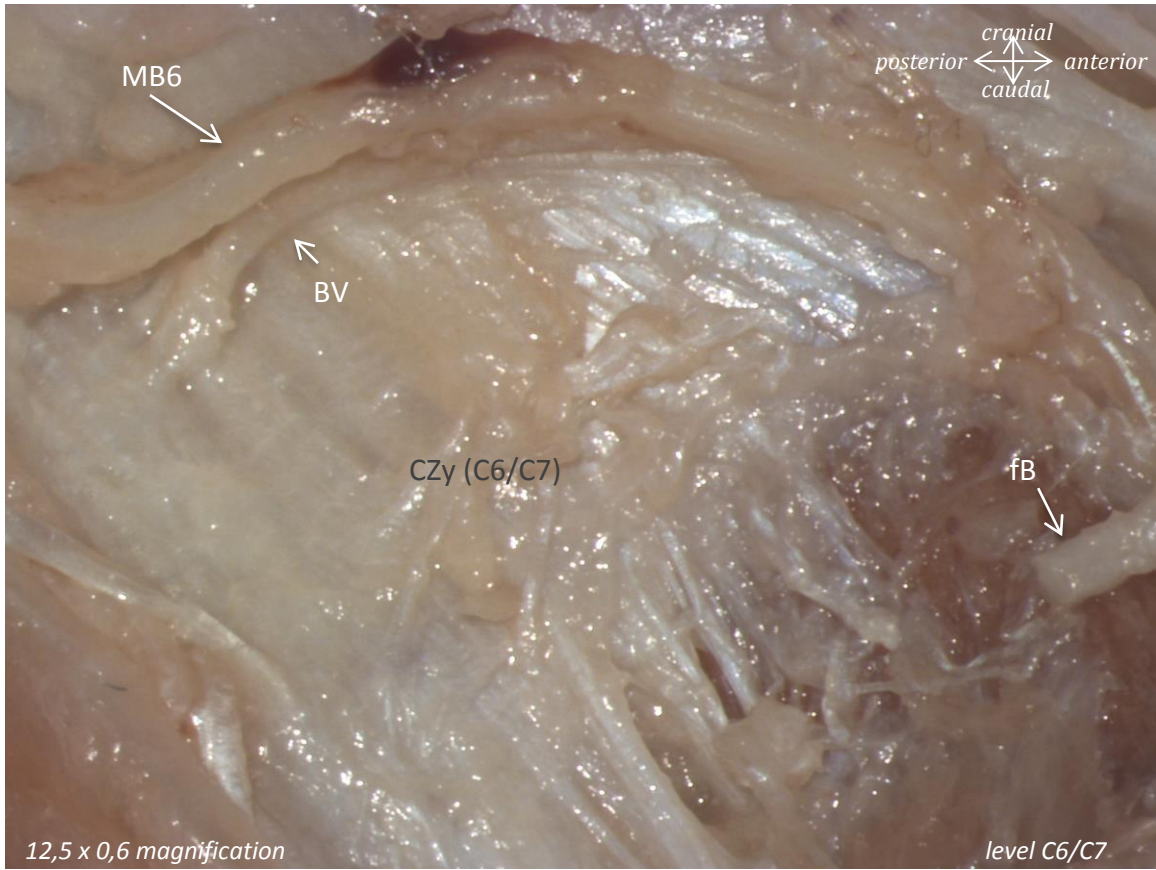


Nerves: MB = medial branch; fB = facet joint branch
Vessels: BV = blood vessel
Extra: CZy = capsula articulario zygapophysealis

Male, 76 years of age



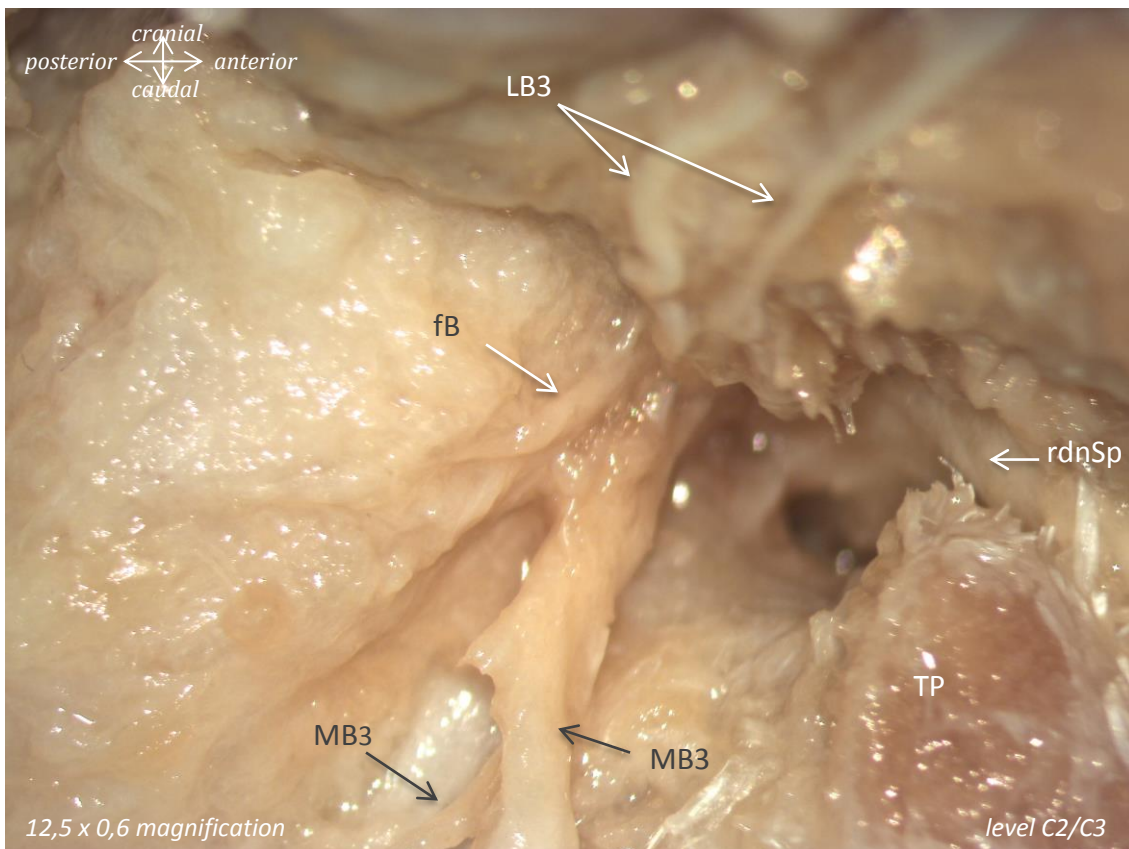
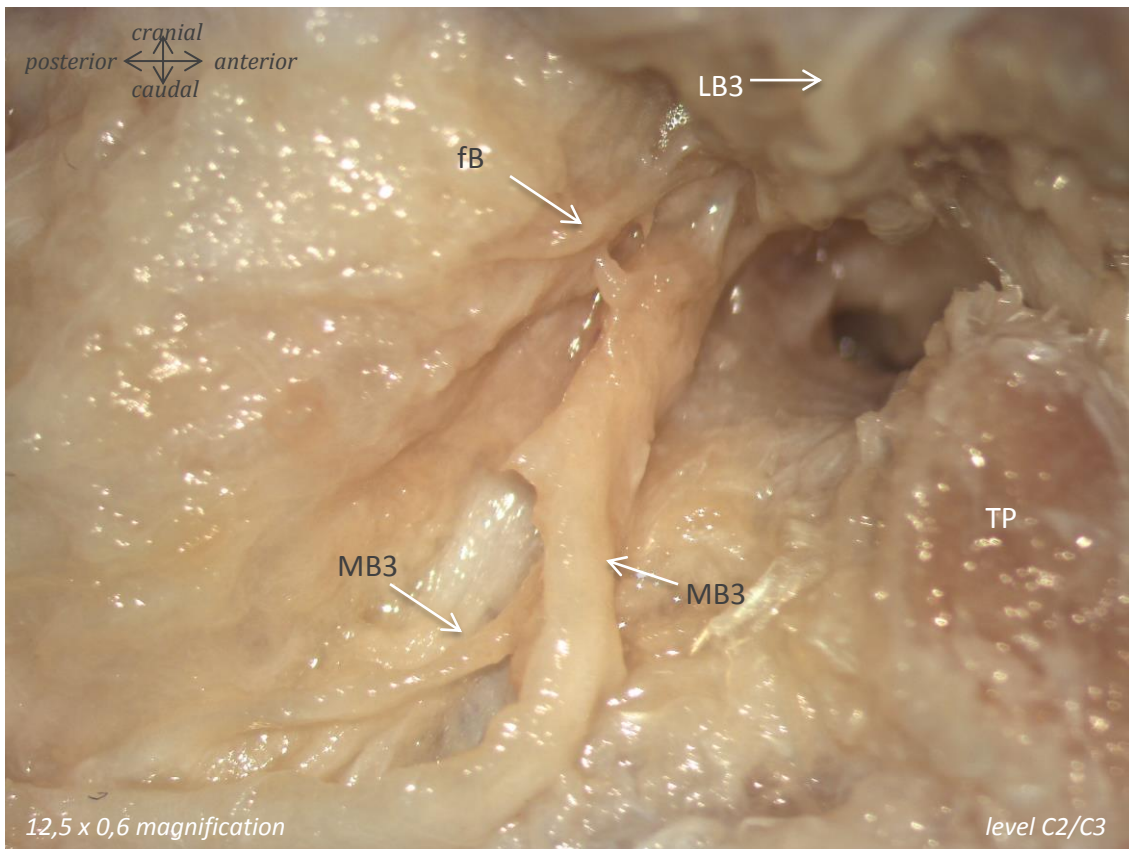
Nerves: MB = medial branch; fB = facet joint branch
Vessels: BV = blood vessel
Extra: CZy = capsula articulation zygapophysealis; FJS = facet joint space



Nerves: MB = medial branch; fB = facet joint branch
Vessels: BV = blood vessel
Extra: CZy = capsula articularis zygapophysialis; FJS = facet joint space

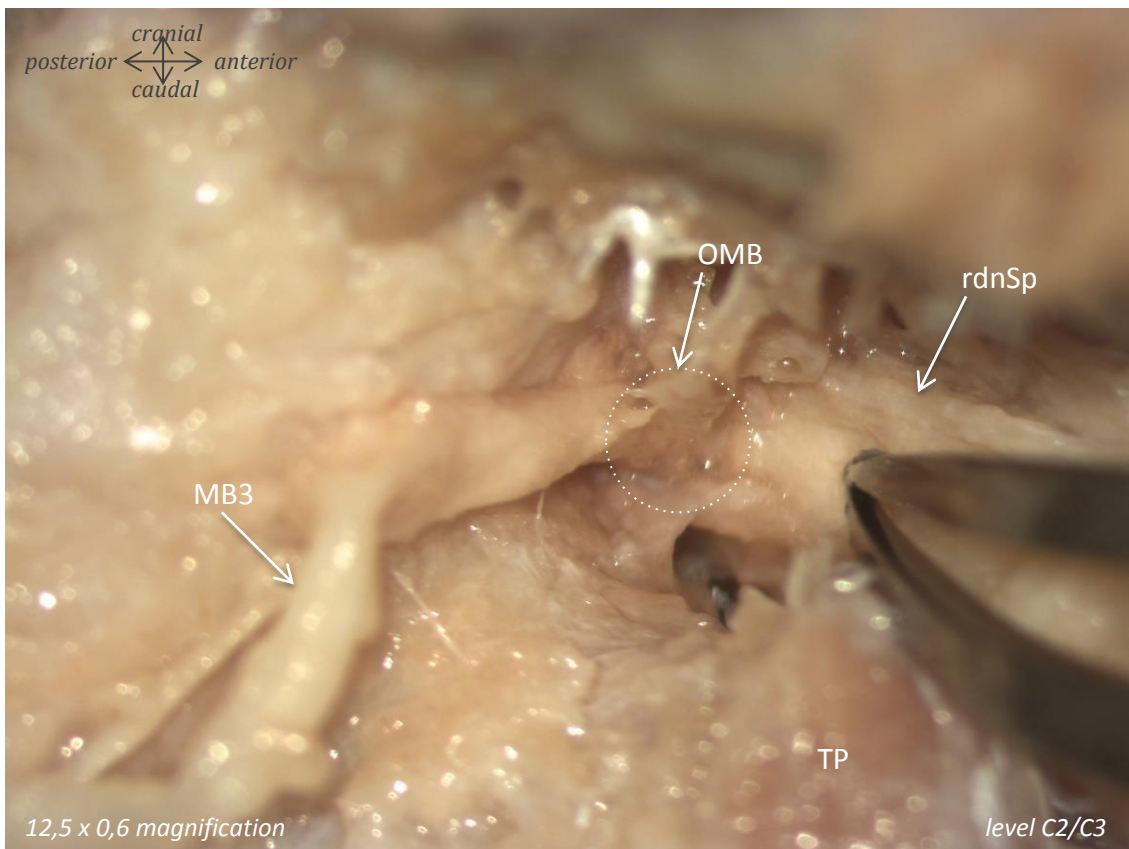
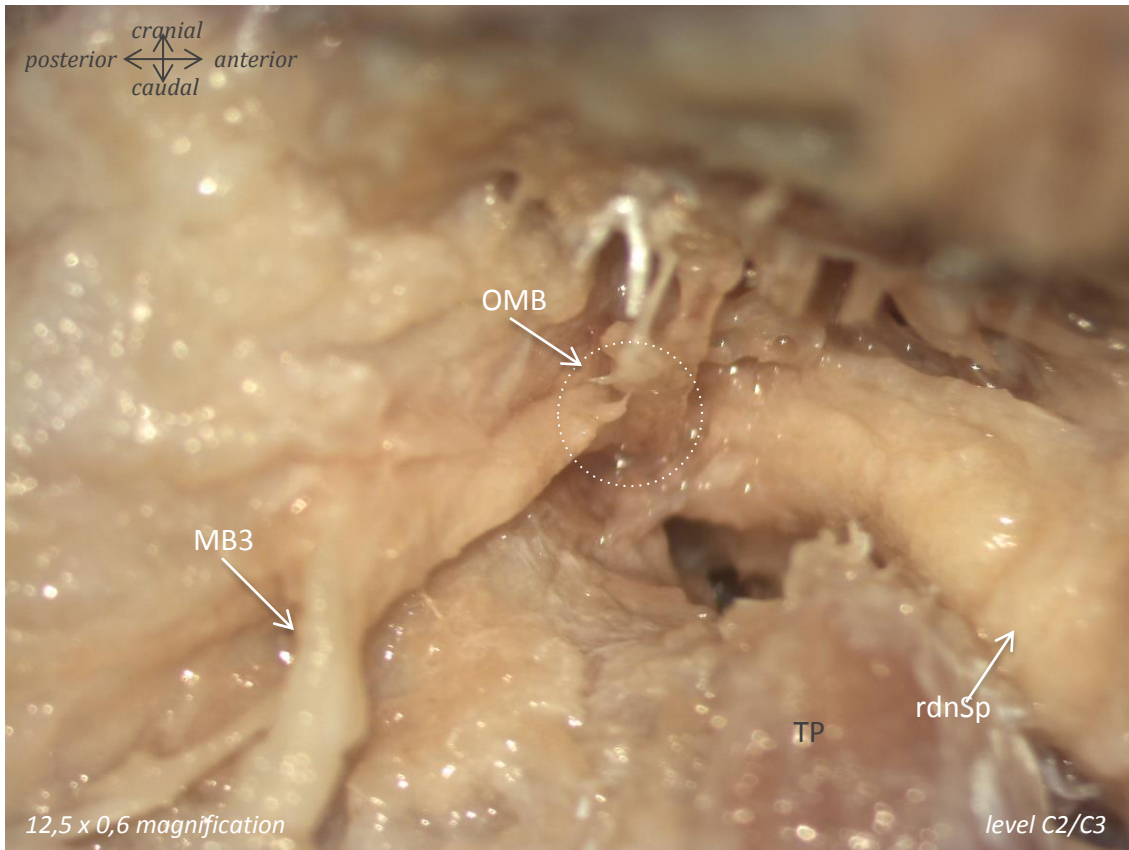
Male, 76 years of age

Origin medial branch

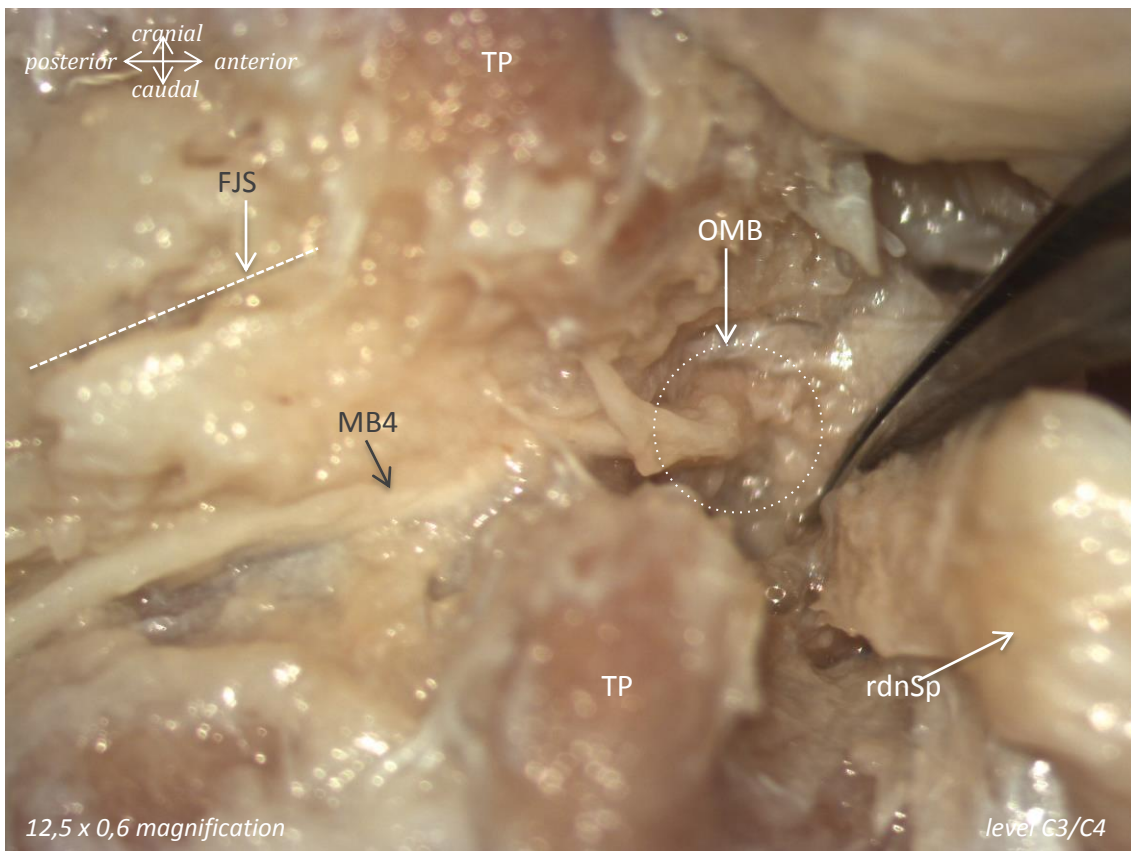
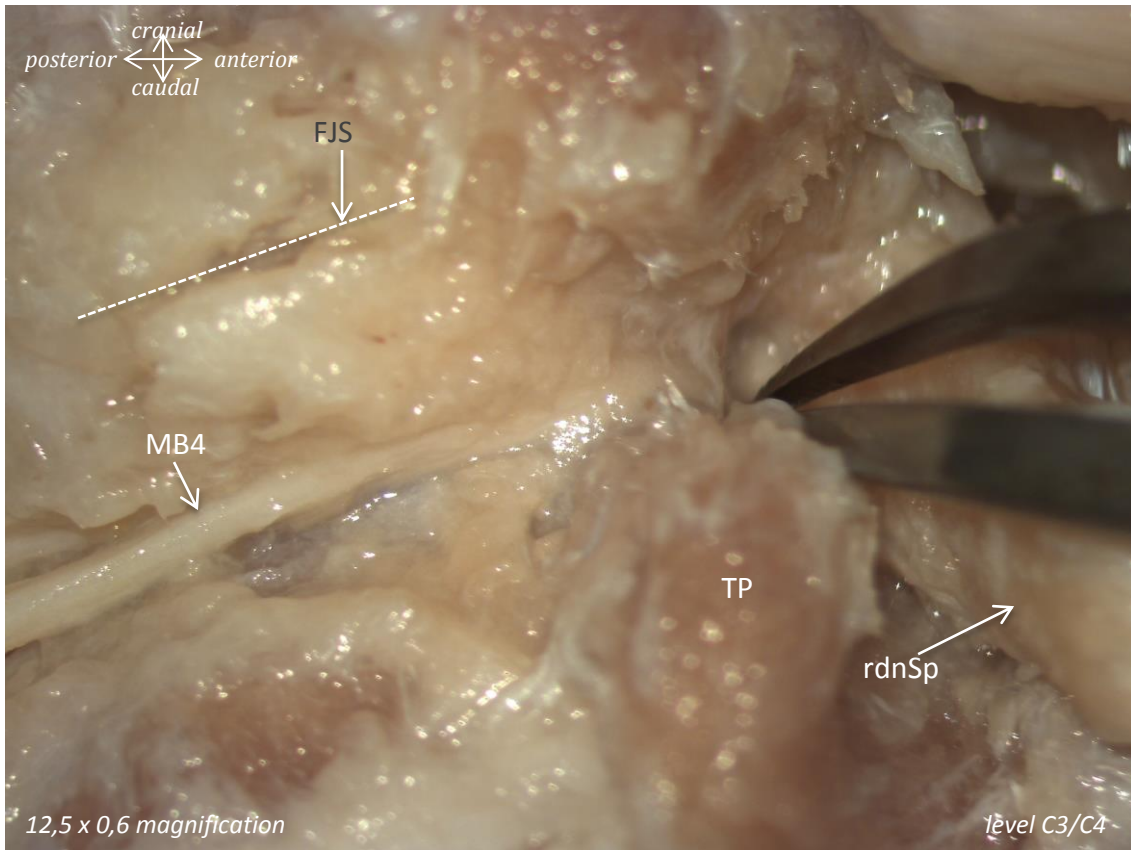


Nerves: MB = medial branch; OMB = originating point medial branch; fB= facet joint branch; rdnSp = ramus dorsalis n. spinalis
Extra: TP = tuberculum posterius; FJS = facet joint space

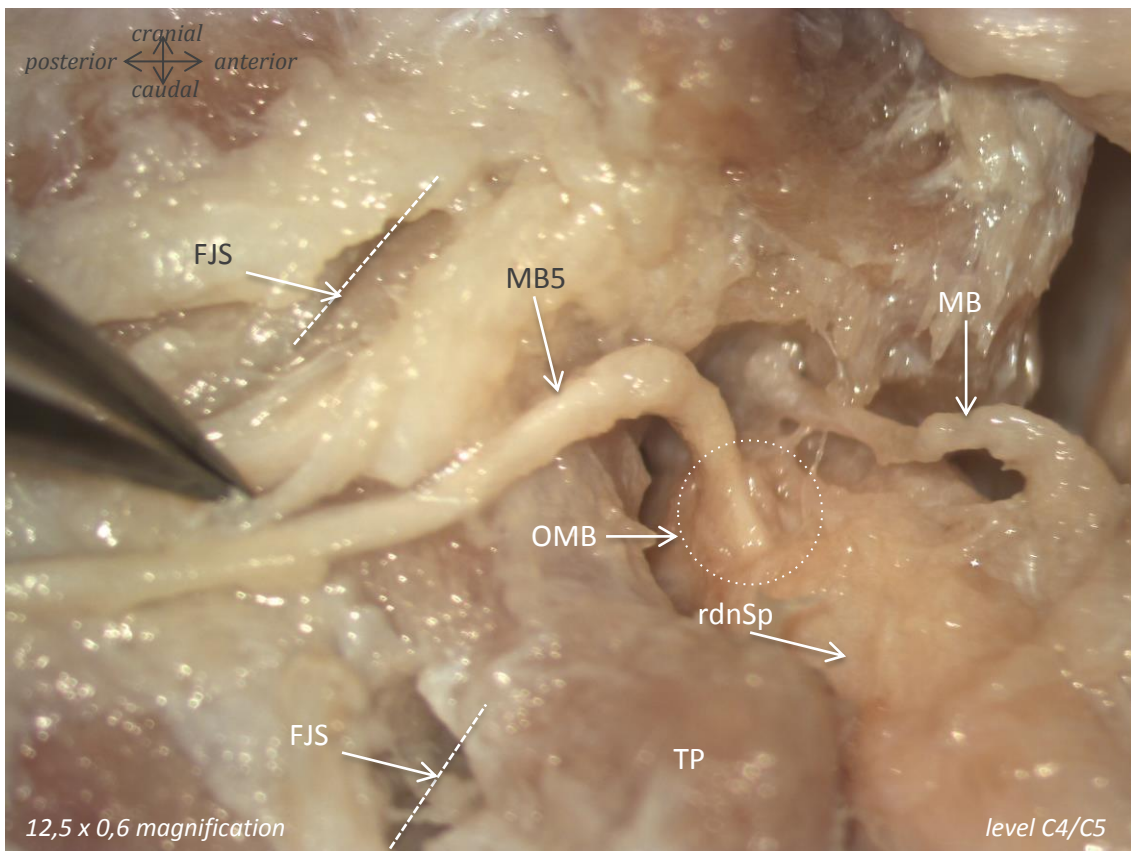
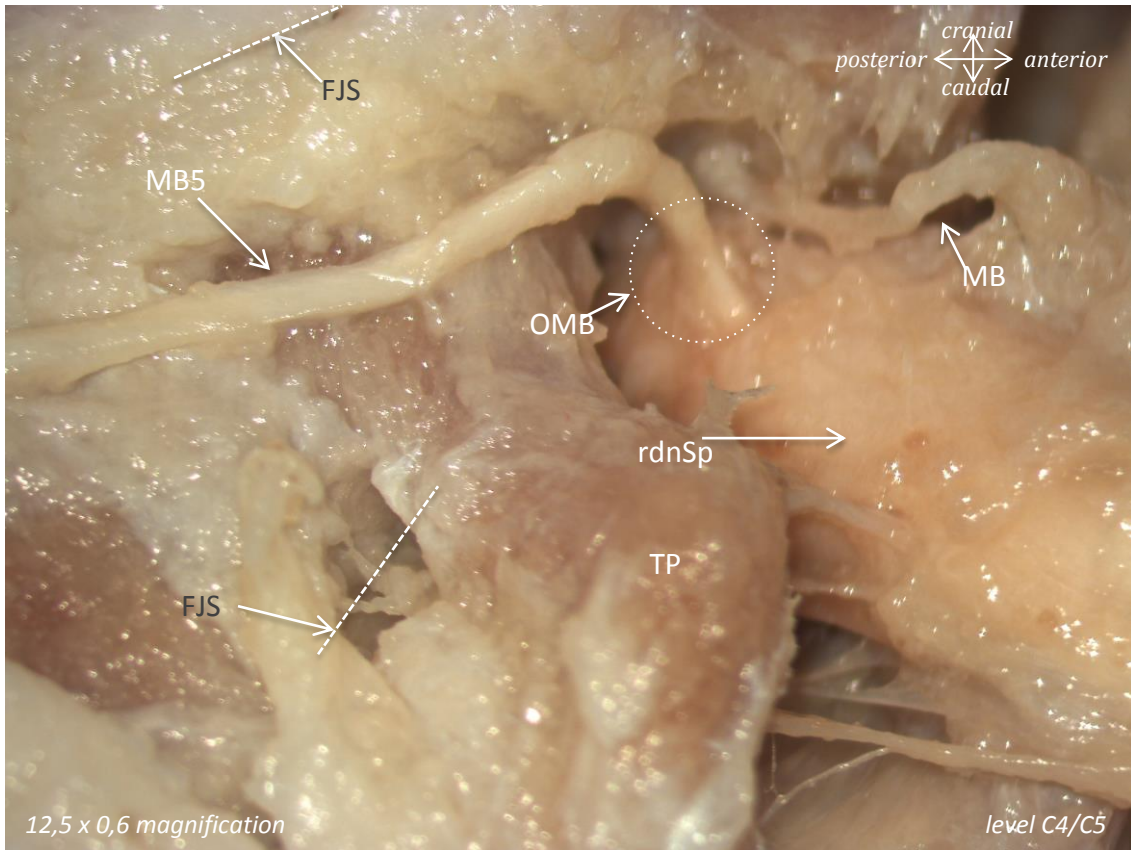
Male, 76 years of age



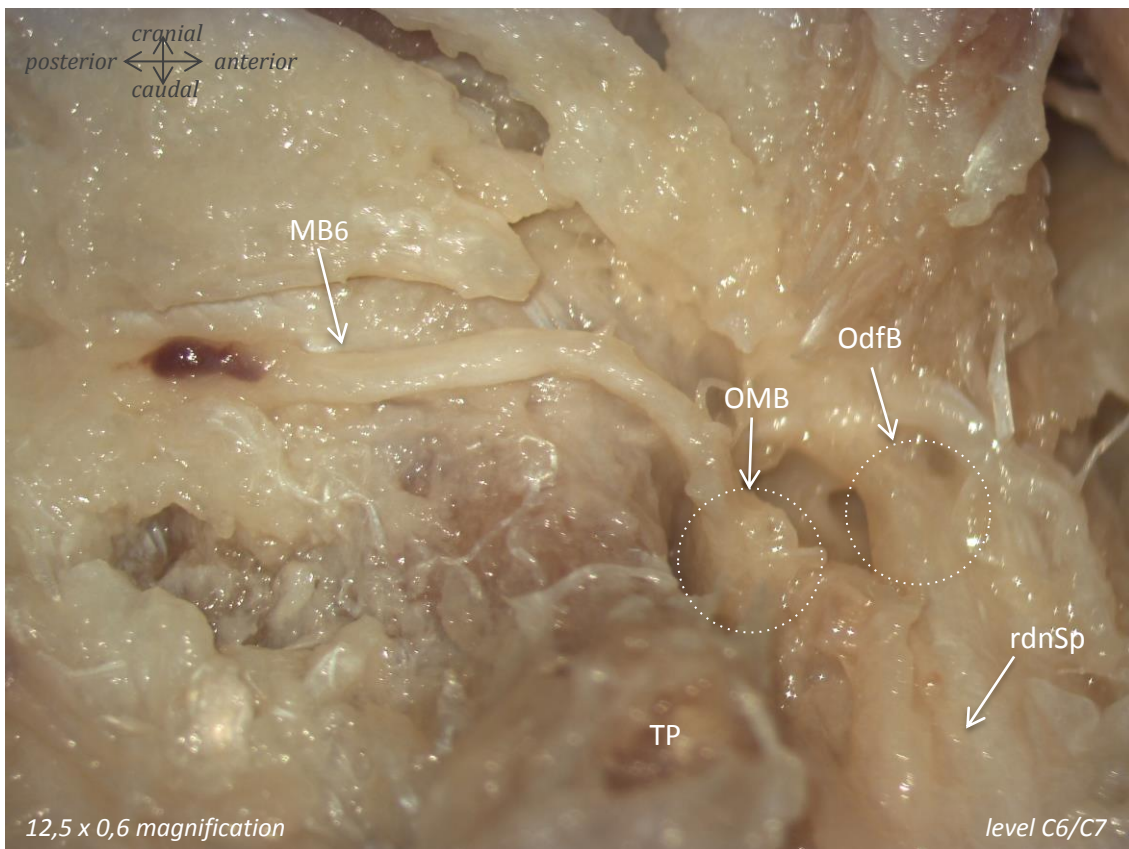
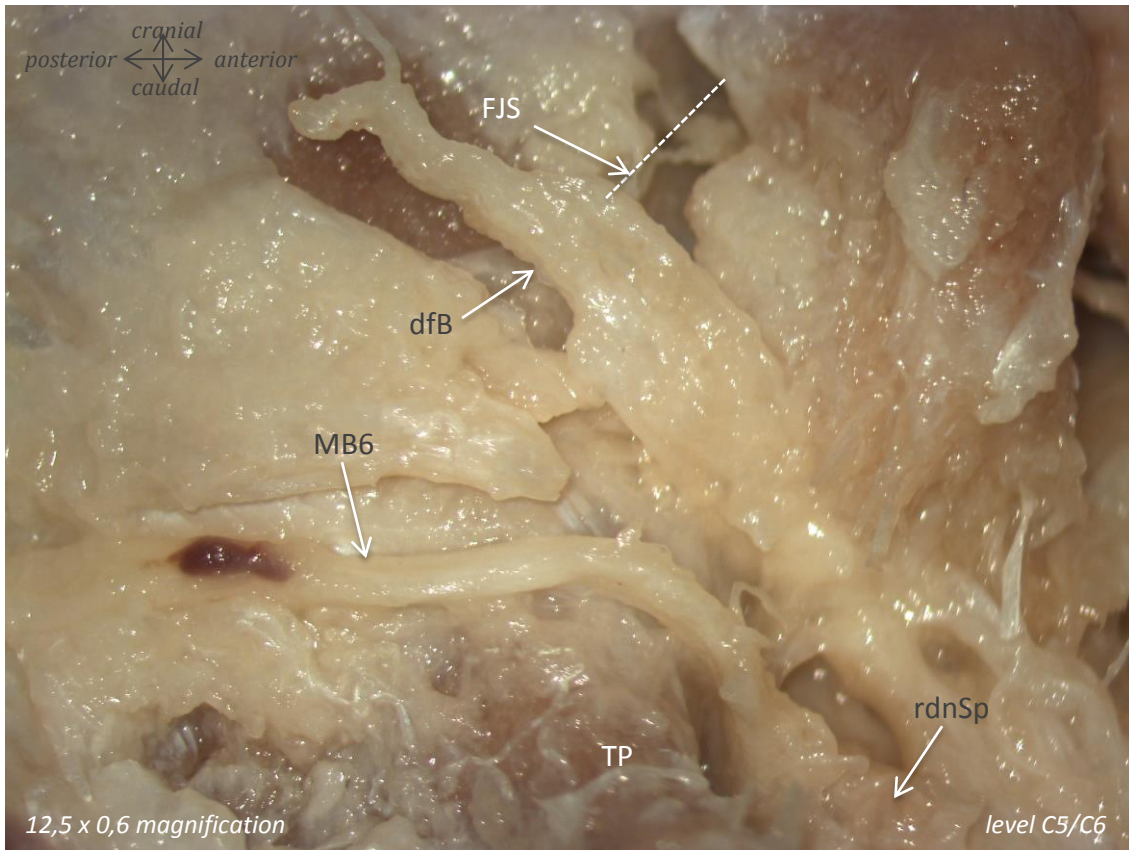
Nerves: MB = medial branch; OMB = origin medial branch; rdnSp = ramus dorsalis n. spinalis
Extra: TP = tuberculum posterius



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



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



Nerves: MB = medial branch; dfB = direct facet joint branch; OMB = origin medial branch; OdfB= the facet joint branch originating directly from the N. spinalis
Extra: TP = tuberculum posterius; FJS = facet joint space