











12th Asian and Oceanic Society of Regional Anaesthesia and Pain Medicine Congress

Programme -

Registration

Abstracts v Tours/Accomodation

The Use of Regional Anaesthesia in **Uncommon Conditions**

(IN COLLABORATION WITH MALAYSIAN SIGRA)









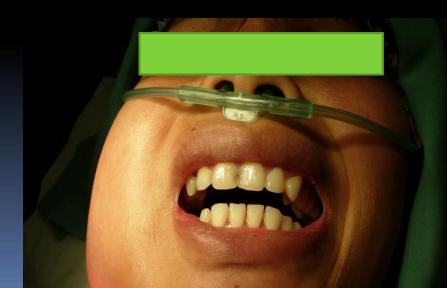
Head & Neck Nerve Block

- •3 cases of dental/submandibular abscess
- 2cases of LN biopsy(paediatric)
- •2 cases of parathyroidectomy
- •2 cases of scalp surgery
- •4 cases of burr hole
- •1 case of facial surgery

PERIPHERAL NERVE BLOCK FOR DRAINAGE OF DENTAL ABSCESS IN ADULT WITH DIFFICULT AIRWAY - 3 CASES REPORT

- 31/ Lady
- right lower molar tooth
 infection and submandibular
 abscess X 1 week
- limited mouth opening < 5mm
- Nasal endoscopy was normal
- Airway was patent
- For I&D



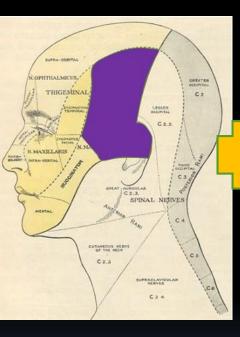


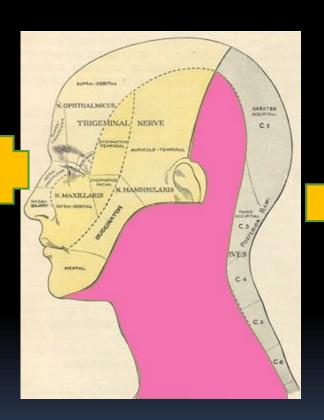
- Regional Block:
 - -right superficial cervical plexus
 - (10 ml L.A.)
 - -right auriculotemporal n. block (5 ml L.A.)
 - [LA= 0.75% Ropivacaine +1% lignocaine]
- Sedation:
 - -i.v. fentanyl 50 mcg
 - -i.v. midazolam 1mg

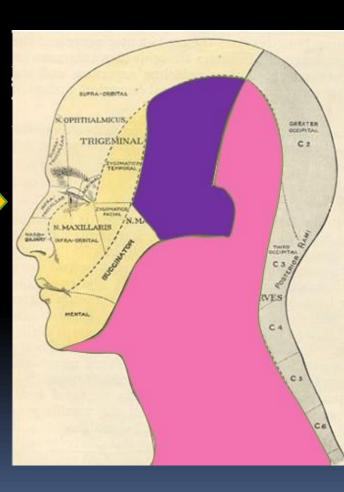


Auriculotemporal N block

SCPB

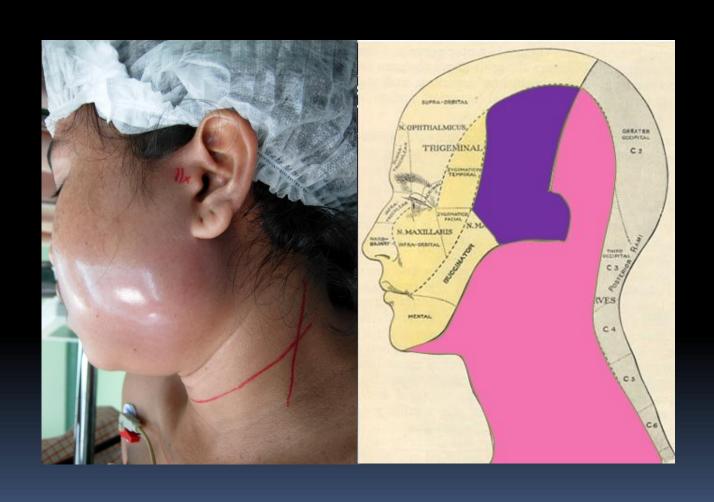








Auriculotemporal+ SCPB



- Surgery:
 - -started 15 min. after the block
 - -2cm submandibular skin incision
 - -dissect down to subplatysmal layer & toward the right submandibular fossa
 - -20ml pus

I&D Of Submandibular Abscess

VIDEO



- 28/ lady
- left lower wisdom toothache X 1 month
- CT scan-submasseteric abscess
- mouth opening 0.5cm
- Planned for I&D





- Regional Block:
 - -left superficial cervical plexus block (10 ml L.A.)
 - -left auriculotemporal nerve block (5 ml L.A.)
 - [LA= 0.75% Ropivacaine +1% lignocaine]
- Sedation:
 - -i.v. fentanyl 50 mcg
 - -i.v. midazolam 1 mg
 - -careful titration

- Surgery:
 - -started 15 min after the block
 - -2.5 cm skin incision at the
 - submandibular region
 - -tunneled towards the submasseteric
 - space
 - -20 ml pus

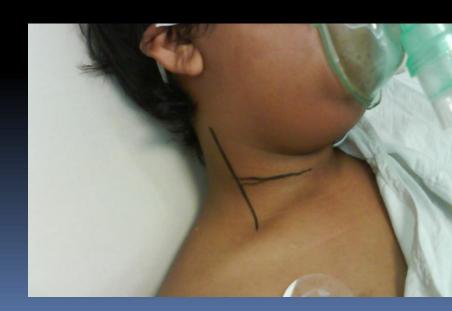
VIDEO



- 25/Lady
- C/O-fever X 2 days
 - -pain & swelling of the oral cavity & neck
 - -limited mouth opening
 - -dysphagia & odynophagia



- O/E-marked swelling over the right submandibular & submental spaces
 - -elevated tongue
 - -tender++
 - -mouth opening 1.5cm
 - -Temp. 37.5 C
 - -TWC- 27,800/mm



 CT contrast- collection of 4.5 X 1.6 X 1.5 cm in the parapharyngeal space extending to the retropharyngeal space
 -Ludwig's angina

Need I&D

- Regional Block:
 - -right superficial cervical plexus block 10 ml of 0.5% levobupivacaine

- Sedation:
 - -i.v. fentanyl 50 mcg
 - -i.v. midazolam 1 mg , titrated carefully

- Surgery;
 - -started 20 min after the block
 - -2cm skin incision below the submandibular gland
 - -dissect deep to the submandibular gland
 - -pus was drained

Anaesth Intensive Care. 2009 Jan;37(1):124-6.

Superficial cervical plexus block combined with auriculotemporal nerve block for drainage of dental abscess in adults with difficult airways.

Ling KU, Hasan MS, Ha KO, Wang CY.

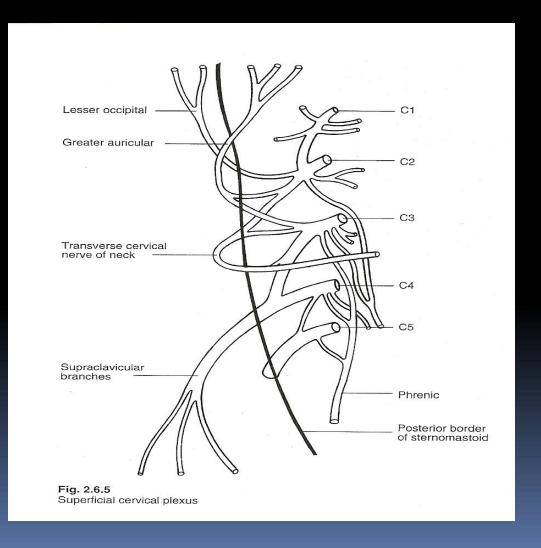
Department of Anaesthesia, Faculty of Medicine, University Malaya, Lembah Pantai, Kuala Lumpur, Malaysia.

Abstract

We report our use of a superficial cervical plexus block to manage three adults who presented for drainage of dental abscesses. All patients had difficult airways related to severe trismus (preoperative inter-incisor distance < or = 1.5 cm). The first two patients, whose abcesses involved both the submandibular and submasseteric spaces, were managed with combined superficial cervical plexus and auriculotemporal nerve block. In a third patient, a superficial cervical plexus block alone was sufficient because the abscess was confined to the submandibular region. The blocks were successful in all three cases with minimal requirement for supplemental analgesia. We recommend the consideration of superficial cervical plexus block, and if necessary an auriculotemporal nerve block, for the management of selected patients with difficult airways who present for drainage of dental abcesses.

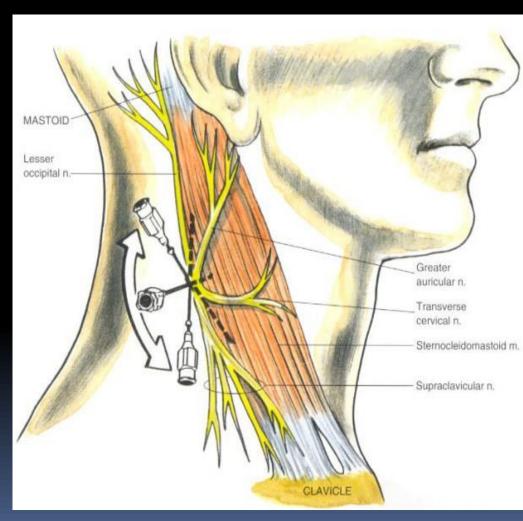
Root:

--Ant. Rami C₂C₃&C₄



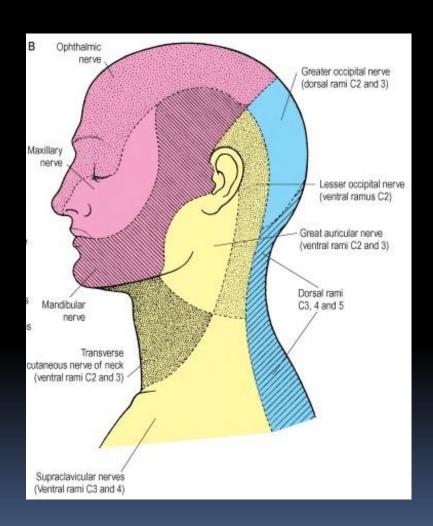
Nerves:

- 1) Lesser Occipital n.
- 2) Greater Auricular n.
- 3) Transverse cervical n.
- 4) The ant. Cut. N.
- 5) Supraclavicular n. Nerves



Area supplied:

- --ear & surrounding skin of the scalp & face
- --submandibular area
- --neck
- --cape of shoulder
- --upper chest



Surgery:

--superficial surg.

--tracheostomy & thyroidectomy (B/L

block)

--L.N. Bx

--T&S, I&D

--carotid endarterectomy

--CVL

--ear surg.(+ auriculotemporal n. block)



- Complication
 - --phrenic n. block
 - --intrathecal or iv inj.
 - --vagus / recc. Laryngeal n. block(aphonia)
 - --cervical symp. N. block & Horner's synd.

TECHNIQUE

Position:

--supine, head turned to opp. side

Landmark:

--draw a line laterally fr. the cricoid cart., cross the post. border of the SCM ms.





TECHNIQUE

Needle Puncture:

--at this crossing pt.
insert a short bevel
needle 1", perpendicular
to the skin until it 'pop'
through the cervical
fascia

Dosage:

--10 ml of L.A., this will flow up & down the post. Border of the SCM ms.





SCPB VIDEO





Auriculotemporal Nerve Block



CHILDREN WITH ANTERIOR MEDIASTINAL MASS:

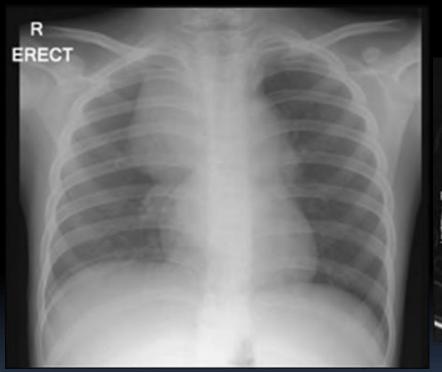
procedural sedation with dexmedetomidine combined with superficial cervical plexus block (SCPB)

2 case report

- 10yr boy, 19kg
- h/o- chronic fever, weak, multiple cervical LN, gross hepatosplenomegaly & severe anaemia.
- CXR- large mediastinal mass
- CT scan- a large soft tissue mass within the anterior and middle mediastinum completely encasing the trachea without trachea compression & also encasing the arch of aorta, left and right pulmonary artery & SVC.
- Need cervical LN biopsy

- Sedated with dexmedetomidine, 1µkg⁻¹ over 10 min, the maintain with 0.5-1.0µkg⁻¹ per hour.
- USG SCPB, 5ml o.5% levobupivacaine
- 24G, 25mm short bevel needle (plexufix, Bbraun)
- 15 min later surgeon excised 3 cervical LN
- Diagnosis: Hodgkin's disease
- 10 days later patient come back for subcutaneous venous port insertion for chemotherapy
- Procedure done under same anaesthesia technique as above.

- 12yr boy, 24 kg
- k/c of non Hodgkin's lymphoma
- h/o- cough x 3/7, chest discomfort, facial swelling & distended veins over the chest
- CXR- huge mediastinal mass
- CT scan- large heterogenous mass at the anterior mediastinum encasing the left brachiocephalic vein with SVC compression. The trachea was compressed & displaced posteroinferiorly





- Planned for subcutaneous venous port insertion
- Sedated with dexmedetomidine & ketamine o.5mg/kg combined with USG SCPB, 5 ml o.5% levobupivacaine
- Procedure completed uneventfully

Correspondence

European Journal of Anaesthesiology 2011, 28:813-816

Children with anterior mediastinal mass: procedural sedation with dexmedetomidine

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Introduction

Anaesthetic considerations for children with anterior mediastinal mass are problematic and challenging. This group of children, who may present with little or no symptoms from cardiovascular and respiratory compromise, is at high risk for sudden airway obstruction, cardiovascular collapse and death on the operating table.

We report two children with anterior mediastinal mass who underwent biopsy and venous port insertion under superficial cervical plexus block (SCPB) and dexmedetomidine sedation. Patients' permission was obtained to publish this case report. approach, 5 ml of 0.5% levobupivacaine was deposited in the fascial plane just below the midpoint of the posterior border of the sternocleidomastoid muscle using a 24G, 25 mm short-bevel needle (Plexufix, B Braun, Melsungen, Germany). After 15 min, the surgeon was able to excise three cervical lymph nodes situated posterior to the sternocleidomastoid muscle.

Biopsy result revealed Hodgkin's disease. For administration of chemotherapy, a subcutaneous venous port was implanted 10 days later under dexmedetomidine sedation, using a similar regime as described above. This enabled the successful performance of a SCPB and port implantation.

In both procedures, performed at separate times, the patient breathed spontaneously with oxygen supplementation via nasal prongs. There was no untoward event in the perioperative period. His respiratory rate was 15–20 min⁻¹. Reduction in blood pressure (BP) and heart rate (HR) was less than 15% from baseline.

Case 2

A 12-year-old boy weighing 24kg presented with 3 days history of cough, chest discomfort, facial swelling and distended veins over the chest. There was no history of

TOTAL PARATHYROIDECTOMY IN ESRF PATIENT UNDER B/L SCPB

2 cases

CASE 1

- An elderly man with ESRF on long term HD
- Planned for total parathyroidectomy



B/L SCPB

10ml LA to each side



20 min apart



CAUTIOUS: may cause B/L phrenic nerve block



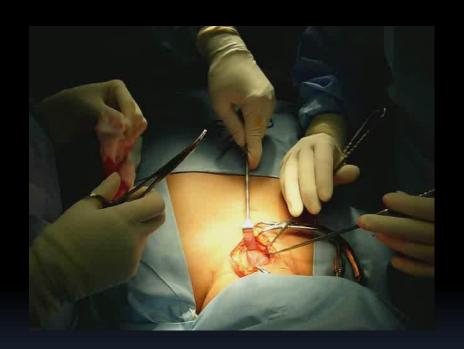
CASE 2

- A 32 yr man, ESRF on long term HD
- For Total Parathyroidectomy

B/L SCPB



Parathyroidectomy

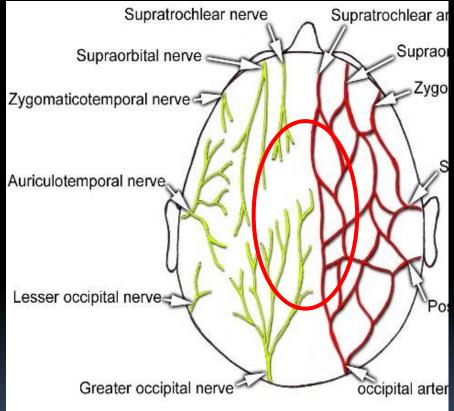


SCALP SURGERY DONE UNDER NERVE BLOCK

2 cases

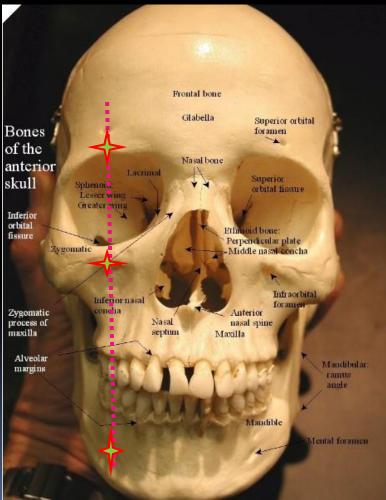
- 83/ man
- pmH: DM,HTN, CAD, AF, CCF
- lacktriangle Δ : melanoma at the veltex
- Ope: wide excision + SSG
- RA: -B/L supraorbital & supratrochlear N block
 - -B/L GON & LON block
 - -Femoral N block







Supraorbital Foramen



Supraorbital & Supratrochlear N Block

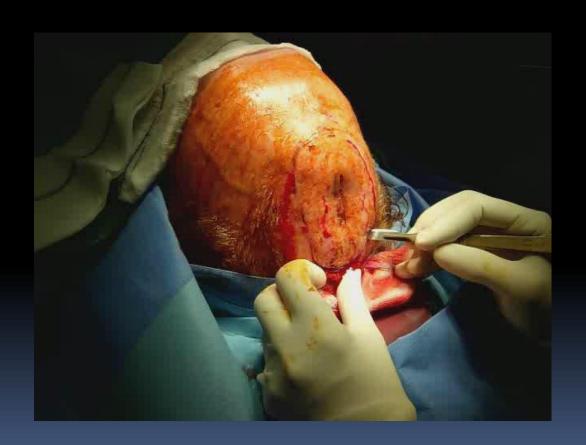




GON & LON Block VIDEO



Scalp Surgery VIDEO



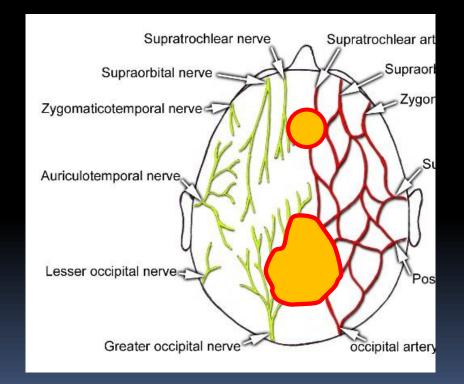
Scalp Surgery

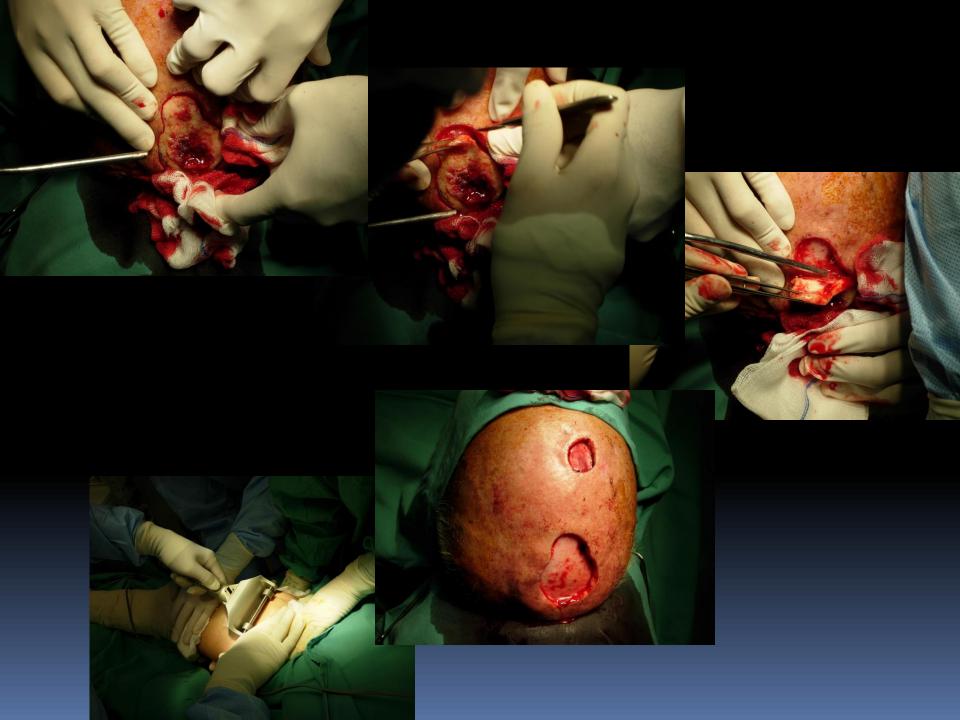
- -case 2
- 87 man
- pmH: DM, HTN & CAD
- Δ : SCC at the vertex
- Ope: wide excision + SSG
- R.A: B/L supraorbital & supratrochlear N block + B/L GON block
 - Femoral N block for SSG











Burr Hole Drainage of CSDH under R.A.

4 cases

<u>Burr Hole done</u> under RA

- 71/man
- pmH: HTN, CAD, dilated cardiomyopathy
- Δ: acute on CSDH of left fronto-parietal occipital region
- Ope: left frontal & left parietal burr hole drainage
- GCS: 10/15
- RA: left supraorbital & supratrochlear N block
 - -left auriculotemporal N block
 - left GON & LON block
- L.A: 3ml of 0.5% L-bupivacaine to each of the nerve



Burr Hole done under RA

- 61/man
- pmH: HTN, DM,ESRF, cardiomyopathy
- Δ: CSDH over his right fronto-parietal-occipital region
- Ope: Right frontal and right parietal burr hole drainage
- GCS: 10/15
- RA: same as case 1

Burr Hole done under RA

- 77/ lady
- pmH: DM, old stroke
- Δ: Pneumonia & CSDH over right fronto-temporalparietal region
- Ope: Right frontal & right parietal burr hole drainage
- GCS: 12/15
- RA: same as case 1

Burr Hole done under RA



- 93/ man
- pmH: HTN, DM
- Δ: CSDH over B/L fronto-temporal- parietal region
- GCS: 12/15
- Ope: B/L frontal burr hole drainage
- RA: B/L supraorbital & supratrochlear N block
- LA: total 5ml of 0.5% L-bupivacaine was given on each side.

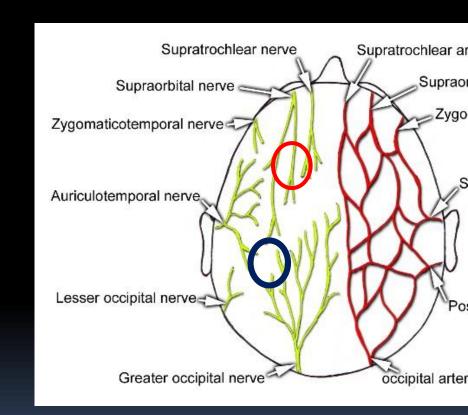




<u>Burr Hole done</u> under RA

- Frontal burr hole
- 1. Supraorbital N block
- 2. Supratrochlear N block

- Parietal burr hole
- 1. Supraorbital N block
- 2. Auriculotemporal N block
- 3. LON & GON block

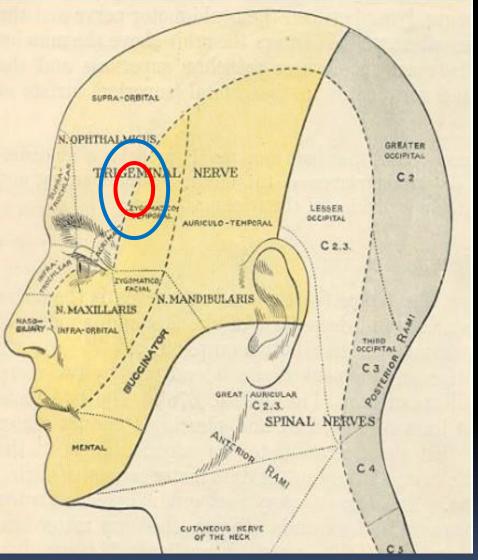




- 87 man, HTN
- BCC on the left frontaltemporal region
- Need wide excision surgery
- H/O severe PONV, requested RA.

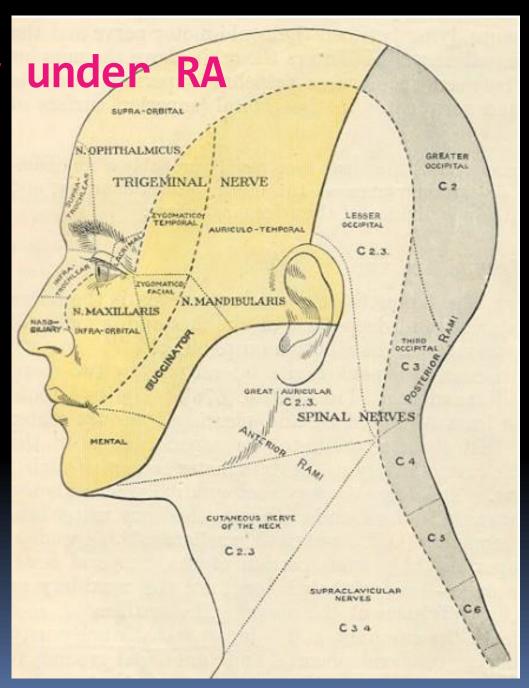


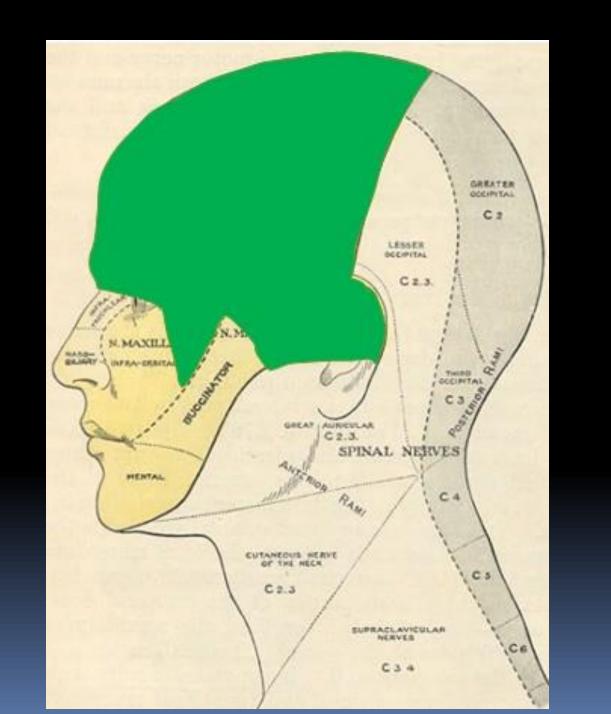




Facial surgery under RA

- 1. Zygomaticotemporal N
- 2. Zygomaticofacial N
- 3. Supraorbital N
- 4. Supratrochlear N
- 5. Auriculotemporal N







Zygomaticofacial Foramen

Anterolateral view

Orbit



Zygomaticofacial N block

Zygomaticotemporal N block







Supraorbital N block

Supratrochlear N block





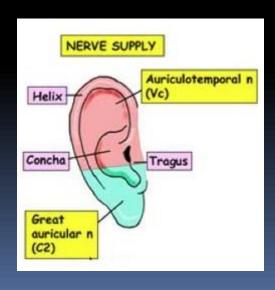
Auriculotemporal N Block

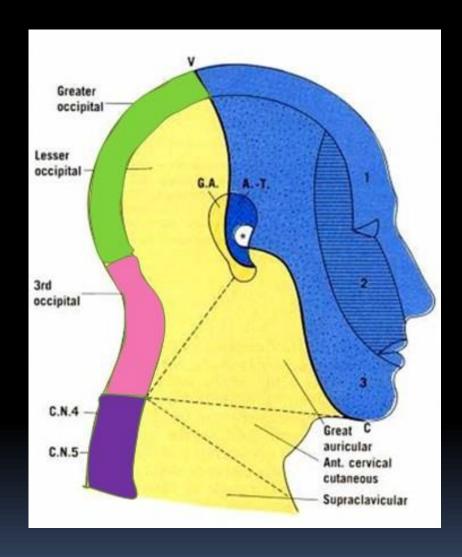






HEAD & NECK BLOCK





Head & Neck Block is..... Easy!!

