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AIIMS,N Delhi



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Ultrasound Sympathetic Blocks- is it the holy grail ?

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nerve blocks for pain

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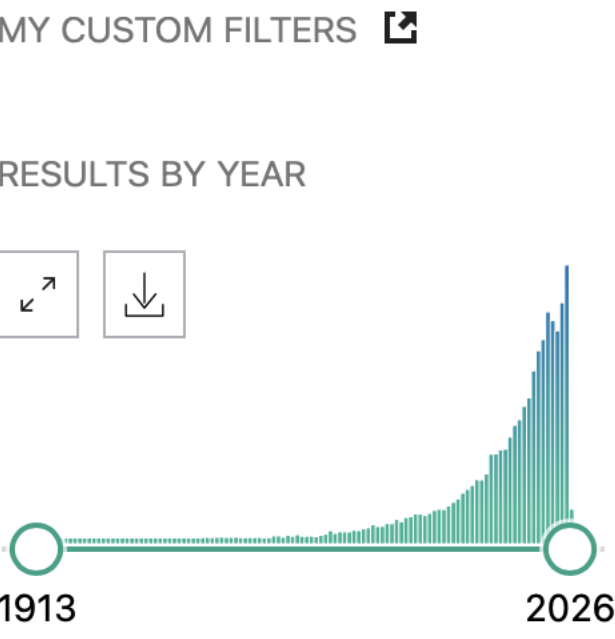
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[Sympathetic nerve blocks for persistent pain in ac](#)
[abdominopelvic cancer.](#)

Cite

Nagar SD, Nagar SJ, Jordan V, Dawson J.
Cochrane Database Syst Rev. 2024 Jun 6;6(6):CD015229. doi:
PMID: 38842054 **Free PMC article.**

Combination **block** versus single **block** Primary outcomes Ther
combination sympathetic **nerve blocks** compared with single s
proportion of participants reporting no worse than m ...

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2

[Ultrasound-Guided Nerve Blocks in the Head and](#)
[Management: The Anatomy, Sonoanatomy, and Pro](#)

Cite

Li J, Szabova A.
Pain Physician. 2021 Dec;24(8):533-548.
PMID: 34793642 **Free article.** [Review.](#)

There is a scarcity of review articles describing ultrasound guid
blocks of the head and neck. OBJECTIVE: To elucidate the anat
techniques, side effects and complications for the most frequer

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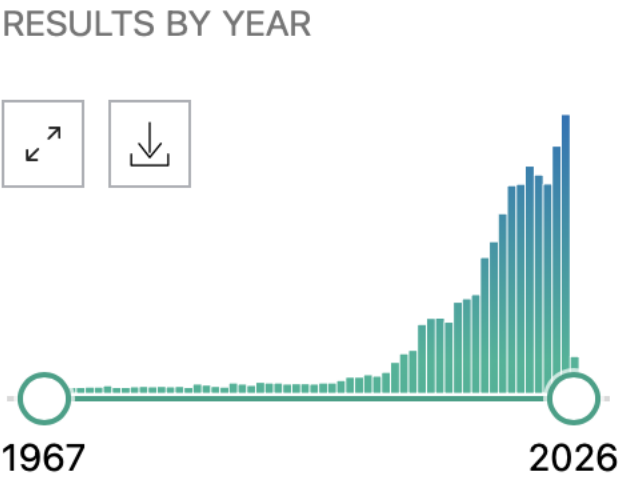
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[Ultrasound-Guided Nerve Blocks in the Head and Neck for Chronic Pain](#)
[Management: The Anatomy, Sonoanatomy, and Procedure.](#)

Cite

Li J, Szabova A.
Pain Physician. 2021 Dec;24(8):533-548.
PMID: 34793642 **Free article.** [Review.](#)

BACKGROUND: **Ultrasound** guided **nerve blocks** have become a popular tool in the
armamentarium for **pain** physicians because of its advantages over fluoroscopy by offering portable,
radiation-free and real-time **imaging**. ...Other **nerve blocks** ...

☐

2

[Ultrasound-Guided Peripheral Nerve Blocks: A Practical Review for Acute](#)
[Cancer-Related Pain.](#)

Cite

Hao D, Fiore M, Di Capua C, Gulati A.
Curr Pain Headache Rep. 2022 Nov;26(11):813-820. doi: 10.1007/s11916-022-01089-9. Epub 2022
Sep 27.
PMID: 36168092 [Review.](#)

PURPOSE OF REVIEW: **Ultrasound**-guided regional techniques, including catheter-based
approaches, are a subset of interventional therapies that have gained interest as an option for
managing acute cancer-related **pain**. ...RECENT FINDINGS: In a MEDLINE/Pubmed search of ...

☐

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[Ultrasound Guided Genicular Nerve Blocks for Pain Management Following](#)
[Total Knee Replacement: A Narrative Review.](#)

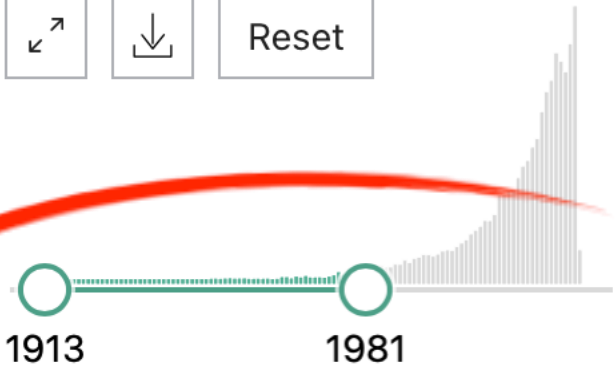
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☐ Full text

ARTICLE ATTRIBUTE

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☐ Relieving pain with nerve blocks.

1 Carron H.

Cite Geriatrics. 1978 Apr;33(4):49-57.

PMID: 147196

Careful differential diagnosis is important, as judicious use of local anesthetic and steroid inhibits the inf ...

☐ Nerve blocks.

2 Berges PU.

Cite Northwest Med. 1970 Aug;69(8):568-70.

PMID: 5459302 No abstract available.

☐ Therapeutic nerve blocks for chronic pain.

3 Ghia JN, Duncan GS, Scott DS, Gregg JM.

Cite Am Fam Physician. 1979 Jul;20(1):74-8.

PMID: 452999

Nerve blocks are an effective treatment in patients with n are much less effective in patients with chronic pain. Canc should be carefully screened by: assessment of ...

☐ Postoperative analgesia.

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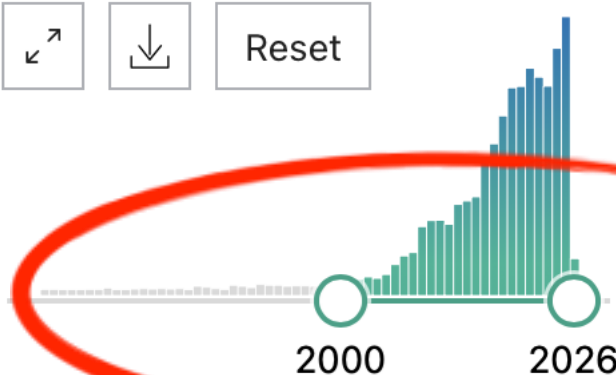
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☐ Ultrasound-Guided Nerve Blocks in the Head and Neck for Chronic Pain Management: The Anatomy, Sonoanatomy, and Procedure.

1 Li J, Szabova A.

Cite Pain Physician. 2021 Dec;24(8):533-548.

PMID: 34793642 Free article. Review.

BACKGROUND: Ultrasound guided nerve blocks have become a popular tool in the armamentarium for pain physicians because of its advantages over fluoroscopy by offering portable, radiation-free and real-time imaging. ...Other nerve blocks ...

☐ Ultrasound-Guided Peripheral Nerve Blocks: A Practical Review for Acute Cancer-Related Pain.

2 Hao D, Fiore M, Di Capua C, Gulati A.

Cite Curr Pain Headache Rep. 2022 Nov;26(11):813-820. doi: 10.1007/s11916-022-01089-9. Epub 2022 Sep 27.

PMID: 36168092 Review.

PURPOSE OF REVIEW: Ultrasound-guided regional techniques, including catheter-based

Why switch to ultrasound for nerve blocks

Review > [Acta Anaesthesiol Scand.](#) 2008 Jul;52(6):727-37.

doi: 10.1111/j.1399-6576.2008.01666.x. Epub 2008 May 12.

Ultrasound-guided peripheral nerve blocks: what are the benefits?

[Z J Koscielniak-Nielsen](#) ¹

Affiliations + expand

PMID: 18477070 DOI: [10.1111/j.1399-6576.2008.01666.x](#)

Abstract

Background: Use of ultrasound by anaesthesiologists performing regional blocks is rapidly gaining popularity. The aims of this review were to summarize and update accumulating evidence on ultrasound-guided nerve blocks, with an emphasis on the clinical relevance of the results and to critically appraise changing standards in regional anaesthesia.

Methods: A search of MEDLINE and EMBASE (1966 to 31 December 2007) was conducted using the following free terms: 'ultrasound and regional anesthesia', 'ultrasound and peripheral block' and 'ultrasound and nerve and block'. These were combined with the MESH terms 'nerve block' and 'ultrasonography'. The following limits were applied: studies with abstracts, only in humans, published in core clinical journals. Trial type: meta-analysis, randomized-controlled trial and clinical trial.

Results: When peripheral nerves are adequately imaged by ultrasound, the concomitant use of nerve stimulation offers no further advantage. However, several studies reported problems with

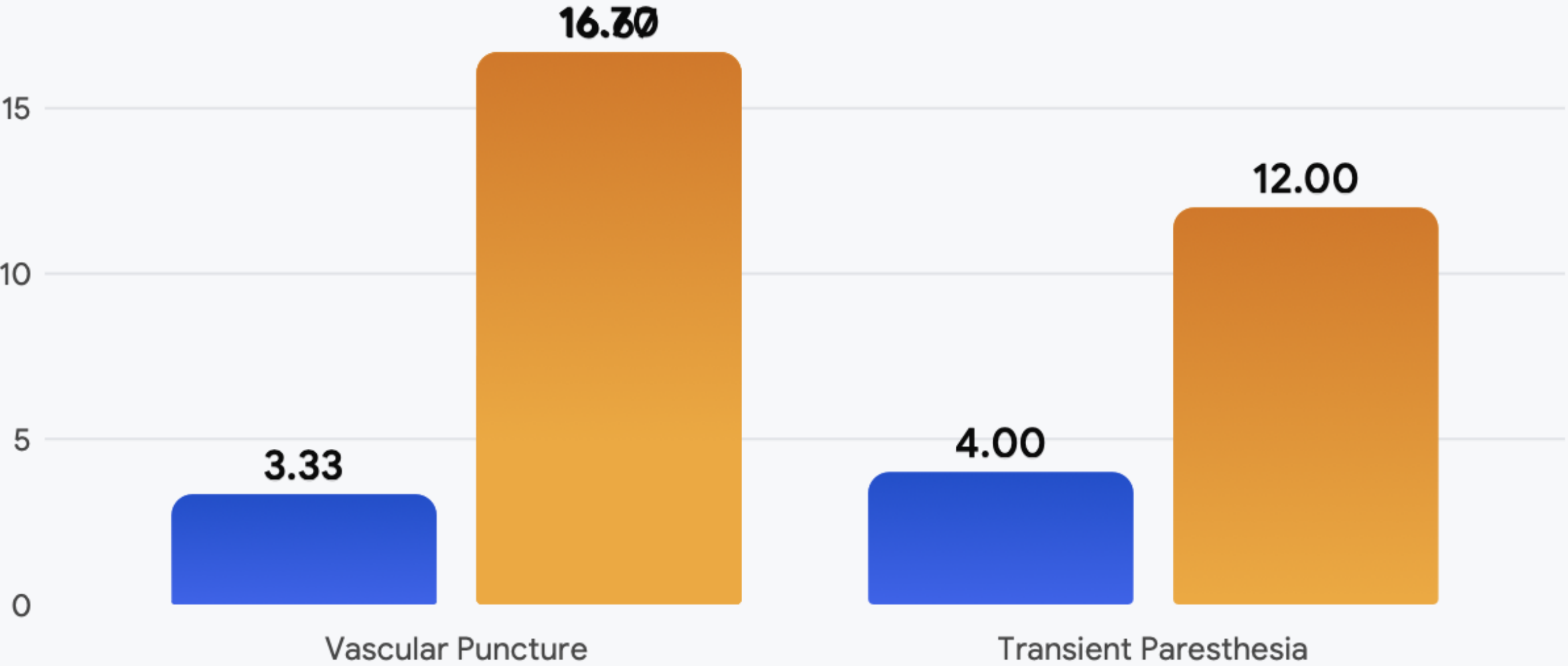
Why ultrasound for sympathetic blocks

- Real time block/ can see passage of needle
- Visibility of vessels
- Portability
- No radiation hazards

Data of safety of ultrasound blocks

Complication Rates: Ultrasound-Guided (USG) vs. Peripheral Nerve Stimulator (PNS) Blocks [🔗](#)

■ USG ■ PNS/Landmark



Comparison: Ultrasound vs. Traditional Methods

Safety Metric 🔗	Ultrasound-Guided (UGNB)	Traditional (Nerve Stimulator/Landmark)
Vascular Puncture	~0.19x lower risk	Higher due to blind needle advancement
Paresthesia	~0.42x lower risk	Higher risk of direct nerve contact
Drug Dosage	Lower volumes required	Higher volumes to ensure block success
Failure Rate	Significant reduction in failed blocks	Greater variability in success

‘Easy’ ultrasound blocks

- Superficial blocks are easy as anatomy is more clear
- Needle path is visualised well

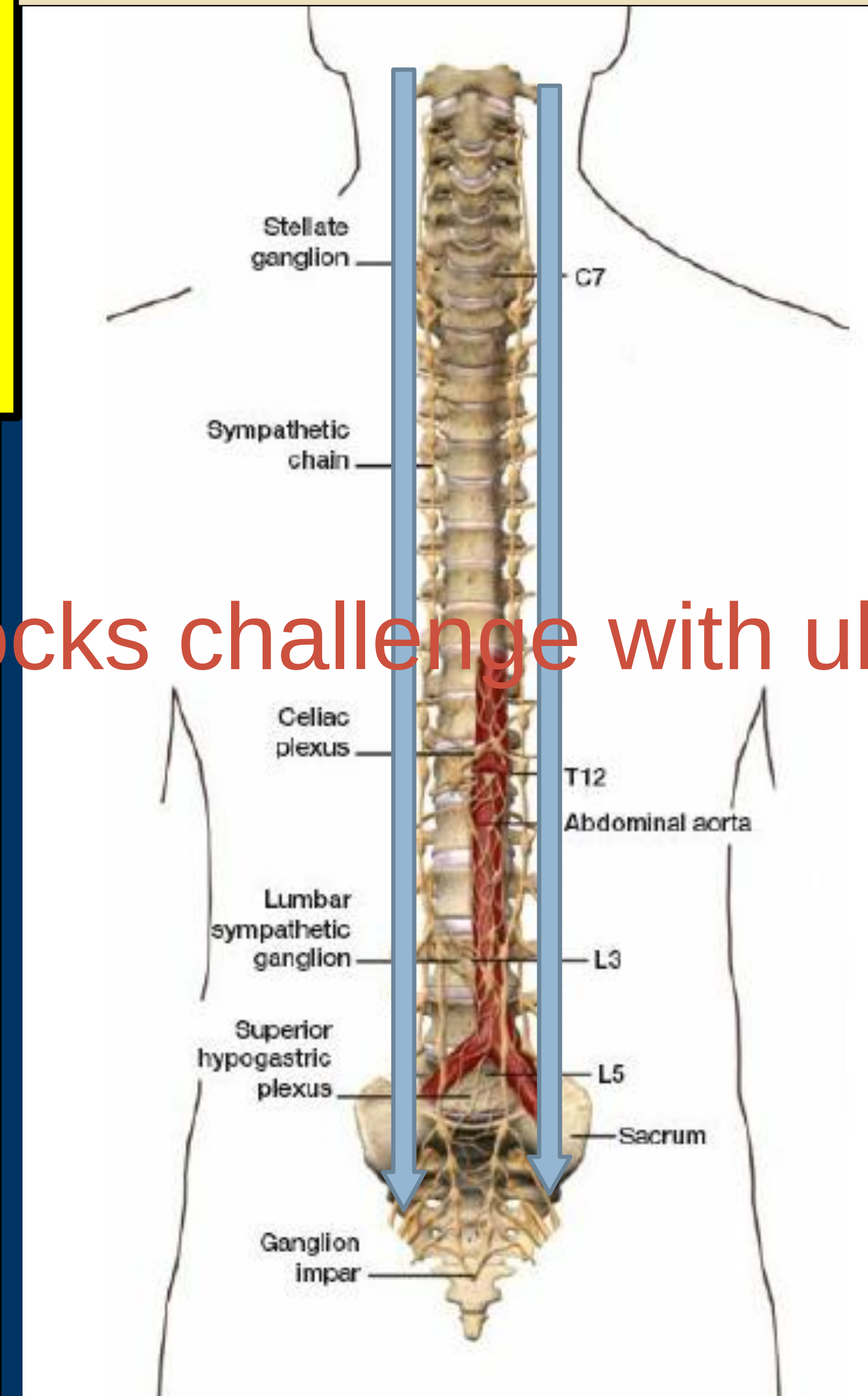
‘Difficult’ ultrasound blocks

- Deep seated blocks
- Difficult to see anatomical structures
- Difficult to see vessels
- Difficult to see needle

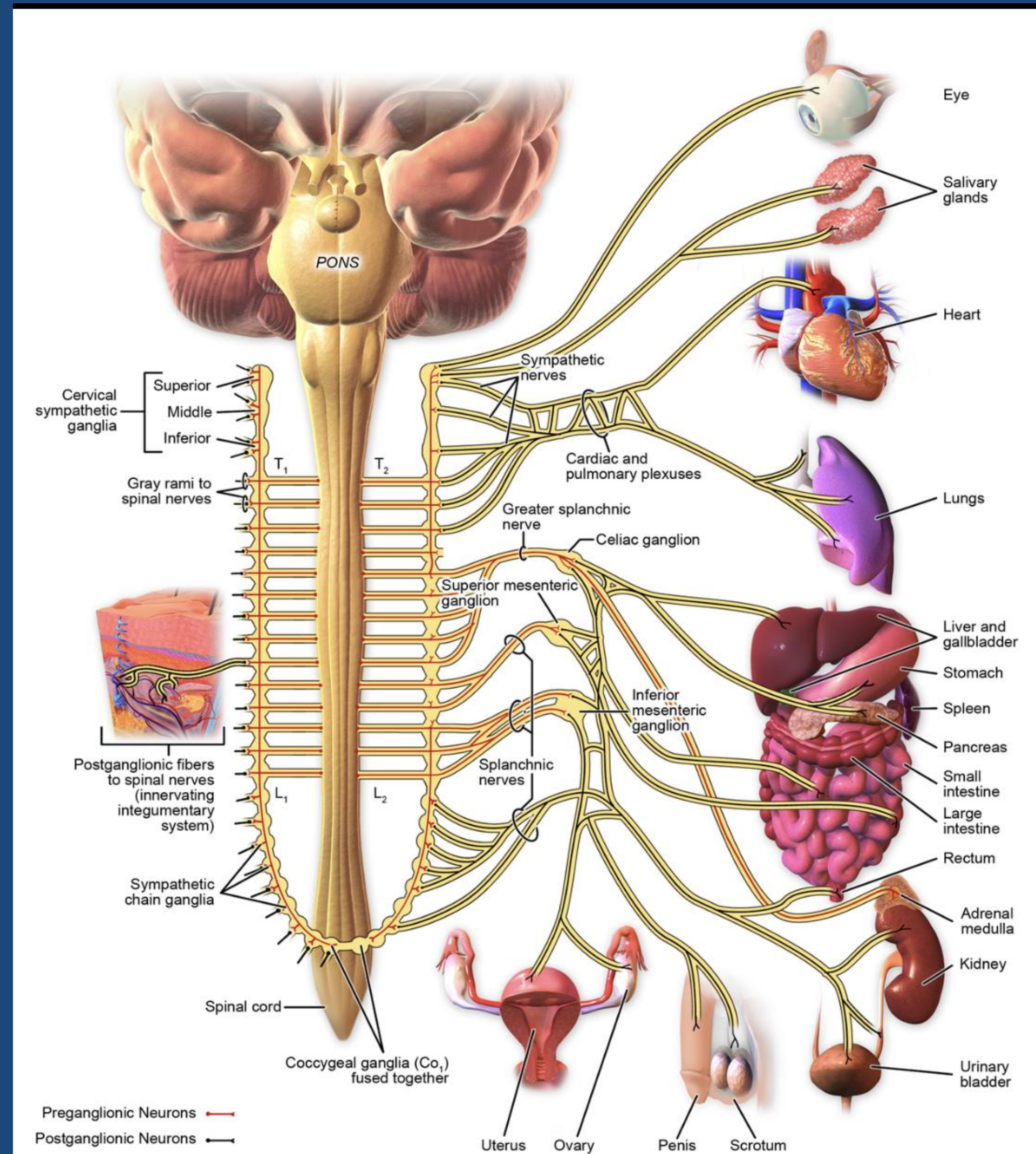
Sympathetic system

- 22 pairs of ganglia

Deep blocks challenge with ultrasound



Complexity of sympathetic system



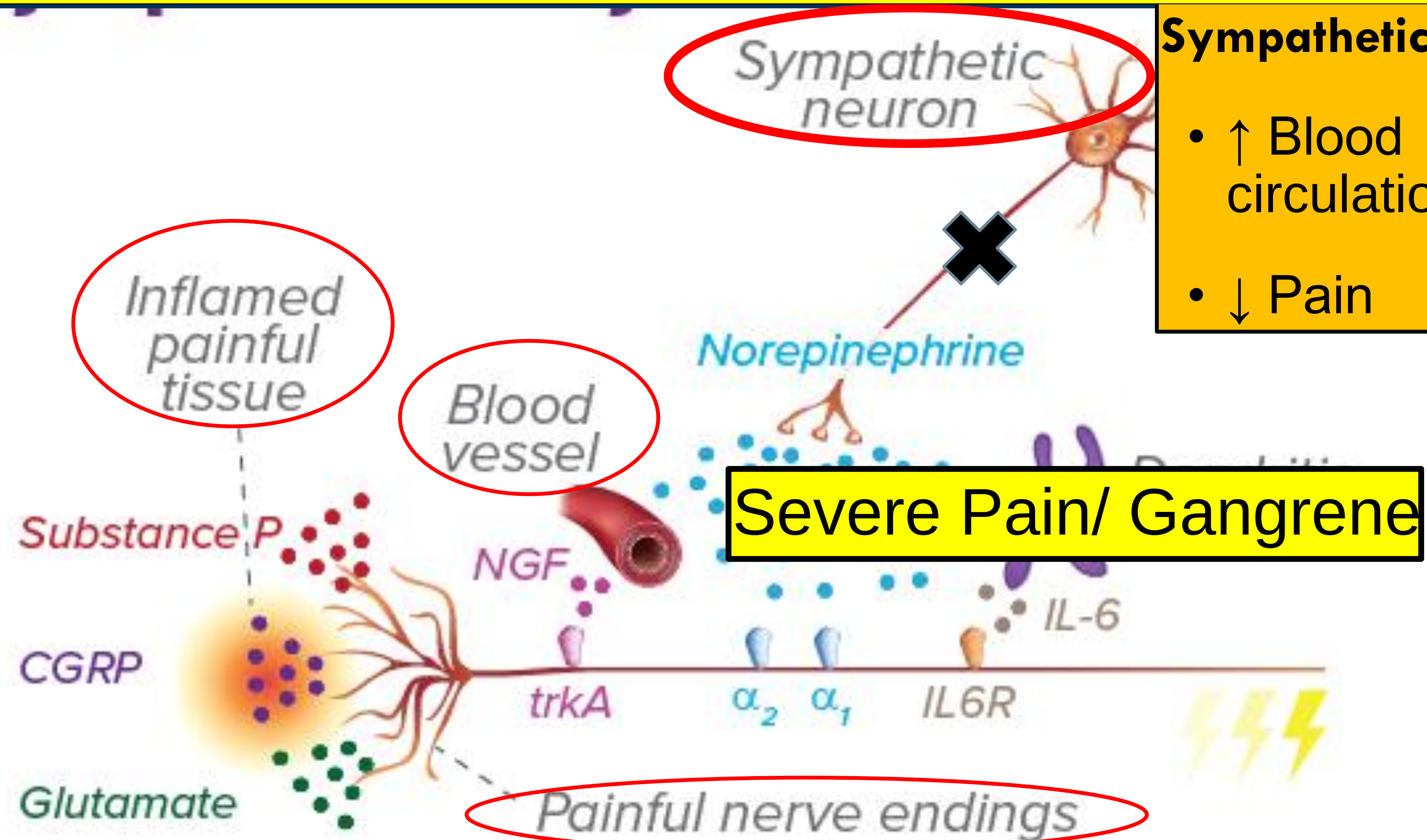
Sympathetic Innervation

Ganglion		Indications
Sphenopalatine ganglion <i>Supra or infra zygoma</i>		Migraine/cluster headache/atypical facial pain
Stellate ganglion <i>At C6-7</i>		Upper limb/thorax pain/chest pain Vascular insufficiency
Thoracic ganglion <i>At T4</i>		Cancer/ chronic pain of abdomen/ thorax/head and neck
Celiac plexus <i>L1</i>		Upper abdominal/pancreatitis
Lumbar sympathetic ganglion <i>At L3/L4</i>		Vascular inefficiency/CRPS
Superior/Inferior hypogastric plexus <i>At L5-S1/S2-4</i>		Pelvic pain
Ganglion impar <i>Anterior to coccyx</i>		Perineal pain / coccydynia

Conditions leading to sympathetic overactivity

- Any acute or chronic medical condition like pancreatitis/ PCOD
- Cancers of abdomen/ pelvis
- Any injury-CRPS

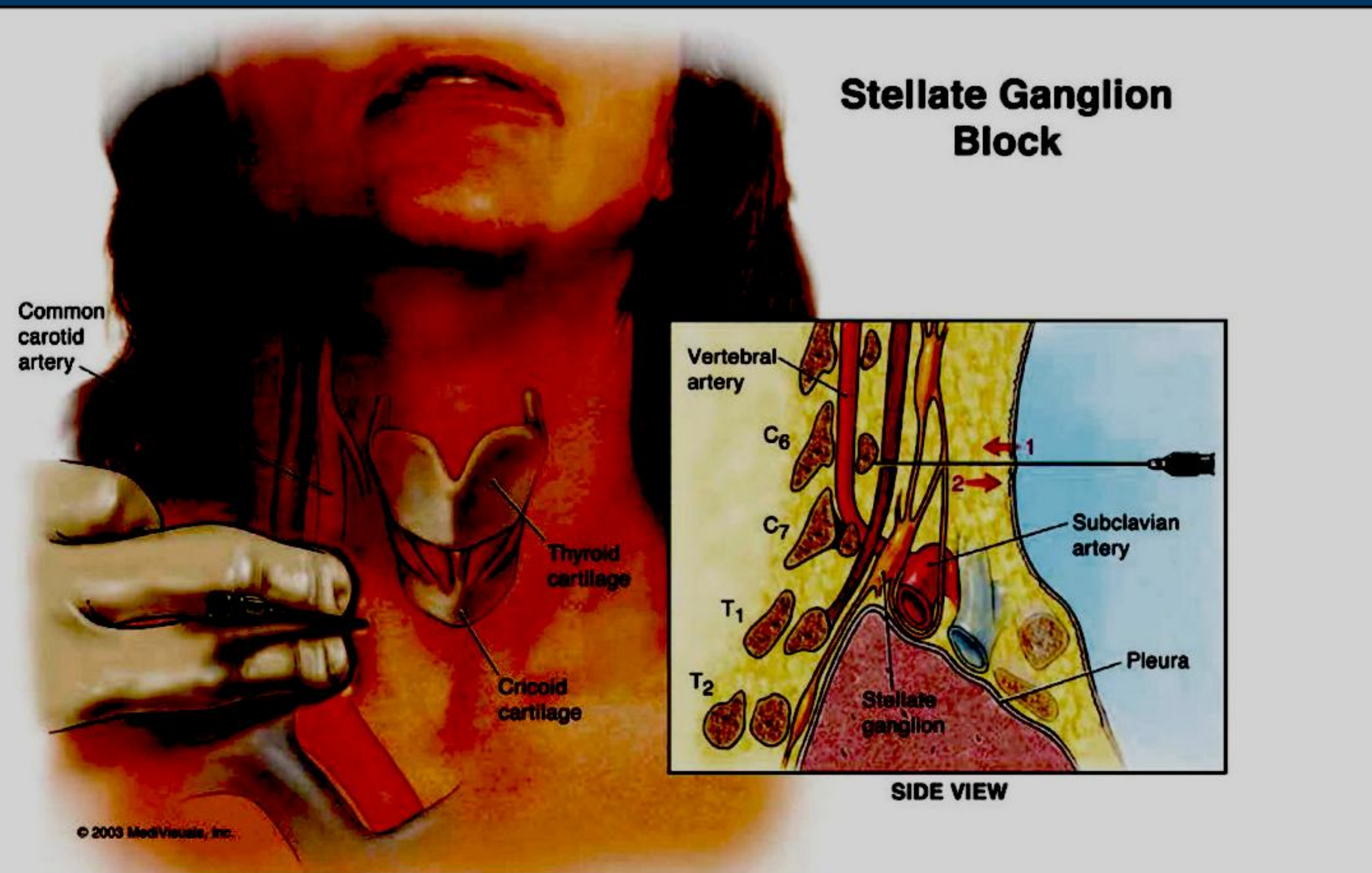
Complexity of Sympathetic over-activity



How are sympathetic blocks performed

- **Landmark guidance**
 - With anatomical landmarks
- **Fluoroscopic guidance**
 - Special area
 - Radiation hazards
 - Not OPD procedure

Landmark



Fluoroscopy



Ultrasound sympathetic blocks

Where do we stand

- Multiple advantages of ultrasound nerve blocks
- However limited data on ultrasound sympathetic block
- Mainly due to technical difficulties
- *Lets look at the evidence*

Ultrasound stellate ganglion block

Safety & Accuracy of USG Stellate Ganglion Block

Anesthetic Techniques in Pain Management (D Wang, Section Editor) | Published: 24 April 2014

Ultrasound-Guided Stellate Ganglion Block: Safety and Efficacy

[Samer Narouze](#) 

[Current Pain and Headache Reports](#) **18**, Article number: 424 (2014) | [Cite this article](#)

3166 Accesses | **59** Citations | **10** Altmetric | [Metrics](#)

Ultrasound-guided SGB may also improve the safety of the procedure by direct visualization of vascular structures (inferior thyroidal, cervical, vertebral, and carotid arteries) and soft tissue structures (thyroid, esophagus, and nerve roots). Accordingly, the risk of vascular and soft tissue injury may be minimized.

Complications associated with stellate ganglion nerve block: a systematic review

260 pts

Vasudha Goel,¹ Amol M Patwardhan,¹ Mohab Ibrahim,¹ Carol L Howe,² David M Schultz,³ Hariharan Shankar⁴

Systemic complications

Hoarseness*	73
Light-headedness	20
Hypertension	13
Brachial plexus block	12
Dysphagia	11
Cough	7†

Local complications

Hematoma	41
Blood aspiration	20*
Intrathoracic bleeding†	7
Pneumothorax	3
Infection	3
Bradycardia	2



ultrasound stellate ganglion block



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TEXT AVAILABILITY



Abstract



1

Cite

Electrical storm treatment by percutaneous stellate ganglion block: the STAR study.

Savastano S, Baldi E, Compagnoni S, Rordorf R, Sanzo A, Gentile FR, Dusi V, Frea S, Gravinese C, Cauti FM, Iannopollo G, De Sensi F, Gandolfi E, Frigerio L, Crea P, Zagari D, Casula M, Sangiorgi G, Persampieri S, Dell'Era G, Patti G, Colombo C, Mugnai G, Notaristefano F, Barengo A, Falcetti R, Perego GB, D'Angelo G, Tanese N, Currao A, Sgromo V, De Ferrari GM; STAR study group.

Eur Heart J. 2024 Mar 7;45(10):823-833. doi: 10.1093/eurheartj/ehae021.

PMID: 38289867 **Free PMC article.**

Despite initial encouraging reports about the safety and effectiveness of percutaneous **stellate ganglion block** (PSGB), many questions remained unsettled and evidence from a prospective multicentre study was still lacking. ...STAR operators were specifically t ...



2

Cite

A Review of Stellate Ganglion Block as an Adjunctive Treatment Modality.

Kirkpatrick K, Khan MH, Deng Y, Shah KB.

Cureus. 2023 Feb 19;15(2):e35174. doi: 10.7759/cureus.35174. eCollection 2023 Feb.

PMID: 36949968 **Free PMC article.** [Review.](#)

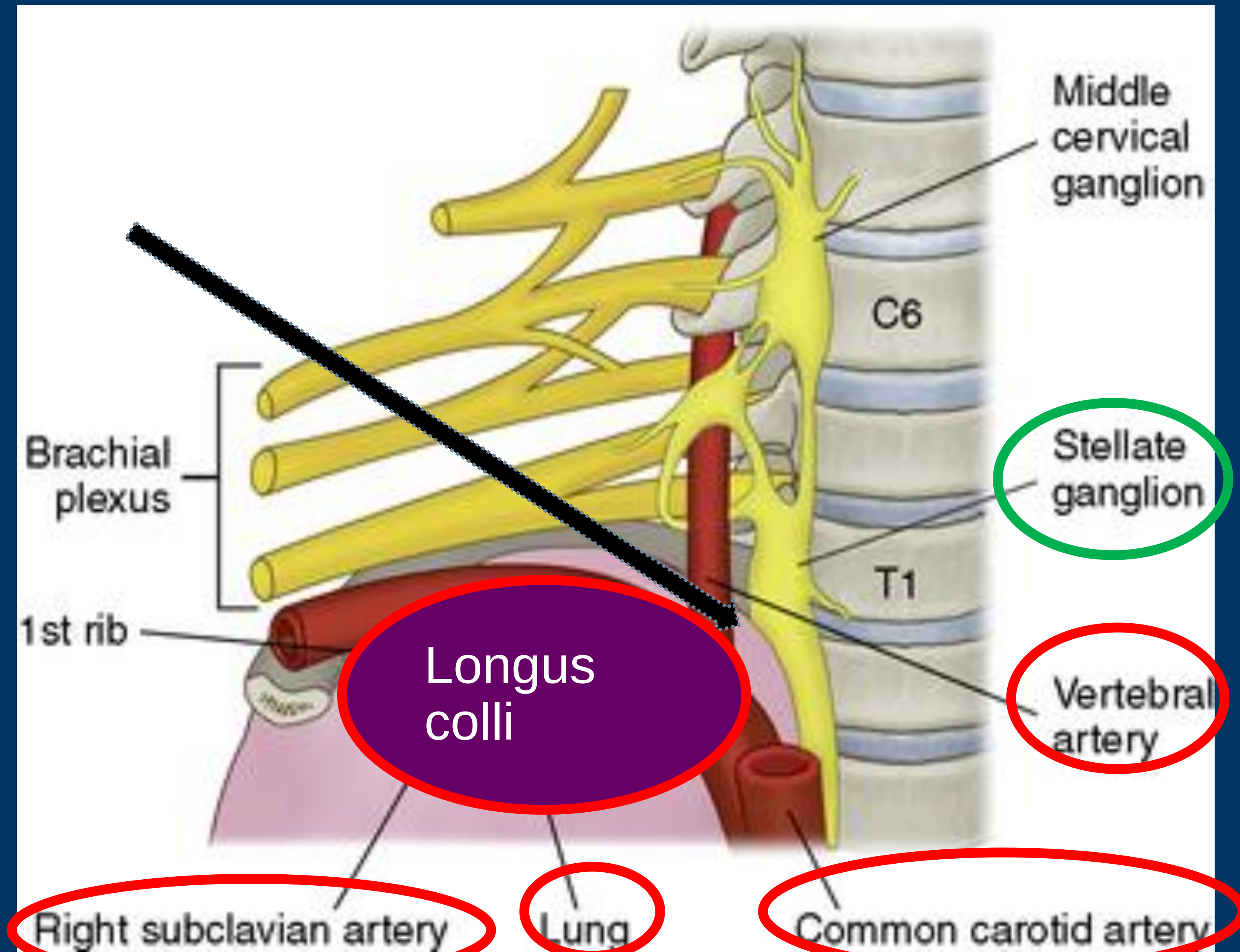
Right stellate ganglion blocks (RSGB) are a specific type of peripheral nerve block that target the sympathetic blockade of neuronal impulses using the injection of local anesthetic and steroids.

Raynauds phenomena/RSD

Cardiac arrythmias/Vasospasm/traumatic brain injury/PTSD/Colorectal

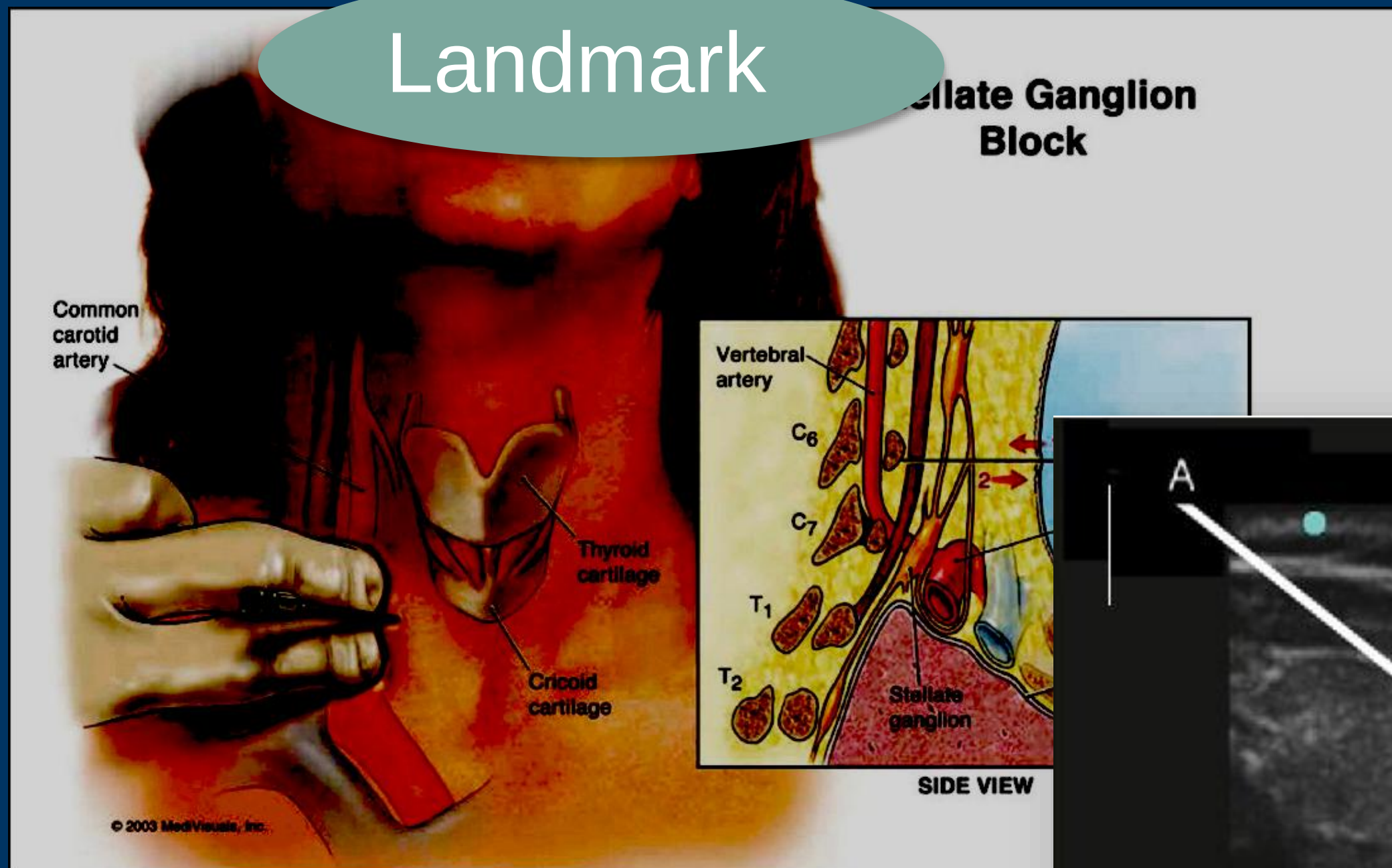
surgery/Lung surgery

Stellate ganglion

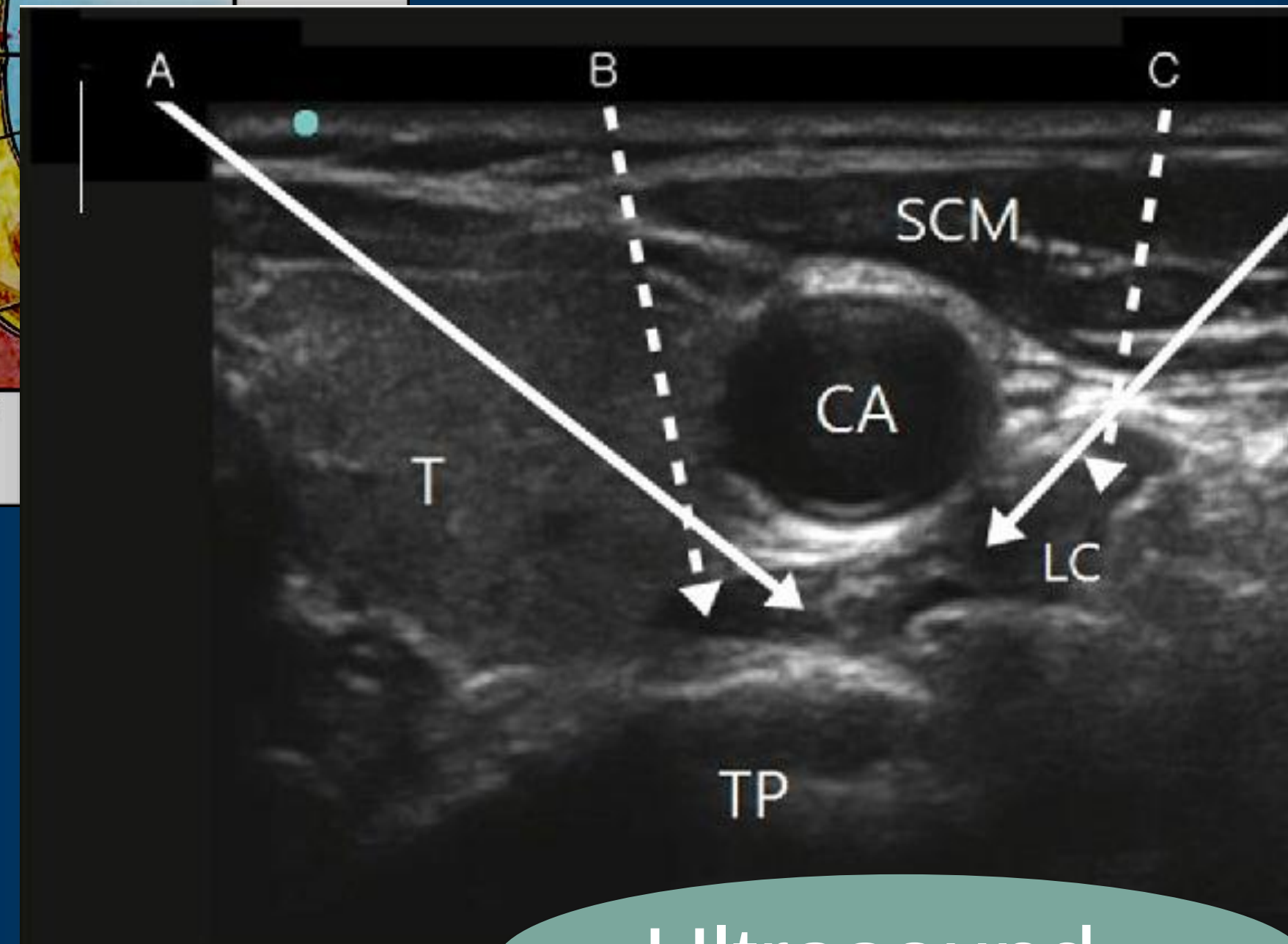
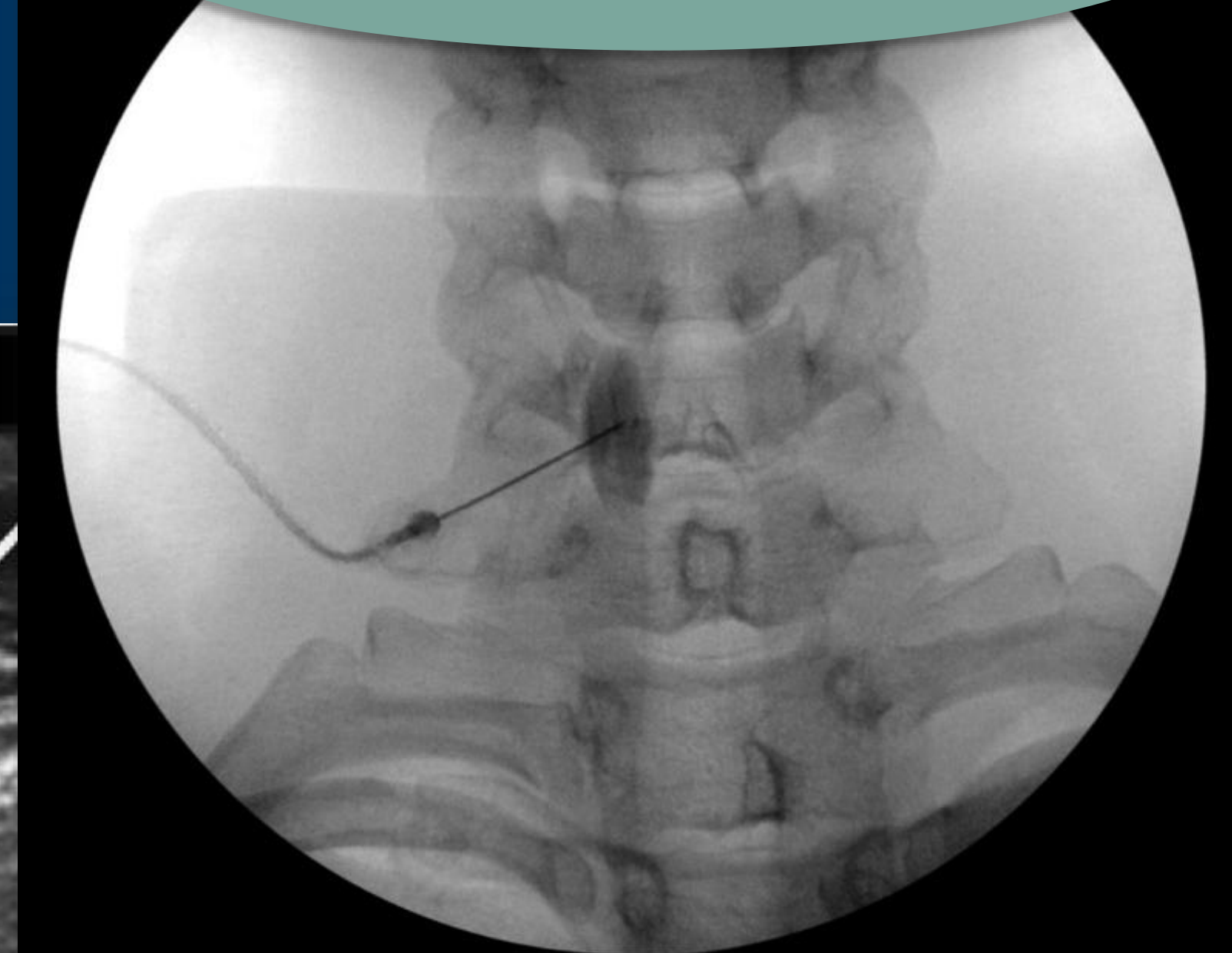


Techniques: Stellate ganglion block

Landmark



Fluoroscopy

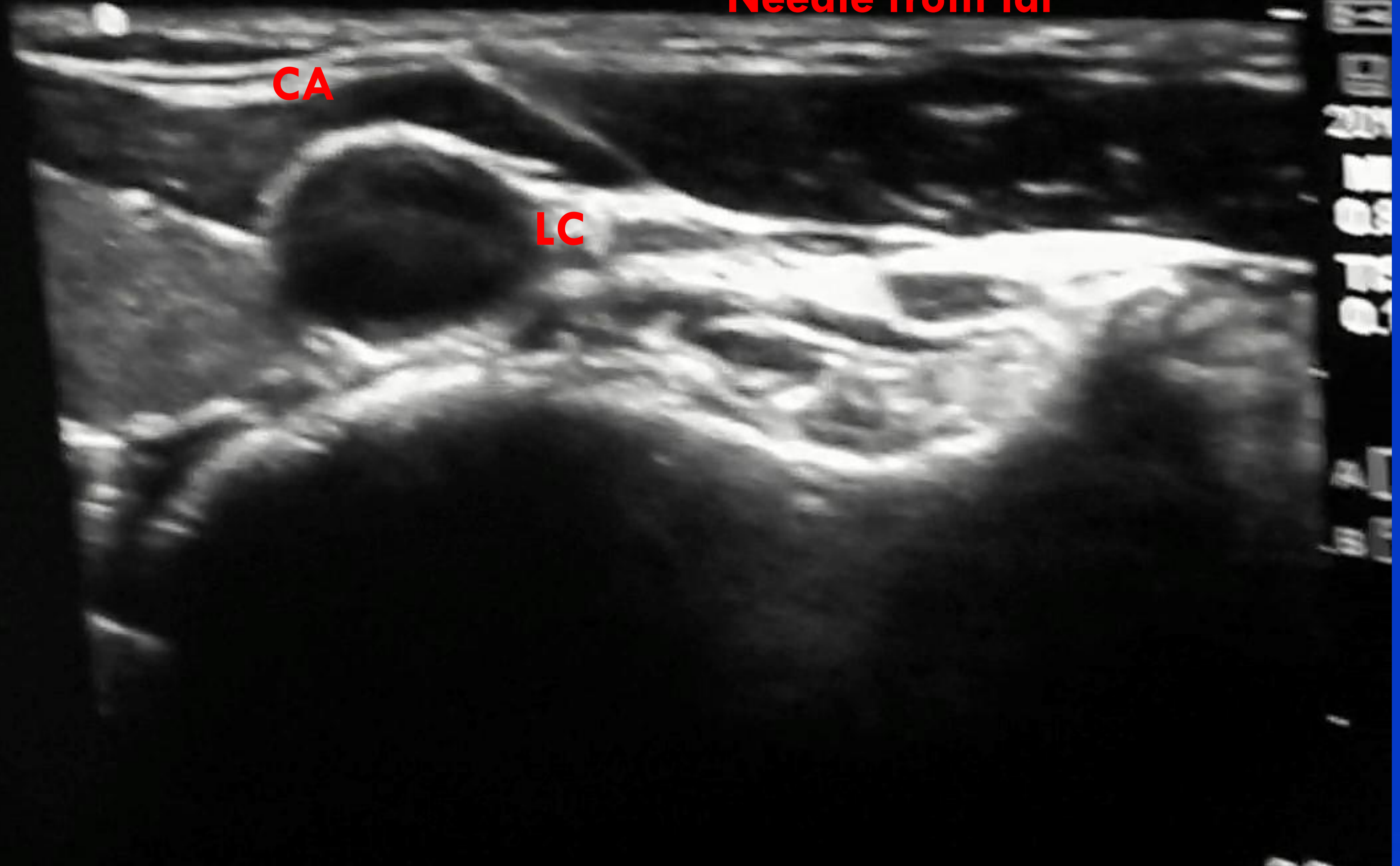


Ultrasound

Needle from lat

CA

LC



Multiple bilateral ultrasound-guided stellate ganglion blocks to treat acute vasculitis in a recently diagnosed patient of systemic lupus erythematosus

[Jyotsna Punj](#)

- Admitted for 35 days/ **64 Bilateral USG SGB injections: Ropivacaine + Clonidine**
- R SGNB catheter placed 3 times/Average catheter time : 3-5 days/Lower limb: Continuous infusion once for 3 days; marked improvement
- Single shot epidural block twice/ Total dose of ropivacaine infusion calculated at all times

Patient monitored in recovery before discharge to skin ward



Multiple subarachnoid and bilateral stellate ganglion blocks in a child with newly diagnosed mixed connective tissue disease

Jyotsna Punj¹, Neha Pangasa¹, Samridhi Nanda¹, Narendra K Bagri²

Affiliations + expand

PMID: 35903593 PMCID: PMC9316674 DOI: 10.4103/ija.ija_842_21

No abstract available

[PubMed Disclaimer](#)

Conflict of interest statement

There are no conflicts of interest.

Figures



Sympathetic Blocks for Raynaud's Phenomena in Pediatric Rheumatological Disorders

Jyotsna Punj ¹, Heena Garg ¹, Gaurav Gomez ¹, Narendra Kumar Bagri ², Jay Prakash Thakur ¹, Longjam Darendrajit Singh ¹, Dhruv Jain ¹, V Darlong ¹, R Pandey ¹

Affiliations + expand

PMID: 35135008 DOI: 10.1093/pm/pnac015



Thoracic sympathetic ganglion block

- Deep seated
- Close to heart

10ml 0.25% ropivacaine



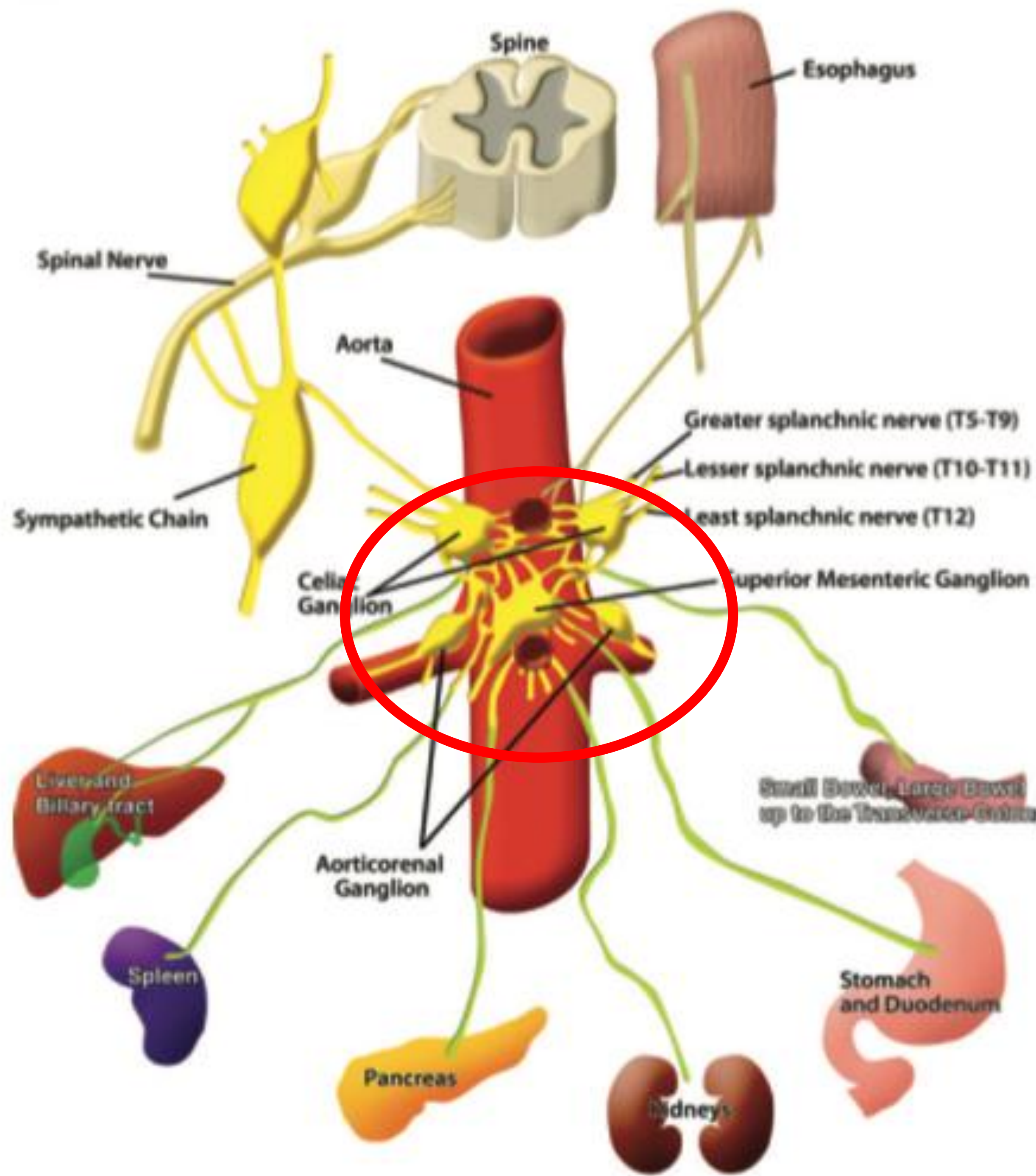
- **Modification**

- Large volume of LA /10-15 ml in stellate ganglion block
- Make patient upright after block
- Check under fluoroscopy

5 minutes post block



Ultrasound Celiac plexus block



- Largest ganglion
- Sympathetic nerves from T5-T12
- Lies T12-L1
- Supplies all abd organs Abdominal pain & cancers

➤ [Br J Anaesth.](#) 1989 Jun;62(6):637-40. doi: 10.1093/bja/62.6.637.

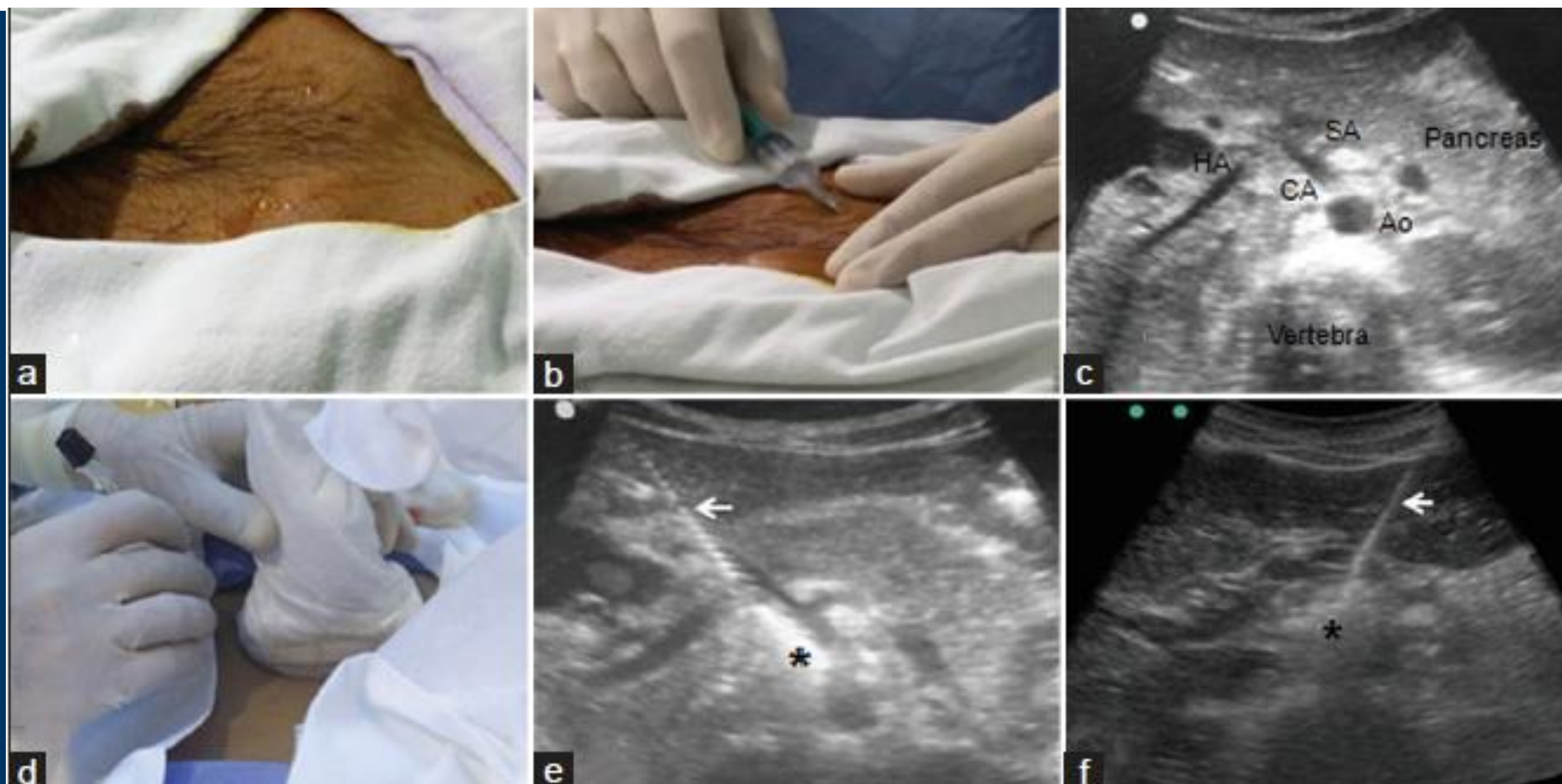
Percutaneous anterior approach to the coeliac plexus using ultrasound

A Montero Matamala ¹, F Vidal Lopez, J L Aguilar Sanchez, L Donoso Bach

A Systematic Approach to Give Bedside Ultrasound-guided Celiac Plexus Block

Ekta Dhamija, Indermohan Khandelwal, Sushma Bhatnagar¹, Sanjay Thulkar

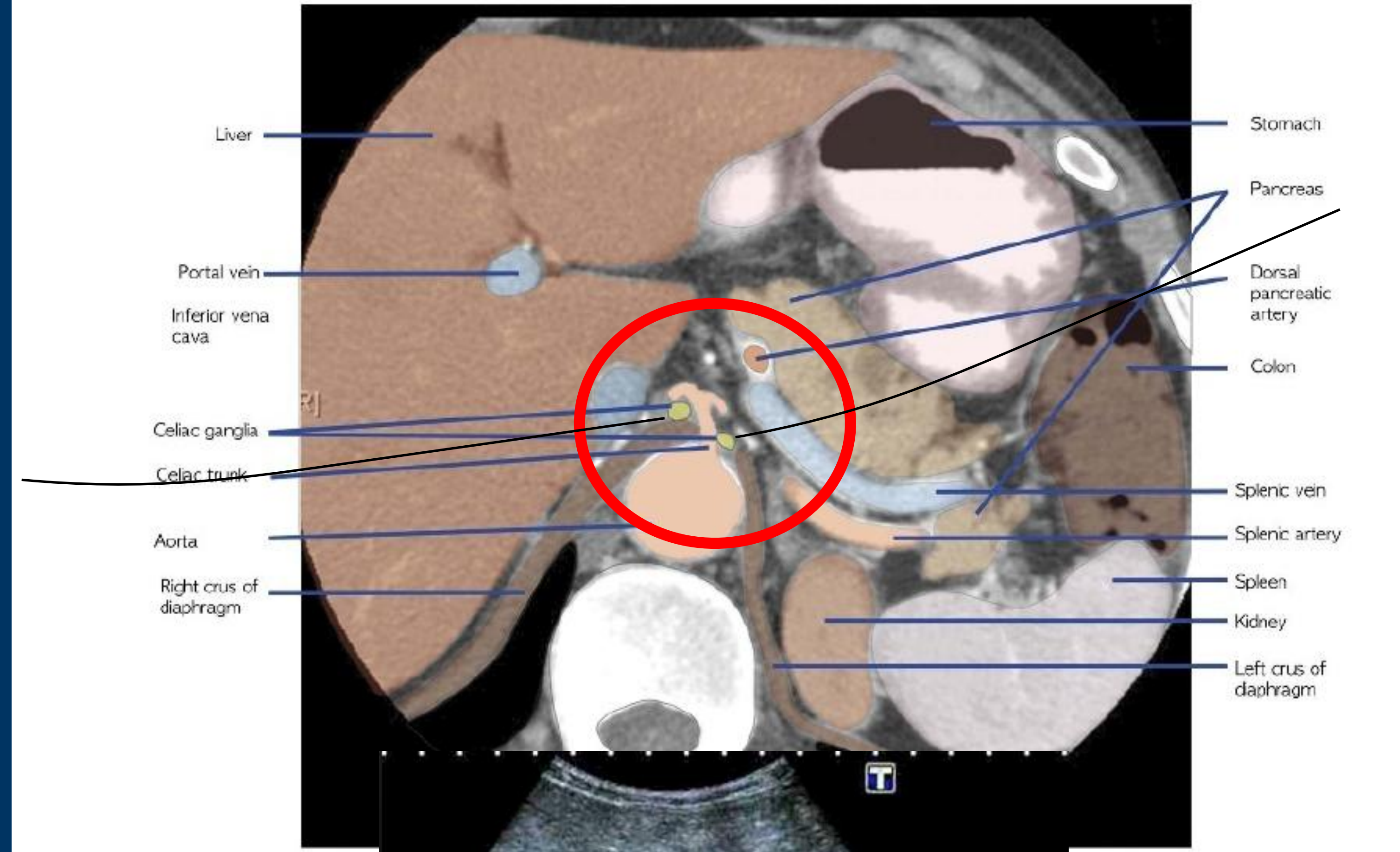
Departments of Radiodiagnosis and ¹Onco-Anaesthesia and Palliative Care, Dr. B.R.A Institute Rotary Cancer Hospital, All India Institute of Medical Sciences, New Delhi, India



Epub 2013 Aug 15.

Bedside ultrasound-guided celiac plexus neurolysis in upper abdominal cancer patients: a randomized, prospective study for comparison of percutaneous bilateral paramedian vs. unilateral paramedian needle-insertion technique

Sushma Bhatnagar¹, Saurabh Joshi, S P S Rana, Seema Mishra, Rakesh Garg, Syed M Ahmed



Look for seagull sign below xiphisternum; celiac artery divides into hepatic & splenic artery



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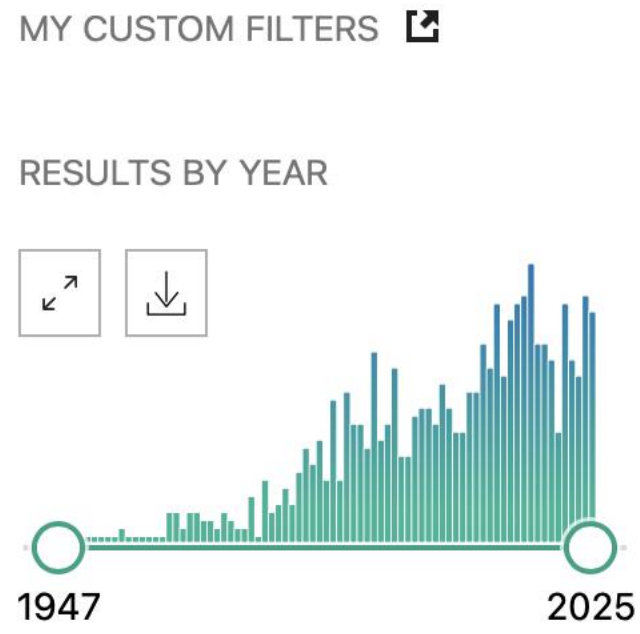
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- ☐ **Celiac Plexus Block - An Old Technique with New Developments.**
1 Vig S, Bhan S, Bhatnagar S.
Cite Pain Physician. 2021 Aug;24(5):379-398.
PMID: 34323439 **Free article.** Review.
BACKGROUND: **Celiac plexus block** (CPB) is an interventional technique known to be the management of abdominal pain caused by pancreatic cancer. ...METHODS: PubMed was searched for **celiac plexus block**, **celiac** ...
- ☐ **Celiac Plexus Block and Neurolysis: A Review.**
2 Sachdev AH, Gress FG.
Cite Gastrointest Endosc Clin N Am. 2018 Oct;28(4):579-586. doi: 10.1016/j.giec.2018.06.001.
2018 Aug 3.
PMID: 30241645 Review.
Celiac plexus block is a transient interruption of the **plexus** by local anesthetic, while neurolysis is prolonged interruption of the transmission of pain from the **celiac plexus** chemical ablation. **Celia** ...
- ☐ **Celiac plexus block in the management of chronic abdominal pain**

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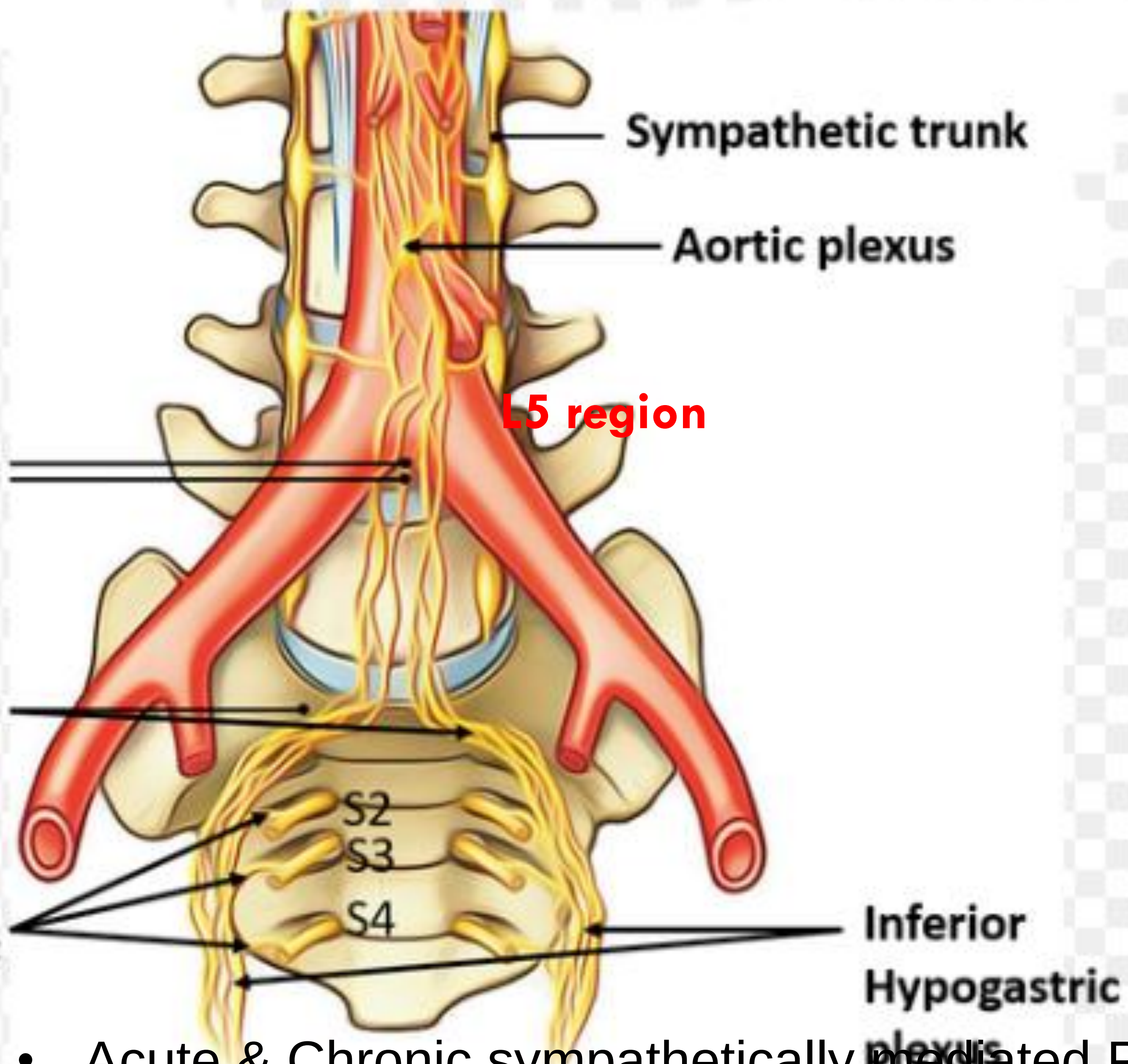
☐ **Endoscopic ultrasound-guided celiac plexus block and neurolysis.**
1 Yasuda I, Wang HP.
Cite Dig Endosc. 2017 May;29(4):455-462. doi: 10.1111/den.12824. Epub 2017 Mar 9.
PMID: 28160344 Review.
Endoscopic **ultrasound**-guided **celiac plexus** neurolysis (EUS-CPN) is widely used for reducing pain originating from upper abdominal organs. ...The classic approach, known as the central technique, involves injection of a neurolytic agent at the base of the c ...

☐ **Endoscopic ultrasound-guided celiac plexus block for painful chronic pancreatitis: A systematic review and meta-analysis.**
2 Machicado JD, Tanner S, Adoor D, Chalhoub JM, Plann-Curley B, Lee UJ, Bang JY, Varadarajulu S, Wilcox CM; US Pancreatic Disease Study Group.
Cite Pancreatology. 2025 Sep;25(6):860-867. doi: 10.1016/j.pan.2025.08.006. Epub 2025 Aug 9.
PMID: 40813224 **Free article.**
BACKGROUND: The efficacy of endoscopic **ultrasound**-guided **celiac plexus block** (EUS-CPB) for treatment of pain in chronic pancreatitis (CP) is unclear. ...

☐ **Effect of endoscopic ultrasound guided celiac plexus block on the palliation of**

Studies on celiac plexus block

Publication	Target	Imaging	Study Design	N	Findings	Complications
Eisenberg et al ²⁷	CPB	N/A	Meta-analysis	N/A	70%–90% visceral upper abdominal cancer respond well to CPB	N/A
Erdek et al ²⁸	CPB	CT guided, fluoroscopy	Retrospective review	45	CPB may provide intermediate relief to cancer patients with lower opioid use and short disease duration	None reported
Ischia et al ²⁹	CPB	Fluoroscopy	Prospective randomized clinical trial	61	48% with CPB had complete pain reduction	Orthostatic hypotension, transient diarrhea, dysesthesia, back pain, pleurisy, hematuria, hiccoughing
Wong et al ³⁰	CPB	Fluoroscopy	Randomized, double-blind clinical trial	100	Significant pain reduction but no improvement in quality of life or survival	None reported
Lillemoe et al ³¹	CPB	None	Prospective, randomized, double-blind clinical trial	137	Significant reduction in pain score for those with CPB	None
Gress et al ³²	CPB	US vs CT	Prospective, single-blind, randomized trial	18	US provided more persistent pain relief	None
Santosh et al ³³	CPB	US vs fluoroscopy	Prospective RCT	56	US provided significantly more pain relief	Postural hypotension, diarrhea
Marcy et al ³⁴	CPB	US vs CT	Retrospective review	34	Technical success rate was equal between US and CPG	Chemical peritonitis, orthostatic hypotension, left shoulder pain
Das and Chapman ³⁵	CPB	US	Prospective study	9	Significantly less sedation needed during gastrointestinal procedures	None



- Acute & Chronic sympathetically mediated Pelvic pain



superior hypogastric plexus block



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ultrasound guided superior hypogastric plexus block



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Superior Hypogastric Plexus Block for Pain Management Post-Hysterectomy: A Systematic Review and Meta-Analysis of Randomized Controlled Trials

Shama AAA, Elgarhy AMMM, Ewieda TMA, Ibrahim WME, Elsayed MM, Arafa MH, Yahia AHI, Almonayery DM, Abdelhakim AM, Abdelsalam MKA, Abbas AM, Sunoqrot M, Ahmed J Pain Palliat Care Pharmacother. 2022 Dec;36(4):233-241. doi: 10.1080/15360288.2022.2148888. Epub 2022 Aug 8.

PMID: 35939039

We aimed to evaluate the efficacy of **superior hypogastric plexus (SHP) block** in pain women undergoing hysterectomy. ...In conclusion, **superior hypogastric plexus block** reduces postoperative pain, opi ...



2

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A Comprehensive Update of the Superior Hypogastric Block for the Management of Chronic Pelvic Pain.

Urits I, Schwartz R, Herman J, Berger AA, Lee D, Lee C, Zamarripa AM, Slovek A, Habib Manchikanti L, Kaye AD, Viswanath O.

Curr Pain Headache Rep. 2021 Feb 25;25(3):13. doi: 10.1007/s11916-020-00933-0.

PMID: 33630172 [Review](#).

It then presents the **superior hypogastric block** and reviews the seminal and most recent evidence

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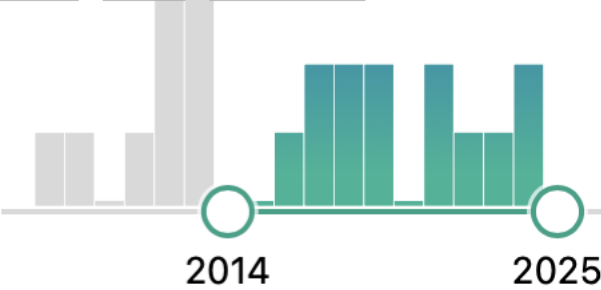
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Ultrasound-Guided Superior Hypogastric Plexus Block: A Cadaveric Feasibility Study with Fluoroscopic Confirmation.

Gofeld M, et al. Pain Pract. 2017. PMID: 26945508

Safety and efficacy of ultrasound-guided superior hypogastric plexus block combined with conscious sedation in ambulatory patients undergoing percutaneous microwave ablation of uterine myomas: Study protocol for a single-center, double-blinded, randomized controlled trial.

Yan L, et al. Heliyon. 2024. PMID: 38434068 [Free PMC article](#).

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1

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A Comprehensive Update of the Superior Hypogastric Block for the Management of Chronic Pelvic Pain.

Urits I, Schwartz R, Herman J, Berger AA, Lee D, Lee C, Zamarripa AM, Slovek A, Habib K, Manchikanti L, Kaye AD, Viswanath O.

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PMID: 33630172 [Review](#).

It then presents the **superior hypogastric block** and reviews the seminal and most recent evidence about its use in chronic pelvic pain. ...Interventional techniques provide an added layer of treatment as well as reduce the requirement for opioids. **Superior** ...

Prolonged relief of chronic pelvic pain by pulsed radiofrequency ablation of superior hypogastric plexus performed under ultrasound guidance: A case report

Jyotsna Punj¹, Mesha Srivastava¹

Affiliations + expand

PMID: 33162584 PMCID: [PMC7641073](#) DOI: [10.4103/ija.IJA_493_20](#)

[Free PMC article](#)

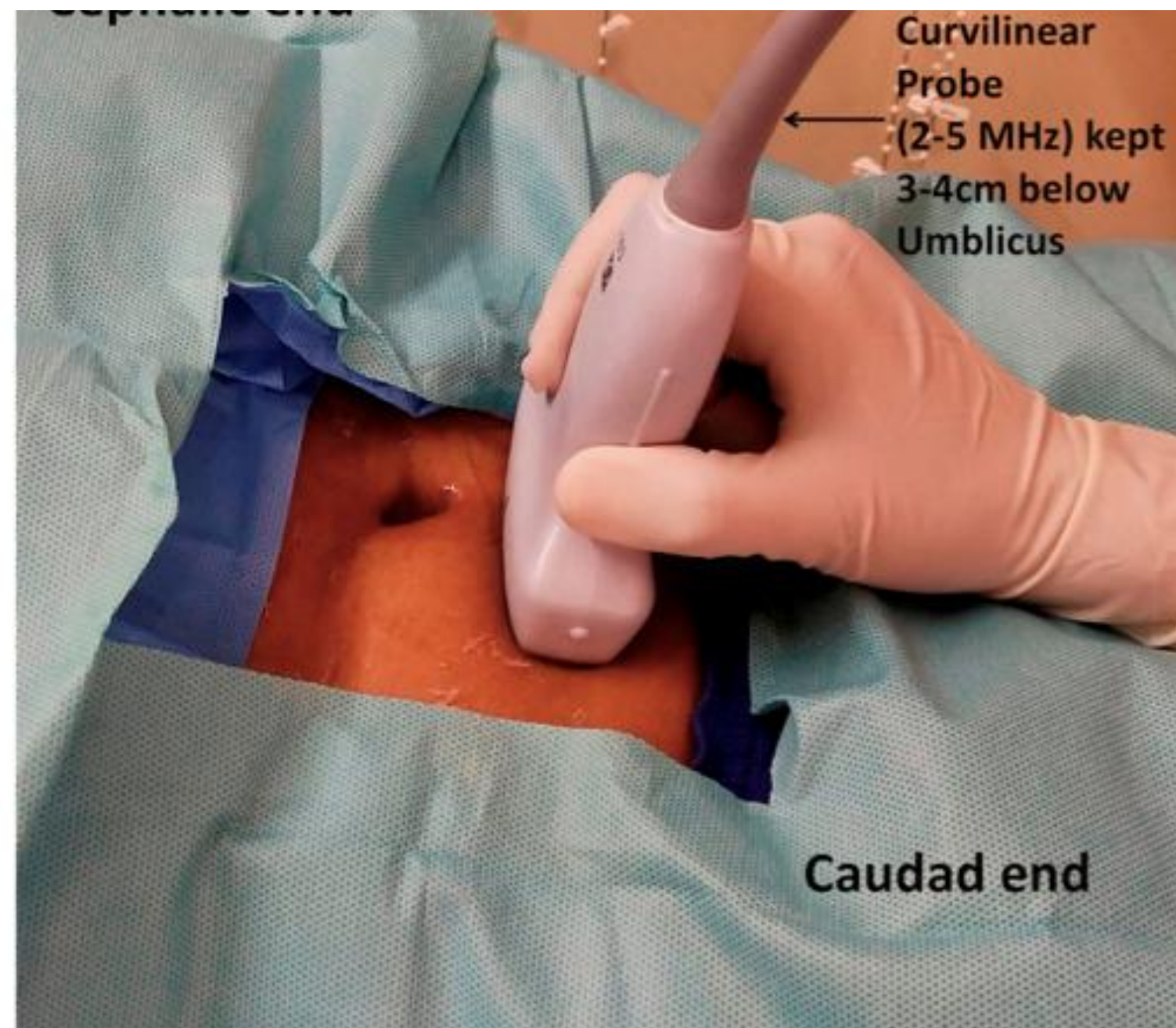
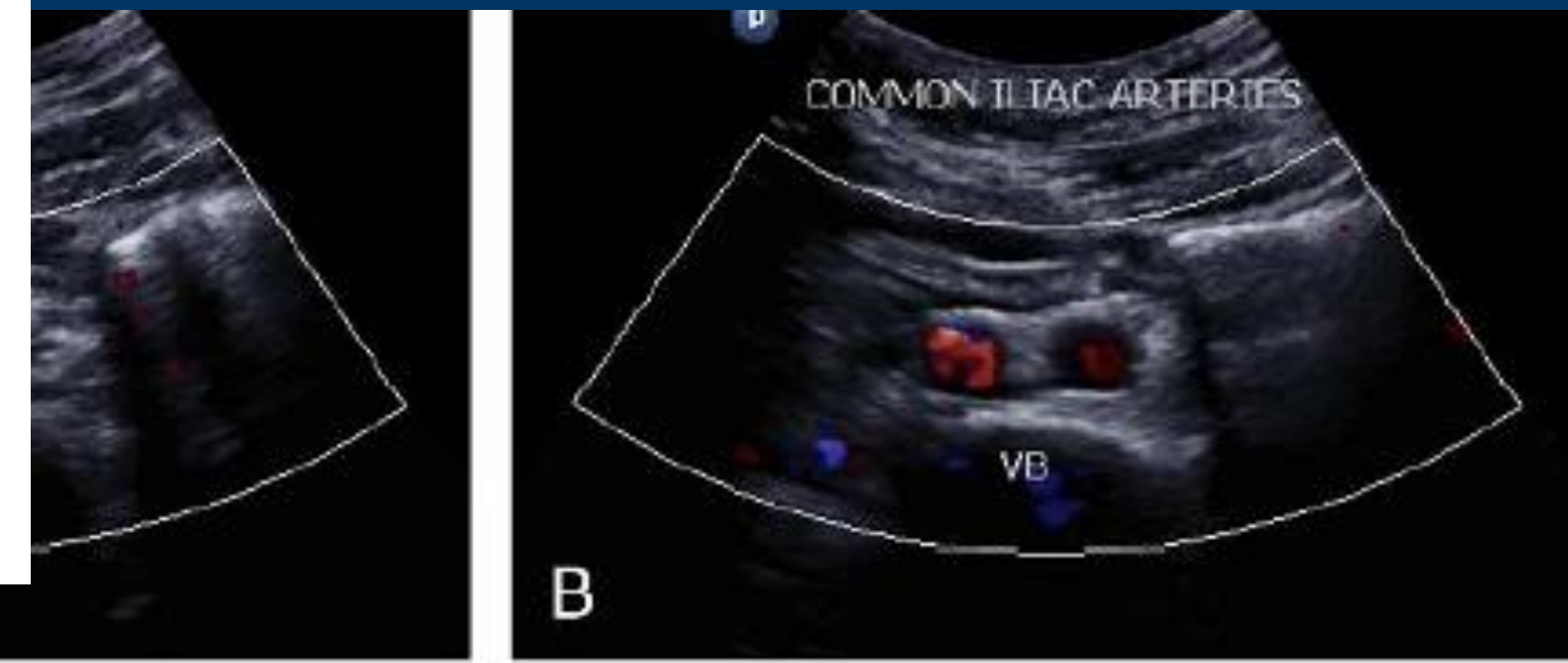
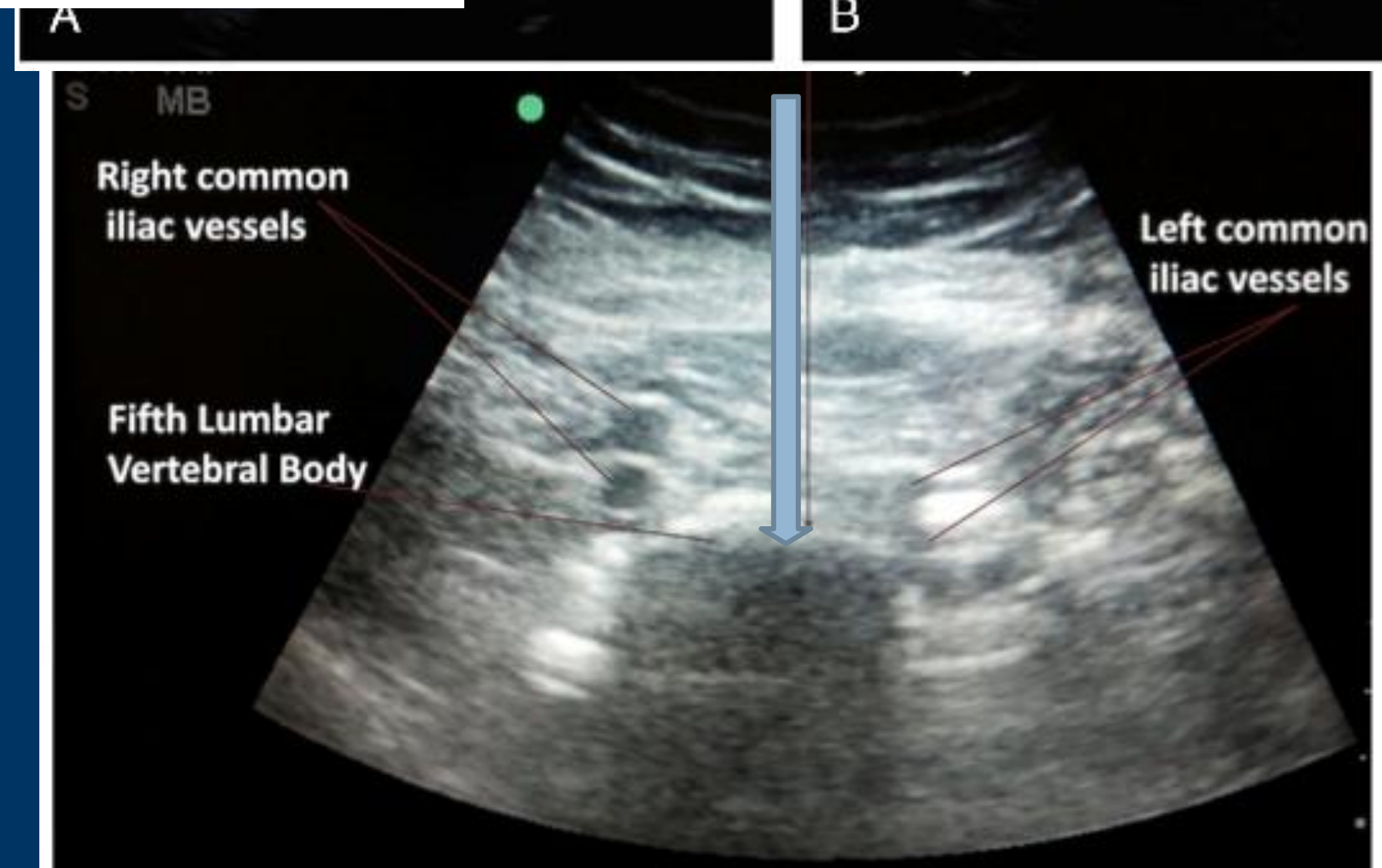
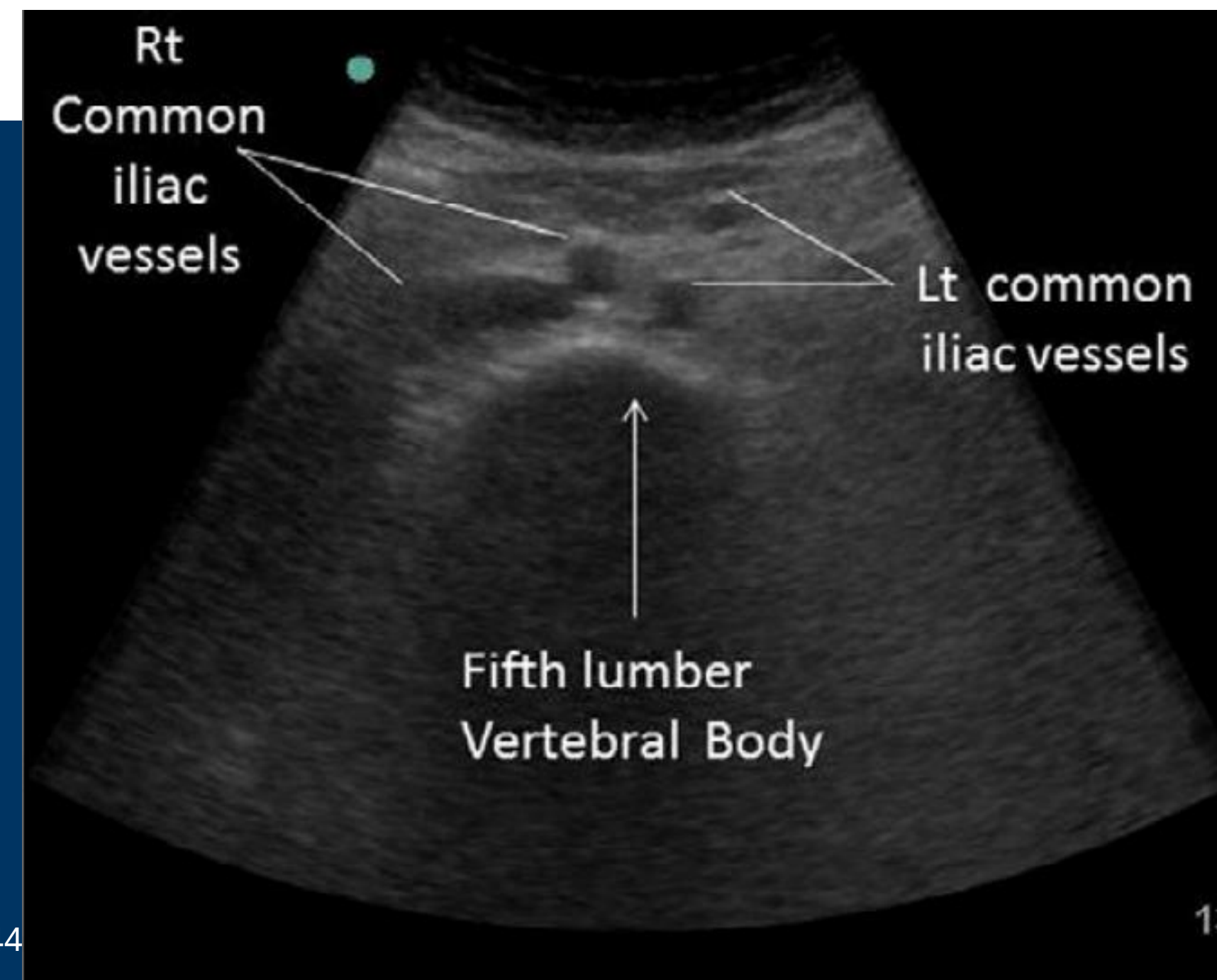
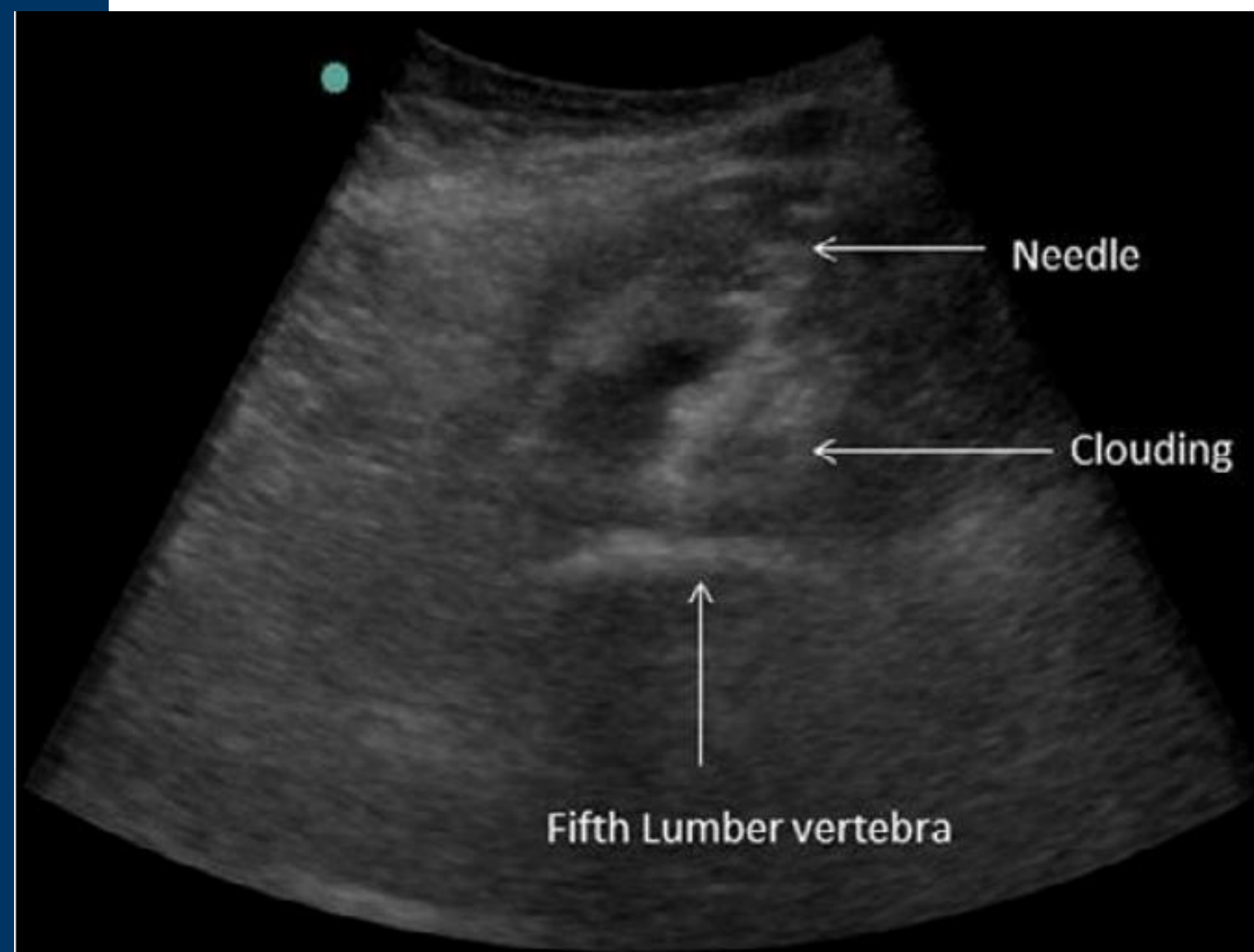


Figure 1. Curvilinear ultrasound probe (2-5MHz) kept in



Efficacy of the Anterior Ultrasound-Guided Superior Hypogastric Plexus Neurolysis in Pelvic Cancer Pain in Advanced Gynecological Cancer Patients

Seema Mishra, MD, Sushma Bhatnagar, MD, Shiv P. S. Rana, MD, Deepa Khurana, MD, Sanjay Thulkar, MD



➤ [J Pain Res.](#) 2021 May 27;14:1465-1473. doi: 10.2147/JPR.S308743. eCollection 2021.

The Role of Double Modality Ultrasonographic and Fluoroscopic Guided Superior Hypogastric Plexus Neurolysis in Treating Intractable Pelvic Cancer Pain: A Comparative Study

Ekramy M Abdelghafar ¹, Ahmed H Othman ², Mahmoud Salem Soliman ³, Ayman Kilany ⁴,
Mohammed H Shaaban ⁵, Ehab H Shaker ¹

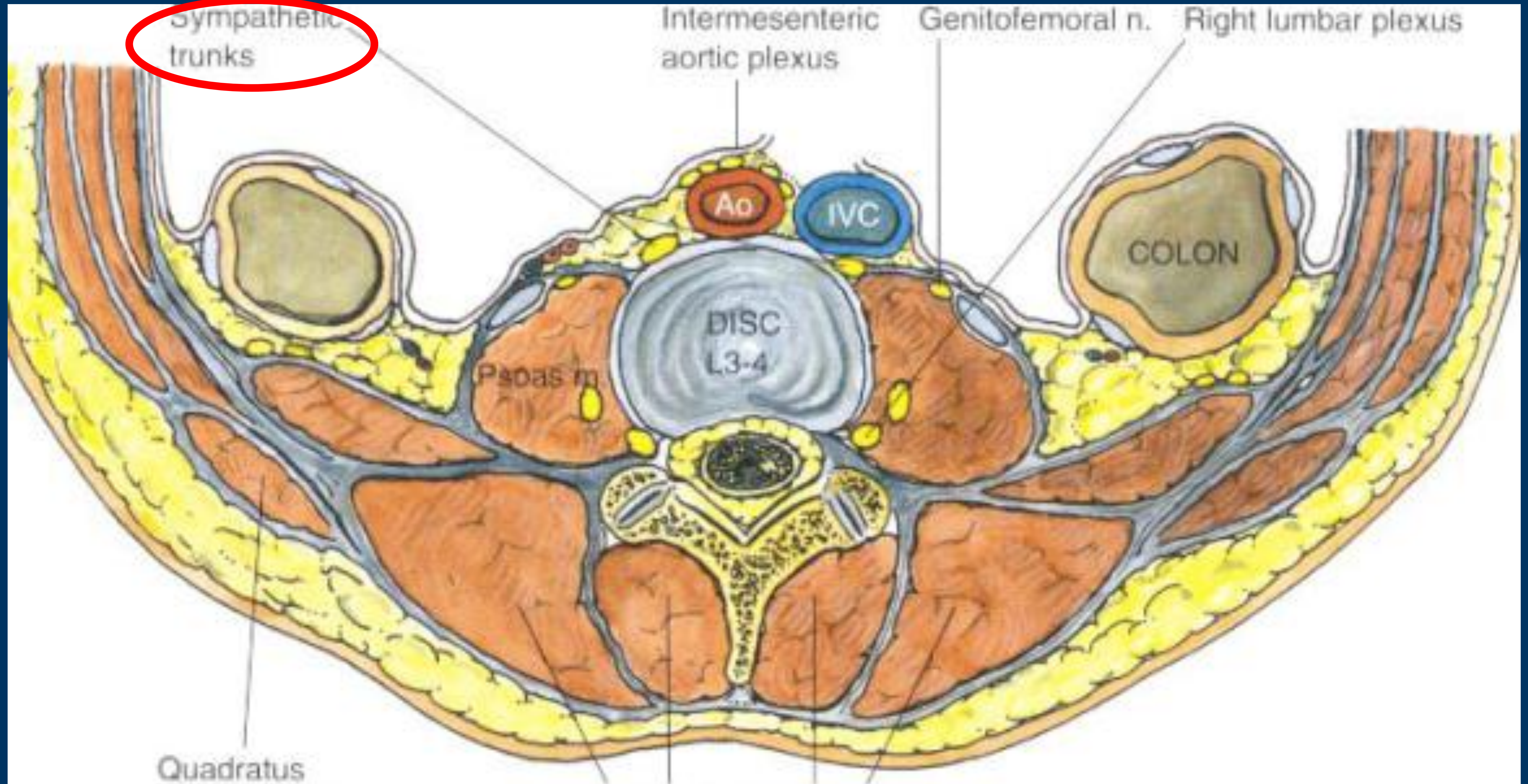
Affiliations  expand

➤ [Heliyon.](#) 2024 Feb 18;10(4):e26421. doi: 10.1016/j.heliyon.2024.e26421.
eCollection 2024 Feb 29.

Safety and efficacy of ultrasound-guided superior hypogastric plexus block combined with conscious sedation in ambulatory patients undergoing percutaneous microwave ablation of uterine myomas: Study protocol for a single-center, double-blinded, randomized controlled trial

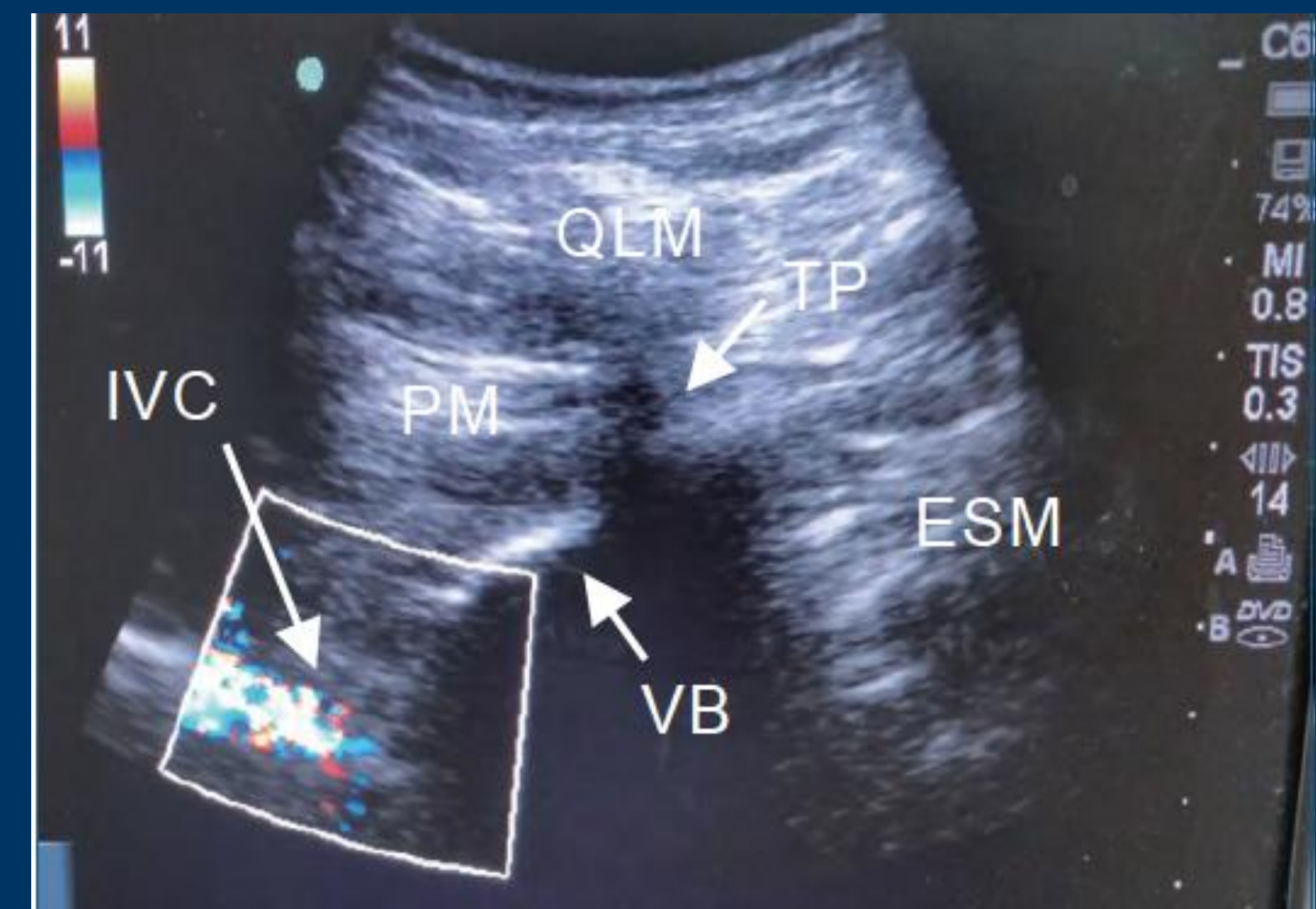
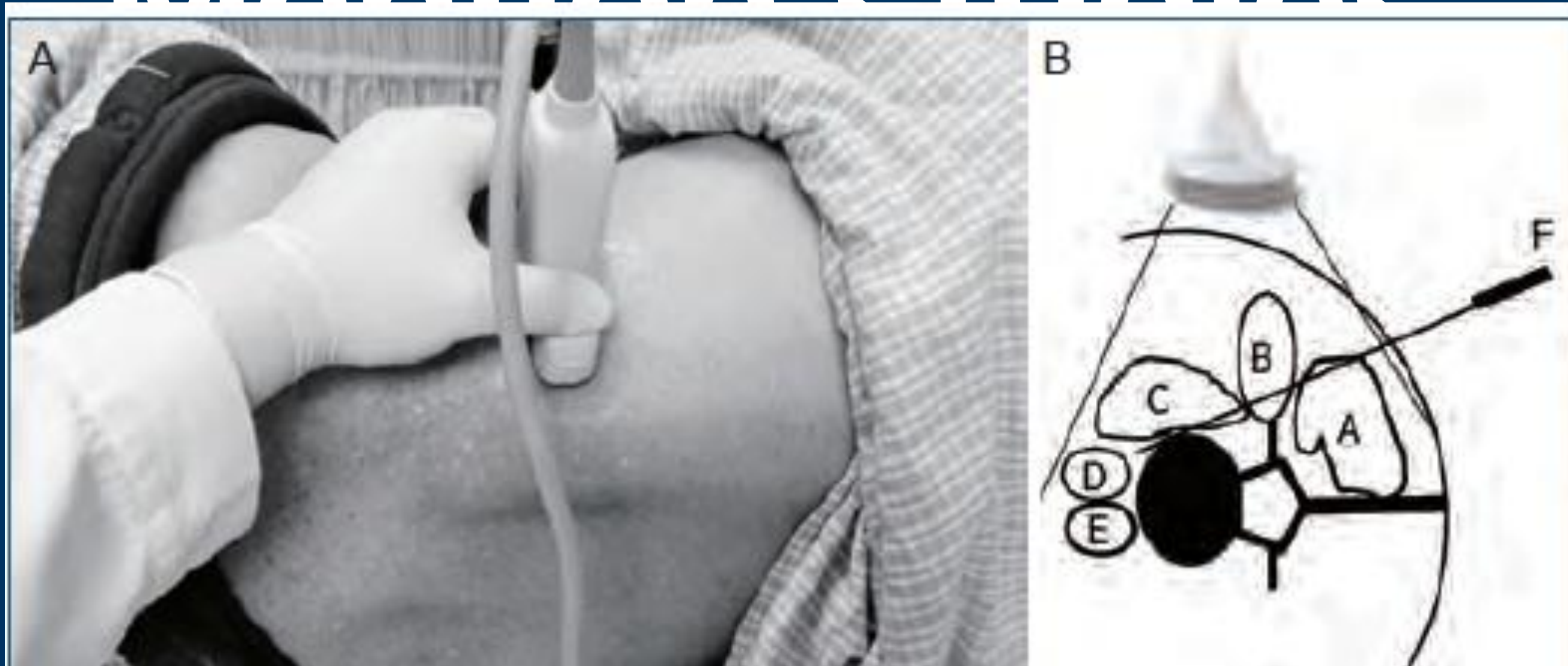
Lijuan Yan ¹, Xiao Wang ², Zuobing Zhang ², Zhibin Li ³, Laiting Chi ⁴, Lijuan Wang ⁵

Anatomy of lumbar sympathectomy chain



Ultrasound-Guided Lumbar Sympathetic Ganglion Blockade Using Shamrock Method: A Prospective Case Series

Dan-Xu Ma, Yun Wang, Meng-Meng Bao, Chen Zhang, Xue-Yang Li, An-Shi Wu, and Yun Yue



were >2.0 in 15 (55.6%) of 16 patients.

Conclusions: Ultrasound-guided LSGB can be reliably accomplished using the Shamrock method.

Ultrasound-Assisted Versus Fluoroscopic-Guided Lumbar Sympathetic Ganglion Block: A Prospective and Randomized Study

2018

Jung-Hee Ryu, MD, PhD,*† Chang Soon Lee, MD,‡ Yong-Chul Kim, MD, PhD,*‡ Sang Chul Lee, MD, PhD,*‡ Hariharan Shankar, MD, PhD,§ and Jee Youn Moon, MD, PhD‡||

Asian Journal of Surgery 45 (2022) 2382–2383



Contents lists available at ScienceDirect

Asian Journal of Surgery

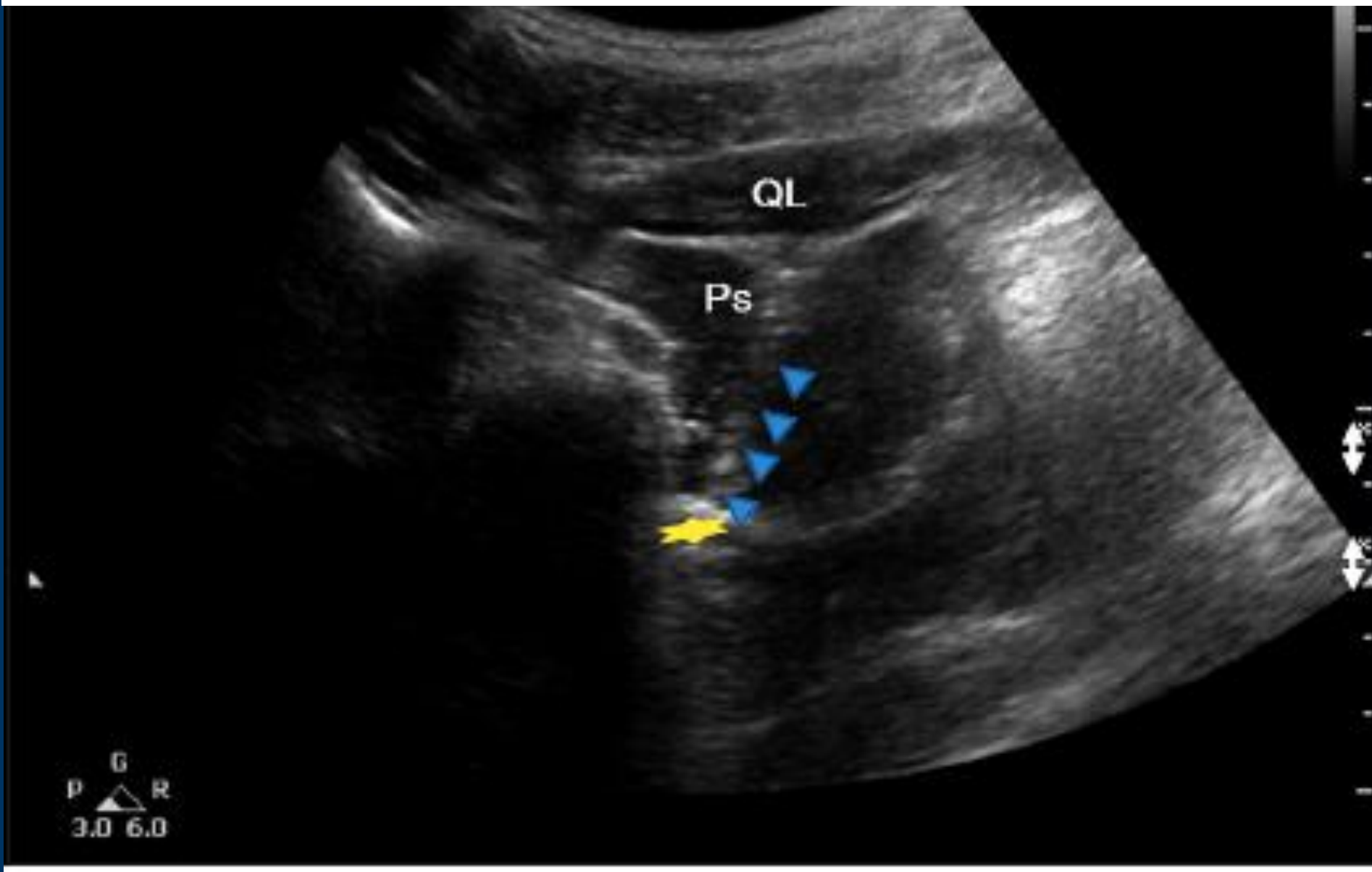
journal homepage: www.e-asianjournalsurgery.com



Letter to Editor

Ultrasound-guided lumbar sympathetic ganglion block: A visual teaching method

2022



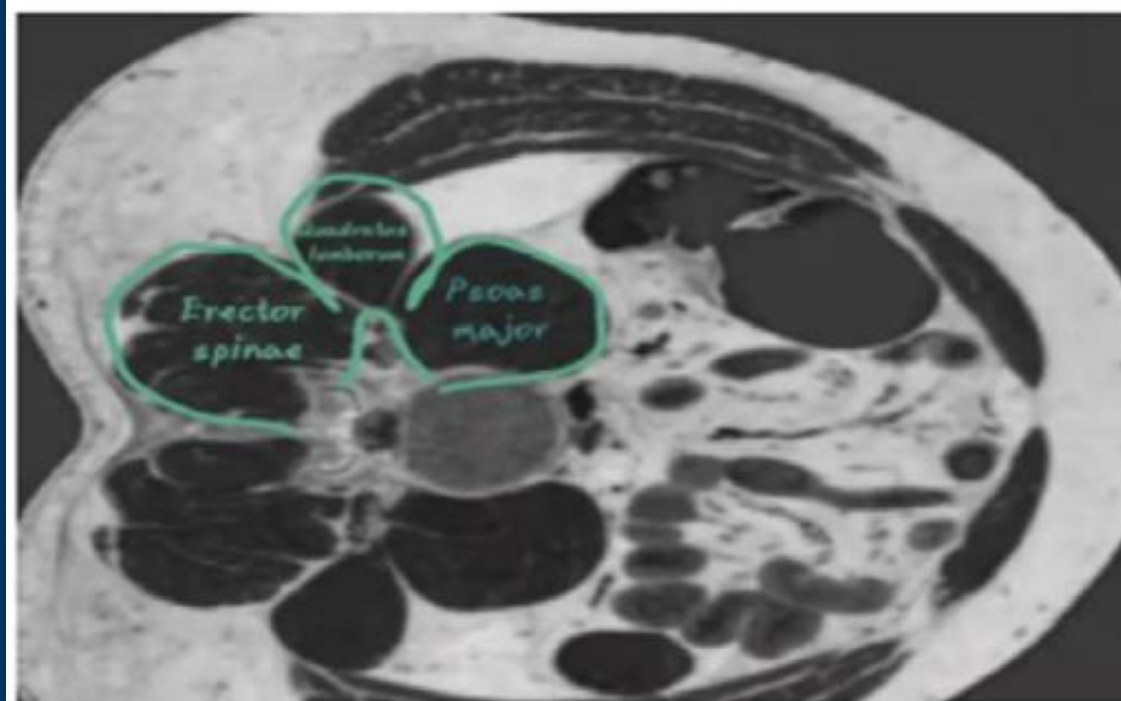
A brief report on a technical description of ultrasound-guided lumbar sympathetic block

¹Department of Anesthesiology and Pain Medicine, Seoul National University Hospital, Seoul National University College of Medicine, Seoul,

²Department of Anesthesiology and Pain Medicine, National Police Hospital, Seoul, Korea

³Department of Anesthesiology and Pain Medicine, Apollo Speciality Hospitals, OMR, Chennai, India

Jee Youn Moon¹, Jae Kyu Choi¹, Ji Yeon Shin², Sung Won Chon², and Sushmitha Dev^{1,3}



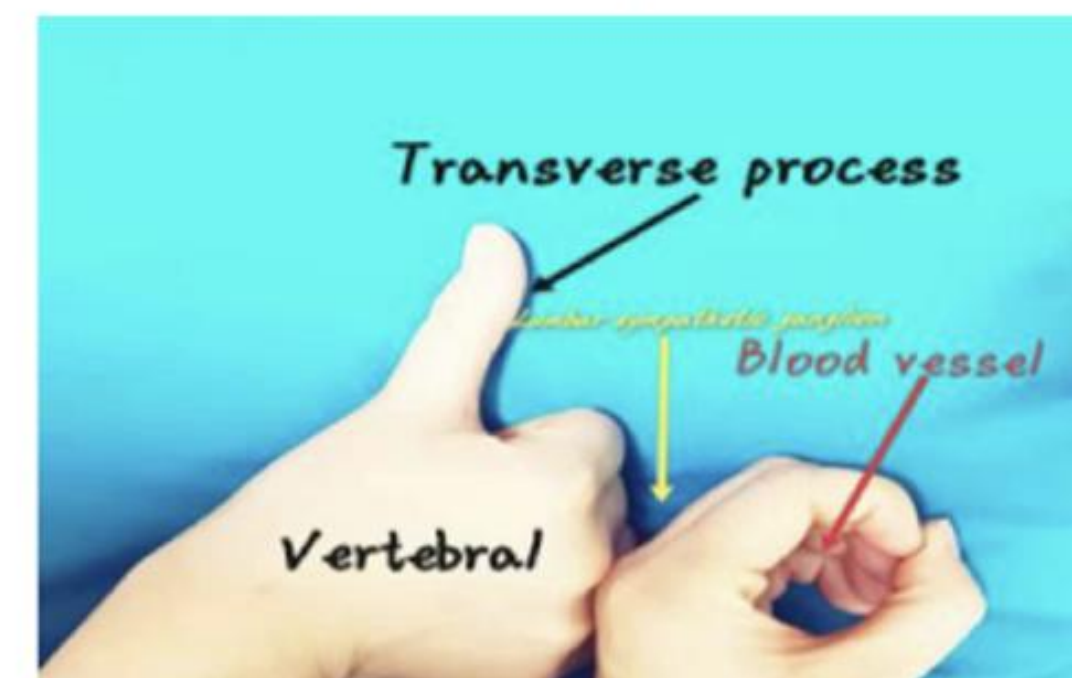
1. anatomical structure: "Shamrock"



2. The puncture position



3. "Shamrock" under ultrasound



4. gesture: Thumb up and fist

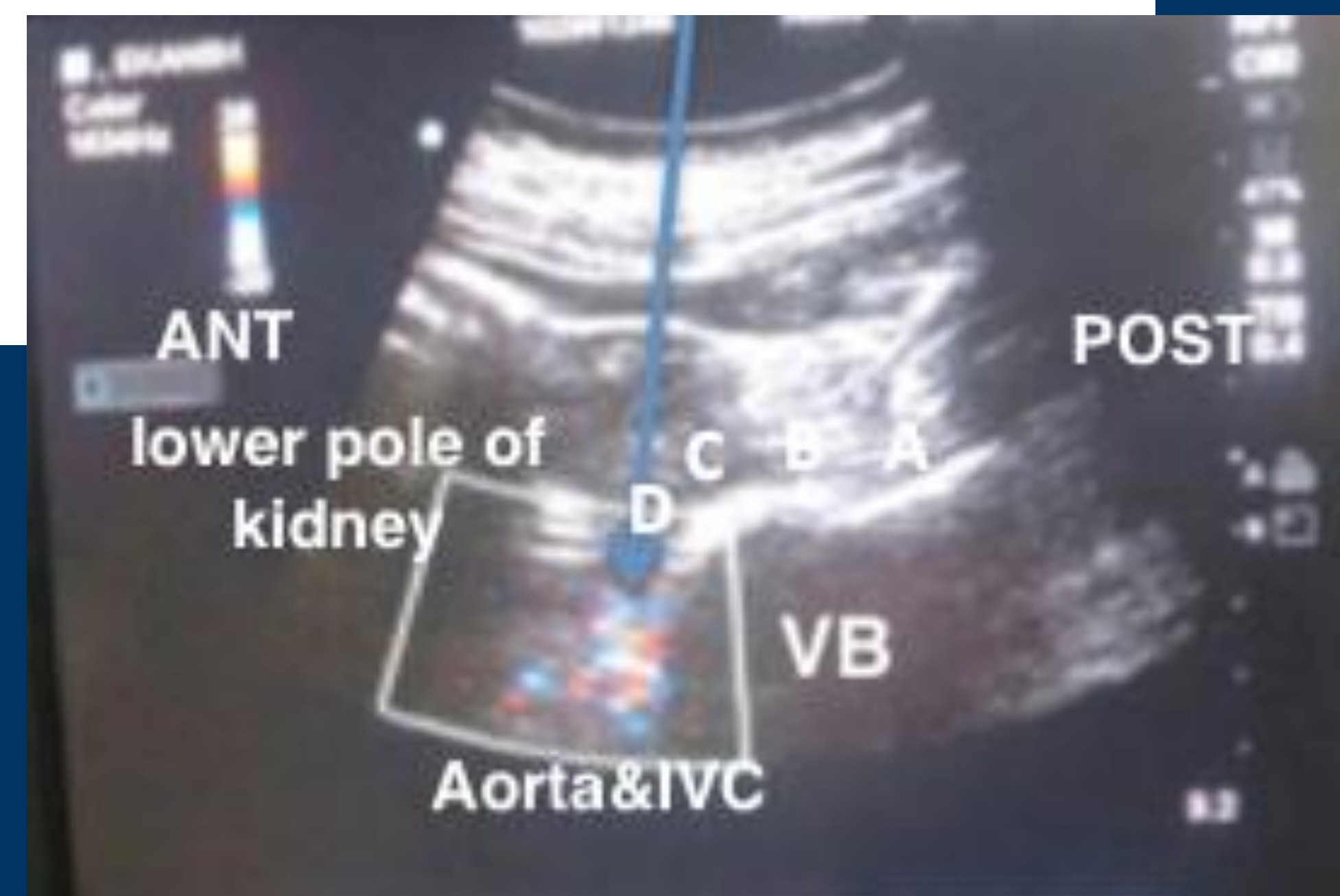
> [Pain Med.](#) 2022 May 4;23(5):873-877. doi: 10.1093/pm/pnab258.

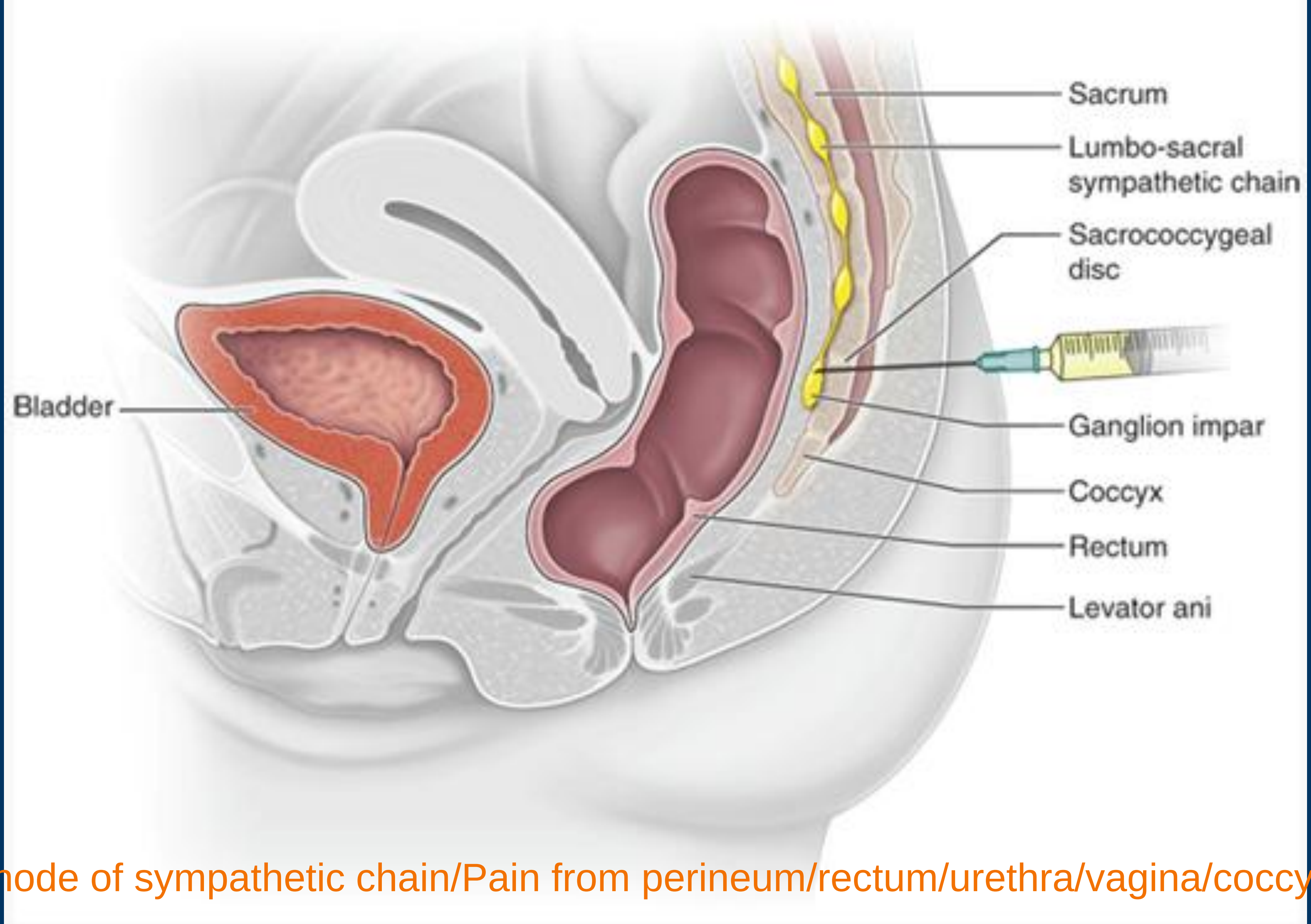
To Assess the Technical Feasibility of Ultrasound Lumbar Sympathetic Block with Electrical Stimulation Needle in Out-of-Plane Needle Orientation: A Prospective Interventional Study

Snehitha Marada ¹, Jyotsna Punj ¹, Anita Dhar ², Debesh Bhoi ¹, Virender Mohan ¹,
Anjan Trikha ¹, Ravindra Kumar Pandey ¹, Vanlal Darlong ¹

Affiliations + expand

PMID: 34402914 DOI: [10.1093/pm/pnab258](#)



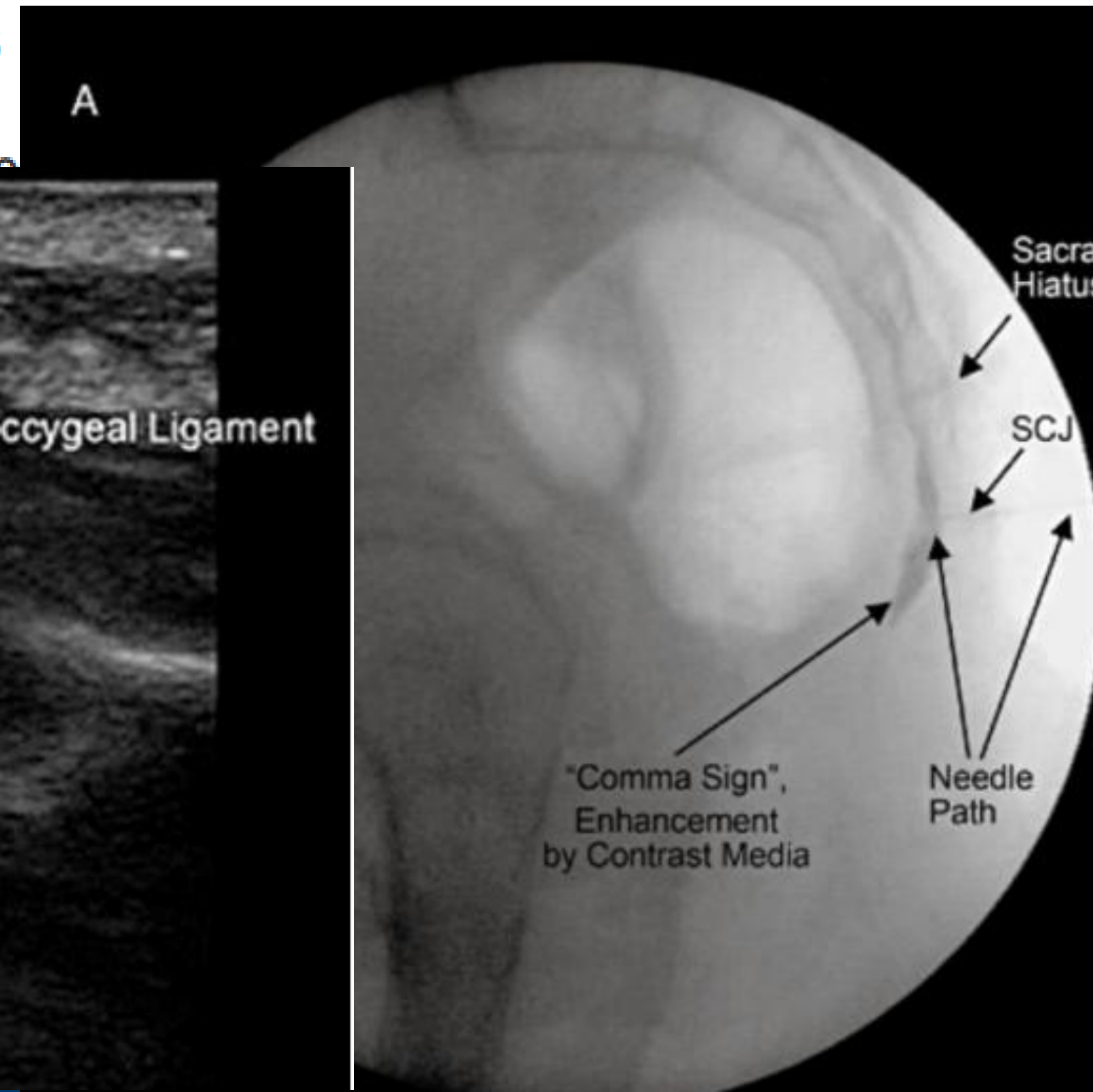
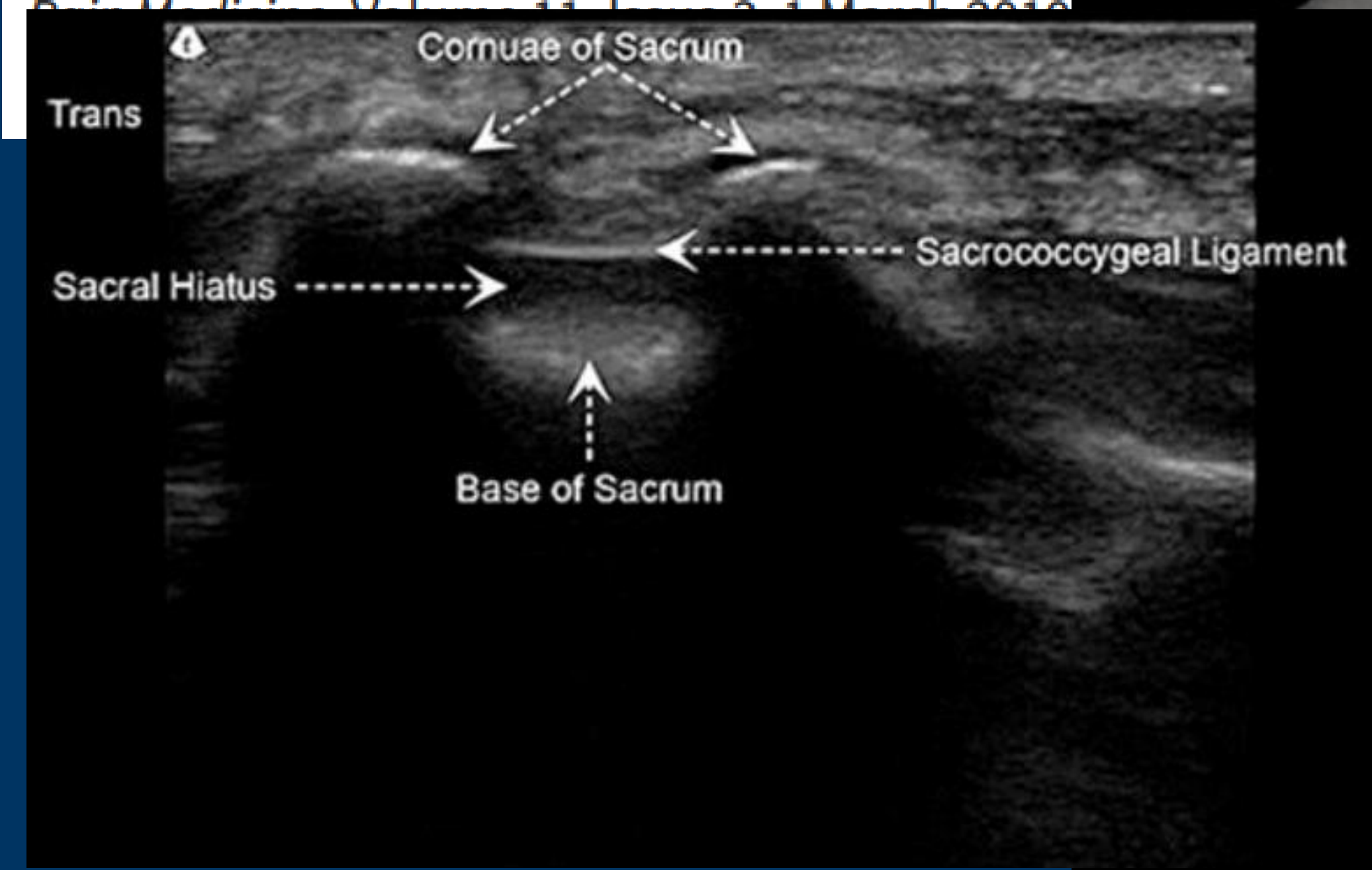


Lowest node of sympathetic chain/Pain from perineum/rectum/urethra/vagina/coccygodynia

Ultrasound-Guided Ganglion Impar Block: A Technical Report FREE

Chia-Shiang Lin, MD, Jen-Kun Cheng, MD, PhD, Yung-Wei Hsu, MD, Chien-Chuan Chen, MD, Hsuan-Chih Lao, MD, Chun-Jen Huang, MD, PhD, Peter H. Cheng, DO, Samer Narouze, MD, MS ✉ ✉ [Author Notes](#)

- Identify sacral cornua
- Identify first cleft below sacral hiatus as SCJ
- Insert needle into SCJ under usg guidance



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Ganglion impar block in chronic cancer-related pain - A review of the current literature.

1

Cite

Oliveira J, Bem G, Agrelo A.

Rev Esp Anesthesiol Reanim (Engl Ed). 2024 Oct;71(8):608-618. doi: 10.1016/j.redare.2024.04.013.

Epub 2024 Apr 24.

PMID: 38670492

Review.

Oncologic chronic pain is often difficult to control, especially in anatomical areas with multiple and complex innervation, such as the pelvic/perineal region. The **ganglion impar block** (GIB) is a procedure with growing interest and varied applicability. ...



Ganglion Impar Block For Chronic Coccydynia.

2

Cite

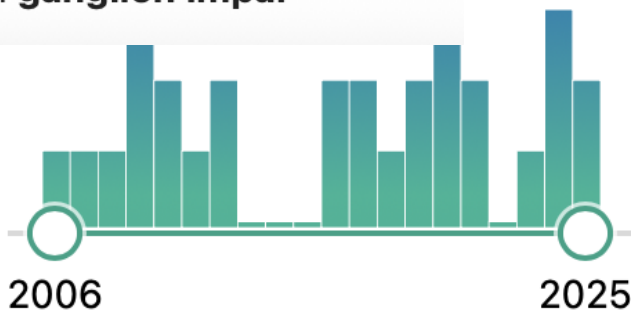
Malik SH, Ahmad K, Ali L.

J Ayub Med Coll Abbottabad. 2023 Feb-Mar;35(1):123-126. doi: 10.55519/JAMC-01-11092.

PMID: 36849391

Free article.

The probability of women having coccydynia is five times higher than among men, which may result from larger pressure during pregnancy and child delivery. It is treated well with **ganglion impar**



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Imaging Coccygeal Trauma and Coccydynia.

1

Cite

Skalski MR, Matcuk GR, Patel DB, Tomasian A, White EA, Gross JS.

Radiographics. 2020 Jul-Aug;40(4):1090-1106. doi: 10.1148/rg.2020190132.

PMID: 32609598

Review.

However, **imaging** can aid in determining potential causes of pain to help guide management.

Commonly, coccydynia (coccygodynia) occurs after trauma and appears with normal **imaging** features at static neutral radiography, but dynamic **imaging** with standing and se ...



Ultrasound-guided ganglion impar block: a technical report.

2

Cite

Lin CS, Cheng JK, Hsu YW, Chen CC, Lao HC, Huang CJ, Cheng PH, Narouze S.

Pain Med. 2010 Mar;11(3):390-4. doi: 10.1111/j.1526-4637.2010.00797.x.

PMID: 20447308

BACKGROUND AND OBJECTIVES: **Ganglion impar block** is an uncommon procedure that has been performed traditional with fluoroscopy. ...This technical report describes the feasibility of **ultrasound** in assisting **ganglion impar blocks**. MET ...

Literature evidence



sympathectomy blocks



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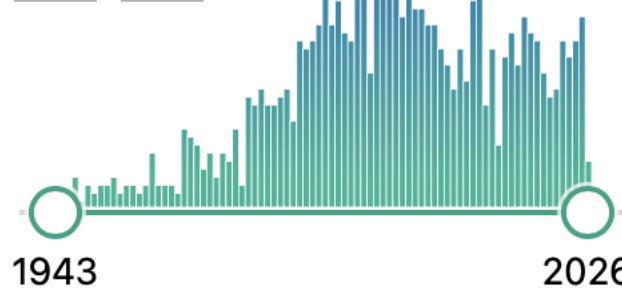
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Neurolytic blocks revisited.

1

Jackson TP, Gaeta R.

Cite

Curr Pain Headache Rep. 2008 Jan;12(1):7-13. doi: 10.1007/s10226-007-9000-0.

PMID: 18417017

Review.



[Ménière's disease].

2

Zechner G, Moser M.

Cite

Wien Med Wochenschr. 1973 Sep 15;123(37):530-2.

PMID: 4603700

Review.

German.

No abst



Causalgia.

3

[No authors listed]

Cite

Br Med J. 1971 Jan 9;1(5740):64.

PMID: 5539173

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Cervical Ganglion Sympathectomy to Tre



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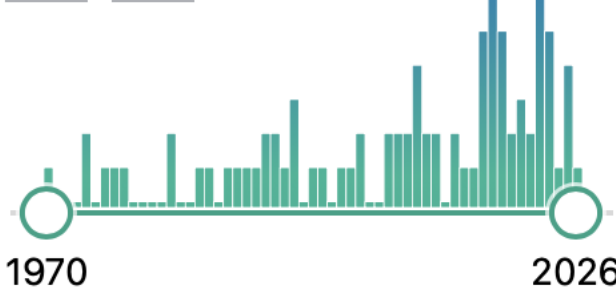
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Stellate ganglion block in perioperative practice: a narrative review.

1

Tsai EH, Nunez-Rodriguez E, Cata JP.

Cite

Br J Anaesth. 2026 Jan;136(1):179-196. doi: 10.1016/j.bja.2025.07.095. Epub 2025 Sep 29.

PMID: 41027820

Review.

The stellate ganglion **block**, also known as the cervicothoracic ganglion **block**, has traditionally been utilised by chronic pain physicians for managing sympathetic-mediated pathologies, such as chronic regional pain syndrome and hyperhidrosis. ...This review provides ...



Ultrasound-guided digital sympathectomy using botulinum toxin.

2

Rajendram R, Hayward A.

Cite

Anaesthesia. 2013 Oct;68(10):1077. doi: 10.1111/anae.12416.

PMID: 24047298

Free article.

No abstract available.



Paravertebral Block for Thoracic Surgerv.

Translation of this talk to tri services

- Ultrasound machine is portable
- Can be used in peripheral areas both in field and hospital for various block
- This will help in pain and also reversing conditions like vasculitis

Emerging evidence for feasibility and safety of ultrasound



THANK YOU

□ jyotsna_punj@yahoo.com