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Computed Tomography Guided Transdiscal Splanchnic Nerve Block for Cancer Pain Treatment – Case Report.

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Abstract

Background:

The majority of people with cancer will experience pain. Conservative treatment is effective for more then 90% of patients with cancer related pain. Therefore 5-10% of these patients are needing in interventional or surgical pain treatment. Interventional methods are different nerve blocks, neurolysis/ablation, insertion of permanent ports, pumps, stimulation electrodes. Splanchnic/celiac plexus neurolysis is characterizing with high success rate for intractable cancer pain relief.

Case presentation:

Case1: 50 years old man with pancreatic head and trunk cancer T4N1M0. Patients condition: intractable pain in upper abdomen during last two weeks, dysphagia, weight loss Cholecystoentero, gastro-entero and entero-entero anastomoses performed epidural+general anesthesia.Open transabdominal under celiac/splanchnic neurolysis could not performed due to tumor and metastases spread. During 7 postoperative days pain relieved by continuous epidural anesthesia (0.2% ropivacain 5ml/hour). On postoperative day 8 epidural catheter removed due to dislodgementMorphine sulphate 10 mg iv injections with 4 hour intervals and cox-2 pathway inhibitors was not sufficient for pain relief (pain score -6-8 VAS). Splanchnic neurolysis performed on postoperative day 14. Patient laid in prone position on the computed tomography table. After marking of injection sites, definition of needles traces and deep local infiltration with 1% lidocain, two 22 gauge 20 cm Chiba needles had been inserted transdiscally on the level of T12/L1. Pain relieved after injection of 4 ml 2% lidocaine on each side10 ml 10% aqueous phenol had been injected on each side for neurolytic block 0.1 g cefazolin injected intradiscally. Patient had complete pain relief until day 5, when he felt severe continuous pain on his upper right abdomen After two weeks of follow-up incomplete right splanchnic block diagnosed and to



perform of repeated right side splanchnic neurolysis had been decided. On day 14 after 1-st neurolysis, a 3½ inch 25 gauge Quincke needle had been inserted in right retrocrural space on the level of L1. After contrast and 4ml 2% lidocaine injection, 15 ml 95% alcohol injected Pain relieved completely. No additional analgesia requirements lifetime (10 weeks).

Case 2: A 62 years old male with gastric cancer. Cancer recurrence after partial gastrectomy and severe intractable abdominal pain. 120 mg morphine hydrochloride daily, pain score 6-8 VAS. T12-L1 computed tomography guided transdiscal splanchnic nerve block performed in patient prone position. After marking of injection site at left side from vertebral column and deep infiltration with 1% lidocaine, a 22G 20 cm Chiba needle had been inserted. 0.1g cefazolin injected intradiscally. Intervertebral disk penetrated centrally and contrast spread was equal on both sides between aorta and L1 vertebra. Pain relieved after injection of 5 ml 2% lidocaine and 15 ml 95% alcohol. After procedure pain score – 3-4, patient was needed in 10 mg morphine hydrochloride and 150 mg lyrica daily.

Conclusion

Computed tomography guided transdiscal splanchnic neurolysis is a safe and effective treatment tool for upper abdomen cancer pain relief. In cases of incomplete neurolysis repeated neurolytic block may be helpful.





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Biography:

Dr Vakhtang Shoshiashvili is specialized in anesthesiology and has a quite a few experiences of regional anesthesia and pain management. He also contributed in treatment of cancer pain conditions. Since 2013 he is an expert in anesthesia and intensive care at TSMU and Ministry of Health Care and Social Affairs Republic of Georgia. Currently he is also an associate professor at European University and since 2016 is working as an anesthesiologist at Research Institute of Clinical Medicine Tbilisi, Georgia.

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