



24TH EUROPEAN STUDENTS' CONFERENCE

Exploring the Unknown

4th - 7th September, 2013

Berlin, Germany



Abstract Book
2013

406 THE ROLE OF ELECTROPHORESIS IN THE TREATMENT OF CHRONIC RECTAL FISSURES

ESCID	406
Name	Kozlovska, Iryna
Country	Ukraine
University	Bukovinian State Medical University
Co-Author(s)	Oleksandr Bilyk, Olha Olenovych

ABSTRACT TITLE: THE ROLE OF ELECTROPHORESIS IN THE TREATMENT OF CHRONIC RECTAL FISSURES

BACKGROUND: Intratissue electrophoresis in combination with medical agents is widely used in medical practice. The essence of the method is in the combined action of direct current (DC), which is an active therapeutic factor, and medicines which are administered directly into the tissues of pathological focus by means of DC, creating rather high concentration in this place without spreading all over the organism. Direct electric magnetic field causes various physical-chemical, metabolic and cellular-tissue reactions, against the background of which medical action acquires a number of peculiarities and advantages as compared with traditional treatment. Galvanic current has a positive effect on the vital activity of the tissues in the field of flux and increases their susceptibility to the action of medical agents. DC irritates receptors of the skin and mucous membranes as well, resulting in a number of general and topical reactions of the body. Blood and lymph circulation, tissue metabolism and rebuilding processes improve, painful sensation decreases.

OBJECTIVE: to improve the results of treatment of patients with chronic anal fissures, reduce the number of complications after surgery by means of intratissue electrophoresis.

METHODS: Intratissue electrophoresis with "Dioxyzol" gel by means of the device "Potok-1" was conducted before and after surgery during 5 days with electric power 0,025 mA/cm² for 60 minutes.

RESULTS: 31 patients with chronic anal fissures aged from 21 to 72 were treated in this way, 6 of them refused from further surgery due to recovery. 25 patients underwent reconstructive-plastic surgery elaborated by the Department of Surgery, who were subjected to galvanization with "Dioxyzol" gel after operation. The number of complications after surgery decreased on 26±0.2% as compared with the control group of patients who were treated without electrophoresis.

CONCLUSION: Application of intratissue electrophoresis with "Dioxyzol" gel in the combined treatment of complicated anal fissures allows improving the results of surgery and reducing complications after surgery. Galvanic current analgesia leads to elimination of sphincter spasm and improves the regeneration processes in the area of anal fissure promoting quick healing. The method introduced is rather simple and available without any age limits and contraindications; it can be applied outpatient and in surgical departments of various levels.

NAME	ESC-ID	DISCIPLINE	PAGE
Kashefi, Nooshin	540	Paediatrics	307
Kaszuba, Anna	255	Endocrinology	118
Katić, Katarina	410	Microbiology/Genetics	201
Kazancev, Michail	312	Dentistry	91
Kaźmierczak, Patrycja	678	Cardiology	65
Kegel, Victoria	458	Visceral and General Surgery	422
Kekuh, Dmytro	427	Pathology	283
Keshri, Swasti	706	Public Health	375
Khaled, Mohamed	232	Public Health	376
Khaleva, Ekaterina	576	Paediatrics	308
Khani, Mehdi	44	Paediatrics	309
Kidun, Krystsina	611	Pathology	284
Kolarczyk, Aleksandra	440	Public Health	377
Kopaieva, Anastasiia	412	Paediatrics	310
Kosi, Lucija	372	Dermatology	100
Kosińska, Paulina	121	Neurology/Neurosurgery	240
Koteluikh, Mariia	275	Cardiology	66
Kovačević, Davor	341	Pathology	286
Kovačević, Nikolina	345	Public Health	378
Kovačević, Sanjin	325	Pathology	285
Kovács, Árpád Ferenc	1	Endocrinology	119
Kowalewska, Anna	280	Cardiology	67
Kozlova, Kateryna	379	Paediatrics	311
Kozlovskaja, Iryna	406	Visceral and General Surgery	423
Krasimirova, Ekaterina	146	Cardiology	68
Kreienbring, Katrin	536	Gynaecology	150
Kretschmer, Sophie	33	Cardial, Thoracic and Vascular Surgery	46
Krotkova, Olga	107	Immunology	182
Kudrytski, Dzmitry	537	Microbiology/Genetics	202
Kukhlevskyy, Yulian	246	Dentistry	92
Kuzin, Gennady	715	Nephrology/Urology	219
Kuzmin, Dzmitry	292	Neurology/Neurosurgery	241
Kuznecov, Nikolay	613	Visceral and General Surgery	424
Kylakova, Tatjana	670	Gastroenterology	132
L			
Lachmann, Gunter	302	Emergency Medicine/Anaesthesiology	108
Ladikou, Eleni Eirini	350	Haematology/Oncology	171
Lahodski, Vadzim	272	Orthopedic and Plastics Surgery	270
Lalou, Despina Afroditi	519	Endocrinology	120
Lasek, Anna	615	Visceral and General Surgery	425