Report from the 'Basics of Laparoscopy' 4th edition and 1st Nursing Workshop organized by the Section of Videosurgery of the Polish Surgeons' Society, Słok/Bełchatów, 5-6 December 2009

Michał Skalski, Tadeusz Wróblewski

Department of General, Transplantation and Liver Surgery, Medical University of Warsaw, Poland

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On 5-6 December 2009 the 1st edition of the 'Nursing Workshop' was held in Słok near Bełchatów, together with the 4th edition of the 'Basics of Laparoscopy' course for physicians. Apart from 70 physicians, surgical residents mostly, 25 nurses from surgical departments participated in the workshop. The programme covered participation in lectures delivered by laparoscopic surgery experts and oral presentation of studies performed by participants of the workshop and sent for acceptance in abstract form. The topics of nurses' presentations included treatment of patients with liver insufficiency with albumin dialysis, application of cochlear implants, and minimally invasive techniques in treatment of intracranial aneurisms. Lectures were delivered by 17 speakers, all accepted authorities in the field of laparoscopic surgery. The lectures were met with interest and were highly valued by the audience. The latest achievements and progress in minimally invasive techniques in the treatment of diseases of the biliary tree, oesophagus, stomach, large intestine, hernias and hormonal glands were presented. Films from videoscopic surgical procedures were shown. Each lecture was followed by a vivid discussion. At the end of the course for physicians, a short competition test was conducted to assess the level of new skills acquired during the training.

Additionally, participants had an opportunity to see the latest technological accomplishments in videosurgery, presented in industry stands and brief expert communications. Nurses actively participating in the Workshop could gain additional points necessary for enrolment in master degree studies at various medical universities.

Those interested in the forthcoming 5th edition of the 'Basics of Laparoscopy' course and the 2nd edition of the 'Nursing Workshop' are invited to the Wodnik Hotel in Słok near Bełchatów on 4-5 December 2010. Information can be found on our webpage: www.wideochirurgia.pl/.

Address for correspondence:
Prof. Tadeusz Wróblewski, MD, PhD, Department of General, Transplantation and Liver Surgery, Medical University of Warsaw, Poland

Scientific programme

Topic of lecture or workshop	Name of lecturer	No. of min
1st day		
History of laparoscopy	Adam Kiciak MD, PhD	20'
Basics of laparoscopy a. Laparoscopic armamentarium b. Laparoscopic tools c. Guidelines for pneumoperitoneum formation, introduction of trocars, suturing, tying knots etc.	Maciej Michalik MD, PhD	40'
Laparoscopic surgery of the biliary tree and liver Injury of the biliary tree and repair operations	Prof. Tadeusz Wróblewski, MD, PhD	30'
Laparoscopic herniorrhaphy Laparoscopy in treatment of inguinal hernia – contemporary trends and technical aspects	Maciej Śmietański, MD, PhD	40'
Laparoscopic procedures of the oesophageal hiatus of the diaphragm – gastroesophageal reflux disease, hernias of the hiatus, achalasia of the cardia	Prof. Wiesław Tarnowski, MD, PhD	40'
Laparoscopy in diagnosis of the acute abdomen and in abdominal trauma Laparoscopy in surgery of the large bowel TEM Videosurgery for chronic venous insufficiency of the lower extremities (SEPS)	Prof. Krzysztof Kołomecki, MD, PhD Maciej Michalik, MD, PhD Piotr Richter, MD, PhD Wiesław Pesta, MD, PhD	40' 40' 30' 20'
2nd day		
Laparoscopy in surgery of the stomach and treatment of obesity Videoscopic adrenalectomy Anaesthesia for laparoscopic procedures, patient qualification, postoperative analgesia	Krzysztof Paśnik, MD, PhD Mariusz Wyleżoł MD, PhD Andrzej Budzyński, MD, PhD Iwona Kolenda, MD	20' 20' 30'
Diagnostic laparoscopy in oncological surgery	Prof. Stanisław Głuszek, MD, PhD	20'
Selected thoracoscopic procedures Laparoscopy in gynaecology	Prof. Krzysztof Leksowski, MD, PhD Prof. Paweł Kamiński, MD, PhD	20' 30'
Basic videoscopic techniques – 2 film show with commentary	Wiesław Pesta, MD, PhD	60'
Complications of laparoscopic surgery	Prof. Edward Stanowski, MD, PhD	30'
Competition test, closing remarks, granting of certificates for theoretical part	Prof. Wiesław Tarnowski, MD, PhD Prof. Tadeusz Wróblewski, MD, PhD	60'

Nursing session

1. Katarzyna Prus, Marzena Karaban, Mariusz Grodzicki
"Zadania pielęgniarki podczas wykonywania zabiegu dializy albuminowej u chorych z niewydolnością wątroby" (Role of the nurse during albumin dialysis in patients with liver failure)
2. Helena Kamińska, Arkadiusz Paprocki
"Implanty ślimakowe – kierunki rozwoju i ich znaczenie dla pacjentów" (Cochlear implants – directions of progress and significance for the patient)
3. Mariola Rodowicz, Marek Prokopienko
"Zastosowania toru wizyjnego przy mikrochirurgicznych operacjach tętniaków wewnątrzczaszkowych" (Application of video in microsurgical procedures of intracranial aneurysms)
4. Elżbieta Adrian, Maciej Śmietański
"Znaczenie wprowadzenia programu *Szpital bez bólu* dla opanowania dolegliwości pooperacyjnych u chorych poddanych plastyce przepukliny" (Role of the "Hospital free from pain" programme in control of postoperative discomfort in patients after hernia repair)
5. Tadeusz Wróblewski
"Zapobieganie zakażeniom wewnątrzszpitalnym w warunkach oddziału chirurgicznego" (Prevention of nosocomial infections in the surgical ward)

Scientific Committee:

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Andrzej Budzyński
Stanisław Głuszek
Marek Jackowski
Krzysztof Kołomecki
Krzysztof Leksowski
Maciej Michalik
Maciej Otto
Krzysztof Paśnik
Wiesław Pesta
Piotr Richter
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Abstracts of oral presentations for 1st Nursing Workshop

Assessment of visual tract use in microsurgical treatment of intracranial aneurysms

Mariola Rodowicz[1], Marek Prokopienko[2]

[1]SPCSK Warszawa, ul. Banacha 1a
[2]Department of Neurosurgery, Warsaw Medical University, Banacha 1a

Introduction: The aim of the study was to assess the applicability of a videosurgery unit during microsurgery for intracranial aneurysm.
Material and methods: Use of an external video monitor connected to an operating microscope during intracranial aneurysm clipping was compared to no visualization available for the scrub nurse. The observations were carried out at the operating theatre of SPCSK in the operating rooms of the Department of Neurosurgery.
Results: Better cooperation between the surgeon and the scrub nurse and improved safety during surgery were noted. Direct visualization of the operating field and shortened reaction time of the scrub nurse minimize the duration of any intraoperative bleeding. The temporary or permanent clip is placed without delay and increases the safety of the procedure.
Conclusions: Use of video monitoring during microsurgery is a method of intraoperative control necessary to maximize the safety of the procedure.
Author's e-mail: mariolarodowicz@vp.pl, author's phone number: 509400538.

The role of the nurse during albumin dialysis in patients with liver failure

Katarzyna Prus, Marzena Karaban, Mariusz Grodzicki

Department of General, Transplant and Liver Surgery, Medical University of Warsaw, Banacha 1a

Introduction: Procedures of albumin dialysis are performed as a liver support in acute or decompensated chronic liver failure in patients who qualify for liver transplantation. Adsorbent columns filter blood and remove metabolites that cannot be metabolized in the liver to compounds excreted by the kidneys. The FPSA-Prometheus system of albumin dialysis is used in the Department of General, Transplant and Liver Surgery.
Material and methods: Data gathered in dialysis protocols of patients treated in the Department of General, Transplant and Liver Surgery in 2003-2009 were analysed. Two hundred and seventy-eight albumin dialysis procedures were performed in 114 patients with liver failure of various origin. Acute liver failure was an indication for dialysis in 52 patients and decompensation of chronic liver failure in 62 patients.
Results: Present standards of treatment include three 6-h long dialyses repeated every 24 h in one patient. The whole procedure lasts about 8.5 h. The first step is a 1 h calibration of the water treatment system that treats tap water. The next step is a test of the Prometheus system and filling of two sets of adsorbent columns and cannulas with 0.9% saline and 5000 U/l of unfractionated heparin, which lasts about 1 h. After dialysis the system is cleaned for 0.5 h. During the dialysis, vital patient's parameters are monitored including the pressure at the entry and at the exit of the circuit (suction and pumping pressure at a central venous cannula) and at the entry and the exit of adsorbent columns; heparin flow in the integrated pump and flow rate of blood and plasma. Data regarding bilirubin, ammonia, urea and creatinine plasma concentration and transaminase activity and pH were gathered before and after dialysis. Mean number of dialysis procedures per patient in the study group was 2.41. Mean heparin dose administered during dialysis was 750 U/h. Mean dialysis time was 6.3 h. Statistically significant improvement in laboratory values was observed.
Conclusions: The duties of the nurse include:
1) conducting the albumin dialysis, preparing and operating the dialysis equipment,
2) preparing the patient for dialysis,
3) monitoring essential vital parameters during the dialysis: heart rate, blood pressure, central venous pressure, saturation, body temperature and diuresis.

Cochlear implants – directions for development and their importance to patients

Kamińska Helena[1], Arkadiusz Paprocki[2]

[1]SPCSK Warszawa, ul. Banacha 1a, operating theatre
[2]Chair and Department of Otolaryngology, Medical University of Warsaw

Introduction: In 1972, the first implantation of one electrode, the standard produced cochlear system, was done. However, it was insufficient for satisfactory speech understanding. That led to the construction of multichannel systems. In 1992 the first surgical treatment of deafness using cochlear systems was done in Poland in the Department of Otolaryngology, Medical University of Warsaw. Aim of study: To present the equipment, operative technique and educational-therapeutic process employed for treatment of sensorineural hearing impairment with cochlear system implants.
Material and methods: Seventy patients with bilateral deafness were qualified for cochlear implants.
Results: Three types of cochlear systems were implanted – MXM in 12, Advanced Bionic in 26 and Nucleus Freedom in 32 patients – without any major intra- or perioperative complications. Based on audiological and psychoneurological control tests, good clinical results of surgical treatment were confirmed in nearly all of these patients.
Conclusions: Cochlear implants are the most effective treatment of bilateral and deep sensorineural hearing impairment. The success of the treatment depends on a properly qualified group of patients, excellent surgical technique, postoperative course and long-term speech and hearing rehabilitation.
Author's e-mail: kaminskahelena@vp.pl, author's phone number: 0605292151.

Figure 1. Reception desk of the Organizing Committee

Figure 2. Lectures of the nurses – participants of the workshop

Figures 3, 4. Awarding of certificates