

Bratislava Medical Journal 2006; 107

Pages	Number
1— 42 .....	1–2 (January–February)
45— 100 .....	3 (March)
103— 182 .....	4 (April)
185— 224 .....	5 (May)
227— 272 .....	6–7 (June–July)
275— 338 .....	8 (August)
341— 402 .....	9–10 (September–October)
405— 470 .....	11–12 (November–December)

## Key words index

### A

A549 cell line 166  
 abdomen 253  
 abdominal aortic aneurysm 22  
 –emergency 253  
 –solid mass 445  
 absces 296  
 accreditation of study programs 123  
 acetaldehyde 227  
 ACTH 259  
 activated partial thromboplastin time 422  
 acute coronary syndromes 422  
 –fluid collections 296  
 –ischemia 93  
 –meningococcal sepsis 287  
 –myocardial infarction 34  
 –pancreatitis 296  
 –respiratory stridor 439  
 –surgical abdomen 253  
 adrenaline 26  
 affixal negation 332  
 age-related diseases 405  
 aging 405  
 airway hyperreactivity 22  
 –reactivity 9  
 albuminuria 315  
 alcoholic fatty liver 58  
 alleles 73, 76  
 Alois Alzheimer 343  
 Alzheimer's disease 341, 343, 346, 354,  
 359, 366, 374, 384, 395  
 amniocentesis 269  
 amyloidogenicity 354  
 anal fissure 327  
 –itch 323  
 analgesia 320  
 anaphylaxis 26  
 anesthetized cats 139  
 aneurysm 22  
 angiography 93  
 angioplasty 93  
 angiotensin 317

ano-rectal disorders 323  
 antibiotic treatment 157  
 antibiotics 296  
 anti-inflammatory pathways 3  
 –therapy 374  
 antioxidant therapy 390  
 antiphospholipid syndrome 292  
 anular stenosis 256  
 aortic aneurysm 22  
 apoptosis 185, 366  
 arrhythmia risk 162  
 Artemia salina larvae 156  
 arterial branch 256  
 –hypertension 239  
 –pressure 143  
 –thrombosis 292  
 arteriography 93  
 aspiration 439  
 –biopsy 12  
 –syndrome 9  
 astroglial cells 376  
 athletes 205  
 atomic force microscopy 174  
 audiometry 271  
 Augusta D 343  
 autoimmune diabetes mellitus 73  
 autologous chondrocytes 148  
 –sliding grafts 62  
 autonomic nervous system 45  
 Avian influenza 412

### B

bacteria 170, 448  
 bacterial translocation 296  
 Bax 185  
 Bcl-2 185  
 beta-amyloid 359, 384  
 beta-sitosterol 144  
 bibliographic system 459  
 bi-directional transmission 278  
 bilayer lipid membrane 159, 179  
 bioavailability 80

biofilm 448  
 biological effects of radiofrequency 267  
 –markers 359  
 –materials 146  
 biomedical teaching subject 140  
 –technology 336  
 biomedicine 152  
 biophysics 168, 336  
 biopsy 12  
 bio-psycho-social balance 160  
 biosensing 159  
 bi-phasic biokinetics model 177  
 bivalent cations 160  
 bleeding 192  
 –per rectum 323  
 blood sampling 248  
 body surface mapping 139  
 body-mind connections 275  
 Bologna Declaration 123, 141  
 bone models 144  
 book review 213, 462  
 brain 275, 341  
 –injury 110, 113  
 brain-derived neurotrophic factor 395  
 bronchodilatation 166  
 Brown-Sequard syndrome 287

### C

calcium homeostasis 386  
 cancer 80  
 –cell lines 154  
 candidiasis 227  
 carcinoma 96, 462  
 cardiac events 279  
 cardiovascular disease 45  
 –events 41  
 –risk 314  
 cartilage regeneration 148  
 catecholamine 3  
 catheter ablation 107  
 cavitation 142  
 cellular action 164

- adhesoin 315  
–regulation 405  
cerebral cyst 16  
–palsy 430  
cerebrospinal fluid 359  
chalcones 80  
chemokines 377  
cholesterol 144  
chondrocyte 148  
chromosome aberrations 269  
chronic kidney disease 314  
–polysystemic candidiasis 227  
clinical picture 16  
–trials 412  
clubfoot 85  
coagulase negative staphylococci 448  
coagulation factors 292  
collagen 235  
colon 462  
colonization 221  
community noise 214  
comparative anatomy 103  
compartment syndrome 264  
complement system 377  
computer modeling 118  
condylomas 328  
congenital clubfoot 85  
–malformations 269  
conservative treatment 442  
constipation 323  
context 130  
contextual university teaching 155  
continuous mode of cavitation 156  
coronarography 34  
coronary artery bypass graft 279  
–syndrome 422  
cortisol 259  
critical limb ischemia 93, 264  
cryotherapy 170  
CT examination 31  
cyclodextrin 166  
cyst 16  
cystic lesions 96, 445  
–renal cell carcinoma 96  
cytokines 377  
cytology 12
- D**  
damage of tissue 264  
database of publication activities 459  
degenerated PCR primers 418  
dementia 359  
depression 197  
developmental mechanisms 435  
D-glucose 159  
diabetes mellitus 73, 76  
diaphorodiagnosis 445  
didactical aids 145  
dielectric properties 146  
diet 395  
digitalization in radiology 142  
diode 231  
discrimination method 180  
disease outbreaks 412  
–transmitted from animals to humans 223  
DNA 152  
–interaction 160  
–oxidation 387  
dopamine 227  
dorsal pedal artery 93  
drug targeting 173  
dynamic flow 150  
dynamics determination 158  
dysgerminoma 253
- E**  
ECTS 123  
education of nurses 180  
–performance 149  
eHealth 210  
elastic fiber 235  
elastin 235  
elearning course 168  
elective treatment 22  
electrical field of heart atria 139  
–stimulation 3  
electromagnetic field 143  
–pollution 161  
emergency treatment 93  
endarterectomy 239  
endocrinology 168  
endoscopic treatment 435  
endoscopy 16  
endovenous laser 231  
energetical dysbalance 405  
energy metabolism 386  
enzymatic system 52  
epidemiology 221  
Escherichia coli 165  
etiology 197  
exercise 259, 395  
expanding cavum Vergae 435  
exposure to ultrasound 177  
external ear 271  
–medical study 160  
extracardiac neuronal control 45  
extrarenal anal tags 329
- F**  
„false friends“ 130  
fatty liver 58  
fetus 269  
fibromuscular dysplasia 256  
fine-needle aspiration biopsy 12  
fistula 328  
fluorescence spectroscopy 118  
food intake 217  
– – trends 217  
foreign body 448  
fracture risk 453  
Francisella tularensis 224  
frequency characteristics 141  
functional states 205
- G**  
genes encoding 292  
giant uterine myoma 445  
Glasgow Outcome 110  
glutathione system 389  
graft disease 279  
–potency 279
- H**  
H5N1 infection 412  
head-up tilt test 248  
health care 171  
–care management 179  
–informatics 210  
–information system 175  
–service institutions 161  
–studies 210  
hearing impairment 271  
heart activity 45  
–conduction system 107  
–control 45  
–disease 45, 80  
–ganglia 45  
–vector 172  
helix-coil transition 152  
hematochezia 32  
hemorrhagic shock 3  
hemorrhoids 192, 327  
heparin 422  
hepatitis 58  
hereditary spastic paraplegia 418  
hernia 235  
high density lipoprotein 179  
higher qualification athletes 205

- hippocampal formation 103  
 history of medicine 103  
 HLA class II 76  
 HLA-DPB1 73  
 hormonal assays 248  
 –changes 259  
 hospitalist 132  
 house officers 26  
 human brain 103, 418  
 –head phantom 167  
 –infections 448  
 –leptospiroses 222  
 –organism 143  
 hygienic regulations 126  
 hyperbaric oxygen therapy 40  
 hypercoagulation 292  
 hyperinsulinemia 41  
 hypertension 31, 41, 205, 239, 256  
 hypomagnesiemia 58
- I**  
 IDA microelectrodes 178  
 immune system 3, 113  
 immunization 374  
 immunotherapy 379  
 implants 462  
 Improhealth 179  
 incontinence 326, 426  
 in-depth analysis 160  
 infected pancreatic necrosis 299  
 infection 221, 448  
 –in children 272  
 inflammation 3, 113  
 inflammatory response 305  
 influenza V virus 412  
 information science 210  
 inguinal hernia 235  
 innervation of the heart 45  
 interdisciplinary study 145  
 interhemispheric cyst 435  
 internet in health 171  
 intersexual differences 217  
 intracardiac nervous system 45  
 –neurons 45  
 intracranial hypertension 113  
 intramuscular adrenaline 26  
 intravenous adrenaline 26  
 intrinsically disordered proteins 354  
 investigation methods 143  
 ionising radiation 147  
 ischemia 3, 264
- J**  
 job on the internet 171
- K**  
 karyotyping 269  
 kidney 96, 314
- L**  
 laser 152  
 laser-tissue interaction 231  
 lecture 123  
 leg ulcers 40  
 legionellosis 219  
 leptospiroses 222  
 lesion of peripheral nerve 89  
 lipids 388  
 lipoprotein detection 179  
 liposomes 144, 160  
 liquid interface 159  
 lithium carbonate 290  
 liver 58  
 lorazepamum 290  
 low vision 148  
 low-frequency magnetic field 170
- M**  
 maggot debridement therapy 442  
 magnesium 58  
 –ions 152  
 magnetic drug targeting 173  
 malignancies 328  
 management of hospitalized patients 132  
 map non-dipolarity 162  
 markers of pancreatic sepsis 304  
 mathematic formulas 107  
 McCall operation 62  
 meaning 130  
 measured cardiac potentials 176  
 meconium 9  
 medical biophysics 181  
 –diagnostic 180  
 –english 332  
 –equipment 126  
 –faculties 146  
 –information system 150  
 –physics 126, 137  
 –school 123, 141, 149  
 –student 217  
 –studies 210  
 –thermography 151  
 –training 168  
 melanoma cells 174  
 membrane capacitance 159  
 –study 159  
 meningitis 287  
 meningococcal myelitis 287  
 mercury electrode 169  
 Mercy Medical Center 132  
 metabolic situation 41  
 microalbuminuria 315  
 microglia 374  
 microglial cells 364  
 microwave measurement 146  
 midline cerebral cyst 16  
 mild hyperthermia 113  
 mitochondria 384  
 mitochondrial nitric oxide synthase 405  
 mobile phones 143  
 molecular dynamics simulation 118  
 monitoring of psychogalvanic skin reflex  
 178  
 –of the growth 169  
 mono-exponential biokinetics model 177  
 monosodium glutamate 185  
 morphological forms 130  
 –changes in veins 231  
 mortality 34  
 MRI visualization 16  
 multilamellar liposomes 144  
 multilocular cystic nephroma 96  
 multiple organ failure 310  
 murine typhus 223  
 myocardial infarction 34  
 –ischemia 45  
 myoneuropathic metabolic syndrome 264
- N**  
 Na<sup>+</sup>/K<sup>+</sup>-ATPase 118  
 natural focality 224  
 –reservoirs 222  
 navigation 16  
 N-dodecyl-N,N-dimethylamine-N-oxide 153  
 negative prefixes 332  
 –suffix 332  
 neonatal disease 9  
 nerve activity 139  
 –graft 89  
 nervous system 3, 45  
 neural network plasticity 395  
 neurodegeneration 366, 374  
 neurodynamic functions 205  
 neuroendoscopy 213  
 neurofibrillary tangles 343  
 neuroinflammation 374  
 neurological disorders 110  
 neuromuscular disease 430

- neuron 45  
neuronal loss 366  
neurons morphology 45  
neurosurgery 16, 89  
nitinol spiral stent 141  
nitrative stress 386  
nitric oxide 52, 405  
nitroglycerine 248  
noise annoyance scale 214  
nomenclature 103  
nondestructive method testing 141  
non-invasive methods 162  
non-neoplastic lesion 12  
non-traditional risk factors 314  
no-reflow phenomenon 264  
nuclear envelope structure 177  
nucleotide 118  
numerical data 107  
nurse 172  
nursing education 180  
–informatics 210  
–study 160  
–university education 163
- O**  
odds ration 453  
office procedures 192  
–treatment 323  
optical aids 148  
osteoporosis 197, 453  
otoacoustic emissions 271  
ovarian dysgerminoma 253  
oxidative stress 58, 384  
oxygen radicals 385  
–therapy 40
- P**  
pain 323  
paired helical filaments 354  
pancreatic necrosis 296  
Parkinson's disease 45, 227  
passage of mucus 326  
passive immunization 379  
pathogenesis 248  
patient safety 132  
pedal bypass 93  
pelvic discomfort 445  
–organ prolapse 62  
penile block 320  
percutaneous transluminal angioplasty 256  
perioperative analgesia 320  
peripheral nerve 89  
–serotonergic system 248  
peritoneum 235  
peritonsilla abscess 272  
peroxisome 384  
perphenazine 290  
pharmacotherapy 408  
phenolic compounds 80  
phosphorylation 346  
photocoagulation 231  
photodynamic treatment 166  
–therapy 174  
–treatment 154  
phrenic inspiratory nerve activity 139  
phthalocyanine 174  
–sensitizer 154  
physical principles 153  
physiology 259  
plaque 223  
plasma catecholamin 3  
plasminogen 315  
point mutations 118  
polyphenols 80  
polyps 328  
porphyria sensitizers 166  
portal vein thrombosis 31  
post menopause 197  
posthysterectomy vault 62  
postpsychotic depression 290  
post-translational modification 346  
power spectral analysis 139  
practical training 164, 181, 336  
predictor of mortality 22  
pregradual medical education 146  
premature mortality 80  
prenatal care 269  
–cytogenetic diagnosis 269  
preparation 164  
prevention of diseases 175  
primary care 323  
–inguinal hernia  
proctology 331  
professional damage 147  
professionalization 178  
programmed cell death 366  
prolapse from the anus 323  
proper route adrenaline administration 26  
prostaglandins 52  
prostanoids 52  
prostheses 426  
protein oxidation 387  
–modeling 158  
–structure 118, 158  
proteins 418  
pruritus ani 323  
pseudocysts 301  
pseudomyxoma peritonei 445  
psychic changes 110  
psychological disorders 110  
psychophysiological functions 205  
public health 412  
pulmonary hypertension 239  
pulse mode of cavitation 156  
–wave analysis 167  
–– parameters 154
- R**  
rabbit 9  
rabies 223  
radiation source 174  
radiofrequency 167  
–coagulation 192  
radiography 96  
radiological subjects 164  
–treatment 445  
radiology 142  
reconstructive operation 89  
–surgery 62  
rectal injuries 329  
–prolapse 326  
rectum 462  
rectus sheath 235  
redox homeostasis 387  
regeneration 145  
register of pulse wave 154  
regression analysis 155  
rehabilitation 151  
relative risk 453  
renin-angiotensin system 256  
renovascular hypertension 256  
repair in arm 89  
reperfusion 264  
–injury 3  
respiratory system 52  
restructuring of school system 123, 141  
retropharyngeal lymphangioma 439  
revascularization 93  
rheological models 144  
risk assessment 214  
–factors 279  
RNA oxidation 387  
routine diagnostic tests 221  
rupture of abdominal aortic aneurysm 22
- S**  
Saccharomyces cerevisiae 169  
safety of adrenaline 26  
salivary gland 12

- salsolinol 227  
scanning methods 153  
senile plaques 343  
septic complications 296  
–shock 306  
septostomy 16  
serotonin 248  
sertraline 290  
serum magnesium 58  
severe brain injury 113  
schizophrenia 290  
skin 147, 235  
–reflex 178  
smooth muscle reactivity 52  
soccer 259  
social care 172  
solid interface 159  
solitary rectal ulcer 329  
solubilization 153  
sonographed area 163  
specific therapy 239  
spectroscopic techniques 118, 158  
speech non-fluency 166  
spinal cord 151, 287  
–surgery 213  
sports medicine 145, 205  
Spread Function 163  
staphylococci 448  
Staphylococcus aureus 165  
statins 317  
statistics 107  
steatohepatitis 58  
STEMI guidelines 34  
stenosis 326  
stereology 366  
stricture 326  
ST-segment 34  
study program 145  
subcellular action 164  
subcutaneous adrenaline 26  
supracondylar amputation 442  
surgery 320  
surgical therapy in pancreatitis 309  
–treatment 85, 430  
suture 89  
swelling around anus 323  
sympathetic activity 248  
systemic administration 296
- T**  
tau amyloid 359  
–protein 341, 354, 384  
–truncation 346  
teaching process 123, 146  
testosterone 259  
therapeutic process 126  
thoracic myelitis 287  
thromboly 239  
thrombolysis 34  
thrombolytic era 34  
thrombophilia 292  
thrombosis 31, 292  
thymocytes 185  
thyroid gland 177  
time-resolved fluorescence spectroscopy 118  
tonsillectomy 272  
tonsillitis 272, 439  
towards understanding 164  
transformation of medical study 140  
transforming growth factor 315  
translation 130  
transversial fascia 235  
traumatic brain injury 110  
–lesion of peripheral nerve 89  
treatment outcome 426  
triangle of Koch 107  
tularemia 224  
tumor 12, 96  
tumorigenesis 3, 275  
tumorous lesion 12
- U**  
ubiquitin 359  
ulcer 442  
ultrasound 142, 164, 177  
–imaging 150  
unilamellar vesicles 153  
university education 172  
–publication database 459  
–students 217  
–teachers 178  
urban agglomeration 214  
–area 214  
urinary incontinence 426  
urodynamics 426
- V**  
vagal complexity 275  
vaginal ligaments 62  
vagosacral colpopexy 62  
vagus nerve 3, 275  
valid comparisons 155  
Valsalva manoeuvre 426  
vascular remodeling 239  
vasoconstriction 239  
vasovagal syncope 167, 248  
vegetables 80  
venous system 231  
ventricular repolarization heterogeneity 172  
vertebrae fracture 197  
viability of melanoma 174  
virulence factors 448  
voltage dependence 159  
Von Willebrand factor 315  
vulnerability index 162  
– – value 155
- W**  
weak electromagnetic fields 165  
web interface 459  
web-based medical education portal 158  
weight-adjusted unfractionated heparin 422  
whole-body cryotherapy 170  
working ability 110
- Y**  
Y-fracture risk 453  
Yule's Q 453
- Z**  
zoonoses 223

---

**BRATISLAVA MEDICAL JOURNAL**  
**BRATISLAVSKÉ LEKÁRSKE LISTY**

**Editor-in-Chief:** Hulin I - Bratislava, Slovakia

**Vice-Editor-in-Chief:** Bernadic M - Bratislava, Slovakia

**Associate Editors:** Buckingham TA - St. Louis, USA  
Pechan J - Bratislava, Slovakia

**Editorial Board:** Ablin RJ - USA, Bartunek J - Belgium, Bauer V - Slovakia, Blahos J - Czech Republic, Breza J - Slovakia, Bruhat MA - France, Cattaneo A - Italy, Chaitman BR - USA, Duris I - Slovakia, Ferencik M - Slovakia, Furman S - USA, Galvanek EG - USA, Hatala R - Slovakia, Henzl MR - USA, Hiraoka M - Japan, Klimes I - Slovakia, Kodama I - Japan, Kovacs L - Hungary, Kutalek SP - USA, Macfarlane PW - UK, Mraz P - Slovakia, Musso E - Italy, Nadeau R - Canada, Novak M - Slovakia, Slezak J - Slovakia, Schubert E - Germany, Schulz JI - Canada, Steinbach K - Austria, Tank DK - India, Titomir LI - Russia, Toyama J - Japan, Traubner P - Slovakia, Ujhazy P - USA, Zaviacic M - Slovakia

**Assistant Editor:** Bernadicova H

**Proof Correction:** Buckingham TA, Diederichova N, Sulkova I

**Layout:** Koubekova E

**Editorial Office:** Bratislavske lekarske listy, LFUK, Spitalska 24, SK-813 72 Bratislava 1, Slovakia

**Phone/Fax:** +421.2.52965400

**Email:** [bl@fmed.uniba.sk](mailto:bl@fmed.uniba.sk)  
[ivan.hulin@fmed.uniba.sk](mailto:ivan.hulin@fmed.uniba.sk)  
[marian.bernadice@fmed.uniba.sk](mailto:marian.bernadice@fmed.uniba.sk)

**Electronic version:** <http://www.BratislMedJ.sk>  
[www.bmj.sk](http://www.bmj.sk)  
[www.BratislLekListy.sk](http://www.BratislLekListy.sk)