



MENTE
ET CORDE



Facultas Medicinae
Universitas Palackiana
Olomucensis



Palacký University
Olomouc

Prof. Mgr. MUDr. Milan Raška, Ph.D.
Faculty of Medicine and Dentistry, Palacký University Olomouc



Palacký University Olomouc
Faculty of Medicine and Dentistry



Palacký University
Olomouc

Olomouc - Praha (Prague) – 2.20 hour by train or car

Olomouc – Brno/Ostrava – 1 hour by train or bus or car

Olomouc – Wien – 2.20 hour by car or 3 hours by train or bus

Olomouc – Bratislava – 2 hours by car or 3 hours by train





Palacký University
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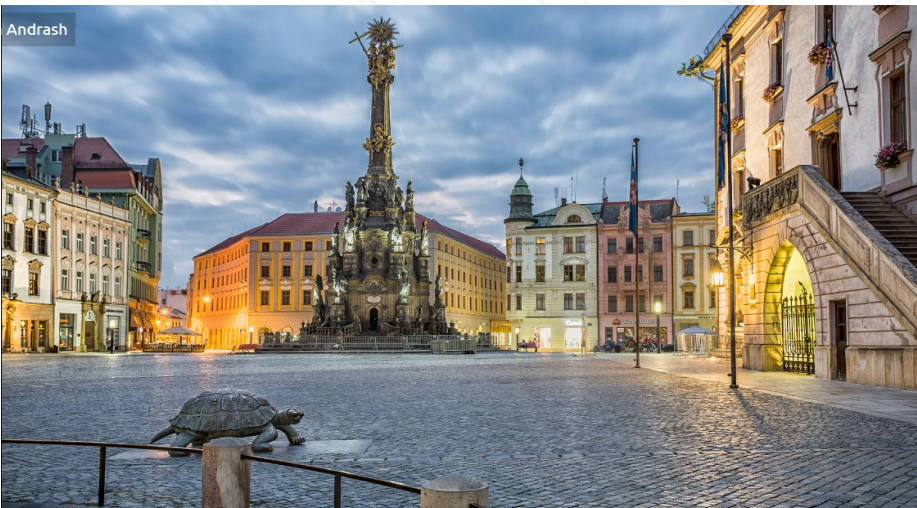
OLOMOUC



A beautiful historical town, situated in a gentle landscape at the foot of the Jeseniky mountains

True **University town** – more than 22 000 students in a town of 100 000, with unique *Genius loci*.

6th biggest town yet all locations reachable by walk





Palacký University
Olomouc

Palacký University Olomouc

Established 1573

Since 1782 Healer's Institute

Centuries of tradition: the second
oldest university in Central Europe





Palacký University
Olomouc

8 faculties of Palacký University in Olomouc

Sts Cyril and Methodius Faculty of Theology

Faculty of Medicine and Dentistry

Faculty of Arts

Faculty of Science

Faculty of Education

Faculty of Physical Culture

Faculty of Law

Faculty of Health Sciences





Palacký University
Olomouc

Palacký University in Olomouc

THE World University Ranking



THE UNIVERSITY
IMPACT
RANKINGS
INAUGURAL PARTICIPANT

	Teaching	Research	Citation	Industry Income	International Outlook	RANK THE2023
Univerzita Karlova - Praha	33,2	31,0	49,7	37,3	64,3	501-600.
Masarykova Univerzita - Brno	23,9	29,7	34,0	38,1	66,7	801-1000.
Univerzita Palackého v Olomouci	19,6	19,9	40,0	37,8	59,3	1001-1200.
Jihočeská univerzita v Českých Budějovicích	19,4	17,1	46,9	36,9	51,2	801-1000.
Česká zemědělská univerzita v Praze	17,4	13,6	42,1	52,0	71,2	1001-1200.
Vysoké učení technické v Brně	18,6	17,8	17,1	42,7	56,2	1201-1500.
Vysoká škola chemicko-technologická v Praze	26,2	13,4	15,8	41,5	51,4	1201-1500.
České vysoké učení technické v Praze	23,2	16,1	15,5	48,4	58,2	1201-1500.
Univerzita Hradec Králové	17,0	13,6	30,0	39,3	57,6	1201-1500.
Mendelova univerzita v Brně	19,0	17,6	18,1	37,7	55,7	1201-1500.





Palacký University
Olomouc

Faculty of Medicine and Dentistry





Palacký University
Olomouc

Faculty of Medicine and Dentistry

- **General Medicine 6 years:**
Czech - 1,200 students
English - 250 students
- **Dentistry 5 years:**
Czech - 410 students
English - 50 students
- **Teachers:** over 500 teachers
- **Ph.D. studies:** 400 students





Palacký University
Olomouc

Faculty of Medicine and Dentistry

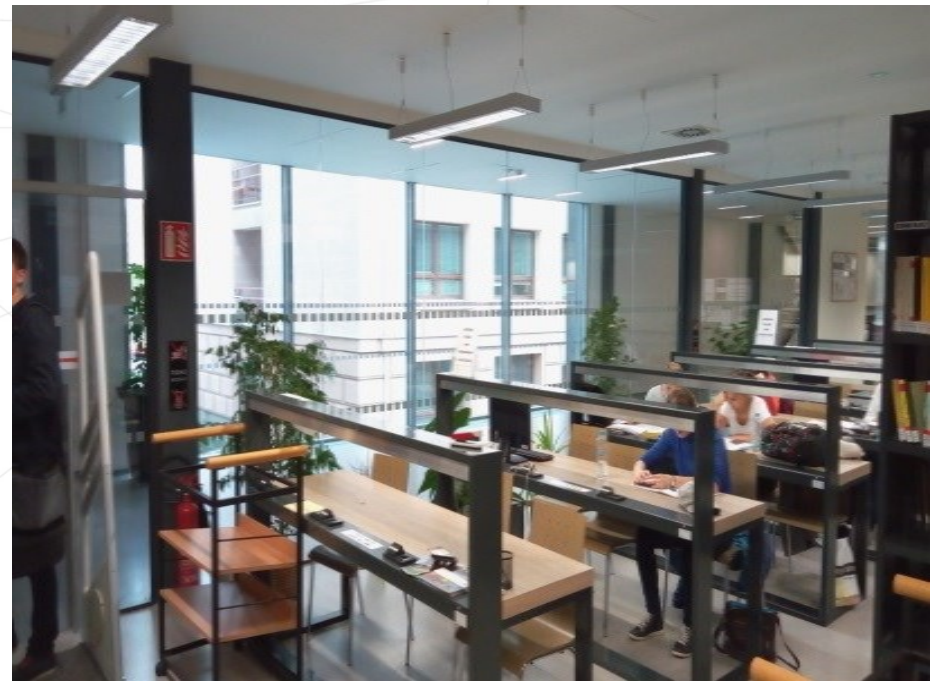
- All classes and lectures in English
- Identical curricula for the Czech and English programmes
- Health and dental care (24/7)





Palacký University
Olomouc

- Study rooms
- Library facilities and access to online databases





Palacký University
Olomouc

Modern simulators





Palacký University
Olomouc

Modern simulators





Opportunity to participate in research and teaching



CLASSIFICATION OF RENAL TUMOURS ACCORDING TO RENAL AND THEIR RELATION TO PERIOPERATIVE RESULTS IN ROBOT ASSISTED PARTIAL NEPHRECTOMY



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Supervisor: MUDr. Vladimír Študent Jr. M.D., Ph.D. Statistician: (Bc.) Mgr. Dana Purová

Department of Urology, University Hospital Olomouc (FNOL), I. P. Pavlova 6, 779 00 Olomouc, Czechia.



INTRODUCTION
Recent development in preoperative staging and surgical methods have enabled nephron-sparing surgery a more viable option than radical nephrectomy in some cases. The RENAL scoring system was introduced in 2009. The system allowed standardized reporting of renal tumour size, depth and location. It acts as a way to classify renal tumours preoperatively, and can be used in conjunction with other diagnostic methods to determine surgical plans and outcomes.

AIM OF STUDY
Our aim was to analyse data from patients who have undergone robot assisted partial nephrectomy and to see exclusively if the RENAL score can be used to predict perioperative outcomes. We were hoping to utilise the data to determine if we can reduce predicted perioperative complications, through better planning.

MATERIALS AND METHODS
323 cases of robot assisted partial nephrectomy were observed between October 2009 to June 2021, from the Olomouc Faculty Hospital and evaluated. Tumours with a RENAL score of 4-6 points were classified as 'low complexity' (group A), and lesions with 7-12 points as 'intermediate to high complexity' (group B). We believed it was best to group 'intermediate' and 'high' complexity tumours together because they exhibited similar characteristics. Perioperative variables including operative times, estimated blood loss, ischemia time, histological findings, surgical complications, and functional outcomes were compared (% of patients with a decrease in glomerular filtration rate at CKD-EPI by 30% or more).

Table 3: the statistical analysis of data collected

Variable	Low					Intermediate/High					P-value						
	Value N	Mean	Median	Minimum	25%ile	Value N	Mean	Median	Minimum	25%ile	75%ile	Value N	Mean	Median	Minimum	25%ile	75%ile
Age	173	62.02	64.00	30.00	63.00	68.00	71.00	150	69.37	62.00	72.00	42.00	64.00	70.00	52.00	67.00	73.00
CRP (mg/l)	173	101.78	16.00	0.00	233.00	77.00	120.00	150	103.53	100.00	39.00	17.00	82.00	10.00	0.00	0.00	0.00
Estimated time (min)	173	26.20	26.00	6.00	76.00	18.00	30.00	150	36.89	30.00	6.00	30.00	30.00	37.00	5.00	10.00	15.00
EBL (ml)	173	441.45	80.00	0.00	1000.00	20.00	200.00	150	168.83	100.00	0.00	0.00	30.00	30.00	0.00	0.00	0.00
Ischemia (min)	89	17.01	17.00	6.00	49.00	12.00	30.00	132	17.79	18.00	6.00	10.00	15.00	11.00	0.00	0.00	0.00
Complication	166	3.07	3.00	0.00	7.00	0.00	0.00	133	4.26	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

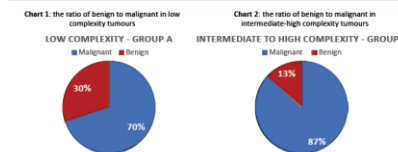
Table 1: the RENAL nephrometry scoring system

RENAL	1pt	2pts	3pts
Radius (centimeters) (R) (n=173)	≤4	4-6	≥7
Exophy/Endophy (E) (n=173)	0%	50%	Extensive Exophy
Location (L) (n=173)	≤4	4-6	≥6
Anterior/Posterior (P) (n=173)	Anterior	Intermediate	Posterior
Location, Polar view (n=173)	≤25% of the mass crosses the polar line	The lesion crosses the polar line	≥25% of the mass crosses the polar line or the lesion crosses the polar line

Table 2: a comparison between how we classified malignant renal cell carcinomas (RCC) and benign tumours into group A (low complexity) and group B (intermediate to high complexity).

	Malignant	Benign	Total
RCC	131	192	237
Column %	69.84%	80.67%	
Row %	49.31%	81.79%	
Total %	37.65%	45.25%	77.1%
Benign	32	20	72
Column %	20.68%	13.87%	
Row %	72.23%	27.78%	
Total %	18.15%	6.15%	22.25%
Total	173	150	323
Total %	53.56%	46.44%	100.00%

RESULTS
173 (53.6%) patients were classified in group A and 150 (44.6%) patients in group B. The median age from groups A and B (64 vs. 62.5, p = 0.236), the operating time (95 vs. 100 minutes, p = 0.204), the median estimated blood loss (90ml vs. 100ml, p = 0.229) and median warm ischemia time (17 minutes vs. 18 minutes, p = 0.334) did not differ significantly. The rate of decline in renal function (16.2% vs. 18.7%, p = 0.056), and the rate of perioperative complications (9.3% vs. 14.7%, p = 0.166) also displayed insignificant differences.
Benign lesions were more prevalent in group A [OR 0.358, 95% CI 0.202-0.634, p < 0.001]. Positive surgical margins [OR 0.370, 95% CI 0.154-0.887, p < 0.023] were more frequently seen in malignant lesions from group A, but renal ischemia was less frequently required during resection [OR 3.654, 95% CI 2.196-6.08, p < 0.001] in this group.



CONCLUSION
From the results, we were able to draw two conclusions. We discovered that the only significant values were amongst pre-operative data. Chart 1 and chart 2 confirms that the RENAL score can indicate that tumours classified as group A are more likely to be benign than tumours classified as group B.

Regarding peri-operative data, no significant differences were found between tumours in group A and group B. In conclusion it is difficult to predict the perioperative outcomes of robot assisted partial nephrectomy with the RENAL nephrometry score alone.



Palacký University
Olomouc

University hospital



FAKULTNÍ NEMOCNICE
OLOMOUC





Palacký University
Olomouc

University hospital





Palacký University
Olomouc

University hospital

Number of departments:	66
Number of beds:	1,215
Number of employees:	4,365
Outpatients monitored per year:	1,339,100
Hospitalized patients per year:	48,226
Average treatment time in days:	5.70
Number of operations per year:	26,148





Palacký University
Olomouc

University Hospital Olomouc

- **Small groups / personal approach / student well-being**
- Tutors
- Buddy system 1+1

- Online study supports **AMBOSS**

- IFMSA, ERASMUS+

- **Clinical rotations abroad**





Palacký University
Olomouc

Clinical rotations abroad

- Option of arranging from the **fourth year onwards**
- Contract **directly with a university** (Erasmus)
 - Both placement and examination
- Contract **with a teaching / university hospital**
 - Placements at the said hospital, examination in Olomouc



Visitation of students on clinical rotations in abroad university hospitals



Palacký University
Olomouc

Student association - PEPA

The PEPA - **Palacký English Programme Association student association** that works in close cooperation with the school management on continuously improving the programme.

BRIDGE

between Czech and English programme students



To find out more about the project
see Facebook page Bridge Olomouc





Palacký University
Olomouc

Faculty of Medicine and Dentistry

Students by countries:

Israel

Japan

UK

Germany

Portugal

Taiwan

Cyprus

India





Palacký University
Olomouc

The graduates of General Medicine are awarded the degree MUDr. “Medicinae Universae Doctor” (**M.D., Doctor of General Medicine**).

The graduates of Dentistry are awarded the degree MDDr. “Medicinae Dentalis Doctor” (**M.D.S., Doctor of Dentistry**).

Accepted without further proof in **Europe Union**

Abroad of EU individual countries rules





Palacký University
Olomouc

Faculty of Medicine and Dentistry Olomouc - accreditation



Národní akreditační úřad
pro vysoké školství

EU standard accreditation - National Accreditation Bureau for
Higher Education (**NAB**) – Czech Republic



We herewith inform you about the decision of the Accreditation Commission for Degree Programmes taken on 20 September 2019 regarding the accreditation procedure for the below mentioned degree programme. Taking into consideration the assessments of the expert panel and the relevant Technical Committee, the Accreditation Commission took the following decision:

Degree Programme	ASIIN seal	Subject-specific labels	Maximum duration of accreditation
General Medicine, M.D.	With requirements for one year	AMSE	30.09.2024

Ongoing recognition through National Accreditation Bureau for Higher Education - Czechia



ECFMG™
A Member of Intealth

Educational Commission for Foreign
Medical Graduates





Entrance exam written test + oral



- 1. **Biology** (25 questions) 50 min
 - 2. **Chemistry** (35 questions) 50 min
 - 3. a) **Physics** (35 questions) 50 min
 b) or **Mathematics** (10 questions)
 - 4. **English** test (50 questions), 45 min
 - 5. **Interview** assessing communication skills, general knowledge, orientation, motivation, and aptitude
- minimum total 165 %**
- min. 60%**

	Applications	Doing the entry test	Accepted	Studying
GM	797/600/547	466/418/435	165/140/202	57/40/53/70
Dentistry	206/113/98	102/81/84	28/29/34	15/17/15/20



Palacký University
Olomouc

Faculty of Medicine and Dentistry Management



The Dean of the faculty:

**prof. MUDr. Milan Kolar,
Ph.D.**

jitka.melcrova@upol.cz

Dean's office:
Study Department



The Vice-Dean for the
English
programmes:

prof. Milan Raška

jana.osmani@upol.cz





MENTE ET CORDE



Facultas Medicinae
Universitas Palackiana
Olomucensis

See you in Olomouc...

