

NASTAVNO-NAUČNOM VEĆU  
STOMATOLOŠKOG FAKULTETA

Na sednici Nastavno-naučnog veća Stomatološkog fakulteta u Beogradu, održanoj 05.03.2024. godine određeni smo u Komisiju za sprovođenje postupka za **reizbor** u zvanje **NAUČNI SARADNIK** kandidata **dr sc med. Marka Magića**. Na osnovu Zakona o nauci i istraživanjima („Službeni glasnik RS“ br. 49/19), u skladu sa članom 21. Pravilnika o sticanju istraživačkih i naučnih zvanja („Službeni glasnik RS“ br. 159/2020 i 14/2023), podnetih dokumenata, uvida u rezultate naučnoistraživačkog rada, kao i višegodišnjeg poznavanja kandidata, podnosimo Nastavno-naučnom veću sledeći:

**IZVEŠTAJ**

***Opšti biografski podaci***

Marko Magić je rođen 07.06.1985. godine u Beogradu gde je završio osnovnu školu i gimnaziju. Na Stomatološkom fakultetu Univerziteta u Beogradu je diplomirao 2011. godine sa prosečnom ocenom 8.69. Školske 2011/2012 godine upisao je doktorske studije na Stomatološkom fakultetu Univerziteta u Beogradu. Položio je sve ispite predviđene planom i programom doktorskih studija sa prosečnom ocenom 9.75. Doktorirao je 27.09.2018. godine odbranivši doktorsku disertaciju pod nazivom: „Uticaj različitih modifikacija površine titana fizičkim i hemijskim metodama na njegovu citokompatibilnost i imunomodulacijska svojstva“. Specijalistički ispit iz oralne hirurgije položio je sa odličnim uspehom u julu 2019. godine na Fakultetu medicinskih nauka, Univerziteta u Kragujevcu. U naučno zvanje naučni saradnik u oblasti medicinskih nauka - stomatologija, na osnovu zahteva koji je podneo Institut za nuklearne nauke “Vinča”, izabran je 15.07.2019. godine .

Dobitnik je međunarodne ITI (International Team for Implantology) stipendije za školsku 2019/20 godinu u okviru koje provodi 6 meseci na univerzitetskoj klinici za implantologiju u Šangaju, Kina (Second Dental Center, Ninth People’s Hospital, Shanghai Jiao Tong University). Drugi deo ITI stipendije u trajanju od godinu dana (10/2022 - 10/2023) završava na klinici za oralnu

УНИВЕРЗИТЕТ У БЕОГРАДУ  
СТОМАТОЛОШКИ ФАКУЛТЕТ  
СЕКРЕТАРИЈАТ

04-04-2024

ПРИМАО

Орг. јед.	Број	Плкат	Вредност
01	430/2		



hirurgiju i klinici za stomatološku protetiku Stomatološkog fakulteta, Univerziteta u Beogradu pod mentorstvom prof. Alekse Markovića. Dobitnik je stipendije u trajanju od dve godine (2022-23) od strane FOR (Foundation for Oral Rehabilitation) fondacije pod nazivom "Emerging Leader Program".

### *Analiza naučnoistraživačkog rada*

**Dr sc med. Marko Magić** je od 2013. učesnik u nacionalnom projektu Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije pod evidencionim brojem **172026** i nazivom „Hemijsko i strukturno dizajniranje nanomaterijala za primenu u medicini i inženjerstvu tkiva“. Tokom izrade svoje doktorske disertacije **dr sc med. Marko Magić** primenjuje multidisciplinarni pristup u laboratorijskom ispitivanju efekata različitih metoda obrade površine implantata od titana na njihovu citotoksičnost i imunomodulacijska svojstva. U okviru stipendije Internacionalnog Tim za Implantologiju (ITI) usavršavao je tehnike upotrebe dinamičkih navigacionih sistema u implantologiji i istraživao njihovu preciznost. Pored toga bavio se i istraživanjima uticaja anatomskih specifičnosti maksilarnog sinusa na osteogenezu nakon koštane augmentacije poda maksilarnog sinusa.

### *Bibliografija*

Rezultati istraživanja u kojima je učestvovao **dr sc med. Marko Magić** publikovani su u vrhunskim međunarodnim časopisima (M21) – 7 radova, u istaknutim međunarodnim časopisima - 1 rad, i u međunarodnim časopisima (M23) – 6 radova; od toga nakon izbora u naučno zvanje naučni saradnik ukupno 5 radova: M21 - 2 rada, M22 - 1 rad, M23 - 2 rada. Pored toga, rezultati istraživanja su prezentovani u vidu jednog predavanja po pozivu sa međunarodnog skupa štampanog u izvodu (M32), i dva saopštenja sa međunarodnog skupa štampana u izvodu (M34).

## Spisak naučnih radova pre izbora u zvanje naučni saradnik:

### Radovi u vrhunskim međunarodnim časopisima, kategorija M21 (8)

1. **Magic M**, Zeljic K, Jovandic S, Stepic J, Pejovic M, Colic S, Magic Z, Supic G. Hedgehog signaling pathway and vitamin D receptor gene variants as potential risk factors in odontogenic cystic lesions. Clin Oral Investig. 2019; 23:2675-2684.
2. Cetenovic B, Prokic B, Vasilijic S, Dojcinovic B, **Magic M**, Jokanovic V, Markovic D. Biocompatibility Investigation of New Endodontic Materials Based on Nanosynthesized Calcium Silicates Combined with Different Radiopacifiers. J Endod. 2017;43:425-432.
3. Kujundzic B, Zeljic K, Supic G, **Magic M**, Stanimirovic D, Ilic V, Jovanovic B, Magic Z. Association of vdr, cyp27b1, cyp24a1 and mthfr gene polymorphisms with oral lichen planus risk. Clin Oral Investig. 2016;20:781-9.
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### Radovi u međunarodnim časopisima kategorije M23 (3)

6. **Magić M**, Čolović B, Jokanović V, Vasiljić S, Marković M, Vučević D, Rudolf R, Čolić S, Čolić M. Cytotoxicity of a titanium alloy coated with hydroxyapatite by plasma jet deposition. Vojnosanit Pregl 2019;76:492–501.
7. Bubalo M, Lazić Z, Tatić Z, Milović R, **Magić M**. The use of collagen membranes in guided tissue regeneration. Vojnisanit pregl. 2017;74:767-772.



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**Spisak naučnih radova nakon izbora u naučno zvanje naučni saradnik:**

**Radovi u vrhunskim međunarodnim časopisima, kategorija M21 (8)**

(8)

1. Zhou W, Wang F, **Magić M**, Zhuang M, Sun J, Wu Y. The effect of anatomy on osteogenesis after maxillary sinus floor augmentation: a radiographic and histological analysis. *Clin Oral Investig.* 2021;25:5197-5204.

**IF 2021 = 3,607**

**Dentistry, Oral Surgery & Medicine (26/91)**

(8)

2. **Magić M**, Wang F, Fan S, Wu Y. Dynamic Navigation Guidance for Bone Reduction in Maxilla: Case Report. *Int J Oral Maxillofac Implants.* 2021;36:1e1-e6.

**IF 2019 = 2,320**

**Dentistry, Oral Surgery & Medicine (24/91)**

**Nakon normiranja 4 boda**

**Radovi u istaknutim međunarodnim časopisima kategorije M22 (5)**

(5)

3. Fan S, Sáenz-Ravello G, Diaz L, Wu Y, Davó R, Wang F, **Magic M**, Al-Nawas B, Kämmerer PW. The Accuracy of Zygomatic Implant Placement Assisted by Dynamic Computer-Aided Surgery: A Systematic Review and Meta-Analysis. J Clin Med. 2023;12:5418.

**IF2021 = 4,964**

**Medicine, General & Internal (55/172)**

**Nakon normiranja 3,571 bodova**

**Radovi u međunarodnim časopisima kategorije M23 (3)**

(3)

4. **Magic M**, Zupanek G, Lazic Z, El Chaar E. Primary Stability of Trabecular Metal Implant in Comparison to Fully Threaded Implants: In Vitro Study Simulating Immediate Implant Placement. J Oral Implantol. 2022;48:584-589.

**IF2020 = 1,779**

**Dentistry, Oral Surgery & Medicine (75/92)**

(3)

5. **Magić M**, Čolović B, Vasilijić S, Tadić N, Stojadinović S, Jokanović V. Nanodesigned coatings obtained by plasma electrolytic oxidation of titanium implant and their cytotoxicity. J Appl Biomater Funct Mater. 2021;19:2280800018822252.

**IF2021 = 2,774**



**Spisak naučnih saopštenja:**

**Predavanje po pozivu sa međunarodnog skupa štampano u izvodu M32 (1,5)**

(1,5)

1. **Magic M.** Use of laser in oral surgery and implant dentistry. EODC European Online Dental Congress, Beograd 30.09 - 03.10.2021. Book of Abstracts: 127.

**Saopštenja sa međunarodnih skupova štampana u izvodu M34 (0,5)**

(0,5)

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(0,5)

2. Lorenz J, Ghanaati S, Aleksic Z, Milinkovic I, Lazic Z, **Magic M**, Wessing B, Schleich R, Mariotti G, Merli M, Bressan E, De Stavola L, Sader R. Clin Oral Impl Res. 2023; 34: 229.

***Prikaz naučnih radova***

U radu pod rednim **brojem 1** ispitivan je uticaj anatomskih faktora na koštano zarastanje nakon augmentacije poda maksilarnog sinusa. U ovoj kliničkoj studiji, 6 do 9 meseci nakon sinus lift intervencije uz upotrebu ksenografta uzimani su uzorci za histološku analizu. Korelacija između anatomskih i histomorfometrijskih varijabli je analizirana u modelu multiple regresije.



Pokazano je da široki maskilarni sinusi imaju tendenciju ka nižoj proporciji novoformiranog koštanog tkiva, dok visina rezidualnog alveolarnog grebena kao i oblik sinusa nemaju uticaja na osteogenezu nakon sinus lifta.

U radu pod rednim **brojem 2** u prikazu slučaja opisana je upotreba dinamičkog navigacionog sistema za koštanu redukciju u gornjoj vilici. U literaturi nema podataka o preciznosti dinamičkih navigacionih hirurških sistema za koštanu redukciju. Određivana je preciznost koštane redukcije, zajedno sa preciznošću dinamičkog sistema za ugradnju dva zigomatična implantata kao i 4 standardna implantata upotrebom statičke vođene hirurgije. Preciznost ove intervencije odgovara preciznosti kompjuterski vođene hirurgije za postavljanje implantata i može se smatrati pouzdanom nakon verifikacije kroz kliničke studije.

U radu **pod rednim brojem 3**, urađen je pregled literature i meta analiza sa ciljem ispitivanja preciznosti ugradnje zigomatičnih implantata upotrebom dinamičke navigacije, statičke kompjuterski vođene hirurgije, i ugradnje slobodnom rukom kod pacijenata sa atrofičnom bezubom gornjom vilicom. Ukupno 14 studija sa 511 zigomatičnih implantata je uključeno. Nađene su značajne razlike u preciznosti između tri poređene grupe. Upotreba dinamičke navigacije kao i modifikovanih hirurških vođica pokazuje klinički prihvatljive ishode u pogledu prosečne devijacije položaja na ulasku i vrhu implantata kao i ugaonih devijacija. Maksimalna devijacija je primećena upotrebom konvencionalnih statičkih hirurških vođica.

U radu **pod rednim brojem 4** određivana je primarna stabilnost implantata od poroznog tantala (trabekularni metal) i poređena je sa implantatima standardnih navoja na *in-vitro* modelu imedijatne ugradnje implantata u prednjem segmentu gornje vilice. Kako bi se simulirala imedijatna ugradnja, implantati su ugrađivani upotrebom hirurške vođice u govede rebro pod uglom od  $20.7^\circ$ , koji je izračunat analizom CBCT snimaka. Merene su primarna stabilnost implantata upotrebom obrtnog momenta pri ugradnji implanta, analizom rezonantne frekvence, kao i vreme potrebno za ugradnju implantata. Rezultati su pokazali da implantata od poroznog tantala može da postigne dobru primarnu stabilnost u ovim eksperimentalnim uslovima.

U radu **pod rednim brojem 5** ispitivana je citotoksičnost implanta od titana upotrebom MTT, LDH i propidijum jodid eseja i svetlosnom mikroskopijom na kulturi L929 ćelija. Implant od titana je tretiran plazma elektrolitičkom oksidacijom i sledstvenom jonskom razmenom i



termalnim tretmanom kako bi se obezbedio bioaktivni sloj titan oksida, kalcijum i natrijum titanata i hidroksiapatita, čije prisustvo je potvrđeno rendgenskom difrakcijom. Skening elektronskom mikroskopijom je pokazana nanotopologija pogodna za vezivanje i proliferaciju ćelija. Ispitivanja citotoksičnosti su pokazala da ovako obrađena površina titana nije toksična za L929 ćelije.

### ***Elementi za ocenu istraživačkog doprinosa kandidata***

#### ***Citiranost radova***

Ukupna citiranost radova do 15.03.2024. godine, u okviru Scopus baze, iznosi 127 heterocitata i 2 autocitata. U okviru Web of Science baze 108 heterocitata i 2 autocitata. Hiršov indeks (h-index) je 7.

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DOCUMENT TYPE: Book Chapter
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### ***Kvalitativni pokazatelj naučno-istraživačkog rada kandidata***

Dr sc med. Marko Magić učestvovao je na **nacionalnom projektu**: br. 172026, pod nazivom „Hemijsko i strukturno dizajniranje nanomaterijala za primenu u medicini i inženjerstvu tkiva“ (2013-2020). Istraživač je na projektu finansiranom od strane ITI fondacije (Bazel, Švajcarska) u implantološkom centru Stomatološkog fakulteta u Beogradu (2023-2026).

**Tabela sa kvantitativnom ocenom naučnih rezultata**

Naučna kompetentnost **dr sc med. Marka Magića** može biti predstavljena u sledećem sažetku kategorizacije i evaluacije naučnih rezultata:

**Tabela 1.** Pregled kvantitativnih vrednosti publikacija Dr sc med Marka Magića posle izbora u zvanje naučni saradnik

Oznaka	Vrsta rezultata	Broj rezultata	Vrednost "M"	Ukupno poena	IF	Broj normiranih bodova
<b>M20</b>	M21	2	8	12	4.767	12
	M22	1	5	5	4.964	3.571
	M23	2	3	6	4.523	6
<b>M30</b>	M32	1	1.5	1.5		1.5
	M34	2	0.5	1		1
	<b>Ukupno</b>	<b>8</b>		<b>25.5</b>	<b>14.254</b>	<b>24.071</b>

**Tabela 2.** Potreban broj bodova za izbor u zvanje naučnog saradnika i broj bodova kandidata.

Oznaka grupe	Potreban broj bodova	Broj normiranih bodova kandidata
<b>M10+M20+M31+M32+M33+M41+M42</b>	10	23.071
<b>M11+M12+M21+M22+M23</b>	6	21.571
<b>Ukupno</b>	<b>16</b>	<b>24.071</b>



### ***Mišljenje i zaključak komisije***

Dosadašnji naučni rad **dr sc med. Marka Magića** obuhvata esperimentalna i klinička istraživanja iz oblasti mikro i makro dizajna implantata. Uz ova istraživanja bavio se i ispitivanjima preciznosti različitih sistema kompjuterski vođene ugradnje implantata. Pored toga, **dr sc med. Marko Magić** je trenutno posvećen ispitivanjima različitih protokola ugradnje i opterećenja implantata u cilju skraćivanja ukupnog trajanja implantološke terapije. Komisija sa zadovoljstvom konstatuje da je imala priliku da analizira naučni doprinos istraživača čiji su rezultati objavljeni u nekim od vodećih međunarodnih časopisa, o čemu svedoči i zbir impakt faktora radova koji iznosi 14,254 nakon izbora u zvanje naučnog saradnika. Kandidat je stekao raznovrsno eksperimentalno i kliničko iskustvo, sposoban je da aktivno učestvuje u planiranju istraživanja, njegovoj realizaciji, obradi i interpretaciji podataka, kao i završnom uobličavanju naučnog rada.

Razmotrivši naučni doprinos **dr sc med. Marka Magića**, aktuelnost istraživanja kojima se bavi, značaj i originalnost njegovih rezultata, kao i ostale kvalitete kandidata, komisija sa zadovoljstvom predlaže Nastavno-naučnom veću Stomatološkog fakulteta Univerziteta u Beogradu da prihvati ovaj izveštaj i utvrdi predlog za reizbor **dr sc med. Marka Magića** u zvanje **naučni saradnik**.

U Beogradu, 27.03.2024. godine



Komisija:

Prof. dr Miroslav Andrić, Stomatološki fakultet u Beogradu, predsednik komisije



Prof. dr Vitomir Konstantinović, Stomatološki fakultet u Beogradu



Prof. dr Dubravka Marković, Medicinski fakultet u Novom Sadu