



Annex no. 1 – Prize application\*

1. Candidate

Name: COVIC

Previous Names (if any):-

First name: ADRIAN-CONSTANTIN

Doctor from the year (a copy of the doctor's degree or equivalent is presented): 1997

Position: PROFESSOR DOCTOR

Institution: "GRIGORE T. POPA" UNIVERSITY OF MEDICINE AND PHARMACY IAȘI

Mobile phone: -

Email address: -

2. "Romanian Research Gala" edition: 2024

3. Award and category for which you apply (individual or research team): individual; scientific field  
Medicine - "Ana Aslan" Award

4. Team leader, if applicable: NO

5. Composition of the research team, if applicable (names of team members, position held, year of last degree awarded): NO

6. A description of the most important scientific achievements of the last 5 years (max. 4 pages, A4 format, Times New Roman characters, 12 points, 1.5 line spacing and 2 cm margins)\*\*.

7. Narrative Curriculum Vitae of the "individual" candidate or of each member of the research team, in the case of the "research team" candidate, showing the results of the research activity of last 5 years, according to the quantitative indicators in Annex no. 2 to the qualitative assessment criteria provided in Annex no. 3 to the regulation.

8. The list of publications of the "individual" candidate or of each member of the research team, in the case of the "research team" candidate, highlighting the relevant publications of the candidate in the last 5 years and the joint publications of the members of a research team in the case of the candidate "research team". A link to the web page where the candidate's publications can be found is also mentioned.

9. List of research projects won by the candidate and their value.

10. List of patents filed and accepted, if applicable.



## MINISTERUL CERCETĂRII, INOVĂRII ȘI DIGITALIZĂRII

\* Se redactează în limba engleză. Prin excepție, redactarea cererii de premiere se face în limba română pentru cererile din domenii cu specific românesc:

limba și literatura română și dreptul românesc.

\*\* Rezultatele activității de cercetare sunt evaluate conform Anexei nr. 3 la Regulamentul de organizare și funcționare a programului Gala Cercetării Românești.

## ***CURRICULUM VITAE***

**ADRIAN CONSTANTIN M. COVIC, M.D., PHD.**

### **PERSONAL HISTORY:**



<u>Home Address</u>	Grigore Ghica Voda street, no 36, Iasi, Romania
<u>Phone</u>	
<u>E-mail</u>	
<u>Date of birth</u>	May 6 <sup>th</sup> , 1967
<u>Nationality</u>	Romanian
<u>Married</u>	Adina Otilia Covic
<u>Children</u>	Andreea Simona Covic Alexandra Maria Covic

### **PRESENT POSITIONS**

- Professor, "Grigore T. Popa" University of Medicine and Pharmacy Iasi, Romania
- Vice-rector of Scientific research of the "Grigore T. Popa" University of Medicine and Pharmacy, Iasi, Romania
- Senior Consultant in Internal Medicine
- Senior Consultant in Nephrology
- **Consultant in Cardiology**
- **Hypertension Specialist of the European Society of Hypertension**
- MD, PhD, FRCP (London), FERA
- Chief of Division of Nephrology, Renal Transplantation, "Dr C. I. Parhon" Hospital Iasi, Romania
- President of the Romanian Society of Nephrology
- Member of the Romanian Academy of Medical Sciences

**WORKING PLACE:**

"Grigore. T. Popa" University of Medicine and Pharmacy Iasi, Romania - Universitatii Street,16, Iasi.  
Department Nephrology and Internal medicine, "Dr C. I. Parhon" Hospital Iasi, Carol I, 50, Iasi

**EDUCATION:**

1981 – 1985                      College "C. Negruzzi" Iasi - **graduated 1<sup>st</sup>**

1985 - 1991:                      "Grigore T. Popa" University of Medicine and Pharmacy, Iasi,  
Romania - - **graduated 1<sup>st</sup>**

**POSTGRADUATE TRAINING:**

1991 - 1996                      Internal Medicine **resident**

1992-1995                      **Honorary Research Registrar,**  
England, Manchester, Withington Hospital, Artificial Kidney Unit,

1997                                **Faire Fonction d'Interne,**  
CHU D'Amiens, Hopital Sud, Amiens, France AFSA (Attestation de  
Formation Specialise en Nephrologie) program.

1998                                Germania, Leipzig, Herz-zentrum, Klinikum Fur Herzchirurgie,  
Dr. D. V. Schmitt

1998                                National (Romanian) Board of Nephrology

1999                                Research Associate in research programs Genetic Susceptibility to ESRD  
Prof. John Sedor, CWRU and Metro Health Medical Center

2008                                Fellow of the Royal College of Physicians (England) - FRCP

2011                                Fellow of the European Renal Association - FERA

2016                                Fellow - European Society of Cardiology

2018                                Fellow of the Royal College of Physicians (Edinburgh)

### **ACADEMIC AND PROFESSIONAL APPOINTMENTS**

- 1991 - 2000: Assistant Professor of Nephrology - "Grigore T. Popa" University of Medicine and Pharmacy Iasi, "Dr. C.I. Parhon" Hospital, IVth Medical Clinic, Nephrology, Iasi, Romania
- 1994 - present: Physician - Nephrology Department - "Dr. C.I. Parhon" Hospital, Iasi, Romania
- 1997: Ph.D. dissertation: **Study of cardiovascular abnormalities and determinant factors in chronic renal failure, and the impact of renal replacements methods** - Prof. V. Tacu, MD, PhD.
- 1997 Interne des Hopitaux d'Amiens, CHU d'Amiens. AFSA (Attestation de Formation Specialise en Nephrologie) program.
- 1999-2000 Principal investigator in Case Western Reserve University, and Remmelkamp Center for Research, MetroMedical Hospital
- 1999 - 2005 Dialysis Center Director, "Dr. C. I. Parhon" Hospital, Iasi, Romania
- 2000 –2004 Associate Professor of Nephrology - "Grigore T. Popa" Iasi, University of Medicine and Pharmacy, "Dr. C. I. Parhon" Hospital, Nephrology Department, Iasi, Romania
- 2002 – 2003 Medical Director - "Dr. C.I. Parhon" Hospital, Iasi, Romania
- 2003 – 2012 Manager - "Dr. C.I. Parhon" Hospital, Iasi, Romania
- 2002 – 2005 Secretary - Romanian Society of Nephrology
- 2003 – 2011 Council member - European Renal Association ERA-EDTA
- 2004 - present Professor- "Grigore T. Popa" Iasi, University of Medicine and Pharmacy, "Dr. C. I. Parhon" Hospital, Nephrology Department, Iasi, Romania
- 2004 - 2008 Vice-Dean of "Grigore T. Popa" Iasi, University of Medicine and Pharmacy, Iasi, Romania

- 2005 – 2008     President - Romanian Society of Nephrology
- 2007- 2008     National Register of Evaluators - ARACIS
- 2005 – 2011     Secretary-Treasurer- European Renal Association ERA/EDTA
- 2009 - present   Member - Romanian Academy of Medical Sciences
- 2012 - 2020     President - Romanian Society of Nephrology
- 2012 - present   Vice-rector of Scientific research “Grigore. T. Popa” University of Medicine and Pharmacy Iasi, Romania  
 Director of the Research Center Project “CERO - Career profile: Romanian researcher” - POSDRU / 159 / 1.5 / S / 135760  
 Director of Research Center type C "Research Center in the field of renal pathology" MEC / CNCIS 2005, Certificate no. 99  
 Coordinator of the "Methodological Center for Medical Research and Evidence-Based Medicine" - “Grigore T. Popa” University of Medicine and Pharmacy Iasi no. 580 / 10.10.2013
- 2015-2016     CNCS - National Council for Scientific Research
- 2017- present   CNATDCU (National Council for Attestation of Qualification Diplomas and University Certificates) Vice President Panel 3 - Biomedical Sciences, Vice-Chairman of the Committee on Medicine, Order 3761 / 09.02.2011 (period 2011 - 2014)  
 National kidney transplant program: coordinator of the Iasi Kidney Transplant Program  
 National Liver Dialysis Program
- 2023-present   **Hypertension Specialist**

**MEMBERSHIP OF PROFESSIONAL BODIES:**

- Romanian Society of Nephrology
- Romanian Society of Hypertension
- Romanian Society of Cardiology

- European Dialysis and Transplantation Association/ European Renal Association (ERA-EDTA)
- ERA-EDTA Council Member (2003 – 2011)
- ERA-EDTA Secretary Treasurer (2006 – 2011)
- ERA-EDTA Cardiovascular Working Group – EURECAM (2009-2011 – Secretary; 2011 – current Board member)
- 2013 - ERA-EDTA CKD-MBD Working Group
- European Renal Care Association – ERCA
- 2011 - present BANTAO Council member
- International Society of Nephrology – ISN
- European Society of Organ transplantation (ESOT)
- Chair of the Commission for the Global Advancement of Nephrology (COMGAN) Eastern and Central Europe Committee (ISN) (2009-2011)
- European Society of Hypertension - 2023
- Founder of Romanian Kidney Foundation
- Founder Foundation “Save the Kidney”
- Board of guideline European Renal Best Practice ERBP (2008-2020)
- Board of ERA-EDTA Dialysis Working Group – EUDIAL
- International Board KDIGO
- Romanian Medical Academy
- Romanian Academy of Scientists

**AWARDS:**

- 1986: "GrT. Popa University of Medicine and Pharmacy: Medical Congress - First prize  
 1987: "Gr.T. Popa University of Medicine and Pharmacy: Medical Congress - First prize  
 1988: "Gr.T. Popa University of Medicine and Pharmacy: Medical Congress - First prize  
 1989: "Gr.T. Popa University of Medicine and Pharmacy: Medical Congress - First prize  
 1998 38-th Romanian Congres of Cardiology, Sinaia, September – “First prize awarded by Pfizer for clinical and laboratory research on arterial hypertension”

- 2000: Young Investigator Award at the XXXIII-th EDTA / ERA European Congress of Nephrology, Nisa, September, 2000
- 2002 Romanian National College of Physicians Award for Scientific Activities in the field of Medical Specialties
- 2002 Young Investigator Award at the XXXV-th EDTA / ERA European Congress of Nephrology, Copenhagen, July, 2002
- 2003 Award - World Congress of Nephrology, Berlin 2003
- 2004 Certificate of Excellence – "Gr.T. Popa University of Medicine and Pharmacy Iasi, for the contribution to the kidney transplant in Iasi
- 2005 Certificate of Excellence - Manager of the year Award
- 2005 Certificate of Excellence in Nephrology MEDIC.RO
- 2008 Year Award "Iuliu Hatieganu"- Romanian Medical Academy
- 2009 Certificate for promotion of the programs for violence prevention
- 2016 SRN Plaque - Award for important contribution to the development of Nephrology in Romania, 25 years since the establishment of SRN
- 2017 "Constantin C. Iliescu" Award - Romanian Academy of Scientists
- 2019 Award for Performance and Innovation in Medicine - Medical Elites Gala 4th edition, October 24, 2019, Targul Mures
- 2020 Doctor of the Year Award 2020 - Romanian Healthcare Awards 2020
- 2021 Award for "Best Hospital Team / Department" for "Dr. C.I. Parhon" Hospital, Kidney Transplant Department- Medical Elite Gala, 5th Edition, 2021
- 2021 Excellence in Patients Care Awards, section International Award- Royal College of Physicians, London
- 2021 Finalist of Research Project of the Year 2021, Project "Long-term assessment of cardiovascular risk in CKD patients (chronic kidney disease) SARS-CoV-2 (CARDIO SCARS IN CKD)", Romanian Healthcare Awards
- 2022 Award for Research in Medical Education for the "Nephrology Department" "Grigore T.Popa" University of Medicine and Pharmacy - Medical Elite Gala, 7th Edition, 2022
- 2023 Award for "Best Medical Team" for "Dr. C.I. Parhon" Hospital, Kidney Transplant Department- CMR Iasi Gala, 6<sup>th</sup> Edition, Iasi

### **PRACTICAL EXPERIENCE**

- hemodialysis - planning and ordering in acute and chronic dialysis
- direct supervising of more than 20000 acute and chronic dialysis
- treatment of acute intra and interdialytic complications
- 1000 renal biopsies



- 40 bone biopsies
- echocardiographic techniques, in order to appreciate cardiac function and hydration
- pericardiocentesis techniques in patients with uremic pericarditis
- implementation of CAPD in Romania in 1995
- implementation of MARS – albumin (hepatic) dialysis in 2001 in Romania
- transplantation – chief of one of the three transplantation centers in Romania

Social skills and abilities                      Responsibility, team spirit, honesty, fairness

Organizational skills                              Ability to aggregate, coordinate work teams (residents, doctors) on medical and scientific issues (grants, programs), administrative issues; organization of medical congresses, conferences and events e.g. the international course "Renal Failure Academy", between 2003-2019, under the auspices of ERA-EDT, for young nephrologists from Central Eastern Europe

As medical doctor, researcher and university professor specialized in kidney diseases, dialysis and transplantation, solid expertise in the field of transplantation, quality and safety of substances of human origin, specific activities and functions related to transplantation, of human organs, tissues and cells. By holding positions of responsibility in the field of transplantation (Director of the Dialysis and Transplantation Centre in Iasi, General Director of the "Dr.C. I. Parhon" Hospital), having gained knowledge in several European institutions and being member of numerous European and international professional associations, gained extensive knowledge of EU Directives and good practices related to quality and safety of substances of human being (see especially: ERBP, KDIGO, ERA-EDTA, ESH).

I contributed directly to:

- a) The initiation, implementation and development of one of the three major transplantation programmes from Romania
- b) Implementation and development of new dialysis techniques in Romania: peritoneal dialysis, hepatic dialysis for acute intoxications and acute liver failure
- c) Implementation of the National pilot programme for dialysis privatization in Romania

### **RESEARCH PROGRAMS**

Publications according to ISI Web of Science (Clarivate Analytics):

#### **Scientific articles**

- **>650 (of which > 450 as main author - first author / last author)**

o List of foreign journals (Impact factor) - for each articles number

Nr.crt	REVISTA	IF	Nr. articole	REVISTA	IF	Nr. articole
1	NEW ENGLAND JOURNAL OF MEDICINE	59.558	2	JOURNAL OF THE AMERICAN SOCIETY OF HYPERTENSION	2.656	1
2	LANCET	44.002	3	AMERICAN JOURNAL OF NEPHROLOGY	2.605	10
3	PLOS MEDICINE	13.585	1	JOURNAL OF CLINICAL HYPERTENSION	2.549	9
4	ARCHIVES OF INTERNAL MEDICINE	11.462	1	JOURNAL OF ATHEROSCLEROSIS AND THROMBOSIS	2.495	1
5	NATURE REVIEWS NEPHROLOGY	9.463	3	CLINICAL HYPERTENSION IN NEPHROLOGY	2.438	1
6	JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY	8.491	1	HEMODIALYSIS: NEW METHODS AND FUTURE TECHNOLOGY	2.438	2
7	KIDNEY INTERNATIONAL	7.683	12	JOURNAL OF DIABETES RESEARCH	2.431	1
8	KIDNEY INTERNATIONAL SUPPLEMENTS	7.026	6	INTERNAL AND EMERGENCY MEDICINE	2.34	1
9	HYPERTENSION	6.294	4	BMC NEPHROLOGY	2.289	4
10	AMERICAN JOURNAL OF KIDNEY DISEASES	6.269	11	INTERNATIONAL JOURNAL OF CLINICAL PRACTICE	2.226	5
11	DIABETOLOGIA	6.206	1	LIPIDS IN HEALTH AND DISEASE	2.137	1
12	COCHRANE DATABASE OF SYSTEMATIC REVIEWS	6.103	1	BIOMED RESEARCH INTERNATIONAL	2.134	1
13	AMERICAN JOURNAL OF TRANSPLANTATION	5.669	1	THERAPEUTIC DRUG MONITORING	2.094	1
14	AMERICAN JOURNAL OF MEDICINE	5.61	1	JOURNAL OF INVESTIGATIVE MEDICINE	2.085	7
15	JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM	5.531	1	ARTIFICIAL ORGANS	1.993	1
16	SCIENTIFIC REPORTS	5.228	1	CLINICAL AND EXPERIMENTAL NEPHROLOGY	1.945	2
17	JOURNAL OF THE AMERICAN HEART ASSOCIATION	5.117	1	SEMINARS IN DIALYSIS	1.912	5
18	CLINICAL SCIENCE	4.996	1	INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING	1.88	1
19	PHARMACOLOGICAL RESEARCH	4.816	1	CLINICAL TRANSPLANTATION	1.844	1
20	CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY	4.657	10	ARCHIVES OF MEDICAL SCIENCE	1.812	1
21	PROGRESS IN CARDIOVASCULAR DISEASES	4.635	1	NEPHROLOGY	1.796	3
22	LIVER INTERNATIONAL	4.47	1	ANNALS OF NONINVASIVE ELECTROCARDIOLOGY	1.569	1
23	NEPHROLOGY DIALYSIS TRANSPLANTATION	4.085	145	JOURNAL OF VASCULAR ACCESS	1.535	1
24	SEMINARS IN ARTHRITIS AND RHEUMATISM	3.946	1	HEMODIALYSIS INTERNATIONAL	1.495	2
25	ATHEROSCLEROSIS	3.942	1	NEPHRON CLINICAL PRACTICE	1.471	4
26	SEMINARS IN NEPHROLOGY	3.773	1	NEPHRON	1.41	1
27	TRANSPLANTATION	3.69	5	BLOOD PURIFICATION	1.404	7
28	CURRENT OPINION IN NEPHROLOGY AND HYPERTENSION	3.232	1	PATHOLOGY RESEARCH AND PRACTICE	1.388	1
29	HYPERTENSION RESEARCH	3.208	1	JOURNAL OF NEPHROLOGY	1.352	18
30	CURRENT HYPERTENSION REPORTS	3.112	1	CLINICAL AND EXPERIMENTAL HYPERTENSION	1.307	2
31	PLOS ONE	3.057	3	PERITONEAL DIALYSIS INTERNATIONAL	1.298	3
32	CALCIFIED TISSUE INTERNATIONAL	3.052	2	INTERNATIONAL UROLOGY AND NEPHROLOGY	1.292	58
33	KIDNEY & BLOOD PRESSURE RESEARCH	2.908	5	CLINICAL NEPHROLOGY	1.065	3
34	JOURNAL OF SEXUAL MEDICINE	2.844	1	RENAL FAILURE	0.875	1
35	QJM-MONTHLY JOURNAL OF THE ASSOCIATION OF PHYSICIANS	2.824	1	ARCHIVES OF BIOLOGICAL SCIENCES	0.367	2
				DIALYSIS & TRANSPLANTATION	0.184	2

- **Hirsch Index**
  - *ISI = 63, Scopus = 74, Google Acad = 101.*
- **Citations no:**
  - *ISI = 14165, Scopus = 19328, Google Acad. = 31505*

Many articles (> 300) were made through collaboration between the valuable team from Iași that I coordinate and the research teams led by D. Goldsmith (London), P.A. Ackrill (Manchester), J. Sedor (Cleveland), C. Zoccali (Regio-Calabria), G. London and Z. Massy (Paris), M. Kanbay (Istanbul), A. Ortiz (Madrid), M. Vevloet (Amsterdam), W. v Biesen (Gent).

The main research areas were: • cardiovascular status of dialysis patients • vascular damage

and hypertension • mineral and bone disorder in CKD patients • anemia, urea kinetics modeling • dialysis in the elderly • main factors and prognosis of CKD patients • polycystic kidney disease (ADPKD) • hepatitis B and C in the hemodialysis patients • predictive factors for AKI.

**Articles with the most citations:**

**A European Renal Best Practice (ERBP) position statement on the Kidney Disease Improving Global Outcomes (KDIGO) Clinical Practice Guidelines on Acute Kidney Injury: Part 1: definitions, conservative management and contrast-induced nephropathy.** ad-hoc working group of ERBP, D Fliser, M Laville, **A Covic**, D Fouque, R Vanholder, L Juillard, W Van Biesen, **NEPHROLOGY DIALYSIS TRANSPLANTATION**, 2012, 27 (12) 4263-4272- **616 citations**

**Epidemiology, contributors to, and clinical trials of mortality risk in chronic kidney failure.** A Ortiz, **A Covic**, D Fliser, D Fouque, D Goldsmith et al. **The LANCET**, 2014, 383 (9931) 1831-1843- **488 citations**

**Kidney Disease: Improving Global Outcomes guidelines on anaemia management in chronic kidney disease: a European Renal Best Practice position statement.** F Locatelli, P Bárány, **A Covic**, A De Francisco, L Del Vecchio et al. **NEPHROLOGY DIALYSIS TRANSPLANTATION**, 2013, 28 (6) 1346-1359- **466 citations**

**Effect of treatment of hyperuricemia with allopurinol on blood pressure, creatinine clearance, and proteinuria in patients with normal renal functions.** M Kanbay, A Ozkara, Y Selcoki, B Isik, F Turgut, N Bavbek, E Uz, A Akcay, **Covic, A.** **INTERNATIONAL UROLOGY AND NEPHROLOGY**, 2007, 39 (4), 1227-1233 – **433 citations**

**COVID-19-related mortality in kidney transplant and dialysis patients: results of the ERACODA collaboration.** LB Hilbrands, R Duivenvoorden, P Vart, CFM Franssen, MH Hemmelder, **Covic A** et al. **NEPHROLOGY DIALYSIS TRANSPLANTATION**, 2020, 35 (11), 1973-1983 – **377 citations**

**The main articles:**

***Peginesatide in Patients with Anemia Undergoing Hemodialysis.*** Fishbane S, Schiller B, Locatelli F, **Covic AC**, Provenzano R, Wiecek A, Levin NW, Kaplan M, Macdougall IC, Francisco C, Mayo MR, Polu KR , Duliege AM, Besarab A. **NEW ENGLAND JOURNAL OF MEDICINE**; 2013; 368: 307-319

***The double challenge of resistant hypertension and chronic kidney disease.*** Rossignol P, Massy ZA, Azizi M, Bakris G, Ritz E, **Covic A**, Goldsmith D, Heine GH, Jager KJ, Kanbay M, Mallamaci F, Ortiz A, Vanholder R, Wiecek A, Zoccali C, London GM, Stengel B, Fouque D **LANCET** 2015;386: 1588-1598

***Systematic review of the evidence underlying the association between mineral metabolism***

*disturbances and risk of all-cause mortality, cardiovascular mortality and cardiovascular events in chronic kidney disease.* Covic A, Kothawala P, Bernal M, Robbins S, Chalian A, Goldsmith D. **NEPHROLOGY DIALYSIS TRANSPLANTATION** 2009;24:1506-1523

*Coronary artery disease in uremia: Etiology, diagnosis, and therapy.* Goldsmith DJA, Covic, A. **KIDNEY INTERNATIONAL** 2001; 60: 2059-2078

*Analysis of the effect of hemodialysis on peripheral and central arterial pressure waveforms.* Covic A, Goldsmith DJA, Panaghiu L, Covic M, Sedor J. **KIDNEY INTERNATIONAL**; 2000; 57: 2634-2643

#### **Textbook. Monographs.**

I have published (author, publisher) **34** books: treatise (1), monographs, Textbook (8), courses / medical practice book (14), practice guidelines chapters in different books (11).

#### **International books publishers:**

- **Cardio-renal Clinical Challenge** - Goldsmith DJ, Covic A, Spaak J (eds), Springer, 2015. Autor la 1 capitol: Uric acid, Allopurinol: the cardio-renal silver bullet?
- **Dyslipidemia in Kidney Diseases** – Covic A, Kanabay M, Lerna E (eds), Springer, 2014
- **Resistant Hypertension in Chronic Kidney Disease** - Covic A, Lerma E, Kanbay M (eds), Springer 2017
- **Oxford Textbook of Clinical Nephrology (4<sup>th</sup>ed)**. N.N. Turner (eds) Oxford University Press, 2015 A. Covic: Section Editor Part 4: „The patient with interstitial disease”; Coautor la 2 capitole: 86. *Chronic tubule-interstitial nephritis (Schiller A, Covic A, Segal L)*; 93. *Immune-mediated tubule-interstitial nephritis (Segal L, Covic A)*
- **Parathyroid Glands in Chronic Kidney Disease.** A Covic, D Goldsmith. PA Urena Torres. Kindle Edition, Springer, 2020
- **Clinical Nephrogeriatrics: An Evidence-Based Guide.** CG Musso, JR Jauregui, JF Macías-Núñez, A Covic. Kindle Edition, Springer, 2020
- **Frailty and Kidney Disease: A Practical Guide to Clinical Management.** CG Musso, José R Jauregui, J F Macías-Núñez, A Covic. Kindle Edition, Springer, 2020
- **Nutritional Management of Renal Disease. Chapter 22- Magnesium and kidney disease** M. Apetrii, A. Covic, ZA. Massy. Kindle Edition, Springer, 2022
- **Diabetes and Kidney Disease. Chapter: Bone Disease and Diabetes.** SC Bilha, A. Covic. Kindle Edition, Springer, 2022

- **Organ Crosstalk in Acute Kidney Injury.** CG Musso, A Covic. Kindle Edition, Springer, 2023. Chapter: Acute Kidney Injury: Definition and Generalities L Petraglia, CG Musso, A Covic; Chapter: Kidney- Muscle Crosstalk in Acute Kidney Injury T. Andrian, A Covic.

#### **National books publishers**

- **Handbook of Nephrology.** A Covic (coord), M Covic. Polirom, BIOS collection. 2007. ISBN POL973-46-0672-6.
- **Hemodialysis. Theoretical and practical principles.** A Covic (coord). Demiurg Plus. 2010. ISBN 973-152-202-9.
- **Nephrology. Theoretical and practical principles.** A Covic (coord). Demiurg Plus. 2011. ISBN 973-152-236-4.
- **Handbook of Nephrology.** A Covic (coord). "Grigore T Popa" Publishing House, UMF Iași. 2020. ISBN 978-606-544-727-1
- **Genomic Medicine and common adult illnesses.** A Covic, EV Gorduza, M Covic. Polirom, 2020. ISBN 978-973-46-8332-1
- **News on diabetes and associated diseases.** Chapter The latest treatment news in diabetic patients with chronic kidney disease. "Grigore T Popa" Publishing House, UMF Iași. 2020. ISBN 9786065447837
- **Hereditary and congenital kidney diseases.** A Covic, C. Gavrilovici, M. Covic. Polirom, Iași, 2022. ISBN 978-973-46-8994-1

**Co-Chair (A. Covic K. Farrington) of the European Guideline: „Clinical practice guideline on the management of chronic kidney disease (CKD) in frail or elderly patient”**

**Co-Autor of the European Guideline: *AKI Crush recommendations: a step forward in disaster nephrology Clinical Practice Guideline on management of patients with diabetes and chronic kidney disease stage 3b or higher (eGFR <45 mL/min)***

#### **Co-Autor : Position Statement**

- *A European Renal Best Practice (ERBP) position statement on the Kidney Disease Improving Global Outcomes (KDIGO) Clinical Practice Guidelines on Acute Kidney Injury: Part 1: definitions, conservative management and contrast-induced nephropathy*
- *Should patients with CKD stage 5D and biochemical evidence of secondary hyperparathyroidism be prescribed calcimimetic therapy? An ERA-EDTA position statement*

- *Endorsement of the Kidney Disease Improving Global Outcomes (KDIGO) Chronic Kidney Disease–Mineral and Bone Disorder (CKD-MBD) Guidelines: a European Renal Best Practice (ERBP) commentary statement*
- *Target haemoglobin to aim for with erythropoiesis-stimulating agents: a position statement by ERBP following publication of the Trial to Reduce Cardiovascular Events with Aranesp® Therapy (TREAT) Study*
- *Anaemia management in patients with chronic kidney disease: a position statement by the Anaemia Working Group of European Renal Best Practice (ERBP)*
- *Educating end-stage renal disease patients on dialysis modality selection: clinical advice from the European Renal Best Practice (ERBP) Advisory Board*
- *Evaluation of peritoneal membrane characteristics: a clinical advice for prescription management by the ERBP working group*
- *Endorsement of the Kidney Disease Improving Global Outcomes (KDIGO) hepatitis C guidelines: a European Renal Best Practice (ERBP) position statement*
- *Coronary artery disease in dialysis patients: evidence synthesis, controversies and proposed management strategies EUDIAL Position Statement*

**Principal investigator** of the study on “Genetic Susceptibility in ESRD”, Case Western Reserve University, Cleveland, USA

**Co-investigator** in the “Model Renal Sister Programme” with dr. D. Goldsmith from Guy’s Hospital, London

**Project Director** "An Multicenter study, subcutaneous once-weekly of Beta-Erythropoietin compared to biweekly administration of maintenance treatment for anemia in hemodialysis patients". 2004 (Completed) Official study of the Romanian Society of Nephrology in collaboration with F.Hoffman La Roche, nr. 10/06.01.2004

**Project Director** “Study of arterial compliance and endothelial function as cardiovascular risk factors in peritoneal dialysis, hemodialysis and renal transplant patients”, Hemofarm's grant for scientific research in the field of dialysis (2004)

**Principal investigator in the study:** “A Phase 2, Open-Label, Multi-Center, Dose Finding Study of the Safety, Pharmacodynamics and Pharmacokinetics of AF37702 Injection (Hematide™) for the Maintenance Treatment of Anemia in Hemodialysis Patients Previously Treated with Epoetin”, August 2006, Protocol: # AFX01-07

**Principal investigator in the study:** "An Open-label, Multi-center, Extension Study to Evaluate the Safety and Tolerability of AF37702 Injection (Hematide™) for the Long-Term Maintenance Treatment of Anaemia in Patients with Chronic Kidney Disease". August 2006, Protocol #AFX01-10

**Investigator for:**

1. **Study name:** A multicentre, open-label, single arm study to investigate the safety and efficacy of intravenous vit -45 in haemodialysis patients with anaemia. VIFOR INT. INC. Sponsor protocol: VIFOR VIT-45 (2003- 2004)
2. **Study name:** BAXTER PRO-RENAL-REG-049 Efficacy and safety of epo. omega delivered thrice weekly by the subcutaneous route in hemodialysis patients with renal anaemia: a randomized trial with an active treatment control Short title: EPOMAX VS. NEORECORMON 3X/WEEK\_(2004 – 2005)
3. **Study name:** Current management of secondary hyperparathyroidism – a multicentre observational study COSMOS. Principal investigator: Prof. J.B. Cannata Andia - Bone and mineral research unit hospital central de asturias C/Julien Claveria Oviedo, Spain. Romania – National coordinator. (2005-2006)
4. **Study name:** Optimal renal anaemia management assessment (ORAMA) – a randomized, prospective parallel – centre study to assess the impact of implementing European best practice guidelines on outcomes in the management of renal anaemia. Sponsor: HOFFMANN – LA ROCHE LTD. A clinical study observational non interventional mh 18049. (2005-2006)
5. **Study name:** XM 01 – 06 Efficacy and safety of s.c. administration of XM 01 compared to Epoetin beta in anaemic chronic renal failure patients not yet receiving dialysis and in maintenance phase treatment with epoetin beta
6. **Study name:** XM 01 – 04 Correction subcutaneous study efficacy and safety of s.c. administration of XM 01 and epoetin beta for treatment of anaemia in chronic renal failure patients not yet receiving dialysis
7. **Study name:** XM 01 – 05 Efficacy and safety of XM 01 compared to Epoetin beta in chronic renal failure patients on haemodialysis, peritoneal dialysis and patients not yet receiving dialysis, who are in the maintenance phase with epoetin
8. **Study name:** A multicenter, double blind, placebo controlled, parallel arm study to determine the long term safety and efficacy of an oral drug regimen in subjects with autosomal dominant polycystic kidney disease

9. **Study name:** A randomised, double blind, placebo controlled, parallel group study to assess the effect of the endothelin antagonist avosentan on time doubling of serum creatinine, end stage renal disease or death in patients with type 2 diabetes mellitus and diabetic nephropathy. protocol number spp301crd15
10. **Study name: Planet I:** A randomised, double-blind, 52-week, parallel-group, multicenter, phase 2B study to evaluate the effects of rosuvastatin 10 mg, rosuvastatin 40 mg and rosuvastatin 80 mg on urinary protein excretion in hypercholesterolemic diabetic with moderate proteinuria.
11. **Study name: Planet II:** Prospective evaluation of proteinuria and renal function in non-dialysis patients with progressive renal disease. Protocol d3569 c0001 (planet II).
12. **Study name: AFFYMAX 01-07** A phase 2, open-label, multi-center, dose finding study of the safety, pharmacodynamics and pharmacokinetics of AF37702 injection (Hematide™) for the maintenance treatment of anemia in hemodialysis patients previously treated with epoetin.
13. **Study name: AFFYMAX 01-10** An open-label, multi-center, extension study to evaluate the safety, and tolerability of AF37702 injection (Hematide™) for the maintenance treatment of anemia in patients with chronic kidney disease.
14. **Study name: AFFYMAX 01-13** A phase 3, randomized, active – controlled, open-label, multi-center study of the safety, and efficacy of AF37702 injection for the correction of anemia in patients with chronic renal failure (CRF) not on dialysis and not on erythropoiesis stimulating agent (ESA) treatment.
15. **Study name: AFFYMAX 01-14** A phase 3, randomized, active – controlled, open-label, multi-centre study of the safety, and efficacy of AF37702 injection for the maintenance treatment of anemia in hemodialysis patients previously treated with epoetin.
16. **Study name: NEOSE – NE-180-203** An open-label, sequential, ascending dose study to evaluate the safety, dose response and pharmacokinetics of repeated doses of NE-180 for the treatment of anemia in chronic kidney disease patients.
17. **Study name: CALMAG** Evaluation of calcium acetate/magnesium carbonate (Osvaren) compared to sevelamer in hemodialysis patients (phase III).
18. **Study name:** A 12-week, open label, multicentre, titration study, with a 9-month maintenance treatment extension to demonstrate efficacy of SBR759 compared to Sevelamer HCl in lowering serum phosphate levels in chronic kidney disease patients on hemodialysis - Novartis (phase II).



19. **Study name:** FER-CKD 01 An open-label, multi-centre, randomized, 3-arm study to investigate the comparative efficacy and safety of intravenous ferric carboxymaltose (Ferinject high-and low-dosage regimens) versus oral iron for the treatment of iron deficiency anemia in subjects with non-dialysis-dependent chronic kidney disease (phase III).
20. **Study name:** Effects of 150 g aleglitazar on renal function in patients with type 2 diabetes and moderate renal treatment, as compared to amctos (Hoffmann-La Roche phase II B).
21. **Study name:** A phase 3 multi-center, double-blind, placebo-controlled, parallel-arm trial to determine long-term safety and efficacy of oral tolvaptan tablet regimens in adult Otsuka 156-04-251.
22. **Study name:** A multi-center, longitudinal, observational study of patients with autosomal dominant polycystic kidney disease (ADPKD) to establish the rate, characteristics and determinants of disease progression Otsuka 156-10-291.
23. **Study name:** Multi-center, open-label, extension study to evaluate the long-term efficacy and safety of oral Tolvaptan tablet regimens in subjects with autosomal dominant polycystic kidney disease (ADPKD) Otsuka 156-08-271
24. **Study name:** A phase 2 multi-center, randomized, double-blind, placebo-controlled study of the safety, clinical activity and pharmacokinetics of bosutinib (PF-05208763) versus placebo in subjects with autosomal dominant polycystic kidney disease (ADPKD).
25. **Study name:** PMR-EC-1211 Investigating new onset diabetes mellitus in kidney transplant recipients receiving an Advagraf-based immunosuppressive regime with or without corticosteroids-a multicenter, two arm, randomized, open label clinical study.
26. **Study name:** The PRIMO study paricalcitol capsules benefits in renal failure induced cardiovascular morbidity in subjects with chronic kidney disease stage 3B/4 M10-030.
27. **Study name:** An open-label, randomized, active-controlled, parallel group, multi-centre, phase III study to investigate the safety and efficacy of PA 21 compared with sevelamer carbonate followed by a randomized comparison of PA 21-maintenance dose versus PA 21-low dose in dialysis patients with hyperphosphatemia PA-CL-05A.

## **Grants**

- *Grant IDEI - PCE 2011, PN-II-ID-PCE-2011-3-0637: „Extravascular lung water monitoring by combined ultrasound and bioimpedance as a guide for treatment in hemodialysis*

*cardiomyopathic renal patients*” – **project director** (1.149.240 RON). completed in 2016, 15 articles were published in ISI journals with a cumulative impact factor of 42

- **Grant IDEI** PCE, contract no. 167/2017 „Lung ultrasound guided fluid management protocol for the critically ill patient: a randomized controlled trial”, 12.07.2017-31.12.2019; „Grigore T. Popa” University of Medicine and Pharmacy Iasi; **project director**.
- **Grant IDEI** PN-III-P4-ID-PCE-2020-2393 P4- “Long-term assessment of cardiovascular risk in CKD patients following SARS-CoV2 (CARDIO SCARS IN CKD)” –(1 198 032 RON).
- **POR Project** (Regional Operational Program, Priority Axis 1 - Promoting Technology Transfer Investment Priority 1.1, Operation A - Supporting Innovation and Technology Transfer Entities), „Grigore T. Popa” University of Medicine and Pharmacy Iasi, SMIS 128789,“MAVIS Center for Innovation and Technology Transfer”, 26.06.2020 - 31.05.2022; **project director**
- **PED Project**, no. 429PED/2020 „Smart Health system based on artificial intelligence as a predictor for chronic kidney disease development”, 23.10.2020-22.10.2022; „Grigore T. Popa” University of Medicine and Pharmacy Iasi; **team member**.
- **Joint Operational Programme Romania – Moldova 2014-2020**, Support to the development of health services and access to health, “Cross-border integrated network for advanced health services in obesity, diabetes and metabolic disorders”; 27.04.2021-27.04.2023; **team member**
- **CENEMED** - Multidisciplinary medical research and development platform in the N-E region
- **COST Action CA18216 Project** „Network for Research in Vascular Ageing”; 05.11.2019-04.11.2023; **management Committee Member**
- **COST Action CA19127 Project** „Cognitive decline in Nephro-Neurology: European Cooperative Target”; 12.10.2020-11.10.2024; **management Committee Member**
- **UMF Iasi Grant nr.1640/01.02.2013**: „A combined cardiovascular and endocrine biomarker panel as a risk stratification tool for hemodialysis patients”

#### **Grant evaluator**

- **FP6 program (2002)**: “The 6th Framework Programme funded European Research and Technological Development”, the section “Life sciences, genomics and biotechnology for health”
- **PIVOTAL study (2012)**: “UK multicentre open-label randomised controlled trial of IV iron supplementation in incident haemodialysis patients”; Renal Unit, King’s College Hospital, London
- **grant**: “Characterization of the immune status of AKI patients: A preliminary study towards the development of a personalised approach to reduce post-AKI infections”; Cardiff University, UK (2016); kidneyresearchuk.org - Reference: IN\_004\_20160303

- grant: “The Astellas SEE Transplantation Grant 2017” – American Society of Transplant Surgeons

#### **Medical Events**

- Between 1993-2021 I participated in different scientific congresses and international conferences with oral and /or poster presentations: the annual congresses of ERA-EDTA, ASN and ISN; European congresses for peritoneal dialysis, hypertension and diabetes. I participated also to the national congresses of nephrology or cardiology.
- Important is the direct involvement in the organization of national conferences or congresses of nephrology (1996, 2002, 2013, 2015), especially the European educational course of Renal Failure Academy between 2003-2020 in Romania, under the auspices of ERA -EDTA, for young nephrologists from Central and Eastern Europe.

#### **Member of the editorial board of the following journals:**

- Nefrologia, Bucuresti; The Medical Surgical Journal, Iasi
- Journal of Nephrology, BMC Nephrology

#### **Referee for medical journal:**

- JASN, Kidney International, Peritoneal Dialysis International, Nephrology Dialysis Transplantation, American Journal of Kidney Disease, American Journal of Nephrology, Blood Pressure and Kidney Research, Nephron Clinical Practice, BMC Nephrology, Nephrology, Hypertension, Circulation

#### **ASSOCIATE EDITOR**

International Journal of Urology and Nephrology/Geriatric Urology and Nephrology (2006-2011),  
BANTAO Journal (2005-2009)  
Nephrology Dialysis Transplantation (2011-present)

#### **EDITOR in CHIEF NEPHROLOGY**

International Journal of Urology and Nephrology/Geriatric Urology and Nephrology (2006-present).

#### **Specific experience in the region:**

<b>Country</b>	<b>Date from – to</b>
U.K., Manchester, Withington Hospital	06.10.1992 – 30.01.1993; 13.09.1993 – 13.01.1994; 14.12.1994 – 13.03.1995
Belgium, Aalst	9-16.03.1996
France, Amiens, CHU Sud	15.06 – 30.09.1997
USA, Cleveland, Case Western Reserve University, Metro Hospitals	01.01.1999 – 01.03.2000
<b>Romania</b>	<b>1991-present</b>

**Professional Experience:**

<b>Nr.</b>	<b>Date</b>	<b>Location</b>	<b>Company</b>	<b>Position</b>
<b>1.</b>	1999 -present	Romania, Iasi	Dialysis and Transplantation Center (DTC)	<b>Director</b>
<b>2.</b>	1994 -present	Romania, Iasi	“Grigore T. POPA” University of Medicine and Pharmacy	<b>Professor</b>
<b>3.</b>	1991-present	Romania, Iasi	“Dr. C. I. Parhon” Hospital	<b>Medical Doctor/ General Director (2003-2011)</b>
<b>4.</b>	2009-2011	Central and Eastern Europe (home based)	COMGAN Eastern and Central Europe Committee	<b>Chairman</b>
<b>5.</b>	2008 - present	European Level	European Renal Best Practice (ERBP)	<b>Member</b>
<b>7.</b>	2009-2011	European Level	ERA-EDTA Cardiovascular Working Group (EURECAM)	<b>Secretary</b>
<b>8.</b>	2003-2011	European Level	ERA-EDTA Council Member	<b>Council Member/ Secretary Treasurer</b>
<b>9.</b>	Jan. 1999 – March 2000	<b>USA</b>	Cleveland, Case Western Reserve University	Program Director
<b>12.</b>	June – September 1997	<b>Amiens, France</b>	Hopital Sud	FFI
<b>13.</b>	March 1996	<b>Belgium</b>	University of Gent	Visiting doctor/ researcher
<b>14.</b>	1992-1995	<b>Manchester, UK</b>	Withington Hospital, Artificial Kidney Unit	Research Registrar

January 2024

Adrian Constantin Covic

Closely related to the didactic activity, but with adequate scientific support, is the concern for writing treatises, monographs, chapters, as follows: 34 books: treatise (1), monographs, Textbook (8), courses / medical practice book (14), practical guidelines chapters in different books (11): Parathyroid Glands in Chronic Kidney Disease. A Covic, D Goldsmith. PA Urena Torres. Kindle Edition, Springer, 2020; Clinical Nephrogeriatrics: An Evidence-Based Guide. CG Musso, JR Jauregui, JF Macías-Núñez, A Covic. Kindle Edition, Springer, 2020; Frailty and Kidney Disease: A Practical Guide to Clinical Management. CG Musso, José R Jauregui, J F Macías-Núñez, A Covic. Kindle Edition, Springer, 2020; Nutritional Management of Renal Disease. Chapter 22- Magnesium and kidney disease M. Apetrii, A. Covic, ZA. Massy. Kindle Edition, Springer, 2022; Diabetes and Kidney Disease. Chapter: Bone Disease and Diabetes. SC Bilha, A. Covic. Kindle Edition, Springer, 2022; Organ Crosstalk in Acute Kidney Injury. CG Musso, A Covic. Kindle Edition, Springer, 2023. Chapter: Acute Kidney Injury: Definition and Generalities L Petraglia, CG Musso, A Covic; Chapter: Kidney- Muscle Crosstalk in Acute Kidney Injury T. Andrian, A Covic.

I contributed directly to the initiation, implementation and development of one of the three major transplantation programmes from Romania; implementation and development of new dialysis techniques in Romania: peritoneal dialysis, hepatic dialysis for acute intoxications and acute liver failure and implementation of the National pilot programme for dialysis privatization in Romania.

Many articles (> 650) were made through collaboration between the valuable team from Iasi that I coordinate and the research teams led by D. Goldsmith (London), P.A. Ackrill (Manchester), J. Sedor (Cleveland), C. Zoccali (Regio-Calabria), G. London and Z. Massy (Paris), M. Kanbay (Istanbul), A. Ortiz (Madrid), M. Vevloet (Amsterdam), W. Van Biesen (Ghent). The main areas of interest include current topics approached through a modern research methodology. The first direction of research is represented by modern dialysis methods in order to follow the efficiency of dialysis, the prevention of intradialytic complications, the dialysis particularities in the elderly (eg article published in NEJM in 2023 “Effect of Hemodiafiltration or Hemodialysis on Mortality in Kidney Failure”); the main determining and prognostic factors for the survival of dialysis patients; cardiovascular status of dialysis patients; vascular damage and hypertension (article published in Lancet “The double challenge of resistant hypertension and chronic kidney disease”); bone damage in the renal patient (eg article published in Lancet “Bone and mineral disorders in chronic kidney

disease: implications for cardiovascular health and ageing in the general population”). The second direction of research consists in the long-term evaluation of patients with chronic kidney disease and cardiovascular disease during and after the COVID pandemic (revealed by the CARDIOSCARS grant and articles published in prestigious journals). The third direction is represented by the evaluation of kidney transplant patients during the COVID-19 pandemic - this is proven by the data reported in the European registers and the collaboration on different articles with international teams (eg Vart P, Duivenvoorden R, Franssen CFM, Hemmelder MH, Jager KJ, Hilbrands LB, Covic A et al. Preparing European Nephrology for the next pandemic: lessons from the ERACODA collaboration. Nephrology, dialysis, transplantation: official publication of the European Dialysis and Transplant Association - European Renal Association. 2023).

Notoriety in the professional field attracted the request to be part of the board of publications such as: Editor-in-Chief Nephrology at the "International Journal of Urology and Nephrology"; BMC Nephrology; Section-Editor at Journal of Nephrology; BMC Nephrology; Arch. Int Medicine; Associate Editor BANTAO Journal (2005 - present); Associate Editor Nephrology Dialysis Transplantation: IF-4.085; Peer-reviewer for: American Journal of Kidney Disease, Nephrology Dialysis Transplantation, Journal of American Society of Nephrology, Blood Pressure and Kidney Research, Peritoneal Dialysis International, International Journal of Urology and Nephrology, Kidney International, Circulation, Hypertension.

I am also a member of scientific and professional societies as: Romanian Society of Nephrology, Romanian Society of Hypertension, Romanian Society of Cardiology, International Society of Nephrology – ISN, European Society of Organ transplantation (ESOT), European Society of Hypertension. I am member of board of 5 international working groups: European Dialysis and Transplantation Association/ European Renal Association- Cardiovascular Working Group – EURECAM; ERA-EDTA CKD-MBD (Chronic Kidney Disease-Mineral and Bone Disorder); ERPBG (European Renal Best Practice Guidelines); KDIGO (Kidney Disease International Guidelines Organization), ERA-EDTA Dialysis Working Group-EUDIAL.

I was involved in management of prestigious scientific events with participation in different congresses of ERA-EDTA, ASN and ISN, in European congresses of peritoneal dialysis, hypertension, diabetes. I participated also to the national congresses of nephrology

or cardiology. It was significant the involvement in national Nephrology congresses, Nephro-Diab conferences and the European educational course "Renal Failure Academy" in Romania, under the auspices of ERA-EDTA, for young nephrologists from Central and Eastern Europe.

A special concern is found in the field of coordination and participation in national or international research projects as project director for: Grant IDEI PCE, contract no. 167/2017 „Lung ultrasound guided fluid management protocol for the critically ill patient: a randomized controlled trial”, 12.07.2017-31.12.2019; „Grigore T. Popa” University of Medicine and Pharmacy Iasi –(170.000 Euro); Grant IDEI PN-III-P4-ID-PCE-2020-2393 P4- ”Long-term assessment of cardiovascular risk in CKD patients following SARS-CoV2 (CARDIO SCARS IN CKD)” 4.01.2021-31.12.2023 „Grigore T. Popa” University of Medicine and Pharmacy Iasi –(240.000 Euro); POR Project (Regional Operational Program, Priority Axis 1 - Promoting Technology Transfer Investment Priority 1.1, Operation A - Supporting Innovation and Technology Transfer Entities), „Grigore T. Popa” University of Medicine and Pharmacy Iasi, SMIS 128789, ”MAVIS Center for Innovation and Technology Transfer”, 26.06.2020 - 31.05.2022 - –(1.296.000 Euro); team member for: PED Project, no. 429PED/2020 „Smart Health system based on artificial intelligence as a predictor for chronic kidney disease development”, 23.10.2020-22.10.2022; „Grigore T. Popa” University of Medicine and Pharmacy Iasi; –(60.000 Euro); Joint Operational Programme Romania – Moldova 2014-2020, Support to the development of health services and acces to health, “Cross-border integrated network for advanced health services in obesity, diabetes and metabolic disorders”; 27.04.2021-27.04.2023; –(223.000 Euro); management Committee Member for: CENEMED - Multidisciplinary medical research and development platform in the N-E region; COST Action CA18216 Project „Network for Research in Vascular Ageing”; 05.11.2019-04.11.2023; COST Action CA19127 Project „Cognitive decline in Nephro-Neurology: European Cooperative Target”; 12.10.2020-11.10.2024.

Due to scientific, didactic, professional values and scientific publishing, I have won national and international awards: “Constantin C. Iliescu” Award - Romanian Academy of Scientists ; Award for Performance and Innovation in Medicine - Medical Elites Gala 4<sup>th</sup> edition, October 24, 2019, Targul Mures; Doctor of the Year Award 2020 - Romanian Healthcare Awards 2020; Award for "Best Hospital Team / Department" for "Dr. C.I. Parhon" (2021); Hospital, Kidney Transplant Department- Medical Elite Gala, 5th Edition, 2021; Excellence in Patients Care Awards, section International Award- Royal College of Physicians,

London (2021); Finalist of Research Project of the Year 2021, Project "Long-term assessment of cardiovascular risk in CKD patients (chronic kidney disease) SARS-CoV-2 (CARDIO SCARS IN CKD)", Romanian Healthcare Awards (2021); Award for Research in Medical Education for the "Nephrology Department" (2022); "Grigore T.Popa" University of Medicine and Pharmacy - Medical Elite Gala, 7th Edition, 2022; Award for "Best Medical Team" for "Dr. C.I. Parhon" Hospital, Kidney Transplant Department- CMR Iasi Gala, 6<sup>th</sup> Edition, Iasi (2023).



## Anexe 1 : List of Articles

### ARTICLES PUBLISHED IN SCIENTIFIC JOURNALS

1. Vlad C, Burlacu A, Florea L, Covic A et al. A comprehensive review on apolipoproteins as nontraditional cardiovascular risk factors in end-stage renal disease: current evidence and perspectives. *International urology and nephrology*. 2019; 51(7): 1173-89.
2. Urena-Torres PA, Vervloet M, Mazzaferro S, Covic A, et al. **Novel insights into parathyroid hormone: report of The Parathyroid Day in Chronic Kidney Disease. *Clinical kidney journal*. 2019; 12(2): 269-80.**
3. Ureche C, Tapoi L, Volovat S, Covic A et al. Cardioprotective apelin effects and the cardiac-renal axis: review of existing science and potential therapeutic applications of synthetic and native regulated apelin. *Journal of human hypertension*. 2019; 33(6): 429-35.
4. Ureche C, Sascau R, Tapoi L, Covic A et al. Multi-modality cardiac imaging in advanced chronic kidney disease. *Echocardiography*. 2019; 36(7): 1372-80.
5. Tapoi L, Ureche C, Sascau R, Covic A et al. Atrial fibrillation and chronic kidney disease conundrum: an update. *Journal of nephrology*. 2019; 32(6): 909-17.
6. Spasovski G, Rroji M, Vazellov E, Covic A et al. **Nephrology in the Eastern and Central European region: challenges and opportunities. *Kidney international*. 2019; 96(2): 287-90.**
7. Siritopol D, Siritopol M, Stuard S, Covic A et al. **An analysis of the impact of fluid overload and fluid depletion for all-cause and cardiovascular mortality. *Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association*. 2019; 34(8): 1385-93.**
8. Rusu DM, Siritopol I, Grigoras I, Covic A et al. Lung Ultrasound Guided Fluid Management Protocol for the Critically Ill Patient: study protocol for a multi-centre randomized controlled trial. *Trials*. 2019; 20(1): 236.
9. Preda C, Branisteanu D, Armasu I, Covic A et al. **Coexistent papillary thyroid carcinoma diagnosed in surgically treated patients for primary versus secondary hyperparathyroidism: same incidence, different characteristics. *BMC surgery*. 2019; 19(1): 94.**
10. Plass AM, Van Praag D, Covic A, et al. **The psychometric validation of the Dutch version of the Rivermead Post-Concussion Symptoms Questionnaire (RPQ) after traumatic brain injury (TBI). *PloS one*. 2019; 14(10): e0210138.**
11. Onal EM, Afsar B, Covic A, et al. Gut microbiota and inflammation in chronic kidney disease and their roles in the development of cardiovascular disease. *Hypertension research : official journal of the Japanese Society of Hypertension*. 2019; 42(2): 123-40.
12. Mares M, Moroti-Constantinescu VR, Voroneanu L, Covic A et al. Invasive pulmonary infection due to *Thermoascus crustaceus* in a kidney transplant recipient. *Infection and drug resistance*. 2019; 12: 1929-34.
13. Lomonte C, Basile C, Mitra S, Covic A et al. **Should a fistula first policy be revisited in elderly haemodialysis patients? *Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association*. 2019; 34(10): 1636-43.**
14. Kumar S, Lim E, Covic A, et al. **Anticoagulation in Concomitant Chronic Kidney Disease and Atrial Fibrillation: JACC Review Topic of the Week. *Journal of the American College of Cardiology*. 2019; 74(17): 2204-15.**

15. **Ketteler M, Sprague SM, Covic AC, et al. Effects of sucroferic oxyhydroxide and sevelamer carbonate on chronic kidney disease-mineral bone disorder parameters in dialysis patients. *Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association*. 2019; 34(7): 1163-70.**
16. Kanbay M, Yilmaz S, Dincer N, Covic A et al. Antidiuretic Hormone and Serum Osmolarity Physiology and Related Outcomes: What Is Old, What Is New, and What Is Unknown? *The Journal of clinical endocrinology and metabolism*. 2019; 104(11): 5406-20.
17. **Kanbay M, Yerlikaya A, Sag AA, Covic A et al. A journey from microenvironment to macroenvironment: the role of metaflammation and epigenetic changes in cardiorenal disease. *Clinical kidney journal*. 2019; 12(6): 861-70.**
18. Kanbay M, Ertuglu LA, Afsar B, Covic A et al. Renal hyperfiltration defined by high estimated glomerular filtration rate: A risk factor for cardiovascular disease and mortality. *Diabetes, obesity & metabolism*. 2019; 21(11): 2368-83.
19. Hristov I, Mocanu V, Zugun-Eloae F, Covic A et al. Association of intracellular lipid accumulation in subcutaneous adipocyte precursors and plasma adipokines in bariatric surgery candidates. *Lipids in health and disease*. 2019; 18(1): 141.
20. Hirja AR, Voroneanu L, Siritopol D, Covic A et al. Evaluation of low-dose glucocorticoid regimen in association with cyclophosphamide in patients with glomerulonephritis. *International urology and nephrology*. 2019; 51(10): 1805-13.
21. Eren OC, Ortiz A, Afsar B, Covic A et al. Multilayered Interplay Between Fructose and Salt in Development of Hypertension. *Hypertension*. 2019; 73(2): 265-72.
22. Erbil D, Onal EM, Demirel C, Covic A et al. Can Incidental Vascular Calcifications at Mammography be Used as a Screening Biomarker for Heart and Kidney Disease? *Angiology*. 2019; 70(3): 210-9.
23. Dincer N, Dagal T, Afsar B, Covic A et al. The effect of chronic kidney disease on lipid metabolism. *International urology and nephrology*. 2019; 51(2): 265-77.
24. Burlacu A, Tinica G, Nedelciuc I, Covic A et al. Strategies to Lower In-Hospital Mortality in STEMI Patients with Primary PCI: Analysing Two Years Data from a High-Volume Interventional Centre. *Journal of interventional cardiology*. 2019; 2019: 3402081.
25. Burlacu A, Simion P, Nistor I, Covic A et al. Novel percutaneous interventional therapies in heart failure with preserved ejection fraction: an integrative review. *Heart failure reviews*. 2019; 24(5): 793-803.
26. **Burlacu A, Genovesi S, Ortiz A, Covic A et al. Pros and cons of antithrombotic therapy in end-stage kidney disease: a 2019 update. *Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association*. 2019; 34(6): 923-33.**
27. Burlacu A, Artene B, Nistor I, Covic A et al. Religiosity, spirituality and quality of life of dialysis patients: a systematic review. *International urology and nephrology*. 2019; 51(5): 839-50.
28. Bob F, Schiller A, Timar R, Covic A et al. Rapid decline of kidney function in diabetic kidney disease is associated with high soluble Klotho levels. *Nefrologia*. 2019; 39(3): 250-7.
29. **Afsar B, Sag AA, Oztosun C, Covic A et al. The role of uric acid in mineral bone disorders in chronic kidney disease. *Journal of nephrology*. 2019; 32(5): 709-17.**
30. **Afsar B, Elsurer Afsar R, Kanbay A, Covic A et al. Air pollution and kidney disease: review of current evidence. *Clinical kidney journal*. 2019; 12(1): 19-32.**

31. Abdulan IM, Onofriescu M, Stefaniu R, Covic A et al. The predictive value of malnutrition for functional and cognitive status in elderly hemodialysis patients. *International urology and nephrology*. 2019; 51(1): 155-62.
32. Burlacu A, Artene B, Crisan-Dabija R, Popa IV, Covic A. Is Thrombophilic Genetic Profile Responsible for an Acute Ischemic Stroke in a COVID-19 Male Patient? *Clin Appl Thromb Hemost*. 2020;26:1076029620967107.
33. **Burlacu A, Covic A. Longer or shorter dual antiplatelet therapy in dialysis patients receiving a coronary drug-eluting stent? A rope game still ongoing. *Clin Kidney J*. 2020;13(5):749-52.**
34. **Burlacu A, Covic A. The Devil Is in the Details When Considering the OAC Efficacy-Safety Equation in Dialysis Patients. *J Am Coll Cardiol*. 2020;76(3):349-50.**
35. Burlacu A, Covic A, Cinteza M, Lupu PM, Deac R, Tinica G. Exploring Current Evidence on the Past, the Present, and the Future of the Heart Team: A Narrative Review. *Cardiovasc Ther*. 2020;2020:9241081.
36. Burlacu A, Genovesi S, Artene B, Covic A. 'Will the king ever be dethroned?' The relationship and the future of oral anticoagulation therapy versus LAA closure devices. *Expert Rev Cardiovasc Ther*. 2020:1-4.
37. **Burlacu A, Iftene A, Busoiu E, Cogean D, Covic A. Challenging the supremacy of evidence-based medicine through artificial intelligence: the time has come for a change of paradigms. *Nephrol Dial Transplant*. 2020;35(2):191-4.**
38. Burlacu A, Iftene A, Jugrin D, Popa IV, Lupu PM, Vlad C, Covic A. Using Artificial Intelligence Resources in Dialysis and Kidney Transplant Patients: A Literature Review. *Biomed Res Int*. 2020;2020:9867872.
39. Burlacu A, Tinica G, Artene B, Simion P, Savuc D, Covic A. Peculiarities and Consequences of Different Angiographic Patterns of STEMI Patients Receiving Coronary Angiography Only: Data from a Large Primary PCI Registry. *Emerg Med Int*. 2020;2020:9839281.
40. Covic A, Copur S, Tapoi L, Afsar B, Ureche C, Siriopol D, et al. Efficiency of Hypertonic Saline in the Management of Decompensated Heart Failure: A Systematic Review and Meta-Analysis of Clinical Studies. *Am J Cardiovasc Drugs*. 2020.
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## **Research projects**

**Principal investigator** of the study on “Genetic Susceptibility in ESRD”, Case Western Reserve University, Cleveland, USA

**Co-investigator** in the “Model Renal Sister Programme” with dr. D. Goldsmith from Guy’s Hospital, London

**Project Director** "An Multicenter study, subcutaneous once-weekly of Beta-Erythropoietin compared to biweekly administration of maintenance treatment for anemia in hemodialysis patients". 2004 (Completed) Official study of the Romanian Society of Nephrology in collaboration with F.Hoffman La Roche, nr. 10/06.01.2004

**Project Director** “Study of arterial compliance and endothelial function as cardiovascular risk factors in peritoneal dialysis, hemodialysis and renal transplant patients”, Hemofarm’s grant for scientific research in the field of dialysis (2004)

**Principal investigator in the study:** “A Phase 2, Open-Label, Multi-Center, Dose Finding Study of the Safety, Pharmacodynamics and Pharmacokinetics of AF37702 Injection (Hematide™) for the Maintenance Treatment of Anemia in Hemodialysis Patients Previously Treated with Epoetin”, August 2006, Protocol: # AFX01-07

**Principal investigator in the study:** “An Open-label, Multi-center, Extension Study to Evaluate the Safety and Tolerability of AF37702 Injection (Hematide™) for the Long-Term Maintenance Treatment of Anaemia in Patients with Chronic Kidney Disease”. August 2006, Protocol #AFX01-10

### **Investigator for:**

1. **Study name:** A multicentre, open-label, single arm study to investigate the safety and efficacy of intravenous vit –45 in haemodialysis patients with anaemia. VIFOR INT. INC. Sponsor protocol: VIFOR VIT-45 (2003- 2004)
2. **Study name:** BAXTER PRO-RENAL-REG-049 Efficacy and safety of epo. omega delivered thrice weekly by the subcutaneous route in hemodialysis patients with renal anaemia: a randomized trial with an active treatment control Short title: EPOMAX VS. NEORECORMON 3X/WEEK\_(2004 – 2005)
3. **Study name:** Current management of secondary hyperparathyroidism – a multicentre observational study COSMOS. Principal investigator: Prof. J.B. Cannata Andia - Bone and mineral research unit hospital central de asturias C/Julien Claveria Oviedo, Spain. Romania – National coordinator. (2005-2006)
4. **Study name:** Optimal renal anaemia management assessment (ORAMA) – a randomized, prospective parallel – centre study to assess the impact of implementing European best practice guidelines on outcomes in the management of renal anaemia. Sponsor: HOFFMANN – LA ROCHE LTD. A clinical study observational non interventional mh 18049. (2005-2006)
5. **Study name:** XM 01 – 06 Efficacy and safety of s.c. administration of XM 01

compared to Epoetin beta in anaemic chronic renal failure patients not yet receiving dialysis and in maintenance phase treatment with epoetin beta

6. **Study name:** XM 01 – 04 Correction subcutaneous study efficacy and safety of s.c. administration of XM 01 and epoetin beta for treatment of anaemia in chronic renal failure patients not yet receiving dialysis
7. **Study name:** XM 01 – 05 Efficacy and safety of XM 01 compared to Epoetin beta in chronic renal failure patients on haemodialysis, peritoneal dialysis and patients not yet receiving dialysis, who are in the maintenance phase with epoetin
8. **Study name:** A multicenter, double blind, placebo controlled, parallel arm study to determine the long term safety and efficacy of an oral drug regimen in subjects with autosomal dominant polycystic kidney disease
9. **Study name:** A randomised, double blind, placebo controlled, parallel group study to assess the effect of the endothelin antagonist avosentan on time doubling of serum creatinine, end stage renal disease or death in patients with type 2 diabetes mellitus and diabetic nephropathy. protocol number spp301crd15
10. **Study name: Planet I:** A randomised, double-blind, 52-week, parallel-group, multicenter, phase 2B study to evaluate the effects of rosuvastatin 10 mg, rosuvastatin 40 mg and rosuvastatin 80 mg on urinary protein excretion in hypercholesterolemic diabetic with moderate proteinuria.
11. **Study name: Planet II:** Prospective evaluation of proteinuria and renal function in non-dialysis patients with progressive renal disease. Protocol d3569 c0001 (planet II).
12. **Study name:** AFFYMAX 01-07 A phase 2, open-label, multi-center, dose finding study of the safety, pharmacodynamics and pharmacokinetics of AF37702 injection (Hematide™) for the maintenance treatment of anemia in hemodialysis patients previously treated with epoetin.
13. **Study name:** AFFYMAX 01-10 An open-label, multi-center, extension study to evaluate the safety, and tolerability of AF37702 injection (Hematide™) for the maintenance treatment of anemia in patients with chronic kidney disease.
14. **Study name:** AFFYMAX 01-13 A phase 3, randomized, active – controlled, open-label, multi-center study of the safety, and efficacy of AF37702 injection for the correction of anemia in patients with chronic renal failure (CRF) not on dialysis and not on erythropoiesis stimulating agent (ESA) treatment.
15. **Study name:** AFFYMAX 01-14 A phase 3, randomized, active – controlled, open-label, multi-centre study of the safety, and efficacy of AF37702 injection for the maintenance treatment of anemia in hemodialysis patients previously treated with epoetin.
16. **Study name:** NEOSE – NE-180-203 An open-label, sequential, ascending dose study to evaluate the safety, dose response and pharmacokinetics of repeated doses of NE-180 for the treatment of anemia in chronic kidney disease patients.

17. **Study name:** CALMAG Evaluation of calcium acetate/magnesium carbonate (Osvaren) compared to sevelamer in hemodialysis patients (phase III).
18. **Study name:** A 12-week, open label, multicentre, titration study, with a 9-month maintenance treatment extension to demonstrate efficacy of SBR759 compared to Sevelamer HCl in lowering serum phosphate levels in chronic kidney disease patients on hemodialysis - Novartis (phase II).
19. **Study name:** FER-CKD 01 An open-label, multi-centre, randomized, 3-arm study to investigate the comparative efficacy and safety of intravenous ferric carboxymaltose (Ferinject high-and low-dosage regimens) versus oral iron for the treatment of iron deficiency anemia in subjects with non-dialysis-dependent chronic kidney disease (phase III).
20. **Study name:** Effects of 150 g aleglitazar on renal function in patients with type 2 diabetes and moderate renal treatment, as compared to amctos (Hoffmann-La Roche phase II B).
21. **Study name:** A phase 3 multi-center, double-blind, placebo-controlled, parallel-arm trial to determine long-term safety and efficacy of oral tolvaptan tablet regimens in adult Otsuka 156-04-251.
22. **Study name:** A multi-center, longitudinal, observational study of patients with autosomal dominant polycystic kidney disease (ADPKD) to establish the rate, characteristics and determinants of disease progression Otsuka 156-10-291.
23. **Study name:** Multi-center, open-label, extension study to evaluate the long-term efficacy and safety of oral Tolvaptan tablet regimens in subjects with autosomal dominant polycystic kidney disease (ADPKD) Otsuka 156-08-271
24. **Study name:** A phase 2 multi-center, randomized, double-blind, placebo-controlled study of the safety, clinical activity and pharmacokinetics of bosutinib (PF-05208763) versus placebo in subjects with autosomal dominant polycystic kidney disease (ADPKD).
25. **Study name:** PMR-EC-1211 Investigating new onset diabetes mellitus in kidney transplant recipients receiving an Advagraf-based immunosuppressive regime with or without corticosteroids-a multicenter, two arm, randomized, open label clinical study.
26. **Study name:** The PRIMO study paricalcitol capsules benefits in renal failure induced cardiovascular morbidity in subjects with chronic kidney disease stage 3B/4 M10-030.
27. **Study name:** An open-label, randomized, active-controlled, parallel group, multi-centre, phase III study to investigate the safety and efficacy of PA 21 compared with sevelamer carbonate followed by a randomized comparison of PA 21-maintenance dose versus PA 21-low dose in dialysis patients with hyperphosphatemia PA-CL-05A.

## Grants

- **Grant IDEI - PCE 2011, PN-II-ID-PCE-2011-3-0637:** „Extravascular lung water monitoring by combined ultrasound and bioimpedance as a guide for treatment in hemodialysis cardiomyopathic renal patients” – **project director** (1.149.240 RON). completed in 2016, 15 articles were published in ISI journals with a cumulative impact factor of 42
- **Grant IDEI PCE**, contract no. 167/2017 „Lung ultrasound guided fluid management protocol for the critically ill patient: a randomized controlled trial”, 12.07.2017-31.12.2019; „Grigore T. Popa” University of Medicine and Pharmacy Iasi; **project director**.
- **Grant IDEI PN-III-P4-ID-PCE-2020-2393 P4-** ”Long-term assessment of cardiovascular risk in CKD patients following SARS-CoV2 (CARDIO SCARS IN CKD)” –(1 198 032 RON).
- POR Project (Regional Operational Program, Priority Axis 1 - Promoting Technology Transfer Investment Priority 1.1, Operation A - Supporting Innovation and Technology Transfer Entities), „Grigore T. Popa” University of Medicine and Pharmacy Iasi, SMIS 128789, ”MAVIS Center for Innovation and Technology Transfer”, 26.06.2020 - 31.05.2022; **project director**
- PED Project, no. 429PED/2020 „Smart Health system based on artificial intelligence as a predictor for chronic kidney disease development”, 23.10.2020-22.10.2022; „Grigore T. Popa” University of Medicine and Pharmacy Iasi; **team member**.
- Joint Operational Programme Romania – Moldova 2014-2020, Support to the development of health services and acces to health, “Cross-border integrated network for advanced health services in obesity, diabetes and metabolic disorders”; 27.04.2021-27.04.2023; **team member**
- CENEMED - Multidisciplinary medical research and development platform in the N-E region
- COST Action CA18216 Project „Network for Research in Vascular Ageing”; 05.11.2019-04.11.2023; **management Committee Member**
- COST Action CA19127 Project „Cognitive decline in Nephro-Neurology: European Cooperative Target”; 12.10.2020-11.10.2024; **management Committee Member**
- **UMF Iasi Grant nr.1640 /01.02.2013:** „A combined cardiovascular and endocrine biomarker panel as a risk stratification tool for hemodialysis patients”

## **Grant evaluator**

- FP6 program (2002): ”The 6th Framework Programme funded European Research and Technological Development”, the section “Life sciences, genomics and biotechnology for health”
- PIVOTAL study (2012): “UK multicentre open-label randomised controlled trial of IV iron supplementation in incident haemodialysis patients”; Renal Unit, King’s College Hospital, London
- grant: “Characterization of the immune status of AKI patients: A preliminary study towards the development of a personalised approach to reduce post-AKI infections”;

Cardiff University, UK (2016); kidneyresearchuk.org - Reference: IN\_004\_20160303

- grant: “The Astellas SEE Transplantation Grant 2017” – American Society of Transplant Surgeons