

PERSONAL INFORMATION:

Name and Surname: **IRINA PANOVSKA-STAVRIDIS**
Date and place of birth: **20.01.1971, Skopje**
Address: **STR. VOSTANICKA No. 34, SKOPJE**
Telephone: **+389 (0)2 3111 479**
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Marital status: **married with 2 minor/underage sons**

**Education and working experience:**

She finished primary and secondary school in Skopje, R.N.Macedonia.

1989/90-1995: Faculty of Medicine – Skopje at the University “St. Cyril and Methodius” – Skopje, graduated with average grade: 9.60.

May 1996: Passed the professional exam. Medical Licence N.8011

Since November 1996: Has full-time employment at the Clinic for Haematology at the Clinical Center – Skopje;

1997-2001: Specialization in internal medicine at the Faculty of Medicine – Skopje at the University “St. Cyril and Methodius” in Skopje.

1997-2002: Postgraduate studies in Haematology at the Faculty of Medicine – Skopje; passed the exams with average grade 10.00.

Sep-Dec 1999: Working training at the Royal Marsden Hospital, London, UK

December 2001: Working training at the Centre for stem cell transplantation , “G. Papanikolau” Thessaloniki, Greece

July 2002: Defended Master’s thesis “Molecular detection of BCR-ABL oncogene in the evaluation of chronicle myeloproliferative diseases”.

Sept-Dec 2002: Training in flow Cytometry at the Royal Marsden Hospital, London, UK

From April 2006: Appointed Head of the Department for Immuno-haematology at the Clinic of Haematology. She is a

2006-2009:	founder of the multi-parameter flowcytometric laboratory our Country Sub-specialization in Haematology at the Faculty of Medicine at the University "St. Cyril and Methodius" in Skopje.
April 2008	Reward of the American Society of Hematology: American Society of Hematology Visiting Trainee Program Award (20 weeks training in USA)
March 2009:	Passed the sub-specialization exam in Haematology and obtained professional calling Sub-specialist in Haematology.
March –July 2009:	Twenty weeks training in USA Mentors: Nicholas Chiorazzi and Dr Kanti, Feinstein Institute for Medical Research, North well Health.
November 2009:	Defended her PhD titled: "The role of immunophenotyping of the cells from the peripheral blood and bone marrow in the diagnostic and clinical stratification of the patients with acute leukaemia".
December 2012:	Elected for Associate Professor of Internal medicine at the Faculty of Medicine – Skopje at the University "St. Cyril and Methodius" –Skopje
March 2017:	Elected for Professor of Internal medicine at the Faculty of Medicine – Skopje at the University "St. Cyril and Methodius"-Skopje
July 2017:	Elected as ambassador of the SOHO (Society of Hematologic Oncology) affiliate with MD Anderson Cancer Centre -Houston, Texas, USA in Republic of Macedonia
August 2017:	Appointed for Medical Director of the Public Health Institution University Clinic of Haematology-Skopje
January 2020:	Elected for the president of the Macedonian Hematology Association
November 2021:	Elected for Tenure Professor of Internal medicine at the Faculty of Medicine – Skopje at the University "St. Cyril and Methodius" –Skopje

Participation at projects:

- 1998-2001: Junior researcher in international project “Molecular analysis of immunoglobulin genes in malignant B-cell related lymphoproliferative diseases”, conducted as joint project between the International Center for Genetic Engineering and Biotechnology, Trieste and Medical Faculty, Skopje.
- 1998-2001: Junior researcher in study CLL-1 EORTC 06991:
1.Fludarabine vs. high-dose chlorambucil in advanced B-cell chronic lymphocytic leukemia”
2.CLL-3 EORTC 06941: “A feasibility study for the therapy of chronic myeloid leukemia (CML) with recombinant interferon alpha (rIFN-alpha) plus all-trans retinoic acid (ATRA)”,
3. CLL-3 EORTC 06992: “ Low dose chlorambucil maintenance vs. no treatment following high-dose chlorambucil induction in patients with advanced B-cell chronic lymphocytic leukemia”
4. “A randomized phase III study of the EORTC LG: EORTC 06951”; “ALL-4: A randomized phase III trial comparing dexamethasone with prednisone in induction treatment and peripheral blood progenitor cell (PBPC) transplantation in adolescent and adult acute lymphoblastic leukemia and lymphoblastic lymphoma”
- 2008: Principal researcher from Macedonia in study “STAR – safety, effectiveness and patient acceptance of the treatment with MABCAMPATH in Chronic Lymphocitic Leukemia”, post-marketing surveillance study
- 2009: Sub-investigator in the “Multi-centric, randomized phase III study of Rituximab as maintenance treatment versus observation alone in patient with aggressive lymphoma: NHL 13
- 2011: Co-researcher in the study CELG-AML1: “A non-interventional prospective study to test the feasibility to perform chemotherapy and stem cell transplantation in patients with acute myeloid leukemia (AML)”
- 2013: Sub-investigator in the “A two-stage phase III, international, multi-center, randomized, controlled,

open-label study to investigate the pharmacokinetics, efficacy and safety of rituximab SC in combination with CHOP or CVP versus rituximab IV in combination with CHOP or CVP in patients with previously untreated follicular lymphoma followed by maintenance treatment with either rituximab SC or rituximab IV”

- 2015: Sub-investigator in the “A Phase 3, Randomized, Controlled, Open-label Study of VELCADE (Bortezomib) Melphalan-Prednisone (VMP) Compared to Daratumumab in Combination With VMP (D-VMP), in Subjects With Previously Untreated Multiple Myeloma Who Are Ineligible for High-dose Therapy“.
- 2015: Study coordinator in the A multicenter, open-label, single-arm, phase IIIb, international study evaluating the safety of obinutuzumab alone or in combination with chemotherapy in patients with previously untreated or relapsed/refractory chronic lymphocytic leukemia
- 2019: Principal investigator at GIMEMA-EORTC 1621-QLG-LG “A Survivorship Project to understand and to improve long-Term outcomes for Acute Myeloid Leukaemia patients (SPARTA): The SPARTA platform”
- 2020: Principal investigator at the scientific project / CRP – ICGEB Research Grant “Natural antibody and cytotoxic T cell responses in asymptomatic/mildly symptomatic, severely symptomatic and critically ill patients with COVID-19 “
- 2021: Principal investigator in the MO41001_RESHAPE study: prospective non-interventional multi-center study evaluating bleeding incidence and health-related quality of life in patients with Hemophilia A with inhibitors and non-inhibitors treated with Emicizumab and other hemophilia treatments in a real-life setting

Rewards and acknowledgements:

- 1999: Reward for best junior researcher at PanPacific Lymphoma Conference, held in July 1999, in the Hyatt Regency Kauai, The Island of Kauai, Hawaii, sponsored by the University of Nebraska Medical Center, for the study titled: “Low prevalence of chronic hepatitis C virus infection in B-cell Non Hodgkin’s lymphoma patients from a population with high prevalence of healthy HCV carriers”
- 2007: Acknowledgement by the Macedonian Medical Association
- 2010: Reward for best oral presentation at the 21st Congress of the Hellenic Society of Hematology (5th Balkan hematology days)
- 2017: Laureate of “Epsa Urumova reward” for the best scientific paper published for North Macedonia in the field of medicine in 2016

Membership in national and international professional associations:

- Macedonian Medical Association
- Macedonian hematology association
- American Society of Hematology (ASH), since 2001
- American Society of Clinical Oncology (ASCO)
- European Hematology Association (EHA)
- European Research Initiative on CLL (ERIC)
- European organization for research and cancer treatment (EORTC)-leukemia and lymphoma group
- Eurasian Hematology Oncology Group

Most important publications:

1. **Panovska-Stavridis I**, Eftimov A, Ivanovski M, Stojanovic A, Georgievski B, Cevreska L, Dimovski AJ. Diversities of Calreticulin Gene Mutations in Macedonian Patients With Essential Thrombocythemia. Clin Lymphoma Myeloma Leuk. 2016 Aug;16(8):477-81. doi: 10.1016/j.clml.2016.04.019.
2. **Panovska-Stavridis I**, Eftimov A, Ivanovski M, Pivkova-Veljanovska A, Cevreska L, Hermouet S, Dimovski AJ. Essential Thrombocythemia Associated With Germline JAK2

G571S Variant and Somatic CALR Type 1 Mutation. Clin Lymphoma Myeloma Leuk. 2016 May;16(5):e55-7. doi: 10.1016/j.clml.2016.02.039.

3. Trajkova S, Cevreska L, Pivkova-Veljanovska A, Ivanovski M, Dukovski D, Popova-Simjanovska M, Cadievski L, Eftimov A, Dimovski A, **Panovska-Stavridis I** Multivariable model consisting of clinical and biological markers for time to first treatment in CLL patients: Preliminary results from single centre experience. Pril (Makedon Akad Nauk Umet Odd Med Nauki). 2013;34(3):39-47.
4. **Panovska-Stavridis I**, Cevreska L. Haematology in the Republic of Macedonia: present situation and brief history. Pril (Makedon Akad Nauk Umet Odd Med Nauki). 2013;34(1):67-74.
5. **Panovska-Stavridis I**, Trajkova S, Ivanovski M, Hadzi-Pecova L, Dukovski D, Popova-Simjanovska M, Cevreska L. Minimal screening analysis based algorithm for diagnosis and clinical stratification of patients with acute myeloid leukaemia (AML): single centre experience. Prilozi. 2012;33(1):93-106.
6. **Panovska-Stavridis I**, Ivanovski M, Hadzi-Pecova L, Ljatici A, Trajkov D, Spiroski M, Cevreska L. A case report of aggressive adult neuroblastoma mimicking acute leukemia with fulminant course and fatal outcome. Prilozi. 2010;31(1):349-59.
7. **Panovska-Stavridis I**, Cevreska L, Ivanovski M, Stojanovic A, Lozance M, Matevska N, Dimovski A, Serafimoski V. JAK2V617F mutations in myeloid malignancies: single center experience. Prilozi. 2008 Dec;29(2):257-67.
8. **Panovska-Stavridis I**, Cevreska L, Stojanovic A, Efremov D. Prognostic value of immunoglobulin variable heavy chain gene mutation status: long term follow-up in a series of chronic lymphocytic leukemia patients. Prilozi. 2006 Dec;27(2):127-37.
9. **Panovska-Stavridis I**, Ivanovski M, Siljanovski N, Cevreska L, Efremov DG Chronic lymphocytic leukemia patients with a gene rearrangement do not have inferior survival with respect to patients that express other unmutated V(H) genes. Leuk Res. 2007 Feb;31(2):245-8.
10. Hadzi-Pecova L, Stojanovic A, Petrusevska G, **Panovska I** Rituximab in the treatment of the variant of hairy cell leukaemia: a case report. Prilozi. 2008 Dec;29(2):355-60.
11. Efremov DG, Georgievski B, Cevreska L, Pivkova A, **Panovska I**. Lamivudine treatment for acute hepatitis B virus infection during allogeneic peripheral blood stem cell transplantation. Bone Marrow Transplant. 2003 Mar;31(6):515-6. No abstract available.
12. **Panovska I**, Georgievski B, Stojanovic A, Cevreska L, Efremov DG Low prevalence of chronic hepatitis C virus infection in B-cell non-Hodgkin's lymphoma patients from a population with a high prevalence of healthy hepatitis c virus carriers. Br J Haematol. 2000 Apr;109(1):249-50
13. Author of the chapter titled: Immunophenotyping of the blast cells in correlations with the molecular genetics analysis for diagnostic and clinical stratification of patients with acute myeloid leukemia: single center experience: in the book "Cancer treatment / Book 3", ISBN 978-953-307-1362-5
14. Popova-Labachevska M, **Panovska-Stavridis I**, Eftimov A, Kapedanovska NA, Cevreska L, Ivanovski M, Ridova N, Trajkova S, Dimovski AJ. Evaluation of the JAK2V617F Mutational Burden in Patients with Philadelphia Chromosome Negative Myeloproliferative Neoplasms: A Single-center Experience. Balkan J Med Genet. 2019 Dec 21;22(2):31-36. doi: 10.2478/bjmg-2019-0021. eCollection 2019 Dec. PMID: 31942414

15. Jovanovska A, Martinova K, Kocheva S, Trajkova-Antevska Z, Coneska-Jovanova B, **Panovska-Stavridis I**, Stankovikj S, Trajkova S, Dimovski A Clinical Significance of Minimal Residual Disease at the End of Remission Induction Therapy in Childhood Acute Lymphoblastic Leukemia. *Open Access Maced J Med Sci.* 2019 Sep 14;7(17):2818-2823. doi: 10.3889/oamjms.2019.752. eCollection 2019 Sep 15.PMID: 31844443
16. Pivkova-Veljanovska A, Ivanovski M, **Panovska-Stavridis I**, Stojanoski Z, Trajkova S, Karadzova-Stojanoska A, Georgievski B, Kostadinova-Kunovska S, Jovanovic R, Petrushevska G A Rare Case of Soft Tissue Erdheim Chester Disease: Diagnostic Dilemma and Management. *.Open Access Maced J Med Sci.* 2019 Jun 5;7(11):1808-1811. doi: 10.3889/oamjms.2019.231. eCollection 2019 Jun 15.
17. Jovanovska A, Trakova-Antevska Z, Kocheva S, Stankovikj S, **Panovska-Stavridis I**, Dimovski A, Martinova K Clinical Characteristics and Treatment Results of Childhood Acute Lymphoblastic Leukemia in North Macedonia. *Pril (Makedon Akad Nauk Umet Odd Med Nauki).* 2020 Sep 1;41(2):37-47. doi: 10.2478/prilozi-2020-0031.PMID: 33011702
18. Halimi V, Daci A, Stojanovska S, **Panovska-Stavridis I**, Stevanovic M, Filipce V, Grozdanova A.J Current regulatory approaches for accessing potential COVID-19 therapies. *Pharm Policy Pract.* 2020 May 16;13:16. doi: 10.1186/s40545-020-00222-6. eCollection 2020.PMID: 32454981
19. Halimi V, Daci A, Ridova N, **Panovska-Stavridis I**, Stevanovic M, Filipce V, Dimovski A, Grozdanova A.The use of remdesivir outside of clinical trials during the COVID-19 pandemic. *J Pharm Policy Pract.* 2020 Sep 21;13:61. doi: 10.1186/s40545-020-00258-8. eCollection 2020.PMID: 32968487
20. Agathangelidis A, Chatzidimitriou A, Gemenetzi K, Giudicelli V, Karypidou M, Plevova K, Davis ZA, Yan XJ, Jeromin S, Schneider C, Pedersen LB, Tschumper R, Sutton LA, Baliakas P, Scarfò L, van Gastel EJ, Armand M, Tausch E, Biderman B, Baer C, Bagnara D, Navarro A, de Septenville A, Guido V, Mitterbauer-Hohendanner G, Dimovski A, Brieghel C, Lawless S, Meggendorfer M, Stranska K, Ritgen M, Facco M, Tresoldi C, Visentin A, Patriarca A, Catherwood M, Bonello L, Sudarikov A, Vanura K, Roumelioti M, Skuhrova Francova H, Moysiadis T, Veronese SM, Giannopoulos K, Mansouri L, Karan-Djurasevic T, Sandaltzopoulos R, Bödör C, Fais F, Kater AP, **Panovska-Stavridis I**, Rossi D, Alshemmari S, Panagiotidis P, Costeas PA, Espinet B, Antic D, Foroni L, Montillo M, Trentin L, Stavroyianni N, Gaidano G, Francia di Celle P, Niemann CU, Campo E, Anagnostopoulos A, Pott C, Fischer K, Hallek M, Oscier DG, Stilgenbauer S, Haferlach C, Jelinek DF, Chiorazzi N, Pospisilova S, Lefranc MP, Kossida S, Langerak AW, Belessi C, Davi F, Rosenquist R, Ghia P, Stamatopoulos K. Higher-order connections between stereotyped subsets: implications for improved patient classification in CLL. *Blood.* 2020 Sep 29;blood.2020007039. doi: 10.1182/blood.2020007039. Online ahead of print.PMID: 32992344
21. **Irina Panovska-Stavridis I**, Nevenka Ridova, Tatjana Stojanoska, Ilir Demiri, Milena stevanovic, simona stojanovska, Tara Ristevska, Aleksandar Dimkovski, Venko Filipce, Aleksandar Dimovski, Aleksandra Grozdanova. Insight in the current progress in the largest clinical trials for COVID-19 drug management (as of january 2021) *CONTRIBUTIONS. Sec. of Med. Sci., XLII 1, 2021*
22. Petrushevska M, **Stavridis IP**, Mladenovska K, Petrushevska G. Secondary Hodgkin Lymphoma and Myelodysplastic Syndrome (MDS) After Paclitaxel-Carboplatin

- Treatment in a Patient with Small Cell Lung Cancer. Pril (Makedon Akad Nauk Umet Odd Med Nauki). 2017 Dec 1;38(3):97-103.
23. Veljanovska AP, Stojanoski Z, Chadievski L, **Stavridis IP**, Trajkova S, Cevreska L, Georgievski B. Posterior Reversible Encephalopathy Syndrome (PRES) in Children Undergoing Allogeneic Stem Cell Transplantation. Pril (Makedon Akad Nauk Umet Odd Med Nauki). 2019 May 1;40(1):81-86.
 24. Aleksandra Jovanovska, Kata Martinova, Svetlana Kocheva, Zorica Trajkova-Antevska, Biljana Coneska-Jovanova, **Irina Panovska-Stavridis**, Svetlana Stankovikj, Sanja Trajkova, Aleksandar Dimovski. Clinical Significance of Minimal Residual Disease at the End of Remission Induction Therapy in Childhood Acute Lymphoblastic Leukemia. Open Access Macedonian Journal of Medical Sciences. 2019 Sep 14:1-6
 25. Popova-Labachevska M , **Panovska-Stavridis I**, Eftimov A , Kapedanovska Nestorovska A , Cevreska L , Ivanovski M , Ridova N , Trajkova S , Dimovski AJ. Evaluation of the JAK2V617F mutational burden in patients with Philadelphia chromosome negative myeloproliferative neoplasms: a single-center experience. BALKAN JOURNAL OF MEDICAL GENETICS. 22 (2), 2019.31-36
 26. **Panovska-Stavridis I**, Pivkova-Veljanovska A, Ridova N, Stojanoski Z, Cadievski L, Trajkova S, Popova-Labachevska M, Matevska-Geshkovska N, Cevreska L, Georgievski B, Dimovski A. Molecular Monitoring in Acute Myeloid Leukemia Patients Undergoing Matched Unrelated Donor - Hematopoietic Stem Cell Transplantation: Single Center Experience. Pril (Makedon Akad Nauk Umet Odd Med Nauki). 2020 Dec 8;41(3):5-12.
 27. Jovanovska A, Trakova-Antevska Z, Kocheva S, Stankovikj S, **Panovska-Stavridis I**, Dimovski A, Martinova K. Clinical Characteristics and Treatment Results of Childhood Acute Lymphoblastic Leukemia in North Macedonia. Pril (Makedon Akad Nauk Umet Odd Med Nauki). 2020 Sep 1;41(2):37-47.
 28. **Panovska-Stavridis I**, Ivanovski M, Trajkova S, Pivkova-Veljanovska A, Popova-Labachevska M, Matevska-Geshovska N, Noveski P, Plaseska-Karanfilska D, Cevreska L, Dimovski AJ. Molecularly Confirmed, Cytogenetic Remission in a Case with Myelodysplastic Syndrome Treated with Azacitidine. Pril (Makedon Akad Nauk Umet Odd Med Nauki). 2017 Dec 1;38(3):157-162.
 29. **Panovska-Stavridis I.**, Pivkova-Veljanovska A., Trajkova S., Lazarevska M., Grozdanova A., Filipche V. A rare case of superior ophthalmic vein thrombosis and thrombocytopenia following ChAdOx1 nCoV-19 Vaccine Against SARS-CoV-2. Mediterr J Hematol Infect Dis 2021, 13(1): e2021048.
 30. Ridova N, Trajkova S, Chonevska B, Stojanoski Z, Ivanovski M, Popova-Labachevska M, Stojanovska-Jakimovska S, Filipche V, Sofijanovska A, **Panovska-Stavridis I** . Gaucher disease in North Macedonia: Unexpected prevalence of the N370S GBA1 allele with attenuated disease expression. Mol Genet Metab Rep. 2022 Jul 8;32:100895. doi: 10.1016/j.ymgmr.2022.100895. eCollection 2022 Sep. PMID: 35845720
 31. Ridova N, Trajkova S, Popova-Labachevska M, Stojanovska-Jakimovska S, Nikolov F, **Panovska-Stavridis I**. Early-Onset Colorectal Cancer in a Young Woman with Type 1 Gaucher Disease. Eur J Case Rep Intern Med. 2022 Jun 15;9(6):003412. doi: 10.12890/2022_003412. eCollection 2022. PMID: 35821905
 32. Gerotziafas GT, Catalano M, Theodorou Y, Dreden PV, Marechal V, Spyropoulos AC, Carter C, Jabeen N, Harenberg J, Elalamy I, Falanga A, Fareed J, Agathaggelou P, Antic

D, Antignani PL, Bosch MM, Brenner B, Chekhonin V, Colgan MP, Dimopoulos MA, Douketis J, Elnazar EA, Farkas K, Fazeli B, Fowkes G, Gu Y, Gligorov J, Ligocki MA, Indran T, Kannan M, Kantarcioglu B, Kasse AA, Konstantinidis K, Leivano F, Lewis J, Makatsariya A, Mbaye PM, Mahé I, **Panovska-Stavridis I**, Olinic DM, Papageorgiou C, Pecsvarady Z, Pillon S, Ramacciotti E, Abdel-Razeq H, Sabbah M, Sassi M, Schernthaner G, Siddiqui F, Shiomura J, Slama-Schwok A, Wautrecht JC, Tafur A, Taher A, Klein-Wegel P, Zhai Z, Zoubida TM. The COVID-19 Pandemic and the Need for an Integrated and Equitable Approach: An International Expert Consensus Paper. Scientific Reviewer Committee. *Thromb Haemost.* 2021 Aug;121(8):992-1007. doi: 10.1055/a-1535-8807. Epub 2021 Jun 24. PMID: 34169495