

Warsaw, 20.11.2024

Review of the doctoral dissertation by Irena Papier RN, MPA

pt. „*Troubleshooting the decline in food intake
during acute hospitalization*”

PhD supervisor: Prof. dr hab. n. med. Tomasz Banasiewicz

Medical University of Karol Marcinkowski in Poznań

In the doctoral dissertation, Irena Papier RN, MPA addresses the issue of hospital malnutrition, which is very important in Polish, Israel and global clinical practice. The research carried out is of high value from the point of view of the health care system, safety of therapy and the quality of life of patients.

The essence of the dissertation are three publications. Irena Papier RN, MPA introduces the topic extensively as for this type of dissertation, refers to the methodology and research results contained in the attached publications, and discusses the results. This replication is allowed in the chosen form of the dissertation, moreover it is carried out methodically and tries to synthesize the obtained results.

In each publication, Irena Papier RN, MPA is the first author, which emphasizes her personal scientific achievements and dominant contribution to conducting research and preparing the publication.

The first paper in the series by Papier I, Sagi-Dain L, Chermesh I, Mashiach T, Banasiewicz T. entitled "Absence of oral nutritional support in low food intake inpatients is associated with an increased risk of hospital-acquired pressure injury" was published in the journal *Clinical Nutrition ESPEN* 2022 Oct;51:190-198. This is a retrospective cohort study collected hospital database information regarding

patients aged ≥ 18 y who were hospitalized for ≥ 7 consecutive days and were orally fed or had medical records that no tube feeding or parenteral nutrition had been administered. Data were collected and statistically analyzed focusing on food intake reporting, Malnutrition Universal Screening Tool (MUST) scores, oral nutritional intervention, and other secondary characteristics. Number of 5155 patients studied and 1087 involved to the study is very impressive. The following tools were used and parameters studied: MUST scores, sex, mean albumin level, comorbidity, length of stay, all-cause in-hospital mortality, hospital-acquired pressure injury, or the rate of oral nutritional intervention. Authors conclude that more adherence to food intake monitoring guidelines is needed.

The second paper in the series by Papier I, Chermesh I, Mashiach T, Gruenwald I, Banasiewicz T. entitled "Prevalence of the use of oral nutritional supplements among acute inpatients at risk of malnutrition and associated patient characteristics" was published in the Journal of Clinical Nursing 2024 Feb 20. doi: 10.1111/jocn.17076. This is the observational cohort study covered a one-year period. Demographic and clinical data were extracted from computerized files of patients hospitalized ≥ 7 days, aged ≥ 60 years, and who ate orally. Number of 5155 patients studied and 895 involved to the study is impressive. The following tools were used and parameters analyzed: HAPI grade, MUST score, albumin level and food intake. Authors conclude that failure to initiate ONS as part of nutritional support in low food intake patients is associated with high HAPI risk in these patients. Consequently, monitoring of daily food intake for identifying low intake patients should be integrated into routinely used tools such as the Norton Scale, and adherence to nutritional protocols should be addressed.

The third paper in the series by Papier I, Chermesh I, Mashiach T, Banasiewicz T. entitled "Evaluation of prevalence of food intake monitoring during acute hospitalization and its association with malnutrition screening scores of inpatients who were not considered for enteral or parenteral nutrition" was published in the journal Nutrition. 2023 Jun;110:112031. doi: 10.1016/j.nut.2023.112031. This was the retrospective cohort study and aimed to provide a snapshot of the current use of oral nutritional supplements, its association with inpatient characteristics, and with a focus on the role of nursing monitoring of food intake and implementing nutritional

interventions for patients with low intake. Number of 5155 patients studied and 1087 involved to the study is impressive. The following tools were used and parameters analyzed: age, length of hospital stay, food intake, use of oral nutritional supplements and non-oral nutritional supplements, sex, Charlson Comorbidity Index, Malnutrition Universal Screening Tool, albumin level. Authors conclude that the prevalence of oral nutritional intervention was suboptimal in patients at risk of malnutrition during acute hospitalisation, although decreased food intake and Malnutrition Universal Screening Tool score ≥ 2 independently increased the probability of oral nutritional supplements initiation.

In the context of the results showed in the presented studies, please answer the following questions:

1. What is the reason for the lack of adequate nutritional treatment in hospitals?
2. How can this situation be improved?

In the substantive assessment, I state that the topics have been selected accurately and have the required degree of originality, the results obtained are important for science and practice, the formal, linguistic, stylistic and punctuation correctness meets the required standards.

In the methodological assessment, I state that the selection of literature is appropriate and the doctoral student has demonstrated adequate ability to use scientific resources. The doctoral student correctly formulates scientific hypotheses and accurately selects the methodology and research tools. The work arrangement and structure are correct and meets the accepted standards.

Therefore, the work meets all the conditions for dissertations for the academic degree of doctor of medical sciences. With full confidence, I am applying to the High Council of the College of Sciences of the Medical University of Karol Marcinkowski in Poznań to admit Irena Papier RN,MPA, to further stages of her doctoral studies.

Kierownik
Katedry i Kliniki Chirurgii Ogólnej i Żywienia Klinicznego
Centrum Medycznego Kształcenia Podyplomowego

prof. dr hab. n. med. Jacek Sobocki

Warszawa 20.11.2024

Streszczenie w języku polskim
recenzji rozprawy doktorskiej mgr Ireny Papier

pt. „*Troubleshooting the decline in food intake
during acute hospitalization*”

Promotor: Prof. dr hab. n. med. Tomasz Banasiewicz

Uniwersytet Medyczny im. Karola Marcinkowskiego w Poznaniu

Mgr Irena Papier w swojej rozprawie doktorskiej podejmuje ważną w polskiej, izraelskiej i światowej praktyce klinicznej problematykę niedożywienia szpitalnego. Przeprowadzone badania mają wysoką wartość z punktu widzenia systemu ochrony zdrowia, bezpieczeństwa terapii, jak i jakości życia pacjentów.

Istotą dysertacji są trzy publikacje. Doktorantka obszernie jak na ten rodzaj dysertacji wprowadza do tematu, przywołuje metodykę i wyniki badań zawartych ponownie w dołączonych publikacjach, a także dyskutuje wyniki. To powielenie dopuszczone jest przez wybraną formę dysertacji, a jednocześnie jest ono przeprowadzone metodycznie i stara się zsyntetyzować uzyskane wyniki.

W każdej publikacji doktorantka jest pierwszym z autorów, co podkreśla jej osobisty dorobek i dominujący wkład w przeprowadzenie badań i przygotowanie publikacji.

Artykuł pierwszy cyklu autorstwa Papier I, Sagi-Dain L, Chermesh I, Mashiach T, Banasiewicz T. pod tytułem „Absence of oral nutritional support in low food intake inpatients is associated with an increased risk of hospital-acquired pressure injury” został opublikowany w czasopiśmie in *Clinical Nutrition ESPEN* 2022 Oct;51:190-198

Artykuł drugi cyklu autorstwa Papier I, Chermesh I, Mashiach T, Gruenwald I, Banasiewicz T. pod tytułem „Prevalence of the use of oral nutritional supplements among acute inpatients at risk of malnutrition and associated patient characteristics” został opublikowany w czasopiśmie Clin Nurs. 2024 Feb 20. doi: 10.1111/jocn.17076.

Artykuł trzeci cyklu autorstwa Papier I, Chermesh I, Mashiach T, Banasiewicz T. pod tytułem „Evaluation of prevalence of food intake monitoring during acute hospitalization and its association with malnutrition screening scores of inpatients who were not considered for enteral or parenteral nutrition” został opublikowany w czasopiśmie Nutrition. 2023 Jun:110:112031. doi: 10.1016/j.nut.2023.112031..

W ocenie merytorycznej stwierdzam, że problematyka została dobrana trafnie i posiada wymagany stopień oryginalności, uzyskane rezultaty mają istotne znaczenie dla nauki i praktyki, poprawność formalno-językowa, stylistyczna i interpunkcyjna spełnia wymagane normy.

W ocenie metodologicznej stwierdzam, że dobór literatury jest właściwy, a doktorantka wykazała się odpowiednią umiejętnością korzystania ze źródeł naukowych. Doktorantka prawidłowo formułuje hipotezy naukowe, trafnie dobiera metodykę i narzędzia badawcze. Układ pracy i struktura są prawidłowe i spełniają przyjęte normy.

Praca spełnia zatem wszystkie warunki stawiane rozprawom na stopień naukowy doktora nauk medycznych. Z pełnym przekonaniem wnioskuje do Wysokiej Rady Kolegium Nauk Uniwersytetu Medycznego im. Karola Marcinkowskiego w Poznaniu o dopuszczenie magister Ireny Papier do dalszych etapów przewodu doktorskiego.

Kierownik
Katedry i Kliniki Chirurgii Ogólnej i Żywienia Klinicznego
Centrum Medycznego Kształcenia Podyplomowego

prof. dr hab. n. med. Jacek Sobocki