

CURRICULUM VITAE
November 2022

1. Personal Details

Name: Nosaiba Rayan-Gharra
Permanent Home Address: Jatt, 3009100, Israel
Family Status: Married+4
E-mail: nrayan84@gmail.com; nrayan@univ.haifa.ac.il
https://www.researchgate.net/profile/Nosaiba_Rayan-Gharra

2. Higher Education

A. Undergraduate and Graduate Studies

| Period of Study | Name of Institution and Department | Degree |
|-----------------|--|-----------------|
| 2003-2006 | Department of Human Services, Faculty of Social Welfare and Health Sciences Sociology and Anthropology, Faculty of Social Sciences, University of Haifa | BA |
| 2006-2009 | School of Public Health, Management of Health Administration (MHA), Faculty of Social Welfare and Health Sciences, University of Haifa | MA Cum Laude |
| 2013-2019 | The Cheryl Spencer Department of Nursing, Faculty of Social Welfare and Health Sciences, University of Haifa | PhD |

B. Post-Doctoral Studies

| Period of Study | Name of Institution and Department/Lab | Name of Host |
|-----------------|---|-------------------|
| 2020-2022 | Faculty of Medicine, Bar-Ilan University (2-years post-doctoral fellow) | Dr. Sivan Spitzer |

3. Academic Ranks and Tenure in Institutes of Higher Education

| Period | Name of Institution and Department | Rank/Position Specify if full or percent part time |
|-------------|---|---|
| 2015 - 2022 | Haifa University, Department of Nursing | Adjunct lecturer (80%) |
| 2022 | Haifa University, Department of Nursing | Faculty member |

4. Scholarly Positions and Activities

| Year | Memberships in Academic Professional Associations |
|----------------|--|
| 2015 - current | The Israeli Nursing Research Association |
| 2018 - current | International foundation for integrated care (IFIC) Community Member |
| 2020 - current | Sigma Theta Tau Omega Lambda Chapter |
| 2020 - current | The Gerontological Society of America |

| Year | Reviewing for Refereed Journal |
|------------------------------|--|
| 2014, 2016, 2018, 2019, 2020 | Israel Journal of Health Policy Research |
| 2019, 2020 | International Journal of Integrated Care |
| 2020, 2021 | International Journal for Equity in Health |
| 2020, 2021, 2022 | Medical Care |
| 2022 | Annals of family medicine |

Additional Training

| Year | Workshop/course | Place |
|------|---|--|
| 2012 | Logistic regression | Technion, Israel |
| 2013 | Multiple linear regression | Technion, Israel |
| 2013 | Structural equation modeling, Mediation and moderation models, Hierarchical linear models | Inter Disciplinary Center (IDC), Herzliya, Israel |
| 2014 | Structural equation modeling course (AMOS software) | University of Haifa, Israel |
| 2015 | Hierarchical models in behavioral sciences research | Technion, Israel |
| 2017 | Power analysis | Inter Disciplinary Center (IDC), Herzliya, Israel |
| 2017 | Workshops for lecturers in the health and social care professions to use a cultural and linguistic competency training kit in the healthcare system | Ministry of Health, MSR - Israel Center for Medical Simulation; Sheba Medical Center |
| 2018 | International workshop: Introduction to Mediation, Moderation, and Conditional Process Analysis by Prof. Andrew Hayes (Ohio University) | University of Haifa, Israel |
| 2018 | Introduction to R Workshop | University of Haifa, Israel |
| 2019 | Workshop on Causal Inference | University of Haifa, Israel |
| 2019 | Propensity score matching | University of Haifa, Israel |
| 2020 | Multiple levels of analysis | University of Haifa, Israel |
| 2020 | Data mining | University of Haifa, Israel |
| 2020 | Advanced biostatistics course for PhD students (13 meetings, using R software for statistical computing) by Dr. Pavel Goldstein | School of Public Health, University of Haifa, Israel |
| 2022 | Mediation and moderation course by Dr. Or Catz (using JASP, R and Jamovi software, online) | Bar-Ilan University, Israel |

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|------|---|-----------------------------|
| 2022 | Course on advanced statistical analysis by Dr. Or Catz (using R software, online) | Bar-Ilan University, Israel |
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Professional Experience

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|--------------|--|--|
| 2006-2007 | University of Haifa | Research assistant: Faculty of Social Sciences in Haifa University, interviewer. Phone surveyor in the Statistical Consulting Unit, Haifa University. |
| 2007-2009 | University of Haifa | Teaching assistant by Dean of students: Personal and group teaching for B.A. students in human resources, sociology, and economics. |
| 2007-2009 | University of Haifa, Department of Nursing | Teaching assistant: BA level courses (Quality measurement in healthcare (35 students); Fundamentals of nursing (120 students); Management of care (90 students) by Prof. Efrat Shadmi |
| 2007-2010 | University of Haifa, Department of Nursing & Rambam hospital | Research coordinator: Supervision of data collection and assistants, budget, performance of data analysis, support in the creation of academic publications (by Prof. Efrat Shadmi and Dr. Hanna Admi). |
| 2010-2012 | Research Institute | Researcher at Massar-Institute for Research, Planning, and Social Consultation, including preparing research proposals, Reports and academic publications. |
| 2010-2014 | Clalit HMO and University of Haifa | Research coordinator of a comprehensive study on rehospitalizations. The study is sponsored jointly by the Clalit HMO and Haifa University and funded by the National Institute for the Study of Health Services and Health Policy |
| 2014-2016 | Ministry of Health Israel, L. Tauber Foundation & University of Haifa | Database Manager: Psychiatric Rehabilitation Routine Outcome Measurement - PR-ROM project <i>Data cleaning and management of a large database (13420 persons), database organization and merges, data analysis and reports generation.</i> |
| 2015-current | University of Haifa, Department of Nursing | Course Lecturer: Fundamentals of nursing (2015-current) Quality measurement in healthcare (2017, 2020) Culturally competent healthcare system (2018-current) Geriatrics and Gerontology (2019- current) Population Health Course, ETGAR course (2020- current; faculty of medicine, Bar Ilan university) |
| 2018-current | University of Haifa and Campus – The National Project for Digital Learning (Israel-edX)) | Massive Open Online Courses (MOOC) manager: Development, building and organization of the MOOC courses - Geriatrics and Gerontology in the Hebrew and Arabic versions. |

Contribution to the community:

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|-----------|--|--|
| 2007-2008 | Community Involvement, Haifa | One-year volunteering at Early Childhood Center, Haifa |
| 2022 | Elementary school educational workshop | Promoting healthy lifestyle and healthy food |

5. Conferences

a. Participation in International Conferences - Held Abroad

| Date | Name of Conference | Place of Conference | Subject of Lecture/Discussion | Role |
|----------------|--|------------------------------|---|------------------------------|
| May 2018 | 18 th International Conference on Integrated Care | Utrecht, Netherlands | Meaningful post-discharge primary care visits: the association between discharge summary review and readmissions | Poster |
| May 2018 | 18 th International Conference on Integrated Care | Utrecht, Netherlands | Transitional Care among Minority Patients: the role of Health Literacy, Caregiver Presence and Language-concordant Care. | Oral presentation |
| April 2019 | 19 th International Conference on Integrated Care | San Sebastian, Basque, Spain | Association between cultural factors and readmissions: the mediating effect of the quality of transitional care | Oral presentation and poster |
| September 2020 | 20 th International Virtual Conference on Integrated Care | Šibenik, Croatia, online | Minority status and 30-day readmission: a moderated mediation model of informal caregivers' ensuring and explaining medical care during hospitalization and caregivers' health literacy | Oral presentation |
| September 2020 | Innovations in Workforce Education for Family Caregiving | Davis, Virtual Summit | Geriatrics and Gerontology MOOC to Improve Intention to Work with Older Adults and their Families. | Oral poster |
| November 2020 | GSA 2020 Annual | Washington, online | Minority status and readmissions: a moderated | Oral poster |

| Date | Name of Conference | Place of Conference | Subject of Lecture/Discussion | Role |
|---------------|--|----------------------------|---|-------------------|
| | Scientific Meeting | | mediation model of caregivers' health literacy | |
| October 2021 | NACIC2021 – The 1st North American Conference on Integrated Care | Toronto, Canada, online | The role of health literacy and family support continuity prior to and during acute hospitalization for preparedness to discharge | Oral presentation |
| November 2021 | GSA 2021 Annual Scientific Meeting | Phoenix, Arizona, Online | Continuity of Caregivers' Ensuring Medical Care and Care-Transition Preparedness: A Mediation Model | Oral presentation |

b. Participation in Local Conferences

| Date | Name of Conference | Place of Conference | Subject of Lecture/Discussion | Role |
|---------------|---|----------------------------|---|-------------------|
| June 2010 | Research fair of the Faculty of Social Welfare and Health Sciences | Haifa | Cultural Differences in the Quality of Care of Oncology Patients | Poster |
| June 2010 | Conference of the School of Public Health | Haifa | Cultural Differences in the Quality of Care of Oncology Patients Discharged from the Hospital | Oral presentation |
| December 2010 | The 8 th Conference for Health Policy of the National Institute for the Study of Health Services and Health Policy | Tel Aviv | Cultural Differences in the Quality of Care of Oncology Patients Discharged from the Hospital | Oral presentation |
| October 2010 | The 17 th Conference of the Israeli Society for Quality in Medicine | Tel Aviv | Cultural Differences in the Quality of Care of Oncology Patients Discharged from the Hospital | Oral presentation |
| March 2011 | Conference of the Department of Nursing | Haifa | Cultural Differences in the Quality of Care of Oncology Patients Discharged from the Hospital | Poster |
| June 2013 | Conference of the Department of Nursing | Haifa | Care transition from hospital to home among ethnic minorities | Oral presentation |

| Date | Name of Conference | Place of Conference | Subject of Lecture/Discussion | Role |
|---------------|--|----------------------------|---|-------------------|
| November 2013 | The 20 th Conference of the Israeli Society for Quality in Medicine | Tel Aviv | Evaluation of hospital discharge quality: The association between objective discharge practices and patient experience. | Poster |
| November 2016 | The 23 th Conference of the Israeli Society for Quality in Medicine | Tel Aviv | Transitional Care among Minority Patients: the role of Health Literacy, Caregiver Presence and Language-concordant Care | Oral presentation |
| May 2017 | The 12 th Conference for Health Policy of the National Institute for the Study of Health Services and Health Policy | Tel Aviv | Readmissions and Health literacy among Minority Patients: the role of language concordance and Caregiver presence | Oral presentation |
| June 2017 | The 5 th Conference of Health services Quality and Safety, Israeli Ministry of Health | Tel Aviv | Health Literacy and 30-day readmissions among minority patients | Oral presentation |
| November 2017 | The 24 th Conference of the Israeli Society for Quality in Medicine | Tel Aviv | Powerful in prevention readmissions: the role of the primary care physician explanations after discharge | Oral presentation |
| May 2018 | The 13 th Conference for Health Policy of the National Institute for the Study of Health Services and Health Policy | Tel Aviv | Reducing 30-day readmissions: The role of the primary care physician explanations after discharge in reducing 30-day readmissions. | Oral presentation |
| January 2020 | The 26 th Conference of the Israeli Society for Quality in Medicine | Tel Aviv | Association between cultural factors and readmissions: the mediating effect of the quality of transitional care | Oral presentation |
| March 2022 | The 27 th Conference of the Israeli Society for Quality in Medicine | Tel Aviv | A Faculty of Medicine's Unique Response to COVID-19: Establishing A Regional Community-Based Psycho-Social-Health Platform In Israel's Northern Periphery | Oral presentation |
| March 2022 | The 14 th Conference for Health Policy of the National Institute for | Tel Aviv | Shaping Health: Conducting A Community Health | Poster |

| Date | Name of Conference | Place of Conference | Subject of Lecture/Discussion | Role |
|------|--|---------------------|---|------|
| | the Study of Health Services and Health Policy | | Needs Assessment in Israel's Northern Periphery | |

6. Colloquium or Seminar Talks

| Year | Name of Forum | Place | Subject of Lecture | Role |
|------------------------|---|--|---|---------------------|
| 2019, 2020, 2022 | Population Health Course | Bar-Ilan University, Faculty of Medicine | Cultural competence of the Healthcare System | Presenter of a talk |
| 2017, 2018, 2019, 2022 | Advanced Issues in Quantitative Research Methods for PhD students | University of Haifa, Department of nursing | Multiple mediation and moderation models | Presenter of a talk |
| 2015, 2020 | Theories and their application in the research (MA & PhD) | University of Haifa, Department of nursing | Transitions from hospital to home among minorities: Adapting the Andersen's Health Behavior Model | Presenter of a talk |
| 2014, 2015 | Fundamentals of nursing course (BA) | University of Haifa, Department of nursing | Multiculturalism and Cultural Competence of the Healthcare System | Presenter of a talk |
| 2014 | Culture and health course (MA) | University of Haifa, Department of nursing | Principles of Islamic Religion in Health and Illness | Presenter of a talk |
| 2013 | Advanced Issues in Quantitative Research Methods for PhD students | University of Haifa, Department of nursing | Fundamentals for data management in Excel and SPSS | Presenter of a talk |

7. Research Grants

a. Submission of Research Proposals

| Years | Role in Research (PI, Co-PI, CI) | Other Researchers (Name & Role) | Title | Funds Requested Agency | Amount |
|-------|-------------------------------------|--|---|------------------------------|----------------------------|
| 2021 | Co-PI (Bar-Ilan) | Dr. Sivan Spitzer, Bar Ilan University, and Sabine Hahn, Bern University of Applied Sciences, Switzerland; Cedric Mabire, University of Lausanne, Switzerland; Mette Merete Pedersen, Copenhagen University Hospital, Denmark; Katrin Gillis, Odisee University College in | Enhancing quality of care and patient safety: AFeCTS – Age Friendly Culturally Tailored Safe Healthcare | HORIZON-HLTH-2021-CARE-05-01 | Total for project – 5M EUR |

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|------|--------------------------|--|--|---|--------|
| | | Flanders, Belgium; Jakib Lickiewics, Jagiellonian University, Medical College, Poland; and Efrat Shadmi & Anna Zisberg, Israel (PIs) | | | |
| 2022 | Co-PI (Haifa University) | Prof. Iris Manor Binyamini, Tel-Hai College, PI; Dr. Shiri Shinan-Altman, Bar Ilan University, Co-PI | A critical systematic literature review and meta-analysis of diabetes prevention and intervention programs: Insights into the Arab community in Israel | Ministry of Health-Chief Scientist Office | 50,000 |

8. Scholarships, Awards and Prizes

| Year | Scholarship/Award | Source |
|-----------|--|---|
| 2003-2006 | Annual scholarships from the dean of students and ministry of education | University of Haifa, Ministry of Education |
| 2006-2009 | Annual scholarships for excellence in studies (MA) | The graduate studies Authority, University of Haifa |
| 2007-2009 | 2-year scholarship for master's theses | The Israel National Institute for Health Policy Research |
| 2013-2014 | Advanced studies scholarship for PhD students | The graduate studies Authority, University of Haifa |
| 2014-2015 | Doctoral Research funding scholarship | The graduate studies Authority, University of Haifa |
| 2014-2017 | Scholarship from the Israeli Council for Higher Education (Planning & Budgeting Committee) for excellent Arab and minority doctoral students | Israeli Council for Higher Education (Planning & Budgeting Committee) |

9. Teaching

| Years | Name of Course | Type of Course | Levels | Number of Students |
|----------------|-----------------------------------|--------------------|--------|--------------------|
| 2015 - current | Fundamentals of nursing | Lectures | BA | 150-180 |
| 2017, 2020 | Quality measurement in healthcare | Lectures & seminar | BA | 35-40 |

| Years | Name of Course | Type of Course | Levels | Number of Students |
|----------------|---|---|---------------|---------------------------------------|
| 2018 - current | Culturally competent healthcare system | Lectures & seminar | BA | 35-40 |
| 2019 - current | Geriatrics and Gerontology (MOOC) | Online course | BA & MA | 180 – 500 Including external learners |
| 2020 - 2022 | Population Health course (faculty of medicine, Bar Ilan university) | Lectures & workshops (Between hospital and the community); (Cultural Issues in Health and Healthcare); (planning and implementing community interventions in public health and preventive medicine) | MD | 85 |
| 2020 - 2022 | ETGAR course (faculty of medicine, Bar Ilan university) | Lectures & workshops (the bridge between medicine and the community: improving health literacy and support discharged patients by medical students) | MD | 85 |

List of Publications

Ph.D. Dissertation

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|----------------------------|--|
| Title: | Care transition from hospital to home: A multi-dimensional approach to the study of cultural factors, care processes and outcomes. |
| Date of submission: | 10/09/2019 |
| Number of pages: | 101 |
| Language: | English |
| Name of supervisor: | Prof. Efrat Shadmi |
| University: | Department of Nursing, Haifa University |

Articles in Refereed Journals

1. Shadmi, E., Admi, H., Ungar, L., Naveh, N., Muller, E., Kaffman, M., **Rayan, N.** & Reis, S. (2010). Cancer care at the hospital-community interface: perspectives of patients from different cultural and ethnic groups. *Patient Education and Counseling*. 79(1), 106-11. [IF=2.30, 5- yr IF=2.92, Rank=49/158 in Public, Environmental, & Occupational Health (Q2), V].
2. Abu-Asbah, K., **Rayan-Gharra, N.**, Abu-Nasra, M. (2013). Reading Culture Among Arab Women in Israel. *Jama'a*, 17(1), 1-28. [Arabic, AL-Qasemi Academic college refereed journal].
3. Abu-Asbah, K., **Rayan-Gharra, N.**, Abu-Nasra, M. (2014). The attitudes of Arab Youth in Israel From the Risk of Using Psychoactive Substances. *Jama'a*, 18(2), 163-182. [Hebrew, AL-Qasemi Academic college refereed journal].
4. **Rayan, N.**, Admi, H. & Shadmi, E. (2014). Transitions from hospital to community care: the role of patient-provider language concordance. *Israel Journal of Health Policy Research*. 22(3), 24. doi: 10.1186/2045-4015-3-24. [IF= 1.35, 5-yr IF=1.36, Rank=50/75 in Health Policy and Services (Q3), V].

Commentary: Tan-McGrory, A. & Betancourt, J. (2014). Addressing language barriers and improving quality of transitions and discharge. The Israel Journal of Health Policy Research, 3:31.
5. Abu-Asbeh, K., **Rayan-Gharra, N.**, Abu Nasra M. (2014). Mental Health Treatment in Arab Society in Israel: Between Tradition and Modernity. *Society and Welfare* 34(1): 101-121. [Hebrew: "Chevrha and Revacha"].
6. Roe, D., Baloush-Kleinman, V., Dudai, R., Garber Epstein, P., Telem, A., Uliel-Mirkin, R., Rohana, A., **Rayan-Gharra, N.**, Shadmi, E., and Gelkopf, M. (2017). "The development and implementation of the Psychiatric Rehabilitation Routine Outcome Measurement (PR-ROM) Project in Israel". *Society and Welfare*, 37(4): 705-724. [Hebrew: "Chevrha and Revacha"].

7. **Rayan-Gharra N.**, Tadmor B., Balicer R.D., & Shadmi E. (2018). Multicultural Transitions: Caregiver Presence and Language-Concordance at Discharge. *International Journal of Integrated Care*. 18(3):9. doi: 10.5334/ijic.3965. [IF=2.75, 5-yr IF=2.94 Rank=32/102 in Healthcare Sciences and Services (Q2), V]
 8. **Rayan-Gharra N.**, Shadmi E., Tadmor B., Flaks-Manov N., Balicer R.D. (2019). Patients' ratings of the in-hospital discharge briefing and post-discharge primary care follow-up: The association with 30-day readmissions. *Patient Education and Counseling*. 102(8):1513-1519. doi: 10.1016/j.pec.2019.03.018. [IF= 2.94, 5-yr IF=3.41 rank=24/109 in Social Sciences Interdisciplinary (Q1), V].
 9. **Rayan-Gharra N.**, Tadmor B, Balicer RD, & Shadmi E. (2019). Association between cultural factors and readmissions: the mediating effect of hospital discharge practices and care-transition preparedness. *British Medical Journal Quality & Safety*. 28(11):866-874. doi: 10.1136/bmjqs-2019-009317. [IF=6.08, 5-yr IF=7.30, Rank=1/102 in Health Care Sciences & Services (Q1), V].
- Editorial: Khoong, E.C., Fernandez, A. (2019). Language, culture and preventable readmissions: pragmatic, intervention studies needed. BMJ Qual Safety. doi: 10.1136/bmjqs-2019-009836. 28(11):859-861*
10. ***Rayan-Gharra, N.**, Gutler-Ofir M. & Spitzer S.(2022). Shaping Health: Conducting A Community Health Needs Assessment in Israel's Northern Periphery. *International Journal for Equity in Health*. [IF=4.7, 5- yr IF=4.76, Rank=42/182 in Public, Environmental, & Occupational Health (Q1), V].

Authored Book

Abu-Asbah, H., **Rayan-Gharra, N.**, Nassar, T. (2011). Disabled and disabilities in Arab society in Israel. Dar El-Huda Publishing House, Kfar-Kara'. [Arabic].

Conference abstracts and proceedings

1. Shadmi, E., Admi, H., Ungar, L., Naveh, N., Kaffman, M., **Rayan, N.** & Muller, E. (2011). Cultural aspects in the transition from hospital to community care. *European Journal of Cancer*. 47, S82.
2. **Rayan-Gharra, N.**, Tadmor, B., Flaks-Manov, N., Balicer, R., & Shadmi, E. (2018). Transitional Care among Minority Patients: the role of Health Literacy, Caregiver Presence and Language-concordant Care. *International Journal of Integrated Care*, 18(s2).
3. **Rayan-Gharra, N.**, Shadmi, E., Tadmor, B., Flaks-Manov, N., & Balicer, R. (2018). Meaningful post-discharge primary care visits and readmissions: Are primary care post discharge

explanations associated with reduced risk for readmission? *International Journal of Integrated Care*, 18(s2).

4. **Rayan-Gharra, N.**, & Shadmi, E. (2019). Association between cultural factors and readmissions: the mediating effect of the quality of transitional care. *International Journal of Integrated Care (IJIC)*, 19.
5. **Rayan-Gharra, N.**, Gur-Yaish, N., & Shulyaev, K. (2020). Minority status and readmissions: a moderated mediation model of caregivers' health literacy. *Innovation in Aging*, 4(Suppl 1), 917.
6. **Rayan-Gharra, N.** (2021). Minority status and 30-day readmission: a moderated mediation model of informal caregivers' ensuring and explaining medical care during hospitalization and caregivers' health literacy. *International Journal of Integrated Care*, 21(S1).
7. **Rayan-Gharra, N.**, Tonkikh, O., & Gur-Yaish, N. (2021). Continuity of Caregivers' Ensuring Medical Care and Care-Transition Preparedness: A Mediation Model. *Innovation in Aging*, 5(Supplement_1), 277-277.
8. **Rayan-Gharra, N.**, Tonkikh, O., & Gur-Yaish, N. (2022). The role of health literacy and family support continuity prior to and during acute hospitalization for preparedness to discharge. *International Journal of Integrated Care*, 22(S2).

Other Works and Publications

Rayan-Gharra, N. (2019). Speak the patient's native language and prevent hospital readmissions in the internal medicine wards. *Doctors only*. [Hebrew].

<https://publichealth.doctoronly.co.il/2019/09/174606/>

Submitted for Publication

Rayan-Gharra, N. & Spitzer S. A regional-community-based medical student-run platform to assist patients in a culturally diverse periphery. *Academic medicine (under review)*. [IF=8.03, 5- yr IF=8.195, Rank=1/44 Education, scientific disciplines (Q1), V].

Rayan-Gharra, N., Tonkikh, O., Gur-Yaish, N. Family Caregivers' Role in Patients' Preparedness for Hospital Discharge: A parallel Mediation Model. *BMJ quality & safety (under review)*. [IF=7.43, 5- yr IF=9.03, Rank=8/109 in Health Care Sciences & Services (Q1), V].

Publications in Preparation

1. **Rayan-Gharra, N.**, Tonkikh, O., Gur-Yaish, N. Minority status and 30-day readmission: a moderated mediated model of informal caregivers' ensuring and explaining medical care during hospitalization and caregivers' health literacy. To be submitted to the *Journal of General Internal Medicine*.
2. Bashkin, A., **Rayan-Gharra, N.** & Spitzer S. Multiple Rehospitalizations in Patients with Type 2 Diabetes Mellitus from Ethnic Minorities are Related to Socioeconomic Status Rather than to Health Status. To be submitted to *Journal of Hospital Medicine*.