Name: Michal Bitan   **Date: 11.09.2022**

CURRICULUM VITAE

1. Personal Details

Permanent Home Address: Ben Guryon 21 Givaat Shmuel Enter text here.

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Marital Status: Married

2. Higher Education

A. Undergraduate and Graduate Studies

1997-2001: B.Sc with honors in computer science, statistics, and operations research at Tel-Aviv University 5.2002.

2006-2010: MA with honors in Biostatistics at the Department of Statistics and Operation Research at Tel-Aviv University 2.2010.

B. Doctoral Degree and Post-Doctoral Studies 2012-2020: Ph.D. in Biostatistics at the Department of Statistics and Operation Research at Tel-Aviv University under the supervision of Prof. David Steinberg, Prof. Malka Grofine and Prof. Laura Rosen.

6. Participation in Scholarly Conferences

a. Active Participation

Date	Name of Conference	Place of Conference	Subject of Lecture/Discussion	Role
February 2021	SRNT 27th Annual Meeting	Zoom	Protecting children from tobacco smoke exposure - a randomized controlled trial	Lecture
February 2021	SRNT 27th Annual Meeting	Zoom	Changes in smoking behaviors in Israel during the first wave of the novel coronavirus	Poster
February 2020	The 8th ECToH European conference on tabacco or health	Berlin	Changes in Public Support for Smoke Free Areas in Israel Following Partial Implementation of the National Tobacco Control Plan.	Poster
July	The annual	Kfar	Project Zero Exposure, an	Poster

2019	conference of the Association of Public Health Physicians and schools of public health	Hamakabya, Israel	intervention to protect children from tobacco smoke exposure: Results from a randomized controlled trial	
July 2018	IBS conference	Barcelona	Measurement error in calibration sub-studies	Lecture
July 2018	The annual conference of the Association of Public Health Physicians and schools of public health	Kfar Hamakabya, Israel	Association between biomarkers and parentally-reported measures of child tobacco smoke exposure: A secondary analysis of data from three trials	Poster
May 2018	Israeli Statistical Association	Weizmann Institute of Science, Israel	Estimating the intervention effect and measurement error in calibration sub-studies	First prize winning Poster
February 2018	SRNT (Society For Research On Nicotine and Tobacco) 24th annual meeting	USA	Correlations between child hair nicotine and parentally reported exposure	Poster
May 2017	9th EMR-IBS conference	Thessaloniki	Estimating the intervention effect and measurement error in calibration sub-studies	Lecture
April 2012	Faculty of Medicine Research Fair	Tel-Aviv University, Israel	Will parents protect their young children from tobacco smoke exposure? A Systematic Review and Meta-analysis	Poster
March 2010	Faculty of Medicine Research Fair	Tel-Aviv University, Israel	Determinants of second-hand smoke exposure among Israeli school children	Poster
March 2010	Faculty of Medicine Research Fair	Tel-Aviv University, Israel	Will parents quit smoking to protect their kids from secondhand smoke exposure? A systematic review and meta-analysis of intervention trials	Poster
May 2009	Eighth Scientific Symposium of the Flight Attendants' Medical Research Institute	Boston, USA	Protecting young children from secondhand smoke: Preliminary results from a meta-analysis	Poster

10. <u>Teaching</u>

a. <u>Courses Taught in Recent Years</u>

Year	Course Name	Degree	No. of Students
Courses at Tel-Aviv University			
2007	Operations research 1	B.Sc.	80
2013-2014	Probability and Statistics	B.Sc.	80

2014-today	Introduction to Statistics and Data Analysis	B.A	120
2014-today	Biostatistics for Occupational Medicine	M.A	20
2015-today	Statistic for Geography	B.A	60
2015-2018	Statistics for life science	B.A	60
2016	Statistics for medicine	B.A	60
2019-today	Statistics for Biomedical engineering	B.Sc.	100
2019	Introduction to Probability and Statistics	B.Sc.	60
Courses at Tel-Aviv-Yaffo Academic College (2018 teaching prize)			
2008-today	Introduction to probability	B.Sc.	60
2019-today	Statistics 1	B.A	60
2018-2020	Statistics 2	B.A	60
2020-today	Statistical applications	B.A	60
Courses at the College of Management Academic Students			
2019-today	Introduction to probability and statistics	B.A	60
2009-2010	Statistics 3	B.A	30
Courses at Ridman College			
2014	Statistics	B.A	30
Courses at the Academic college Ramat-Gan			
2017-2018	Introduction to statistics and research methods in nursing	B.A	90
2018	Quantitative research methods in management	B.A	90
2017-today	Final project in health systems management - Supervision of M.A graduate students	M.A	30

12. <u>Professional Experience</u>

2001-2003: **Software engineer in the server team at "Actimize":**
"Actimize" is a company supplying analytical software solutions for finance businesses.
"Actimize" develop technological platforms for real-time assessment and analysis of information.
I have worked as a C++ programmer using MQSeries, MSMQ, XML, and other file types. I have programmed drivers, LogViewer and a component that retrieves pages from different drivers. The job required team-work, including cooperation between different work-teams.

13. <u>Additional Experience in the Academy</u>

2006-2012: **Homework checker in statistics and operation research at Tel-Aviv University.**
2008-2020: **Research assistant in the project "Zero Exposure"** at Tel-Aviv University:
The "Zero Exposure" project is intended to offer and inspect intervention in order to protect babies from exposure to Second-Hand smoke. As part of my job, I helped to conduct a meta-analysis for this kind of

intervention, building the questionnaire that is given to the parents, arranging the intervention and providing a statistical analysis of the acquired data.

2008-2010: Homework checker in operations research at Shenkar College.
2009-2017: Homework checker in statistics at IDC Herzliya
2009-today: **Statistical advisor and analyzing statistical data for M.A and Ph.D. students**
2019-today**: Research assistant in the public health department.**

PUBLICATIONS
D. Articles in Refereed Journals

Published

1. **Bitan, M.,** Steinberg, D. M., Wilson, S. R., Kalkbrenner, A. E., Lanphear, B., Hovell, M. F., ... & Rosen, L. J. (2022). Association between objective measures and parent-reported measures of child tobacco smoke exposure: A secondary data analysis of four trials. Tobacco Induced Diseases, 20**. (Q2)**

2. Novak, A. M., Katz, A., **Bitan, M**., & Lev-Ari, S. (2022). The Association between the Sense of Coherence and the Self-Reported Adherence to Guidelines during the First Months of the COVID-19 Pandemic in Israel. International Journal of Environmental Research and Public Health, 19(13), 8041. (Q2)

3. Peretz, C., Rotem, N., Keinan-Boker, L., Furshpan, A., Green, M., **Bitan, M**., & Steinberg, D. M. (2022). Excess mortality in Israel associated with COVID-19 in 2020–2021 by age group and with estimates based on daily mortality patterns in 2000–2019. International journal of epidemiology. (cited by 1 article) (Q1)

4. Orna Tal, Yifat Ne'eman, Rotem Sadia, Rouchama Shmuel, Eitan Schejter & **Michal Bitan** (2021) Parents' attitudes toward children's vaccination as a marker of trust in health systems, Human Vaccines & Immunotherapeutic, DOI: 10.1080/21645515.2021.1971472 (Q1)

5. Laura Rosen, PhD, David Zucker, PhD, Nurit Guttman, PhD, Nili Brown, BA, **Michal Bitan, MSc**, Ana Rule, PhD, Mati Berkovitch, MD, Vicki Myers, PhD, Protecting Children From Tobacco Smoke Exposure: A Randomized Controlled Trial of Project Zero Exposure, *Nicotine & Tobacco Research*, Volume 23, Issue 12, December 2021, Pages 2003–2012, https://doi.org/10.1093/ntr/ntab106 (cited by 1 article) (Q1)

6. **Bitan, M.,** Gorfine, M., Rosen, L., & Steinberg, D. M. (2021). Efficient study design to estimate population means with multiple measurement instruments. *Statistics in Medicine*. (cited by 2 articles) (Q1)

7. **Talitman, M**., Gorfine, M., & Steinberg, D. M. (2020). Estimating the intervention effect in calibration substudies. *Statistics in Medicine*, *39*(3), 239-251. (cited by 4 articles) (Q1)

8. Rosen, L. J., Rier, D. A., Schwartz, R., **Talitman, M**., & Zwanziger, L. (2019). Knowledge and risk perceptions of Israelis towards combustible cigarettes: the need for immediate remedial action. *Israel journal of health policy research*, *8*(1), 10.; doi: 10.1186/s13584-018-0276-2; (cited by 3 articles) (Q3)

9. Rosen, L., Rier, D., **Talitman, M**., Schwartz, R., Zwanziger, L. (2018). Knowledge and risk perceptions of israelis towards combustable cigarettes: the need for immediate remedial action. Tobacco Induced Diseases, 16(1), A715. https://doi.org/10.18332/tid/84276. http://www.tobaccoinduceddiseases.org/Knowledge-and-risk-perceptions-of-israelis-towards-combustable-cigarettes-the-need,84276,0,2.htm (cited by 3 articles) (Q2)

10. Man, V., Hecht, I., **Talitman, M**., Hilely, A., Midlij, M., Burgansky-Eliash, Z., & Achiron, A. (2017). Treatment of retinal artery occlusion using transluminal Nd: YAG laser: a systematic review and

meta-analysis. *Graefe's Archive for Clinical and Experimental Ophthalmology*, *255*(10), 1869-1877; doi: 10.1007/s00417-017-3777-8 (cited by 18 articles) (Q1)

11. Rosen, L. J., Myers, V., Hovell, M., Zucker, D., **& Noach, M. B**. (2014). Meta-analysis of parental protection of children from tobacco smoke exposure. *Pediatrics*, *133*(4), 698-714; doi: 10.1542/peds.2013-0958 (cited by 79 articles) (Q1)

12. Rosen, L. J., **Noach, M. B.,** Winickoff, J. P., & Hovell, M. F. (2012). Parental smoking cessation to protect young children: a systematic review and meta-analysis. *Pediatrics*, *129*(1), 141-152; doi: 10.1542/peds.2010-3209 (cited by 205 articles) (Q1)

13. **Ben Noach, M.**, Steinberg, D. M., Rier, D. A., Goldsmith, R., Shimony, T., & Rosen, L. J. (2012). Ethnic differences in patterns of secondhand smoke exposure among adolescents in Israel. *Nicotine & Tobacco Research*, *14*(6), 648-656; doi: 10.1093/ntr/ntr261 (cited by 13 articles) (Q1)

14. Rosen, L. J., Guttman, N., Hovell, M. F., **Noach, M. B**., Winickoff, J. P., Tchernokovski, S. & Klepeis, N. E. (2011). Development, design, and conceptual issues of project zero exposure: A program to protect young children from tobacco smoke exposure. *BMC Public Health*, *11*(1), 508. (cited by 14 articles) (Q1)

15. Rosen, L. J., & **Noach, M. B.** (2010). Systematic reviews on tobacco control from Cochrane and the Community Guide: different methods, similar findings. *Journal of Clinical Epidemiology*, *63*(6), 596-606; doi:10.1016/j.jclinepi.2009.09.010. (cited by 13 articles) (Q1)

16. Rosen, L. J., **Noach, M. B.,** & Rosenberg, E. (2010). Missing the forest (plot) for the trees? A critique of the systematic review in tobacco control. *BMC medical research methodology*, *10*(1), 34. (cited by 5 articles) (Q1)

submitted for Publication

1. Noa Theitler, Vaughan W. Rees, Maya Peled Raz, Michal Bitan, Laura J. Rosen. Tobacco smoke incursion into private residences: A cross-sectional study examining public perceptions of private rights and support for governmental policies" has been successfully submitted online and is presently being given full consideration for publication in Tobacco Control. Tobacco Control

2. Noah G. Rubinson, Geoffrey T. Fong, Shannon Gravely, Anne C.K. Quah, **Michal Bitan**, Shahar Lev Ari and Laura J. Rosen (2021). The association between risk perceptions, anxiety, and changes in tobacco and nicotine product use behaviors due to COVID-19 in May-June 2020 in Israel. Nicotine & Tobacco Research

3. Orna Tal MD, MHA, Arnon Ravid, Shlomit Bargil, MD, Jaklin Epel, Mira Avdayev, **Michal Bitan**, PhD. Physician burnout as reflected by patients - the effect of COVID-19 on patients' perspective. Public opinion quarterly.

Acknowledgment in the article (statistical analysis)

1. Shapira, S., Kazanov, D., Mdah, F., Yaakobi, H., Herishanu, Y., Perry, C., ... & Arber, N. (2021). Feasibly of CD24/CD11b as a Screening Test for Hematological Malignancies. *Journal of Personalized Medicine*, *11*(8), 724.

2. Shapira, S., Aiger, G., Ohayon, A., Kazanov, D., Mdah, F., Shimon, M. B., ... & Arber, N. (2021). Predictors of the CD24/CD11b Biomarker among Healthy Subjects. *Journal of personalized medicine*, *11*(9), 939.

L. <u>Summary of My Research Activities and Future Plans</u>

I am working on the following fields:
- Perceptions regarding characteristics of professionalism among physicians and nurses
- The challenge of telemedicine - using SWOT methodology and value-based assessment to analyze barriers, incentives, and opportunities
- Does restricting parental smoking to porches or specified indoor places protect children from tobacco smoke? Results from Project Zero Exposure
- Vaccinations during pregnancy: what influences the decision to get vaccinated?

My future plans are:
- Nurse training - how well they apply what they have been trained in practice
- Studying the relationship between positive thinking and success
- Studying the relationship between positive thinking and well-being
- Extending the model for the indirect measurement to also include subject-level covariates
- Extending the model for Estimating the intervention effect for studies with more than one time point.
- Building an algorithm to choose the best IVF protocol according to the patient's profile: demographic variables, her emotional state, her health status and her daily life, in order to increase the success of the treatments