

Miquel Serra-Burriel, PhD

Personal information and contact

- Epidemiology, Biostatistics, and Prevention Institute, University of Zurich, Hirschengraben 84, 8001, Zurich, HRS F 08.
- E-Mail: miquel.serraburriel@uzh.ch
- [Google Scholar Profile](#)
- [ORCID: 0000-0001-8595-1224](#)
- [Scopus Author Identifier: 57196946626](#)

Education

- PhD Economics, University of Barcelona; 2019.
- MSc Health Economics and Health Policy, Barcelona Graduate School of Economics; 2014.
- BSc. Economics, Pompeu Fabra University; 2013.

Employment History

- Assistant Professor, Epidemiology, Biostatistics, and Prevention Institute (EBPI), University of Zurich (UZH); February 2025 – Pres.
- Postdoctoral researcher, Law, therapeutics and regulation, Chair Vokinger, University of Zurich (UZH); January 2022 – January 2024.
- Postdoctoral researcher, Epidemiology, Biostatistics, and Prevention Institute (EBPI), University of Zurich (UZH); September 2020 – January 2024.
- Postdoctoral researcher, Center for Research in Health, and Economics (CRES), Pompeu Fabra University (UPF); September 2019 – August 2020.
- Research Assistant, Center for Research in Health, and Economics (CRES), Pompeu Fabra University (UPF); September 2015 – September 2018.

Approved Research Projects

- European Commission IHI LiverAim, GAN [101132901](#), Co-applicant & **Principal Investigator** of Health Economics Work Package. Duration 01/04/2024 – 01/04/2029 (Funding: €1,260,000).
- [**Project partner**] Swiss National Science Foundation Synergia: From single disease reductionist research to informed Machine Learning: a new research paradigm for multimorbidity, GAN [216636](#). 01/08/2023 – 31/07/2027. (Approved amount CHF3,106,664)
- [**Project partner**] Swiss National Science Foundation Project Funding: SALuBRITY randomised clinical trial, GAN [208064](#). 01/06/2023 – 31/05/2027. (Approved amount CHF875,646)
- European Commission Horizon 2020 LiverHope, GAN [731875](#), Co-applicant & **Principal Investigator** of Health Economics Work Package. Duration 01/01/2017 – 01/06/2022 (Funding: €56,000).
- European Commission Horizon 2020 LiverScreen, GAN [847989](#). Co-applicant & **Principal Investigator** of Cost-Effectiveness Analysis Work Package. Duration: 01/01/2020 – 01/01/2024 (Funding: €120,000).

- European Institute of Innovation and Technology (EIT) Health FiSPlat, GAN [211007](#). Co-applicant & Principal Investigator of Cost-effectiveness Analysis Work Package. Duration: 01/01/2020 – 31/12/2022 (EIT Funding: €50,000).

Supervision of students

- Hongruyu Chen, PhD, advisor. (Epidemiology, Biostatistics, and Prevention Institute) – April 2024 – pres.
- Helena Aebersold, PhD, committee member. (Epidemiology, Biostatistics, and Prevention Institute, member of thesis committee) – Sept. 2020 – pres.
- Matthew Keys, MSc (Barcelona Graduate School of Economics) – Sept. 2017 – Sept. 2018. Currently PhD(c) at Southern Denmark University (SDU).
- Sahoko Ishida, MSc (London School of Economics) May 2017 – August 2017. Currently PhD(c) at London School of Economics (LSE).

Teaching activities

- Term Course: Methods Seminar. UZH Life Sciences PhD programme; Spring 2022.
- Term Course: Advanced Medical Research Methods. UZH Life Sciences PhD programme; Fall 2021-22-23-24.
- Term Course: Research methods for studies on human health and disease UZH (Class). Fall 2023-24.
- Block Course: Introduction to causal inference – EBPI UZH; November 2022.
- Block Course: The impacts of policies on health outcomes: Instructor – BGSE Microeconomics summer school; June 2019 & June 2021
- Block Course: Use of real-world data for health services and health policy research: Instructor – IACS; May 2018 & May 2019
- Block Course: Hospital performance evaluation: Instructor – AEETS; November 2018
- Block Course: Evidence-based surgery: Inference in non-experimental data: Instructor – VHIR; June 2018
- Block Course: The economics of antimicrobial resistance: Instructor – ISGlobal summer school; July 2017

Memberships in panels, boards and reviewing activities

- Associate editor, methodology: *Journal of Hepatology Reports*. 2023 – 2028.
- Associate editor, Health Economics, *Gaceta Sanitaria*. 2024 – 2029.
- Commissioner for the Lancet Commission on European Liver Diseases: *Health Economics*. 2019-2021
- Ad hoc Reviewer for: *The Lancet*, *Journal of Clinical Epidemiology*, *Journal of Hepatology*, *Statistical Methods in Medical Research*, *European Journal of Health Economics*, *Antimicrobial Resistance and Infection Control*, *BMC Health Services Research*, *Spine*, *Endoscopy*, *Liver International*, *BMC Surgery*, *BMC Infectious diseases*, *Neurosurgery*, *Clinical Gastroenterology and Hepatology*.
- Grant's reviewer for: ISCIII (2019), Basque Country Government (2020).
- Spanish Health Economics Association Scientific Committee Member (2021 – 2023).

Active memberships in scientific societies

- International Society for Pharmacoeconomics and Outcomes Research (ISPOR)

- Society for Epidemiologic Research (SER)
- Spanish Epidemiology Society (SEE)
- Spanish Health Economics Association (AES)

Peer-reviewed publications [^oCorresponding or Senior author]

1. **Serra-Burriel M**, Martin-Bassols N, Perényi G, Vokinger KN. Drug Prices After Patent Expirations in High-Income Countries and Implications for Cost-Effectiveness Analyses. *JAMA Health Forum*. **2024**;5(8):e242530. <https://doi.org/10.1001/jamahealthforum.2024.2530>
2. Thiele, M. Kamath, P.S. Graupera, I., de Konig, H, **Serra-Burriel, M**. Lammert, F. Ginès, P. Screening for liver fibrosis: lessons from colorectal and lung cancer screening. *Nature Reviews Gastroenterology and Hepatology*, **2024**, 21(7), pp. 517–527 <https://doi.org/10.1038/s41575-024-00907-2>
3. Merz L, Puhan MA, **Serra-Burriel M**.^o A discrete choice experiment on price and flavour effects on the appeal of nicotine products: a pilot study among young adults in Switzerland. *Swiss Med Wkly*. **2024** 154:3733 <https://doi.org/10.57187/s.3733>
4. Aebersold H, Foster-Witassek F, ..., **Serra-Burriel, M**^o. Patients on vitamin K treatment: is switching to direct-acting oral anticoagulation cost-effective? A target trial on a prospective cohort. *Open Heart* **2024**;11:e002567. <https://doi.org/10.1136/openhrt-2023-002567>
5. **Serra-Burriel, M.**, Locher, L. & Vokinger, KN. Development pipeline and geographic representation of trials for artificial intelligence/machine learning-enabled medical devices (2010 to 2023). *NEJM AI* **2023** <https://doi.org/10.1056/aipc2300038>
6. Vokinger, KN, **Serra-Burriel, M**, Glaus, CEG, et al. Regulatory Review Duration and Differences in Submission Times of Drugs in the United States and Europe, 2011 to 2020. *Ann Intern Med*. **2023**;176:1413-1418. <https://doi.org/10.7326/M23-0623>
7. Foster-Witassek, F, Aebersold, H, ... **Serra-Burriel, M**,^o Schwenkglenks, M.^o Longitudinal Changes in Health-Related Quality of Life in Patients With Atrial Fibrillation *Journal of the American Heart Association*, **2023**, 12(21), e031872
8. Juanola A, Ma AT, de Wit K, ... **Serra-Burriel, M**, ..., Ginès, P. Novel prognostic biomarkers in decompensated cirrhosis: a systematic review and meta-analysis. *Gut* **2023**;73:156-165. <https://doi.org/10.1136/gutjnl-2023-329923>
9. **Serra-Burriel, M**, Aebersold, H, et al. Real-World Cost-Effectiveness of Pulmonary Vein Isolation for Atrial Fibrillation: A Target Trial Approach. *Value in Health* **2023**, 26(12), pp. 1721-1729. <https://doi.org/10.1016/j.jval.2023.08.008>
10. Aebersold H, Foster-Witassek F, **Serra-Burriel M**, et al. Estimating the cost impact of atrial fibrillation using a prospective cohort study and population-based controls *BMJ Open* **2023**;13:e072080. doi: [10.1136/bmjopen-2023-072080](https://doi.org/10.1136/bmjopen-2023-072080)
11. **Serra-Burriel, M**, Juanola, A, et al. Development, validation, and prognostic evaluation of a risk score for long-term liver-related outcomes in the general population: a multicohort study. *The Lancet*, **2023** Volume 402, Issue 10406, 988 – 996 [https://doi.org/10.1016/S0140-6736\(23\)01174-1](https://doi.org/10.1016/S0140-6736(23)01174-1)
12. Vokinger K N, Glaus C E G, Kesselheim A S, **Serra-Burriel M**, Ross J S, Hwang T J et al. Therapeutic value of first versus supplemental indications of drugs in US and Europe (2011-20): retrospective cohort study *BMJ* **2023**; 382 :e074166 [doi:10.1136/bmj-2022-074166](https://doi.org/10.1136/bmj-2022-074166).
13. **Serra-Burriel, M** et al. The cancer premium – explaining differences in prices for cancer vs non-cancer drugs with efficacy and epidemiological endpoints in the US, Germany, and Switzerland: a cross sectional study. *eClinicalMedicine*, Volume 61, 102087, **2023**, <https://doi.org/10.1016/j.eclinm.2023.102087>

14. Ginès, P., Thiele, M., Graupera, I., **Serra-Burriel, M** et al. Screening for fibrosis to diagnose liver diseases early: the LiverScreen project. *Nature Medicine* 29, 774–775 (2023). <https://doi.org/10.1038/s41591-023-02265-z>
15. David L. Carl, Yannic Laube, **Serra-Burriel, M.**, Huseyin Naci, Wolf-Dieter Ludwig, Kerstin N. Vokinger. Comparison of Uptake and Prices of Biosimilars in the US, Germany, and Switzerland. *JAMA Network Open*, 2022;5(12)e2244670 <https://0.1001/jamanetworkopen.2022.44670>
16. Helena Aebersold, **Serra-Burriel, M.**, Fabienne Foster-Wittassek, Giorgio Moschovitis, Stefanie Aeschbacher, Angelo Auricchio, Jürg Hans Beer, Eva Blozik, Leo H Bonati, David Conen, Stefan Felder, Carola A Huber, Michael Kuehne, Andreas Mueller, Jolanda Oberle, Rebecca E Paladini, Tobias Reichlin, Nicolas Rodondi, Anne Springer, Annina Stauber, Christian Sticherling, Thomas D Szucs, Stefan Osswald, Matthias Schwenkglenks. Patient clusters and cost trajectories in the Swiss Atrial Fibrillation cohort. *Heart Published Online First*: 04 November 2022. <https://10.1136/heartjnl-2022-321520>
17. Isabel Graupera, Maja Thiele, Ann T Ma, **Serra-Burriel, M.**, Judit Pich, Núria Fabrellas, Llorenç Caballeria, Robert J de Knecht, Ivica Grgurevic, Mathias Reichert, Dominique Roulot, Jörn M Schattenberg, Juan M Pericas, Paolo Angeli, Emmanuel A Tsochatzis, Indra Neil Guha, Montserrat Garcia-Retortillo, Rosa M Morillas, Rosario Hernández, Jordi Hoyo, Matilde Fuentes, Anita Madir, Adrià Juanola, Anna Soria, Marta Juan, Marta Carol, Alba Diaz, Sönke Detlefsen, Pere Toran, Céline Fournier, Anne Llorca, Phillip N Newsome, Michael Manns, Harry J de Koning, Feliu Serra-Burriel, Fernando Cucchiatti, Anita Arslanow, Marko Korenjak, Laurens van Kleef, Josep Lluís Falcó, Patrick S Kamath, Tom H Karlsen, Laurent Castera, Frank Lammert, Aleksander Krag, Pere Ginès. LiverScreen project: study protocol for screening for liver fibrosis in the general population in European countries. *BMC Public Health* 22, 1385 (2022). <https://doi.org/10.1186/s12889-022-13724-6>
18. Isabel Graupera, Maja Thiele, **Serra-Burriel, M.**, Llorenç Caballeria, Dominique Roulot, Grace Lai-Hung Wong, Núria Fabrellas, Indra Neil Guha, Anita Arslanow, Carmen Expósito, Rosario Hernández, Guruprasad Padur Aithal, Peter R. Galle, Guillem Pera, Vincent Wai-Sun Wong, Frank Lammert, Pere Ginès, Laurent Castera, Aleksander Krag. Low Accuracy of FIB-4 and NAFLD Fibrosis Scores for Screening for Liver Fibrosis in the Population, *Clinical Gastroenterology and Hepatology*, Volume 20, Issue 11, 2022, Pages 2567-2576.e6, <https://doi.org/10.1016/j.cgh.2021.12.034>.
19. Octavi Bassegoda, Jesús Rivera-Esteban, Isabel Serra, Rosa Morillas, Teresa Broquetas, Mercedes Vergara, Adrià Rodriguez, Carles Aracil, Silvia Virolés, Jose A. Carrión, Albert Pardo, Sergio Rodríguez-Tajes, **Serra-Burriel, M**, Juan M. Pericàs, Salvador Augustin, Pere Ginès, Isabel Graupera. High frequency of acute decompensation and cancer in patients with compensated cirrhosis due to nonalcoholic fatty liver disease: A retrospective cohort study. *Hepatol Commun*. 2022; 6: 3212– 3222. <https://doi.org/10.1002/hep4.2056>
20. Anja Frei, Thomas Radtke, Kaba Dalla Lana, Patrick Brun, Thomas Sigrüst, Marc Spielmanns, Swantje Beyer, Thomas F. Riegler, Gilbert Büsching, Sabine Spielmanns, Ramona Kunz, Tamara Cerini, Julia Braun, Yuki Tomonaga, **Serra Burriel, M**, Ashley Polhemus, Milo A. Puhán. Effectiveness of a Long-term Home-Based Exercise Training Program in Patients With COPD After Pulmonary Rehabilitation: A Multicenter Randomized Controlled Trial, *Chest*, 2022, <https://doi.org/10.1016/j.chest.2022.07.026>.
21. Ferran Pellisé, Alba Vila-Casademunt, Susana Núñez-Pereira, Sleiman Haddad, Justin S Smith, Michael P Kelly, Ahmet Alanay, Christopher Shaffrey, Javier Pizones, Çağlar Yilgor, Ibrahim Obeid, Douglas Burton, Frank Kleinstück, Tamas Fekete, Shay Bess, Munish Gupta, Markus Loibl, Eric O Klineberg, Francisco J Sánchez Pérez-Grueso,

- Serra-Burriel, M.**, Christopher P Ames. Surgeons' risk perception in ASD surgery: The value of objective risk assessment on decision making and patient counselling. *Eur Spine J* 31, 1174–1183 (2022). <https://doi.org/10.1007/s00586-022-07166-2>
22. Marc Girod, Michael Coslovsky, Stefanie Aeschbacher, Christian Sticherling, Tobias Reichlin, Laurent Roten, Nicolas Rodondi, Peter Ammann, Angelo Auricchio, Giorgio Moschovitis, Richard Kobza, Patrick Badertscher, Sven Knecht, Philipp Krisai, Andrea Marugg, Helena Aebersold, Elisa Hennings, **Serra-Burriel, M.**, Matthias Schwenkglenks, Christine S Zuern, Leo H Bonati, David Conen, Stefan Osswald, Michael Kühne. Association of pulmonary vein isolation and major cardiovascular events in patients with atrial fibrillation. *Clin Res Cardiol* 111, 1048–1056 (2022). <https://doi.org/10.1007/s00392-022-02015-0>
 23. Wondra, J. P., Kelly, M. P., Greenberg, J. Y., Elizabeth L., Ames, C. P., Pellise, F, Vila-Casademunt, A, Smith, J. S., Bess, S., Shaffrey, C., Lenke, L. G., **Serra-Burriel, M.**, Bridwell, K. Validation of Adult Spinal Deformity Surgical Outcome Prediction Tools in Adult Symptomatic Lumbar Scoliosis. *Spine*: June 29, 2022 - [10.1097](https://doi.org/10.1097)
 24. Strassmann A, Çolak Y, **Serra-Burriel, M.** et al. Nationwide indoor smoking ban and impact on smoking behaviour and lung function: a two-population natural experiment. *Thorax* Published Online First: 11 March 2022. <https://thorax.bmj.com/content/early/2022/03/10/thoraxjnl-2021-218436>
 25. °**Serra-Burriel, M.**, Ames, C. Machine Learning-Based Clustering Analysis: Foundational Concepts, Methods, and Applications. *Machine learning in Clinical Neuroscience*. (p. 91-100). https://link.springer.com/chapter/10.1007/978-3-030-85292-4_12
 26. Karlsen, T.H., Sheron, N., Zelber-Sagi, S., Carrieri, P., Dusheiko, G., Bugianesi, E., Pryke, R., Hutchinson, S.J., Sangro, B., Cecchini, M., Dirac, M.A., Belloni, A., **Serra-Burriel, M.**, Ponsioen, C.Y., Sheena, B., Lerouge, A., Devaux, M., Scott, N., Hellard, M., Verkade, H.J., Sturm, E., Marchesini, G., Yki-Järvinen, H., Byrne, C.D., Targher, G., Tur-Sinai, A., Barret, D., Ninburg, M., Reic, T., Taylor, A., Rhodes, T., Treloar, C., Schramm, C., Flisiak, R., Simonova, Y.M., Pares, A., Johnson, P., Cuccheti, A., Graupera, I., Lionis, C., Pose, E., Fabrellas, N., Thu Ma, A., Mendive, J.M., Mazzaferro, V., Rutter, H., Cortez-Pinto, H., Kelly, D., Burton, R., Lazarus, J.V., Ginès, P., Buti, M., Newsome, P.N., Burra, P., Manns, M.P. The EASL-Lancet Commission: Protecting the next generation of Europeans against liver disease complications and premature mortality. *The Lancet* (2022; 399 (61-116). [https://doi.org/10.1016/S0140-6736\(21\)01701-3](https://doi.org/10.1016/S0140-6736(21)01701-3)
 27. °**Serra-Burriel, M.**, Campillo-Artero, C., Agodi, A., Barchitta, M., López-Casasnovas, G. Association Between Antibiotic Resistance in ICU-Acquired Infections and Excess Resource Utilization: Evidence from Spain, Italy, and Portugal. *Infection Control & Hospital Epidemiology* (2021; Online ahead of print). <https://doi.org/10.1017/ice.2021.429>
 28. °**Serra-Burriel, M.**, Hurtado, I., Sanfèlix-Gimeno, G., García-Sempere, A. and Peiró, S. Cost-Sharing Increase, Medication Adherence, and Hospitalizations in Schizophrenia Patients: A Natural Experiment. *Clinical Pharmacology & Therapeutics* (2021; Online ahead of print). <https://doi.org/10.1002/cpt.2283>
 29. Ginès, P., Castera, L., Lammert, F., Graupera, I., **Serra-Burriel, M.**, Allen, A.M., Wai-Sun Wong, V., Hartmann, P., Thiele, M., Caballeria, L., de Knegt, R.J., Grgurevic, I., Augustin, S., Tsochatzis, E.A., Schattenberg, J.M., Guha, I.N., Martini, A., Morillas, R.M., Garcia-Retortillo, M., de Koning, H.J., Fabrellas, N., Pich, J., Ma, A.T., Diaz, M.A., Roulot, D., Newsome, P.N., Manns, M., Kamath, P.S., Krag, A. Population screening for liver fibrosis: towards early diagnosis and intervention for chronic liver diseases. *Hepatology* (2021; Online ahead of print). <https://doi.org/10.1002/hep.32163>

30. Bassegoda, O., Olivas, P., Turco, L., Mandorfer, M., **Serra-Burriel, M.**, Tellez, L., Kwanten, W., Laroyenne, A., Farcau, O., Alvarado, E., Moga, L., Vuille-Lessard, E., Ignacio Fortea, J., Ibañez, L., Tosetti, G., Vanwolleghe, T., Larrue, H., Burgos-Santamaría, D., Stefanescu, H., Paternostro, R., Cippitelli, A., Lens, A., Augustin, S., Llop, E., Laleman, W., Trebicka, J., Chang, J., Masnou, H., Zipprich, A., Miceli, F., Semmler, G., Forns, X., Primignani, M., Bañares, R., Puente, A., Berzigotti, A., Emmanuel Rautou, P., Villanueva, C., Gines, P., Garcia-Pagan, J.C., Procopet, B., Bureau, C., Albillos, A., Francque, S., Reiberger, T., Schepis, F., Graupera, I., Hernandez-Gea, V. Decompensation in advanced non-alcoholic fatty liver disease may occur at lower hepatic venous pressure gradient levels than in patients with viral disease *Clinical Gastroenterology & Hepatology* (2021; Online ahead of print). <https://doi.org/10.1016/j.cgh.2021.10.023>
31. Costa-Seixas J.P., López-Cerón, M., Arnau, A., Rosiñol o., Cuatrecasas, M., Herreros-de-Tejada, Ferrández, A., **Serra-Burriel, M.**, Nogales, O., de Castro, L., López-Vicente, J., Vega, P., Álvarez-González, M.A. González-Santiago, J.M., Hernández-Conde, M., Díez-Redondo, P., Rivero-Sánchez, L., Gimeno-García, A.Z., Burgos, A., García-Alonso, F.J., Bustamante-Balén, M., Martínez-Bauer, E., Peñas, B., Rodríguez-Alcalde, D., Pellisé, M., Puig, I. Compound Endoscopic Morphological Features for Identifying Non-Pedunculated Lesions ≥ 20 mm with Intramucosal Neoplasia. *Cancers* (2021; 13(21), 5302). <https://doi.org/10.3390/cancers13215302>
32. Dominguez-Valentin, Plazzer, J.P., M., Sampson, et al. (**Serra-Burriel, M.**, PSLD Consortium) No Difference in Penetrance between Truncating and Missense/Aberrant Splicing Pathogenic Variants in MLH1 and MSH2: A Prospective Lynch Syndrome Database Study. *Journal of Clinical Medicine* (2021; 10(13), 2856). <https://doi.org/10.3390/jcm10132856>
33. Pellisé, F., **Serra-Burriel, M.**, Vila-Casademunt, A., Gum, J.L., Obeid, I., Smith, J.S., Kleinstück, F.S., Bess, S., Pizones, J., Lafage, V., Pérez-Grueso, F.J.S., Schwab, F.J., Burton, D.C., Klineberg, E.O., Shaffrey, C.I., Alanay, A., Ames, C.P. Quality metrics in adult spinal deformity surgery over the last decade: a combined analysis of the largest prospective multicenter data sets. *Journal of Neurosurgery: Spine*. (2021; Online ahead of print). <https://doi.org/10.3171/2021.3.SPINE202140>
34. Brünger, B., Bähler, C., Schwenkglens, M., Ulyte, A., Dressel, G., von Wyl, V., Gruebner, O., Wei, W., **Serra-Burriel, M.**, Blozik, E. Surgical procedures in inpatient versus outpatient settings and its potential impact on follow-up costs. *Health Policy* (2021; Online ahead of print). <https://doi.org/10.1016/j.healthpol.2021.07.006>
35. Sequeira-Aymar, E., Cruz, A., **Serra-Burriel, M.**, di Lollo, X., Gonçalves, A.Q., Camps-Vilà, L., Monclus-Gonzalez, M.M., Revuelta-Muñoz, E.M., Busquet-Solé, N., Sarriegui-Domínguez, S., Casellas, A., Llorca, M.R., Aguilar-Martín, C., Jacques-Aviñó, C., Hargreaves, S., Requena-Méndez, A. Improving the detection of infectious diseases in at-risk migrants with an innovative integrated multi-infection screening digital decision support tool (IS-MiHealth) in primary care: A pilot cluster-randomized controlled trial. *J. Travel Med.* (2021; Online ahead of print). <https://doi.org/10.1093/jtm/taab100>
36. Joshi, R.S., Lau, D., Scheer, J.K., **Serra-Burriel, M.**, Vila-Casademunt, A., Bess, S., Smith, J.S., Pellise, F., Ames, C.P. State-of-the-art reviews predictive modeling in adult spinal deformity: applications of advanced analytics. *Spine Deformity* (2021; Online ahead of print). <https://doi.org/10.1007/s43390-021-00360-0>
37. Vives, M.L., Fernandez-Navia, T., Teixidó, J.J., **Serra-Burriel, M.** Lenience breeds strictness: The generosity-erosion effect in hiring decisions. *Science Advances* (2021; 7). <https://doi.org/10.1126/sciadv.abe2045>

38. Núñez-Pereira, S., **Serra-Burriel, M.**, Vila-Casademunt, A., Hayashi, K., Haddad, S., Pizones, J., Kleinstück, F., Obeid, I., Alanay, A., and Pellisé, F. The dynamics of satisfaction in surgical and non-surgical adult spinal deformity patients. *European Spine Journal* (2021; 30, 1235-1246). <https://doi.org/10.1007/s00586-021-06816-1>
39. Duran-Sanchon, S., Moreno, L., Gómez-Matas, J., Augé, J.M., **Serra-Burriel, M.**, Cuatrecasas, M., Moreira, L., Serradesanferm, A., Pozo, À., Grau, J., Pellisé, M., Gironella, M., Castells, A. Fecal MicroRNA-Based Algorithm Increases Effectiveness of Fecal Immunochemical Test–Based Screening for Colorectal Cancer. *Clinical Gastroenterology & Hepatology* (2021; 19, 323-330.e1). <https://doi.org/10.1016/j.cgh.2020.02.043>
40. Solà, E., Pose, E., Campion, D., Piano, S., Roux, O., Simon-Talero, M., Uschner, F., de Wit, K., Zaccherini, G., Alessandria, C., Beuers, U., Caraceni, P., Francoz, C., Mookerjee, R.P., Trebicka, J., Vargas, V., **Serra-Burriel, M.**, Torres, F., Montagnese, S., Krag, A., Hernaez, R., Korenjak, M., Watson, H., Abraldes, J.G., Kamath, P.S., Ginès, P. Endpoints and design of clinical trials in patients with decompensated cirrhosis: Position paper of the LiverHope Consortium. *Journal of Hepatology*. (2021; 74, 200–219). <https://doi.org/10.1016/j.jhep.2020.08.009>
41. von Wyl, V., Höglinger, M., Sieber, C., Kaufmann, M., Moser, A., **Serra-Burriel, M.**, Ballouz, T., Menges, D., Frei, A., Puhan, M.A. Drivers of Acceptance of COVID-19 Proximity Tracing Apps in Switzerland: Panel Survey Analysis. *JMIR Public Health Surveillance* (2021; 7(1): e25701). <https://doi.org/10.2196/25701>
42. Keys*, M.T., °**Serra-Burriel***, M., Martínez-Lizaga, N., Pellisé, M., Balaguer, F., Sánchez, A., Bernal-Delgado, E., and Castells, A. Population-based organized screening by faecal immunochemical testing and colorectal cancer mortality: A natural experiment. *International Journal of Epidemiology*. (2021; 50, 143–155). <https://doi.org/10.1093/ije/dyaa166>
43. González-Suárez, B., Pagés, M., Araujo, I.K., Romero, C., Rodríguez De Miguel, C., Ayuso, J.R., Pozo, À., Vila-Casadesús, M., Serradesanferm, A., Ginès, À., Fernández-Esparrach, G., Pellisé, M., López-Cerón, M., Flores, D., Córdova, H., Sendino, O., Grau, J., Llach, J., **Serra-Burriel, M.**, Cárdenas, A., Balaguer, F., Castells, A. Colon capsule endoscopy versus CT colonography in FIT-positive colorectal cancer screening subjects: A prospective randomised trial - The VICOCA study. *BMC Medicine* (2021; 18, 255). <https://doi.org/10.1186/s12916-020-01717-4>
44. Sánchez, A., Roos, V.H., Navarro, M., Pineda, M., Caballol, B., Moreno, L., Carballal, S., Rodríguez-Alonso, L., Ramon y Cajal, T., Llord, G., Piñol, V., López-Fernández, A., Salces, I., Dolores-Picó, M., Rivas, L., Bujanada, L., Garzon, M., Pizarro, A., Martínez de Castro, E., López-Arias, M.J., Poves, C., Grau, C., Rodríguez-Alcalde, D., Herraiz, M., Alvarez-Urrutia, C., Dacal, A., Carrillo-Palau, M., Cid, L., Ponce, M., Barreiro-Alonso, E., Saperas, E., Aguirre, E., Romero, C., Bastiaanen, B., Gonzalez-Acosta, M., Morales-Romero, B., Ocaña, T., Rivero-Sánchez, L., Jung, G., Bessa, X., Cubiella, J., Jover, R., Rodríguez-Moranta, F., Balmaña, J., Brunet, J., Castells, A., Dekker, E., Capella, G., **Serra-Burriel, M.**, Moreira, L., Pellisé, M., Balaguer, F. Quality of Colonoscopy Is Associated With Adenoma Detection and Postcolonoscopy Colorectal Cancer Prevention in Lynch Syndrome. *Clinical Gastroenterology & Hepatology* (2020; Online ahead of print). <https://doi.org/10.1016/j.cgh.2020.11.002>
45. Ames, C.P., Smith, J.S., Gum, J.L., Kelly, M., Vila-Casademunt, A., Burton, D.C., Hostin, R., Yeramani, S., Lafage, V., Schwab, F.J., Shaffrey, C., Bess, S., Pellisé, F., °**Serra-Burriel, M.** Utilization of Predictive Modeling to Determine Episode of Care Costs and to Accurately Identify Catastrophic Cost Nonwarranty Outlier Patients in Adult Spinal Deformity Surgery: A Step Toward Bundled Payments and Risk Sharing. *Spine* (2020; 45, E252–E265). <https://doi.org/10.1097/BRS.0000000000003242>

46. Duran-Sanchon, S., Moreno, L., Augé, J.M., **Serra-Burriel, M.**, Cuatrecasas, M., Moreira, L., Martín, A., Serradesanferm, A., Pozo, À., Costa, R., Lacy, A., Pellisé, M., Lozano, J.J., Gironella, M., Castells, A. Identification and Validation of MicroRNA Profiles in Fecal Samples for Detection of Colorectal Cancer. *Gastroenterology* (2020; 158, 947-957.e4). <https://doi.org/10.1053/j.gastro.2019.10.005>
47. °**Serra-Burriel, M.**, Keys, M., Campillo-Artero, C., Agodi, A., Barchitta, M., Gikas, A., Palos, C., and López-Casasnovas, G. Impact of multi-drug resistant bacteria on economic and clinical outcomes of healthcare-associated infections in adults: Systematic review and meta-analysis. *PLoS One* (2020; 15, e0227139). <https://doi.org/10.1371/journal.pone.0227139>
48. Dominguez-Valentin, M., Sampson, J.R., Seppälä, T.T. et al. (**Serra-Burriel, M.**, PSLD Consortium) Cancer risks by gene, age, and gender in 6350 carriers of pathogenic mismatch repair variants: findings from the Prospective Lynch Syndrome Database. *Genetics in Medicine* (2020; 22, 15–25). <https://doi.org/10.1038/s41436-019-0596-9>
49. **Serra-Burriel***, M., Graupera*, I., Torán, P., Thiele, M., Roulot, D., Wai-Sun Wong, V., Neil Guha, I., Fabrellas, N., Arslanow, A., Expósito, C., Hernández, R., Lai-Hung Wong, G., Harman, D., Darwish Murad, S., Krag, A., Pera, G., Angeli, P., Galle, P., Aithal, G.P., Caballeria, L., Castera, L., Ginès, P., Lammert, F. Transient elastography for screening of liver fibrosis: Cost-effectiveness analysis from six prospective cohorts in Europe and Asia. *Journal of Hepatology* (2019; 71, 1141–1151). <https://doi.org/10.1016/j.jhep.2019.08.019>
50. Ames, C.P., Smith, J.S., Pellisé, F., Kelly, M., Gum, J.L., Alanay, A., Acaroğlu, E., Pérez-Grueso, F.J.S., Kleinstück, F.S., Obeid, I., Vila-Casademunt, A., Shaffrey, C., Burton, D., Lafage, V., Schwab, F., Bess, S., °**Serra-Burriel, M.** Development of predictive models for all individual questions of SRS-22R after adult spinal deformity surgery: a step toward individualized medicine. *European Spine Journal* (2019; 28, 1998–2011). <https://doi.org/10.1007/s00586-019-06079-x>
51. Ames, C.P., Smith, J.S., Pellisé, F., Kelly, M., Alanay, A., Acaroğlu, E., Pérez-Grueso, F.J., Kleinstück, F., Obeid, I., Vila-Casademunt, A., Shaffrey, C.I., Burton, D., Lafage, V., Schwab, F., Shaffrey, C.I.Sr., Bess, S., °**Serra-Burriel, M.** Artificial Intelligence Based Hierarchical Clustering of Patient Types and Intervention Categories in Adult Spinal Deformity Surgery. *Spine* (2019 ; 44(13), 915-926). <http://doi.org/10.1097/BRS.0000000000002974>
52. Pellisé, F., **Serra-Burriel, M.**, Smith, J. S., Haddad, S., Kelly, M. P., Vila-Casademunt, A., Sánchez Pérez-Grueso, F. J., Bess, S., Gum, J. L., Burton, D. C., Acaroğlu, E., Kleinstück, F., Lafage, V., Obeid, I., Schwab, F., Shaffrey, C. I., Alanay, A., Ames, C. Development and validation of risk stratification models for adult spinal deformity surgery, *Journal of Neurosurgery: Spine* (2019; 31(4), 587-599). <https://doi.org/10.3171/2019.3.SPINE181452>
53. Pizones, J., Baldan, M.M., Sánchez Perez-Grueso, F.J., Yilgor, C., Vila-Casademunt, A., **Serra-Burriel, M.**, Obeid, I., Alanay, A., Acaroglu, E. Pellisé, F. Impact of Adult Scoliosis on Roussouly Sagittal Shape Classification. *Spine* (2019; 44(4), 270-279). <https://doi.org/10.1097/BRS.0000000000002800>
54. S. Richner-Wunderlin, A. F. Mannion, A. Vila-Casademunt, F. Pellise, **M. Serra-Burriel**, B. Seifert, E. Aghayev, E. Acaroglu, A. Alanay, F. J. S. Pérez-Grueso, I. Obeid, F. Kleinstück. Factors associated with having an indication for surgery in adult spinal deformity: an international European multicentre study. *European Spine Journal* (2019; 28, 127-137). <https://doi.org/10.1007/s00586-018-5754-2>
55. Puig, I., López-Cerón, M., Arnau, A., Rosiñol, O., Cuatrecasas, M., Herreros-de-Tejada, A., Ferrández, A., **Serra-Burriel, M.**, Nogales, O., Vida, F., de Castro, L., López-

- Vicente, J., Vega, P., Álvarez-González, M.A., González-Santiago, J., Hernández-Conde, M., Díez-Redondo, P., Rivero-Sánchez, L., Gimeno-García, A.Z., Burgos, A., García-Alonso, F.J., Bustamante-Balén, M., Martínez-Bauer, E., Peñas, B., Pellisé, M. Accuracy of the Narrow-Band Imaging International Colorectal Endoscopic Classification System in Identification of Deep Invasion in Colorectal Polyps. *Gastroenterology* (2019; 156, 1, 75-87). <https://doi.org/10.1053/j.gastro.2018.10.004>
56. Caballería, L., Pera, G., Arteaga, I., Rodríguez, L., Alumà, A., Morillas, R.M., de la Ossa, N., Díaz, A., Expósito, C., Miranda, D., Sánchez, C., Prats, R., Urquizu, M., Salgado, A., Alemany, M., Martínez, A., Majeed, I., Fabrellas, N., Graupera, I., Planas, R., Ojanguren, I., **Serra-Burriel, M.**, Torán, P., Caballería, J., Ginès, P. High Prevalence of Liver Fibrosis Among European Adults With Unknown Liver Disease: A Population-Based Study. *Clinical Gastroenterology and Hepatology* (2018; 16(7), 1138-1145.e5). <https://doi.org/10.1016/j.cgh.2017.12.048>
57. Costa-Ramón, A.M., Rodríguez-González, A., **Serra-Burriel, M.**, Campillo-Artero, C. It's about time: Cesarean sections and neonatal health. *Journal of Health Economics* (2018; 59; 46-59). <https://doi.org/10.1016/j.jhealeco.2018.03.004>
58. Campillo-Artero C, **Serra-Burriel, M.**, Calvo-Pérez, A. Predictive modeling of emergency cesarean delivery. *PLoS One* (2018; 13(1): e0191248). <https://doi.org/10.1371/journal.pone.0191248>
59. Guest, J.F., Esteban, J., Manganelli, A.G., Novelli, A., Rizzardini, G., **Serra-Burriel, M.** Comparative efficacy and safety of antibiotics used to treat acute bacterial skin and skin structure infections: Results of a network meta-analysis. *PLoS One* (2017; 12(11), e0187792). <https://doi.org/10.1371/journal.pone.0187792>