

Bindu Kalesan

Clinical Epidemiologist / Biostatistician

Assistant Professor of Surgery and Epidemiology

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EDUCATION2010 – 2012: PhD Clinical Epidemiology and Biostatistics, University of Bern, Switzerland
PhD in Public Health, University of Bern, Switzerland2003 – 2004: Master of Public Health, Johns Hopkins Bloomberg School of Public Health, Baltimore,
MD, USA

2000 – 2002: Master of Science in Epidemiology, Christian Medical College, Vellore, India

1993 – 1998: Bachelor of Dental Surgery, Government Dental College, Calicut, Kerala, India

COMPUTER SKILLS

- Statistical programs: SAS, STATA, R, WinBUGS, MPlus, Progeny
- Mathematical programs: MATLAB

EMPLOYMENT HISTORY**February 2013 to current** Department of Surgery and Epidemiology, Columbia University, New York
Assistant Professor**May 2010 - Dec 2012** Clinical Trial Unit & Department of Cardiology,
University of Bern, Switzerland
Position: Research Fellow**August 2008 – April 2010** Washington University of St. Louis, MO, USA
Health Communications Research Lab
Position: Senior Biostatistician**May 2006 – July 2008** Mercy Medical Center, Baltimore, MD
Epidemiologist/Biostatistician**March 2005 – April 2006** Johns Hopkins Medical Institution, Baltimore, MD
Epidemiologist/Biostatistician**July 2004 – March 2005** University of Maryland, Baltimore, MD
Epidemiologist/Biostatistician**Fields of interest:** Clinical trials, Cardiology, Cardio-oncology, Palliative care in cardiac
patients, firearm survivorship

PUBLICATIONS

1. Piazza N, **Kalesan B**, van Mieghem N, Head S, Wenaweser P, Carrel TP, Bleiziffer S, de Jaegere PP, Gahl B, Anderson RH, Kappetein AP, Lange R, Serruys PW, Windecker S, Jüni P. A 3-center comparison of 1-year mortality outcomes between transcatheter aortic valve implantation and surgical aortic valve replacement on the basis of propensity score matching among intermediate-risk surgical patients. *JACC Cardiovasc Interv*. 2013 May;6(5):443-51.
2. Meier B, **Kalesan B**, Mattle HP, Khattab AA, Hildick-Smith D, Dudek D, Andersen G, Ibrahim R, Schuler G, Walton AS, Wahl A, Windecker S, Jüni P; PC Trial Investigators. Percutaneous Closure of Patent Foramen Ovale in Cryptogenic Embolism. *N Engl J Med*. 2013 Mar 21;368(12):1083-91.
3. Pilgrim T, **Kalesan B**, Zanchin T, Pulver C, Jung S, Mattle H, Carrel T, Moschovitis A, Stortecky S, Wenaweser P, Stefanini GG, Räber L, Meier B, Jüni P, Windecker S. Impact of atrial fibrillation on clinical outcomes among patients with coronary artery disease undergoing revascularisation with drug-eluting stents. *EuroIntervention*. 2013 Jan 22;8(9):1061-71. doi: 10.4244/EIJV8I9A163.
4. Buellesfeld L, Stortecky S, **Kalesan B**, Gloekler S, Khattab AA, Nietlispach F, Delfine V, Huber C, Eberle B, Meier B, Wenaweser P, Windecker S. Aortic Root Dimensions Among Patients With Severe Aortic Stenosis undergoing Transcatheter Aortic Valve Replacement. *JACC Cardiovasc Interv*. 2013 Jan;6(1):72-83. doi: 10.1016/j.jcin.2012.09.007
5. Pilgrim T, **Kalesan B**, Wenaweser P, Huber C, Stortecky S, Buellesfeld L, Khattab AA, Eberle B, Gloekler S, Gsponer T, Meier B, Jüni P, Carrel T, Windecker S. Predictors of Clinical Outcomes in Patients With Severe Aortic Stenosis Undergoing TAVI: A Multistate Analysis. *Circ Cardiovasc Interv*. 2012 Nov 20. [Epub ahead of print] PubMed PMID: 23169986.
6. Shrestha NR, **Kalesan B**, Karki P, Sherpa K, Basnet A, Urban P, Pilgrim T. Rheumatic heart disease: pilot study for a population-based evaluation of prevalence and cardiovascular outcomes among schoolchildren in Nepal. *BMJ Open*. 2012 Oct 19;2(5). doi:pii: e001616. 10.1136/bmjopen-2012-001616. Print 2012. PubMed PMID: 23087010; PubMed Central PMCID: PMC3488717.
7. Räber L, Baumgartner S, Garcia HM, **Kalesan B**, Justiz J, Pilgrim T, Moschovitis A, Khattab AA, Buellesfeld L, Wenaweser P, Meier B, Serruys PW, Jüni P, Windecker S. Long-term vascular healing in response to sirolimus- and Paclitaxel-eluting stents: an optical coherence tomography study. *JACC Cardiovasc Interv*. 2012 Sep;5(9):946-57. doi: 10.1016/j.jcin.2012.05.012. PubMed PMID: 22995882.
8. Osnabrugge RL, Head SJ, Genders TS, Van Mieghem NM, De Jaegere PP, van der Boon RM, Kerkvliet JM, **Kalesan B**, Bogers AJ, Kappetein AP, Hunink MG. Costs of Transcatheter Versus Surgical Aortic Valve Replacement in Intermediate-Risk Patients. *Ann Thorac Surg*. 2012 Sep 6. [Epub ahead of print] PubMed PMID: 22959568.
9. De Bruyne B, Pijls NH, **Kalesan B**, Barbato E, Tonino PA, Piroth Z, Jagic N, Mobius-Winckler S, Rioufol G, Witt N, Kala P, MacCarthy P, Engström T, Oldroyd KG, Mavromatis K, Manoharan G, Verlee P, Frobert O, Curzen N, Johnson JB, Jüni P, Fearon WF; FAME 2 Trial Investigators. Fractional flow reserve-guided PCI versus medical therapy in stable coronary disease. *N Engl J Med*. 2012 Sep 13;367(11):991-1001. Epub 2012 Aug 27. PubMed PMID: 22924638.
10. Pilgrim T, **Kalesan B**, Karki P, Basnet A, Meier B, Urban P, Shrestha NR. Protocol for a population-based study of rheumatic heart disease prevalence and cardiovascular outcomes among schoolchildren in Nepal. *BMJ Open*. 2012 Jun 8;2(3). pii: e001320. doi: 10.1136/bmjopen-2012-001320. Print 2012. PubMed PMID: 22685225.

11. Stortecky S, Schoenenberger AW, Moser A, **Kalesan B**, Jüni P, Carrel T, Bischoff S, Schoenenberger CM, Stuck AE, Windecker S, Wenaweser P. Evaluation of multidimensional geriatric assessment as a predictor of mortality and cardiovascular events after transcatheter aortic valve implantation. *JACC Cardiovasc Interv.* 2012 May;5(5):489-96. PubMed PMID: 22625186.
12. Billinger M, Räber L, Hitz S, Stefanini GG, Pilgrim T, Stettler C, Zanchin T, Pulver C, Pfäffli N, Eberli F, Meier B, **Kalesan B**, Jüni P, Windecker S. Long-term clinical and angiographic outcomes of diabetic patients after revascularization with early generation drug-eluting stents. *Am Heart J.* 2012 May;163(5):876-886.e2. PubMed PMID: 22607867.
13. Pilgrim T, Vetterli F, **Kalesan B**, Stefanini GG, Räber L, Stortecky S, Gloekler S, Binder RK, Wenaweser P, Moschovitis A, Khattab AA, Buellesfeld L, Zwahlen M, Meier B, Jüni P, Windecker S. The impact of anemia on long-term clinical outcome in patients undergoing revascularization with the unrestricted use of drug-eluting stents. *Circ Cardiovasc Interv.* 2012 Apr;5(2):202-10. Epub 2012 Mar 27. PubMed PMID: 22456025.
14. Stefanini GG, **Kalesan B**, Pilgrim T, Räber L, Onuma Y, Silber S, Serruys PW, Meier B, Jüni P, Windecker S. Impact of sex on clinical and angiographic outcomes among patients undergoing revascularization with drug-eluting stents. *JACC Cardiovasc Interv.* 2012 Mar;5(3):301-10. PubMed PMID: 22440496.
15. **Kalesan B**, Pilgrim T, Heinimann K, Räber L, Stefanini GG, Valgimigli M, da Costa BR, Mach F, Lüscher TF, Meier B, Windecker S, Jüni P. Comparison of drug-eluting stents with bare metal stents in patients with ST-segment elevation myocardial infarction. *Eur Heart J.* 2012 Apr;33(8):977-87. Epub 2012 Feb 23. PubMed PMID: 22362513.
16. **Kalesan B**, Stefanini GG, Räber L, Schmutz M, Baumgartner S, Hitz S, Baldinger SH, Pilgrim T, Moschovitis A, Wenaweser P, Büllesfeld L, Khattab AA, Meier B, Jüni P, Windecker S. Long-term comparison of everolimus- and sirolimus-eluting stents in patients with acute coronary syndromes. *JACC Cardiovasc Interv.* 2012 Feb;5(2):145-54. PubMed PMID: 22361598.
17. Räber L, Magro M, Stefanini GG, **Kalesan B**, van Domburg RT, Onuma Y, Wenaweser P, Daemen J, Meier B, Jüni P, Serruys PW, Windecker S. Very late coronary stent thrombosis of a newer-generation everolimus-eluting stent compared with early-generation drug-eluting stents: a prospective cohort study. *Circulation.* 2012 Mar 6;125(9):1110-21. doi: 10.1161/CIRCULATIONAHA.111.058560. Epub 2012 Feb 1. PubMed PMID: 22302840.
18. Cook S, Eshtehardi P, **Kalesan B**, Räber L, Wenaweser P, Togni M, Moschovitis A, Vogel R, Seiler C, Eberli FR, Lüscher T, Meier B, Jüni P, Windecker S. Impact of incomplete stent apposition on long-term clinical outcome after drug-eluting stent implantation. *Eur Heart J.* 2012 Jun;33(11):1334-43. Epub 2012 Jan 26. PubMed PMID: 22285579.
19. Wahl A, Jüni P, Mono ML, **Kalesan B**, Praz F, Geister L, Räber L, Nedeltchev K, Mattle HP, Windecker S, Meier B. Long-term propensity score-matched comparison of percutaneous closure of patent foramen ovale with medical treatment after paradoxical embolism. *Circulation.* 2012 Feb 14;125(6):803-12. Epub 2012 Jan 11. PubMed PMID: 22238228.
20. Wenaweser P, Pilgrim T, Kadner A, Huber C, Stortecky S, Buellesfeld L, Khattab AA, Meuli F, Roth N, Eberle B, Erdös G, Brinks H, **Kalesan B**, Meier B, Jüni P, Carrel T, Windecker S. Clinical outcomes of patients with severe aortic stenosis at increased surgical risk according to treatment modality. *J Am Coll Cardiol.* 2011 Nov 15;58(21):2151-62. PubMed PMID: 22078420.
21. Stefanini GG, **Kalesan B**, Serruys PW, Heg D, Buszman P, Linke A, Ischinger T, Klauss V, Eberli F, Wijns W, Morice MC, Di Mario C, Corti R, Antoni D, Sohn HY, Eerdmans P, van Es GA, Meier B, Windecker S, Jüni P. Long-term clinical outcomes of biodegradable polymer biolimus-eluting stents versus durable polymer sirolimus-eluting stents in patients with coronary artery disease (LEADERS): 4 year follow-up of a randomised non-inferiority trial. *Lancet.* 2011 Dec 3;378(9807):1940-8. Epub 2011 Nov 8. PubMed PMID: 22075451.

22. McQueen A, Kreuter MW, **Kalesan B**, Alcaraz KI. Understanding narrative effects: the impact of breast cancer survivor stories on message processing, attitudes, and beliefs among African American women. *Health Psychol.* 2011 Nov;30(6):674-82. Epub 2011 Sep 5. PubMed PMID: 21895370; PubMed Central PMCID: PMC3217077.
23. Klauss V, Serruys PW, Pilgrim T, Buszman P, Linke A, Ischinger T, Eberli F, Corti R, Wijns W, Morice MC, di Mario C, van Geuns RJ, van Es GA, **Kalesan B**, Wenaweser P, Jüni P, Windecker S. 2-year clinical follow-up from the randomized comparison of biolimus-eluting stents with biodegradable polymer and sirolimus-eluting stents with durable polymer in routine clinical practice. *JACC Cardiovasc Interv.* 2011 Aug;4(8):887-95. PubMed PMID: 21851904.
24. Räber L, Wohlfend L, Wigger M, Togni M, Wandel S, Wenaweser P, Cook S, Moschovitis A, Vogel R, **Kalesan B**, Seiler C, Eberli F, Lüscher TF, Meier B, Jüni P, Windecker S. Five-year clinical and angiographic outcomes of a randomized comparison of sirolimus-eluting and paclitaxel-eluting stents: results of the Sirolimus-Eluting Versus Paclitaxel-Eluting Stents for Coronary Revascularization LATE trial. *Circulation.* 2011 Jun 21;123(24):2819-28, 6 p following 2828. Epub 2011 Jun 6. PubMed PMID: 21646500.
25. Wenaweser P, Pilgrim T, Roth N, Kadner A, Stortecky S, **Kalesan B**, Meuli F, Büllsfeld L, Khattab AA, Huber C, Eberle B, Erdös G, Meier B, Jüni P, Carrel T, Windecker S. Clinical outcome and predictors for adverse events after transcatheter aortic valve implantation with the use of different devices and access routes. *Am Heart J.* 2011 Jun;161(6):1114-24. doi: 10.1016/j.ahj.2011.01.025. Epub 2011 May 11. PubMed PMID: 21641358.
26. Räber L, Jüni P, Nüesch E, **Kalesan B**, Wenaweser P, Moschovitis A, Khattab AA, Bahlo M, Togni M, Cook S, Vogel R, Seiler C, Meier B, Windecker S. Long-term comparison of everolimus-eluting and sirolimus-eluting stents for coronary revascularization. *J Am Coll Cardiol.* 2011 May 24;57(21):2143-51. PubMed PMID: 21596229.
27. Jeng CL, Baumbach SF, Campbell J, **Kalesan B**, Myerson MS. Comparison of initial compression of the medial, lateral, and posterior screws in an ankle fusion construct. *Foot Ankle Int.* 2011 Jan;32(1):71-6. PubMed PMID: 21288437.
28. Kreuter MW, Holmes K, Alcaraz K, **Kalesan B**, Rath S, Richert M, McQueen A, Caito N, Robinson L, Clark EM. Comparing narrative and informational videos to increase mammography in low-income African American women. *Patient Educ Couns.* 2010 Dec;81 Suppl:S6-14. Epub 2010 Nov 10. PubMed PMID: 21071167; PubMed Central PMCID: PMC3146295.
29. Thompson VL, **Kalesan B**, Wells A, Williams SL, Caito NM. Comparing the use of evidence and culture in targeted colorectal cancer communication for African Americans. *Patient Educ Couns.* 2010 Dec;81 Suppl:S22-33. Epub 2010 Aug 10. PubMed PMID: 20702056; PubMed Central PMCID: PMC2988986.
30. Gallicchio L, **Kalesan B**. Sleep duration and mortality: a systematic review and meta-analysis. *J Sleep Res.* 2009 Jun;18(2):148-58. Review. PubMed PMID: 19645960.
31. Sealey RJ, Myerson MS, Molloy A, Gamba C, Jeng C, **Kalesan B**. Sagittal plane motion of the hindfoot following ankle arthrodesis: a prospective analysis. *Foot Ankle Int.* 2009 Mar;30(3):187-96. PubMed PMID: 19321094.
32. Gallicchio L, **Kalesan B**, Hoffman SC, Helzlsouer KJ. Non-cancer adverse health conditions and perceived health and function among cancer survivors participating in a community-based cohort study in Washington County, Maryland. *J Cancer Surviv.* 2008 Mar;2(1):12-9. Epub 2008 Feb 12. PubMed PMID: 18648983.
33. Gallicchio L, **Kalesan B**, Huang HY, Strickland P, Hoffman SC, Helzlsouer KJ. Genetic polymorphisms of peroxisome proliferator-activated receptors and the risk of cardiovascular morbidity and mortality in a community-based cohort in Washington County, Maryland. *PPAR Res.* 2008;2008:276581. PubMed PMID: 18288282; PubMed Central PMCID: PMC2233806.

34. Schkrohowsky JG, **Kalesan B**, Alberg AJ. Tobacco awareness in three U.S. medical schools. J Addict Dis. 2007;26(3):101-6. PubMed PMID: 18018813.
35. **Kalesan B**, Stine J, Alberg AJ. The joint influence of parental modeling and positive parental concern on cigarette smoking in middle and high school students. J Sch Health. 2006 Oct;76(8):402-7; quiz 438-9. PubMed PMID: 16978163.

FOREIGN LANGUAGES

English – advanced writing, speaking and reading

French – beginner

German- beginner

MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

- ISBA

Co-author/participation of Other publications

1. A Population Based Statewide Survey on Cancer Screening and Behavioral Risk Factors. Maryland Cancer Survey 2004. (<http://www.fha.state.md.us/cancer/pdf/MCS2004.pdf>)
2. 2006 US Surgeon General's Report- The health consequences of involuntary exposure to tobacco smoke. Publication: <http://www.surgeongeneral.gov/library/secondhandsmoke/>

Reviewer for peer reviewed journals:

1. International journal of Epidemiology
2. Eurointervention
3. European Heart Journal
4. British Medical Journal
5. American Journal of Public Health