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art of statistical methods developed to address questions of estimation and inference for dynamic treatment regimes, a branch of personalized medicine. This volume demonstrates these methods with their conceptual underpinnings and illustration through analysis of real and simulated data.

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including: model building; missing data;
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Estimation of Optimal Dynamic Treatment Regimes

A dynamic treatment regime $d =$
 (d_1, \dots, d_K) is a set of rules that forms an

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algorithm for treating a patient over time; it is “dynamic” because treatment is determined based on a patient’s previous history. At the k th decision point, the k th rule $d_k(s_{-k}, a_{k-1})$, say, takes as input the patient’s realized covariate and treat-

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I am excited to be co-author of Dynamic Treatment Regimes: Statistical Methods for Precision Medicine with my colleagues Butch Tsiatis, Shannon Holloway, and Eric Laber, which was published by Chapman & Hall/CRC Press in December 2019. The book presents a comprehensive account of statistical

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theory and methods for discovery and evaluation of dynamic treatment regimes, which are sets of sequential decision rules that take evolving patient information as input and recommend a treatment option ...

Marie Davidian - stat.ncsu.edu

A systematic approach to the

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comparison of dynamic regimes using
observational data. International Journal
of Biostatistics, 6, 18. Chakraborty, B.
and Moodie, E.E.M. (2013) Statistical
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selection into an either sequential or
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New statistical learning methods for
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Learning. *Journal of the American
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00-00. Watkins, C. J. C. H. (1989).
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Journal of the American Statistical
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Wang, L., Rotnitzky, A., Lin, X., Millikan,
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estimated using data from a Sequential
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both a data-dependent parameter and a
non-smooth function of the underlying
generative distribution. These features
introduce additional variability that is

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