



Joel Killen

Professor (Research) of Medicine (General Internal Medicine), Emeritus

 NIH Biosketch available Online

 Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Medicine
- Member, Cardiovascular Institute

HONORS AND AWARDS

- Fellow, Society of Behavioral Medicine (Since 1992)

PROFESSIONAL EDUCATION

- PhD, Stanford University , Counseling Psychology (1982)

COMMUNITY AND INTERNATIONAL WORK

- Family-based nutrition intervention for Latino children

LINKS

- <http://prevention.stanford.edu/>: <http://prevention.stanford.edu/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Drug addictions are viewed as chronic, relapsing disorders that may require extended therapy and follow-up. However, very few smoking cessation trials have examined the utility of extended therapy models. In a recently completed trial we attempted to boost long-term abstinence rates by extending the course of therapy. 362 adult smokers received 11 weeks of therapy that combined nicotine replacement, bupropion and behavioral therapy followed by an additional 14 weeks of therapy with bupropion or matching placebo. 52% were abstinent at 11 weeks. This result is almost double the mean treatment response (27%) typically observed for nicotine patch therapy. The overall abstinence rate at 25 weeks was about 40%, nearly twice the 24-week follow-up response observed in nicotine patch studies (21%). Abstinence percentages at week 52 (30%+) also represent a better-than-average treatment response.

We are now conducting a randomized clinical trial to examine the efficacy of a selegiline transdermal system in promoting cigarette smoking cessation. This is the first trial to examine this medication, developed as a treatment for Parkinson's disease, as a possible therapy for nicotine dependence. We are interested in selegiline as a smoking cessation therapy because this medication potentiates dopamine through inhibition of MAO-B. Our interest in this medication derives from evidence suggesting that (1) the positive reinforcing effects of addictive drugs play an important role in maintaining drug use; (2) facilitation of dopaminergic neurotransmission in the mesocorticolimbic dopamine system appears to be critical for the acute

reinforcing actions of stimulant drugs including nicotine and (3) the craving which produces relapse reflects memory of dopamine- mediated positive reinforcement. The choice of selegiline is based on the rationale that a medication that can potentiate dopamine may thus help to alleviate craving to take a drug for its positive reinforcing effects.

Finally, we are exploring genetic factors that may influence response to treatment. In each of the studies described above smokers are genotyped for polymorphisms at loci hypothesized to affect nicotine dependence and/or treatment efficacy to determine if polymorphisms at these loci affect relapse rate in smokers.

CLINICAL TRIALS

- Behavioral Smoking Cessation Treatment - 1, Not Recruiting
- Extended Cessation Treatment for Teen Smokers, Not Recruiting
- Extended Cessation Treatment for Teen Smokers, Not Recruiting

Publications

PUBLICATIONS

- **Extended treatment for cigarette smoking cessation: A randomized control trial.** *Addiction*
Laude, J. R., Bailey, S. R., Crew, E., Varady, A., Lembke, A., McFall, D., Jeon, A., Killen, D., Killen, J. D., David, S. P.
2017
- **Response to Transdermal Selegiline Smoking Cessation Therapy and Markers in the 15q24 Chromosomal Region.** *Nicotine & tobacco research*
Sarginson, J. E., Killen, J. D., Lazzeroni, L. C., Fortmann, S. P., Ryan, H. S., Ameli, N., Schatzberg, A. F., Murphy, G. M.
2015; 17 (9): 1126-1133
- **A randomized clinical trial of the efficacy of extended smoking cessation treatment for adolescent smokers.** *Nicotine & tobacco research*
Bailey, S. R., Hagen, S. A., Jeffery, C. J., Harrison, C. T., Ammerman, S., Bryson, S. W., Killen, D. T., Robinson, T. N., Killen, J. D.
2013; 15 (10): 1655-1662
- **Predicting Successful 24-Hr Quit Attempt in a Smoking Cessation Intervention** *NICOTINE & TOBACCO RESEARCH*
Bailey, S. R., Bryson, S. W., Killen, J. D.
2011; 13 (11): 1092-1097
- **Markers in the 15q24 Nicotinic Receptor Subunit Gene Cluster (CHRNA5-A3-B4) Predict Severity of Nicotine Addiction and Response to Smoking Cessation Therapy** *AMERICAN JOURNAL OF MEDICAL GENETICS PART B-NEUROPSYCHIATRIC GENETICS*
Sarginson, J. E., Killen, J. D., Lazzeroni, L. C., Fortmann, S. P., Ryan, H. S., Schatzberg, A. F., Murphy, G. M.
2011; 156B (3): 275-284
- **Failure to improve cigarette smoking abstinence with transdermal selegiline plus cognitive behavior therapy** *ADDICTION*
Killen, J. D., Fortmann, S. P., Murphy, G. M., Hayward, C., Fong, D., Lowenthal, K., Bryson, S. W., Killen, D. T., Schatzberg, A. F.
2010; 105 (9): 1660-1668
- **Withdrawal symptoms over time among adolescents in a smoking cessation intervention: Do symptoms vary by level of nicotine dependence?** *ADDICTIVE BEHAVIORS*
Bailey, S. R., Harrison, C. T., Jeffery, C. J., Ammerman, S., Bryson, S. W., Killen, D. T., Robinson, T. N., Schatzberg, A. F., Killen, J. D.
2009; 34 (12): 1017-1022
- **Extended cognitive behavior therapy for cigarette smoking cessation** *ADDICTION*
Killen, J. D., Fortmann, S. P., Schatzberg, A. F., Arredondo, C., Murphy, G., Hayward, C., Celio, M., Cromp, D., Fong, D., Pandurangi, M.
2008; 103 (8): 1381-1390
- **Extended Cognitive Behavior Therapy for Cigarette Smoking Cessation** *Addiction*
Killen JD, Fortmann SP, Schatzberg AF, Arredondo C, Murphy G, Hayward C, Celio M, Cromp D, Fong D, Pandurangi M
2008; 103: 1381-1390

- **Randomized clinical trial of the efficacy of Bupropion combined with nicotine patch in the treatment of adolescent smokers** *JOURNAL OF CONSULTING AND CLINICAL PSYCHOLOGY*
Killen, J. D., Robinson, T. N., Ammerman, S., Hayward, C., Rogers, J., Stone, C., Samuels, D., Levin, S. K., Green, S., Schatzberg, A. F.
2004; 72 (4): 729-735
- **Retrospective analysis of changing characteristics of treatment-seeking smokers: implications for further reducing smoking prevalence.** *BMJ open*
Leyro, T. M., Crew, E. E., Bryson, S. W., Lembke, A., Bailey, S. R., Prochaska, J. J., Henriksen, L., Fortmann, S. P., Killen, J. D., Killen, D. T., Hall, S. M., David, S. P.
2016; 6 (6)
- **Family, community and clinic collaboration to treat overweight and obese children: Stanford GOALS-A randomized controlled trial of a three-year, multi-component, multi-level, multi-setting intervention.** *Contemporary clinical trials*
Robinson, T. N., Matheson, D., Desai, M., Wilson, D. M., Weintraub, D. L., Haskell, W. L., McClain, A., McClure, S., A Banda, J., Sanders, L. M., Haydel, K. F., Killen, J. D.
2013; 36 (2): 421-435
- **Efficacy and Tolerability of Pharmacotherapies to Aid Smoking Cessation in Adolescents** *PEDIATRIC DRUGS*
Bailey, S. R., Crew, E. E., Riske, E. C., Ammerman, S., Robinson, T. N., Killen, J. D.
2012; 14 (2): 91-108
- **Assessing teen smoking patterns: The weekend phenomenon** *DRUG AND ALCOHOL DEPENDENCE*
Bailey, S. R., Jeffery, C. J., Hammer, S. A., Bryson, S. W., Killen, D. T., Ammerman, S., Robinson, T. N., Killen, J. D.
2012; 120 (1-3): 242-245
- **A Randomized Controlled Trial of Culturally Tailored Dance and Reducing Screen Time to Prevent Weight Gain in Low- Income African American Girls** *ARCHIVES OF PEDIATRICS & ADOLESCENT MEDICINE*
Robinson, T. N., Matheson, D. M., Kraemer, H. C., Wilson, D. M., Obarzanek, E., Thompson, N. S., Alhassan, S., Spencer, T. R., Haydel, K. F., Fujimoto, M., Varady, A., Killen, J. D.
2010; 164 (11): 995-1004
- **Perceived drug assignment and treatment outcome in smokers given nicotine patch therapy** *JOURNAL OF SUBSTANCE ABUSE TREATMENT*
Bailey, S. R., Fong, D. M., Bryson, S. W., Fortmann, S. P., Killen, J. D.
2010; 39 (2): 150-156
- **Using Treatment Process Data to Predict Maintained Smoking Abstinence** *AMERICAN JOURNAL OF HEALTH BEHAVIOR*
Bailey, S. R., Hammer, S. A., Bryson, S. W., Schatzberg, A. F., Killen, J. D.
2010; 34 (6): 801-810
- **Stanford GEMS phase 2 obesity prevention trial for low-income African-American girls: Design and sample baseline characteristics** *CONTEMPORARY CLINICAL TRIALS*
Robinson, T. N., Kraemer, H. C., Matheson, D. M., Obarzanek, E., Wilson, D. M., Haskell, W. L., Pruitt, L. A., Thompson, N. S., Haydel, K. F., Fujimoto, M., Varady, A., McCarthy, S., Watanabe, et al
2008; 29 (1): 56-69
- **The developmental psychopathology of social anxiety in adolescents** *DEPRESSION AND ANXIETY*
Hayward, C., Wilson, K. A., Lagle, K., Kraemer, H. C., Killen, J. D., Taylor, C. B.
2008; 25 (3): 200-206
- **Stanford GEMS (Girls health enrichment multisite studies): Long-term efficacy of after-school dance and screen time reduction in low-income African-American girls** *80th Annual Scientific Session of the American-Heart-Association (AHA)*
Robinson, T. N., Matheson, D. M., Kraemer, H. C., Obarzanek, E., Wilson, D. M., Haskell, W. L., Pruitt, L. A., Thompson, N. S., Haydel, K. F., Fujimoto, M., Varady, A., Killen, J. D.
LIPPINCOTT WILLIAMS & WILKINS.2007: 843-43
- **Do Mexican-American mothers' food-related parenting practices influence their children's weight and dietary intake?** *JOURNAL OF THE AMERICAN DIETETIC ASSOCIATION*
Matheson, D. M., Robinson, T. N., Varady, A., Killen, J. D.
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- **Extended treatment with bupropion SR for cigarette smoking cessation** *JOURNAL OF CONSULTING AND CLINICAL PSYCHOLOGY*
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- **Major depression among adolescent smokers undergoing treatment for nicotine dependence** *ADDICTIVE BEHAVIORS*
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- **Children's food consumption during television viewing** *AMERICAN JOURNAL OF CLINICAL NUTRITION*
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2004; 79 (6): 1088-1094
- **Parent-reported predictors of adolescent panic attacks** *JOURNAL OF THE AMERICAN ACADEMY OF CHILD AND ADOLESCENT PSYCHIATRY*
Hayward, C., Wilson, K. A., Lagle, K., Killen, J. D., Taylor, C. B.
2004; 43 (5): 613-620
- **Measurement characteristics of weight concern and dieting measures in 8-10-year-old African-American girls from GEMS pilot studies** *PREVENTIVE MEDICINE*
Sherwood, N. E., Beech, B. M., Klesges, L. M., Story, M., Killen, J., McDonald, T., Robinson, T. N., Pratt, C., Zhou, A. N., Cullen, K., Baranowski, J.
2004; 38: S50-S59
- **Effects of an advocacy intervention to reduce smoking among teenagers** *ARCHIVES OF PEDIATRICS & ADOLESCENT MEDICINE*
Winkleby, M. A., Feighery, E., Dunn, M., Kole, S., Ahn, D., Killen, J. D.
2004; 158 (3): 269-275
- **Associations among familism, language preference, and education in Mexican-American mothers and their children** *JOURNAL OF DEVELOPMENTAL AND BEHAVIORAL PEDIATRICS*
Romero, A. J., Robinson, T. N., Haydel, K. F., Mendoza, F., Killen, J. D.
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- **Are adolescents harmed when asked risky weight control behavior and attitude questions? Implications for consent procedures** *INTERNATIONAL JOURNAL OF EATING DISORDERS*
Celio, A. A., Bryson, S., Killen, J. D., Taylor, C. B.
2003; 34 (2): 251-254
- **The relationship between agoraphobia symptoms and panic disorder in a non-clinical sample of adolescents** *PSYCHOLOGICAL MEDICINE*
Hayward, C., Killen, J. D., Taylor, C. B.
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- **Onset of major depression during treatment for nicotine dependence** *ADDICTIVE BEHAVIORS*
Killen, J. D., Fortmann, S. P., Schatzberg, A., Hayward, C., Varady, A.
2003; 28 (3): 461-470
- **Risk factors for the onset of eating disorders in adolescent girls: Results of the McKnight longitudinal risk factor study** *AMERICAN JOURNAL OF PSYCHIATRY*
Taylor, C. B., Bryson, S. W., Altman, T. M., Abascal, L., Celio, A., Cuning, D., Killen, J. D., Shisslak, C. M., Crago, M., Ranger-Moore, J., Cook, P., Ruble, A., Olmsted, et al
2003; 160 (2): 248-254
- **Dance and reducing television viewing to prevent weight gain in African-American girls: the Stanford GEMS pilot study.** *Ethnicity & disease*
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2003; 13 (1): S65-77
- **Developing novel treatments for mood disorders: Accelerating discovery** *BIOLOGICAL PSYCHIATRY*
Tamma, C. A., Nemeroff, C. B., Blakely, R. D., Brady, L., Carter, C. S., Davis, K. L., Dingedine, R., Gorman, J. M., Grigoriadis, D. E., Henderson, D. C., Innis, R. B., Killen, J., Laughren, et al
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- **A longitudinal investigation of anxiety sensitivity in adolescence** *JOURNAL OF ABNORMAL PSYCHOLOGY*
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2002; 111 (3): 471-477
- **Household food security and nutritional status of Hispanic children in the fifth grade** *AMERICAN JOURNAL OF CLINICAL NUTRITION*
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- **Men gain additional psychological benefits by adding exercise to a weight-loss program** *OBESITY RESEARCH*
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- **Generalizability of findings from a chewing tobacco cessation clinical trial.** *Nicotine & tobacco research*
Howard-Pitney, B., Fortmann, S. P., Killen, J. D.
2001; 3 (4): 347-352
- **Are perceived neighborhood hazards a barrier to physical activity in children?** *ARCHIVES OF PEDIATRICS & ADOLESCENT MEDICINE*
Romero, A. J., Robinson, T. N., Kraemer, H. C., Erickson, S. J., Haydel, K. F., Mendoza, F., Killen, J. D.
2001; 155 (10): 1143-1148
- **Do adolescent smokers experience withdrawal effects when deprived of nicotine?** *EXPERIMENTAL AND CLINICAL PSYCHOPHARMACOLOGY*
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Stice, Cameron, Killen
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- **Nicotine patch and paroxetine for smoking cessation** *JOURNAL OF CONSULTING AND CLINICAL PSYCHOLOGY*
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- **Are overweight children unhappy? Body mass index, depressive symptoms, and overweight concerns in elementary school children** *Annual Meeting of the Pediatric-Academic-Societies*
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- **Body-image and eating disturbances predict onset of depression among female adolescents: A longitudinal study** *JOURNAL OF ABNORMAL PSYCHOLOGY*
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- **Predictors of panic attacks in adolescents** *JOURNAL OF THE AMERICAN ACADEMY OF CHILD AND ADOLESCENT PSYCHIATRY*
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1999; 25 (2): 195-214
- **The smoking cessation efficacy of varying doses of nicotine patch delivery systems 4 to 5 years post-quit day** *PREVENTIVE MEDICINE*
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- **Attachment style and weight concerns in preadolescent and adolescent girls** *14th Biennial Meeting of the International-Society-for-the-Study-of-Behavioural-Development (ISSBD)*
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