

**The University of Texas M.D. Anderson Cancer Center
Tobacco Fund Planned Expenditures for FY 2019**

In 1999, Texas began receiving payments as a result of a lawsuit against tobacco manufacturers. Several endowments were established by the Seventy-sixth Legislature with proceeds from the settlement.

MD Anderson received a permanent \$100 million endowment from the Legislature in 1999 in support of research and other programs that benefit the public health. Funding for this strategy is derived from annual distributions of Permanent Health Funds established in Section 63.101 of the Texas Education Code, providing \$6.3 million to MD Anderson in FY 2019 for tobacco related research programs.

A separate endowment was created by the Legislature called the Permanent Health Fund (PHF). Funds appropriated out of the PHF are distributed to institutions of higher education for the purpose of medical research, health education or treatment programs in accordance with Education Code 63.003, as determined by the Legislative Budget Board. MD Anderson's FY 2019 allocation is \$2.6 million.

In support of MD Anderson's mission areas – patient care, research, education, and prevention – the following programs received settlement funds in FY 2019: \$4.8 million for Cancer Prevention, including: Tobacco Outreach Education Program; Tobacco Faculty Support; Tobacco Trainee and Junior Faculty Program, and Tobacco Disparities and Fellows Program; Tobacco Treatment Program; Mexican American Cohort; Patient History Database; Population Sciences Laboratory Resource Center. It also provides \$1.6 million for Molecular Mechanisms Tobacco Carcinogenesis; \$2.2 million for Research Equipment; and \$0.2 million for other programs supporting Palliative & Rehabilitative Care, Pediatrics and Thoracic & Cardio Surgery.

CANCER PREVENTION: BEHAVIORAL SCIENCE

Tobacco Outreach Education Program (Division of Cancer Prevention and Population Sciences)

The mission of the Tobacco Outreach Education Program (TOEP) is to deliver the highest quality education and training in tobacco control principles and practices to health care professionals and the public. In FY19, TOEP will begin its twentieth year of disseminating of tobacco prevention and cessation tools among youth, health care providers and the community at large. TOEP combats tobacco use in Texas, nationally, and internationally using multilevel educational components focused on tobacco prevention and cessation tools among youth, postdoctoral training, and continuing education for health care providers in smoking cessation counseling and treatment of their patients. In FY19, TOEP continues promoting tobacco control globally through six TOEP initiatives:

- 1) Renewed ASPIRE 2.0 curriculum for high school and middle school students;
- 2) Revised and upgraded continuing medical education (CME) series for health care providers with its related research study;
- 3) Local, national and international presentations and training seminars for scientific and lay communities;
- 4) MD Anderson Cancer Center institutional and external partnerships;
- 5) Postdoctoral fellowship training; and
- 6) Comprehensive research projects and initiatives.

Tobacco Faculty Support (Division of Cancer Prevention and Population Sciences)

Since 1998, MD Anderson has committed to maintaining a critical mass of investigators with expertise in multiple aspects of tobacco use disorders and prevention as a component of the infrastructure within the Department of Behavioral Science. This investment allows for extended opportunities for research, education, and outreach through their efforts. In FY19, Behavioral Science faculty will continue to contribute expertise to initiatives such as the Tobacco ECHO training program, as well as the MD Anderson Certified Tobacco Treatment Training Program. Additionally, the supported faculty member will pursue research in the treatment of smoking in individuals with co-morbid psychiatric and medical disorders.

Tobacco Trainee and Junior Faculty Program, and Tobacco Disparities and Fellows Program (Division of Cancer Prevention and Population Sciences)

Since the inception of the trainee program in 2000, which includes the Tobacco Disparities Training Program in the Department of Health Disparities Research, more than 60 Post-doctoral fellows and graduate students have worked under the supervision of highly recognized and experienced principal investigators in MD Anderson research departments, laboratories, clinics and field site to enhance their knowledge and skills in tobacco prevention and cessation research and interventions. The overall goal of the program is to prepare behavioral and social scientists to develop expertise and experience in the clinical, laboratory, community outreach and academic components of tobacco control and cancer prevention, in addition to the in-depth focus on their specialty. In FY19, six training opportunities are proposed, each assigned to a faculty mentor in Tobacco, including positions for Graduate Research Assistants, Post-doctoral Fellows and junior faculty members.

Tobacco Treatment Program (Division of Cancer Prevention and Population Sciences)

The Tobacco Treatment Program (TTP) was formed in 2006 with the primary mission to directly address the sequelae associated with continued smoking after a cancer diagnosis and to expand the empirical basis for advancing the treatment of tobacco dependence more broadly. The TTP operates as a center of clinical excellence serving patients, employees, and their family members; while conducting extramurally funded clinical research with both cancer patients and community volunteers. In 2018, the TTP offered cessation assistance to over 5,300 new patients and conducted nearly 11,500 appointments across multiple treatment options. The TTP treatment model has been disseminated into the community via partnership with the Lung Cancer Moonshot Initiative and the EndTobacco Program at MD Anderson. In FY19, the TTP will continue to deliver exceptional clinical care while extending the availability of high-quality tobacco cessation resources across the state through projects such as the training program for certified tobacco treatment specialists, a weekly remote ECHO mentoring program, two unique smoking cessation apps that incorporate evidence-based cessation strategies into mobile health technology, and a cessation program for patients undergoing low-dose CT (LDCT) screening for lung cancer.

CANCER PREVENTION: EPIDEMIOLOGY

Mexican American Cohort (Division of Cancer Prevention and Population Sciences)

Since 2001, MD Anderson has been conducting a long-term health study of individuals of Mexican origin living in the Greater Houston Area through the *Mano a Mano: Mexican American Health Study Cohort* (MAC). Through this study, scientists will be able to provide unique data characterizing this population's specific exposures (i.e., chemicals, tobacco, alcohol, etc.) and health-affecting behaviors (i.e., weight change, physical activity, nutritional habits, etc.). As of May 31, 2018, MAC enrolled 26,780 participants from 18,892 households, making it the largest, longest running and most comprehensive study of its

kind with participants either born in Mexico or from Mexican descent. In FY19, efforts will concentrate on follow-up of this large group. As of May 31, 2018, the overall rate of follow-up is 72.7%. These figures represent the highest follow-up rates achieved over the entire course of the study.

Patient History Database (Division of Cancer Prevention and Population Sciences)

Since December 1999, standardized epidemiological information — demographics, tobacco, exposures, co-morbidities, family history, prior medical history and quality of life — has been systematically collected and archived on all newly registered patients through the Patient History Database (PHDB). The PHDB serves as an electronic core institutional resource to facilitate clinical, translational and population-based research. The value of this integrated system is enhanced by the large and unique patient population that MD Anderson serves, and the extensive patient follow-up and clinical information available. Biological samples are collected and stored on a subset of these patients for future genetic and medical research. In FY19, the PHDB will continue to collect, maintain, and share these data with investigators around the campus to support the institution's research.

Population Sciences Laboratory Resource Center (Division of Cancer Prevention and Population Sciences)

The Population Sciences Laboratory (PSL) is an archiving laboratory for long-term storage and tracking of samples utilizing sophisticated technologies for epidemiologic research. Since inception in 2000, the PSL has processed 80,561 human specimens for 35 projects led by MD Anderson Principal Investigators. The goal of this resource is to provide well-characterized, readily tracked, long-term stabilized biological samples (blood, serum, plasma, DNA, lymphocytes) for use in research efforts that extend years into the future. In FY19, the PSL will continue to serve as an institutional resource in the processing, storage, and analysis of biological samples.

CANCER PREVENTION: HEALTH DISPARITIES RESEARCH TOBACCO DISPARITIES AND FELLOWS PROGRAM

See Tobacco Trainee and Junior Faculty Program, and Tobacco Disparities and Fellows Program (Division of Cancer Prevention and Population Sciences).

MOLECULAR MECHANISMS TOBACCO CARCINOGENESIS

The underlying rationale of the Program is to define molecular mechanisms of carcinogenesis in order to stimulate new research initiatives and to leverage grant-funding opportunities. Towards these ends, the program strives to incorporate and/or develop new animal models, identify key molecular pathways, and expand preclinical studies of chemopreventive agents. Below please find a summary of research findings and examples of how our core facilities support efforts in tobacco-related research, organized according to the five themes outlined in the original proposal: 1) Development of new animal models of tobacco-related cancers 2) Definition of genes and signaling pathways involved in tobacco carcinogenesis 3) Chemoprevention/Intervention studies focusing on tobacco-related cancer 4) Development of novel therapeutic strategies for tobacco-related cancer and 5) Core Services.

RESEARCH EQUIPMENT

The Technology Task Force (TTF) Committee is charged with review, approval, and distribution of Research Capital Equipment funds across the research enterprise at MD Anderson. The committee includes 12 members and a chair, there are 2 funding cycles per fiscal year and requests for capital equipment are received and reviewed twice annually. This committee funds all capital equipment for the entire research organization and is crucial in advancing research at the institution. The equipment typically funded with tobacco proceeds include cutting edge new technologies and innovations that will significantly impact our research efforts and contribute to our mission.

**The University of Texas M. D. Anderson Cancer Center
Tobacco Funds Planned Expenditures for FY 2019**

	<u>FY 2019</u>	<u>FTE</u>	<u>Carryforward</u>	<u>Total FY 2019</u>
Cancer Prevention				
Faculty Salaries	\$ 867,966	3.97	-	\$ 867,966
Other Salaries	3,576,515	46.96	-	3,576,515
Equipment, Supplies, start-up costs	398,435		366,135	764,570
	<u>\$ 4,842,916</u>	<u>50.93</u>	<u>366,135</u>	<u>\$ 5,209,051</u>
Carcinogenesis				
Faculty Salaries	\$ 272,668	1.25	-	\$ 272,668
Other Salaries	545,332	7.16	-	545,332
Equipment, Supplies, start-up costs	810,457		518,692	1,329,149
	<u>\$ 1,628,457</u>	<u>8.41</u>	<u>518,692</u>	<u>\$ 2,147,149</u>
Palliative & Rehabilitative Care				
Faculty Salaries	\$ -	-	-	\$ -
Other Salaries	-	-	-	-
Equipment, Supplies, start-up costs	50,000		-	50,000
	<u>\$ 50,000</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 50,000</u>
Pediatrics				
Faculty Salaries	\$ -	-	-	\$ -
Other Salaries	-	-	-	-
Equipment, Supplies, start-up costs	50,000		-	50,000
	<u>\$ 50,000</u>	<u>-</u>	<u>-</u>	<u>\$ 50,000</u>
Research Equipment = 25% of FY 2019 Distribution				
	<u>\$ 2,207,125</u>	<u>-</u>	<u>3,548,438</u>	<u>\$ 5,755,563</u>
Thoracic & Cardio Surgery				
Faculty Salaries	\$ -	-	-	\$ -
Other Salaries	-	-	-	-
Equipment, Supplies, start-up costs	50,000		230,332	280,332
	<u>\$ 50,000</u>	<u>-</u>	<u>230,332</u>	<u>\$ 280,332</u>
TOTAL TOBACCO PLANNED EXPENDITURES				
Faculty Salaries	\$ 1,140,634	5.22	-	\$ 1,140,634
Other Salaries	4,121,847	54.12	-	4,121,847
Equipment, Supplies, start-up costs	3,566,017		4,663,597	8,229,614
TOTAL TOBACCO PLANNED EXPENDITURES	<u>\$ 8,828,498</u>	<u>59.34</u>	<u>\$ 4,663,597</u>	<u>\$ 13,492,095</u>
METHOD OF FUNDING				
FY 2019 Distribution:				
Permanent Health Fund for Higher Education	\$ 2,548,498		-	\$ 2,548,498
Permanent Health Fund, UT MD Anderson	6,280,000		-	6,280,000
Interest Earned on funds not previously budgeted	-			-
Carryforward:				
Permanent Health Fund for Higher Education	-		-	-
Permanent Health Fund, UT MD Anderson	-		4,663,597	4,663,597
TOTAL	<u>\$ 8,828,498</u>		<u>\$ 4,663,597</u>	<u>\$ 13,492,095</u>