

UNAL E OÁR WEBB DUNAL E ZAPATA HOGE STARR HIDALGO STARR HIDALGO CAMERDA					
		<u>U.</u> S. (Census Bure	au 2010	
County	Total n	Below poverty level	Hispanic (all races)	Mexican American	
		%	%	%	
Cameron	406,220	31.2	88.1	80.5	
Hidalgo	774,769	31.8	90.6	85.3	
Wiilacy	21.839	35.6	87.2	69.1	
<u>Starr</u>	60,968	35.0	95.7	92.3	
Jim Hogg	5,300	26.0	92.6	81.3	
Zapata	14,018	34.1	93.3	88.1	
<u>Webb</u>	250,304	31.5	95.7	87.1	
TOTAL	1,450,655				
MEAN		31.4	90.9	83.3	



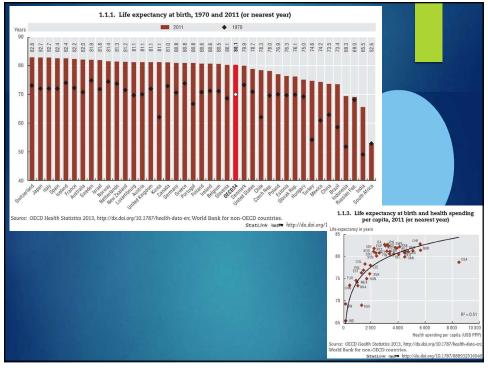


Urban and Rural Areas

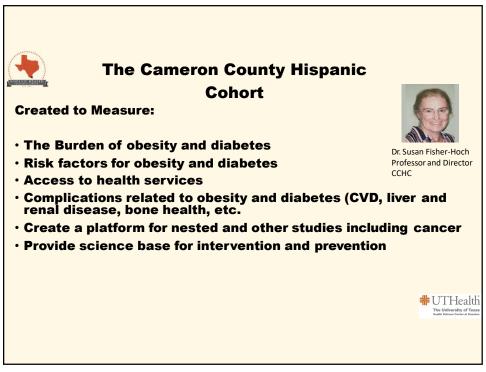


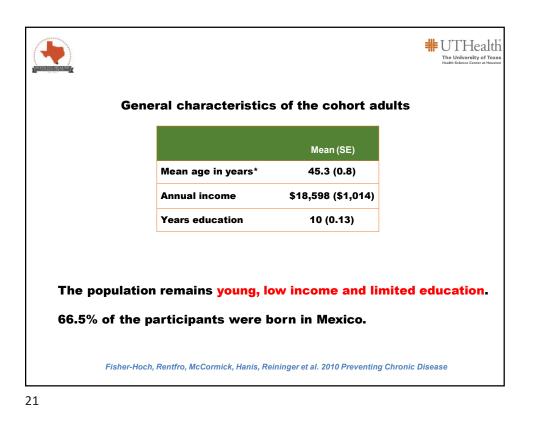


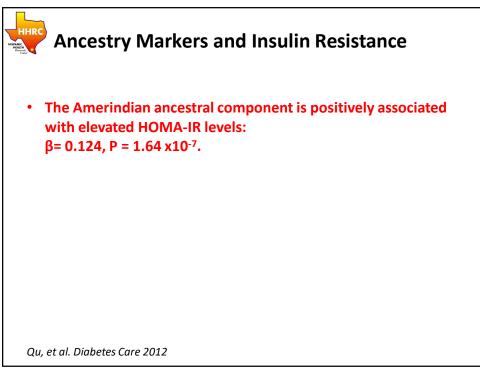




	Texas		Border Area (4 counties)
Causes	Total	Rank	Causes	Total
All Causes	183,303		All Causes	7,327
Diseases of the Heart	41,293	1	Diseases of the Heart	1,693
Malignant Neoplasms	38,727	2	Malignant neoplasms	1,423
Cerebrovascular Diseases			Cerebrovascular diseases	320
Chronic Lower Respiratory Diseases			Diabetes mellitus	299
Accidents	9,598	5	Findings not elsewhere classified	
Alzheimer's Disease			(excluding SIDS)	283
Diabetes Mellitus			Chronic liver disease/cirrhosis	282
Septicemia			Total accident	276
Nephritis, Nephrotic Syndrome and	0.007	8	Alzheimer's disease	261
Nephrosis		9	Chronic lower respiratory diseases	238
Chronic Liver Disease /Cirrhosis	3,663	10	Influenza and pneumonia	215
All Other Causes			All Other Causes	2,037
	Diseases of the Heart Malignant Neoplasms Cerebrovascular Diseases Chronic Lower Respiratory Diseases Accidents Alzheimer's Disease Diabetes Mellitus Septicemia Nephritis, Nephrotic Syndrome and Nephrosis Chronic Liver Disease /Cirrhosis	Diseases of the Heart41,293Malignant Neoplasms38,727Cerebrovascular Diseases9,852Chronic Lower Respiratory Diseases9,642Accidents9,598Alzheimer's Disease6,755Diabetes Mellitus5,327Septicemia4,102Nephritis, Nephrotic Syndrome and Nephrosis3,997Chronic Liver Disease /Cirrhosis3,663	IterationIterationDiseases of the Heart41,293Malignant Neoplasms38,727Cerebrovascular Diseases9,852Chronic Lower Respiratory Diseases9,642Accidents9,598Alzheimer's Disease6,755Diabetes Mellitus5,327Septicemia4,102Nephritis, Nephrotic Syndrome and Nephrosis3,997Chronic Liver Disease /Cirrhosis3,663	Diseases of the Heart41,293Malignant Neoplasms38,727Cerebrovascular Diseases9,852Chronic Lower Respiratory Diseases9,642Accidents9,598Alzheimer's Disease6,755Diabetes Mellitus5,327Septicemia4,102Nephrotis3,997Chronic Liver Disease /Cirrhosis3,663

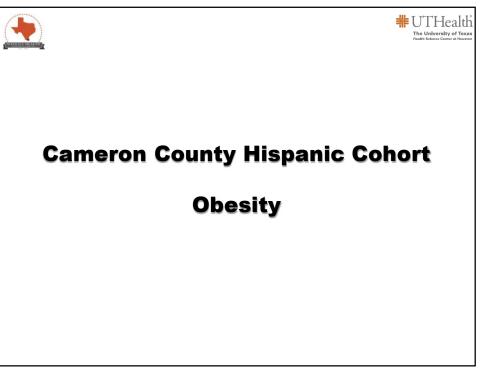




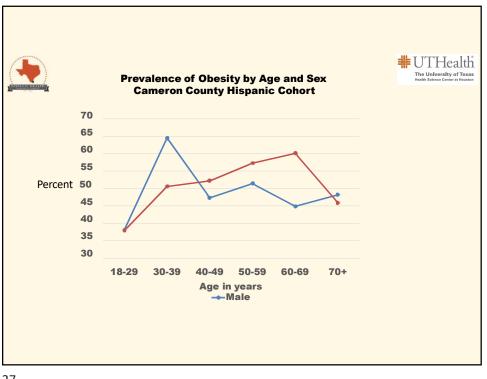


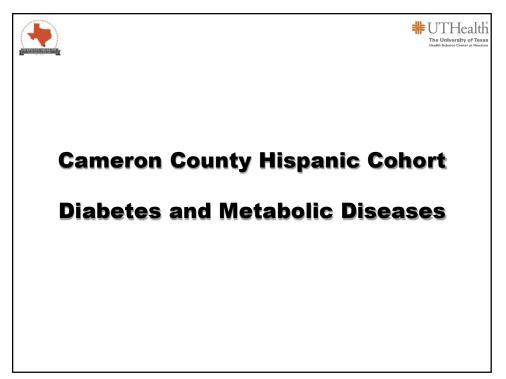
Preventive Health Behaviors in ((% meeting CDC guidelines*		UTHealth The University of Toxas Halth Science Center of Houston
Smoking	16.5%	
*Physical activity (150 minutes of moderate activity/week)	33%	
*Fruit and Vegetable consumption (5 portions per day)	14.4%	
Heavy use of alcohol	4.7%	
Reininger et al BMC Public Health 2015		

Distribution of health insurance types among CCHC participants by sex and age				
		Insuranc	e status	
Category	All types insurance %	Private insurance %	Medicaid %	Medicare %
All Participants	31.4	11.9	8.3	11.0
Males (n=657)	36.0	14.4	8.5	13.0
Females (n=1343)	27.7	9.9	8.2	9.4
18-64 years (n=1788)	20.4	13.8	4.6	1.8
<u>≥</u> 65 years (n=212)	87.8	2.0	27.4	58.4
2015-1018	39	21*	11	39
* Increase appears to be from Affordable Care Act				
Fisher-Hoch, Vatcheva, Rahbar, Br	own, McCormick et a	. 2012 PCD		

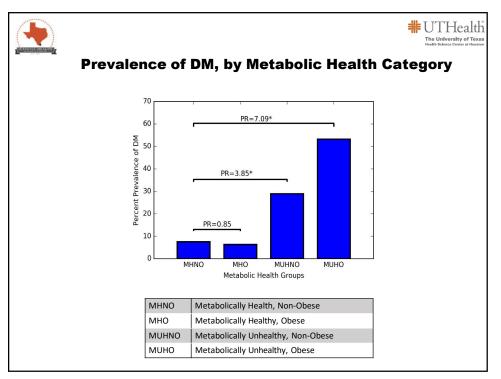


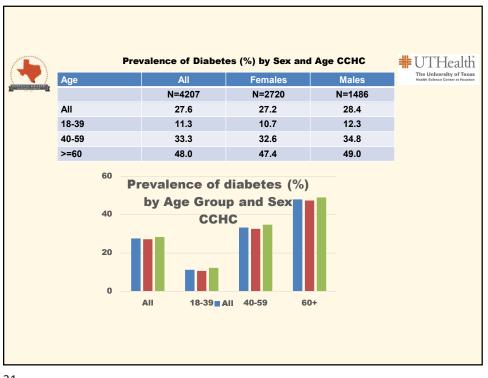
revalence of O	besity in t	the CCHC
Chronic Condition	Prevalence BH	Prevalence L
Obesity (BH)	40.7%	42.4
Morbid Obesity (BH)	9.6 %	12.3%
Total Obese (BH)	50.3%	54.7
Overweight (BH)	34.0%	31.7%
Obese & Overweight (BH)	84.3%	86.4%
Fisher-Hoch, Vatcheva, Hanis, Fisher-Hoch, Vatcheva, Rahba Jiao, Beretta, Fisher-Hoch, Mc	r, McCormick 2015,	PlosOne

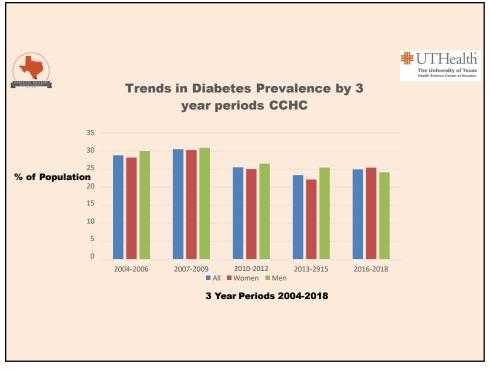


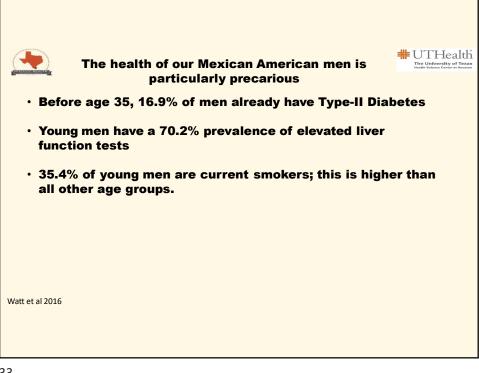


Chronic ConditionPrevalence (BH)Prevalence (L)abetes27.6%25.8%
Chronic Condition (BH) (L)
abetes 27.6% 25.8%
27.6% 25.8%
rediabetes <u>36.6%</u> 39.3%
l Abnormal Glucose 64.2% 65.1%

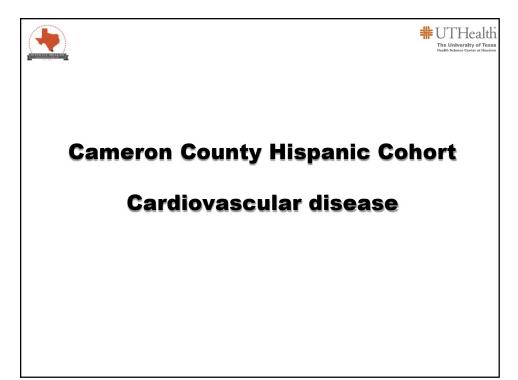


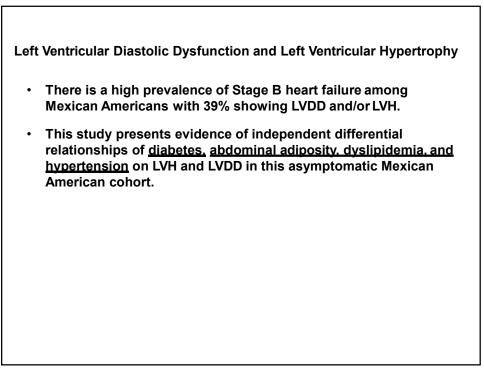






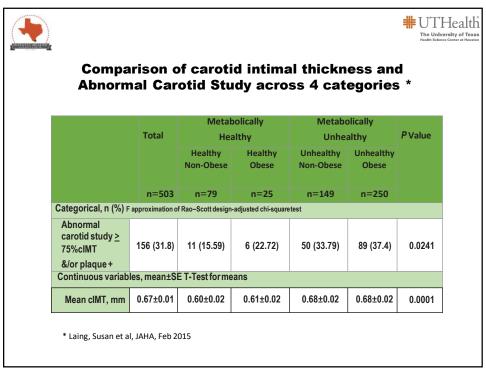


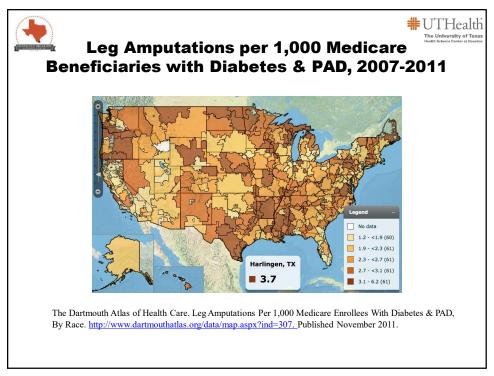


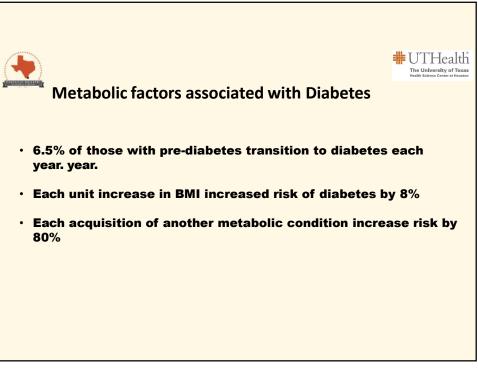


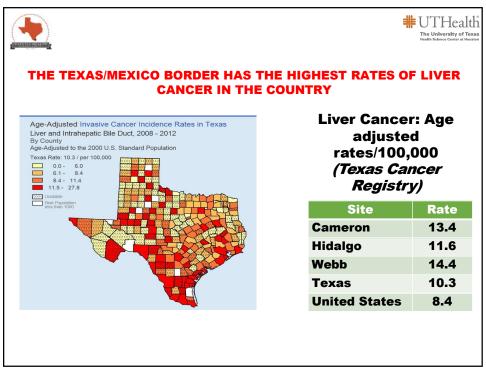
Ischemic Heart Disease is associated with many components of diabetes and the metabolic syndrome				
	% with	n (%) with	n (% without	OR (95%CI) of
	Ischaemic	Ischemic EKG	Ischemic EKG	ischemic EKG in
	EKG	(n=163)	(n=1,117)	each group
Males	12.0	50 (31.3)	365 (32.7)	
Females	13.1	113 (68.7)	752 (67.3)	1.10 (0.75, 1.57)
Diabetes	18.5	68 (41.7)	300 (26.9)	1.95 (1.39, 2.73)
Hypertension	23.4	70 (42.9)	229 (20.5)	2.92 (2.07, 4.11)
Metabolic Syndrome	17.9	99 (60.7)	453 (40.9)	2.24 (1.60, 3.13)
Obese (BMI≥30)	15.1	98 (60.1)	551 (49.3)	1.55 (1.11, 2.16)
Smoker	14.2	50 (30.7)	302 (27.0)	1.19 (0.84, 1.71)
Metabolic syndrome, obesity and diabetes are stronger risk factors for ischemic heart disease than smoking				

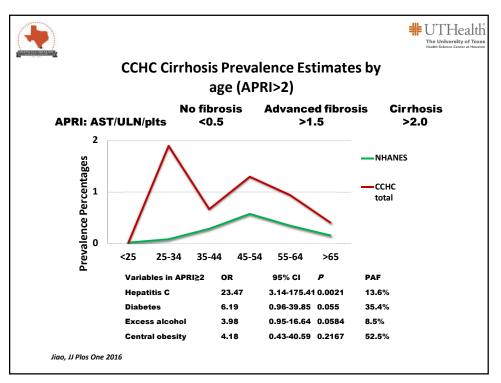
Queen, Laing, McPherson, McCormick, Rentfro, Vatcheva, Fisher-Hoch et al. World Journal of Cardiovascular Diseases 2012

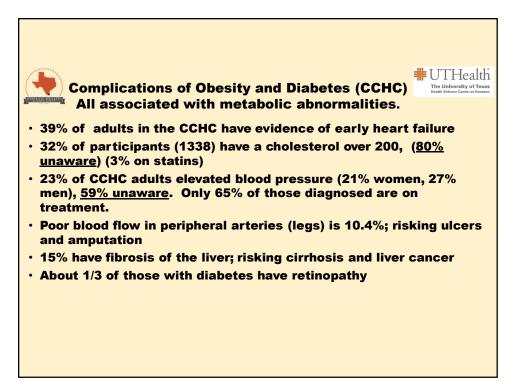


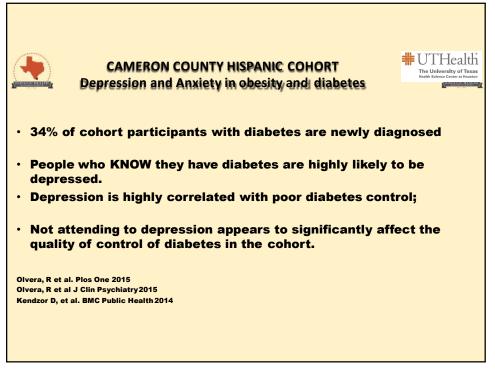




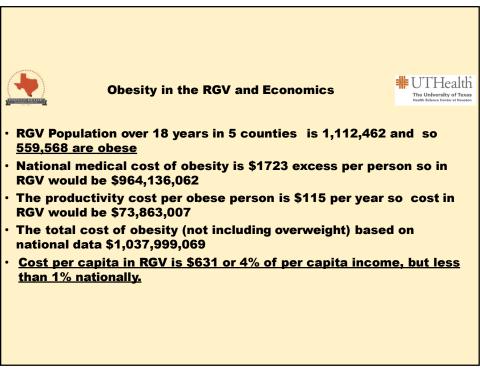


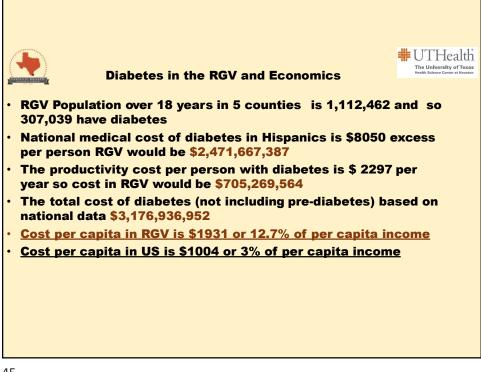










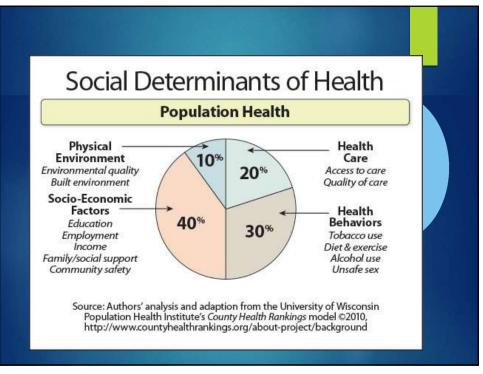


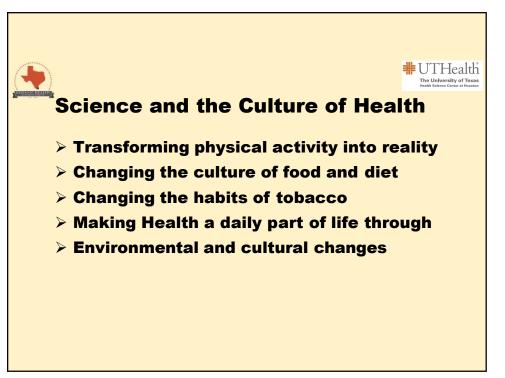


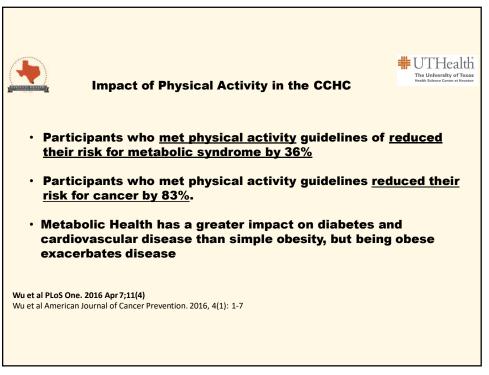
Summary of Disease and Disparities

- Underlying heart disease and liver disease, and other manifestations of diabetes are extremely prevalent but undiagnosed.
- Diabetes underlies over 60% of hospital admissions for congestive heart failure, over 90% for renal disease, and nearly 100% for amputations.
- High costs of diabetes found in our population because of high prevalence, advanced disease because of lack of access.

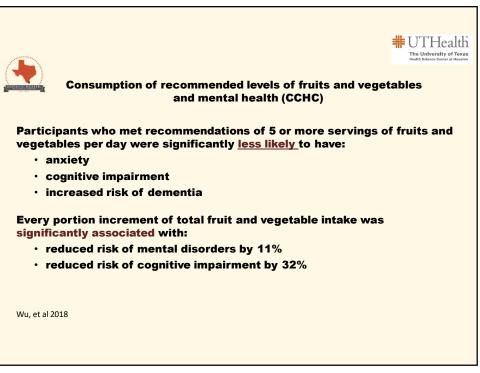




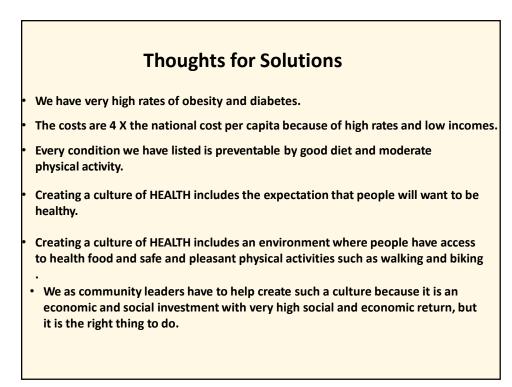


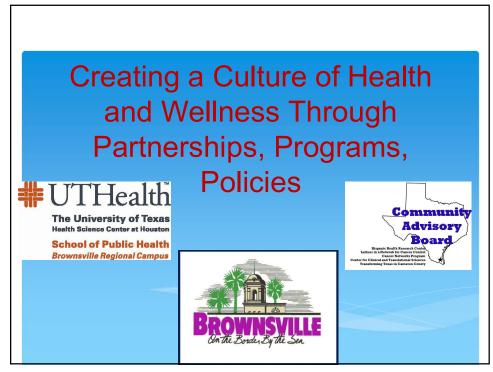






and the second sec		
	Cameron County Hispanic Cohort (CCHC)	# UI Health
	cameron county hispanic conort (cene)	The University of Texas Health Science Center at Houston
The second se		
Pis	Susan Fisher-Hoch, Joseph McCormick	
Collaborators 20	16/2018	
UTHealth	Belinda Reininger, David McPherson, Susan Laing, Mi	ike Fallon, J.J
• mountin	Pan, Bev Smulevitz, Nahid Rianon, Yutao Xi, Anna Wi	•
	Rahbar, Kristina Vatcheva, Sahiti Myneni, Minjae Lee	
MDAnderson	Laura Beretta, Jingjing Jiao, Kathleen Schmeler, And	rea
	Milbourne, Shon Black,	
UCSD	Rohit Loomba, Ariel Feldstein	
UA UTHSCSA	Mike Fallon, JJ Pan Rene Olvera, Anand Prasad, Shenghui Wu	
BCM	Joseph Petrosino, Richard Gibbs, Ashok Balasubram	anvam
STDOI-UTRGV	Sarah Williams Blangero, John Blangero, Michael Ma	
	Matt Johnson, Joanne Curran	
UT Austin	Leanne Fields, Alan Lambowitz,	
U of Washington	Christine Hampe	
UCLA	Sanjeet Patel	
Vanderbilt U.	Piper Below	











Community Gardens

Grant awarded from Texas Department of Agriculture to the Brownsville Farmers' Market in Partnership with the City
Now established six fully subscribed community gardens





FREE Community-Wide Exercise Classes



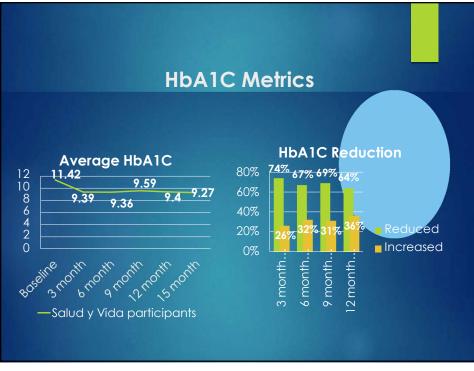






Implemented diabetes treatment and control services



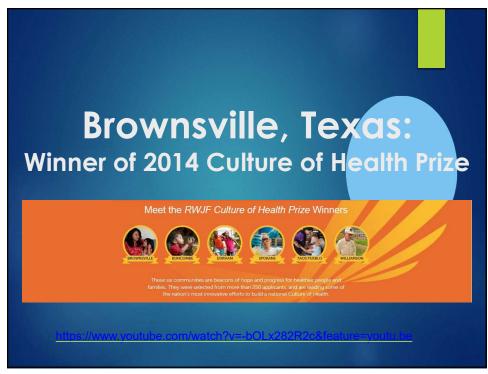






CycloBia – Open streets family event to encourage physical activity





The Approach Can be Replicated!



Bro	ownsville School of Public Health Campus Research and Intervention Programs
	Susan Fisher-Hoch, Joseph McCormick, Belinda Reininger
	Collaborators: Sister Phylis Peters, Dr. Rose Gowen, Art Rodriguez, and many many others.
UTHealth	David McPherson, Susan Laing, Mike Fallon, JJ Pan, Bev Smulevitz, Nahid Rianon, Yutao Xi, Anna Wilkinson, Hossein Rahbar, Shelton Brown
MDAnderson	K Schmeler, A Milbourne, S Black, L Beretta, E Baker
UCSD	Ariel Feldstein
UTMB	Jonathan Starkey, Bruce Luxon
UTHSCSA	D Williamson, R Olvera, A Prassad, R Fajardo
South Texas I	DOI Sarah Williams-Blangero, J Blangero, M Johnson
ВСМ	Joseph Petrosino, Kristy Murray







