

H.I.T. or *miss*

Safety Net Following a Natural Disaster

Or

The power of 'T' 

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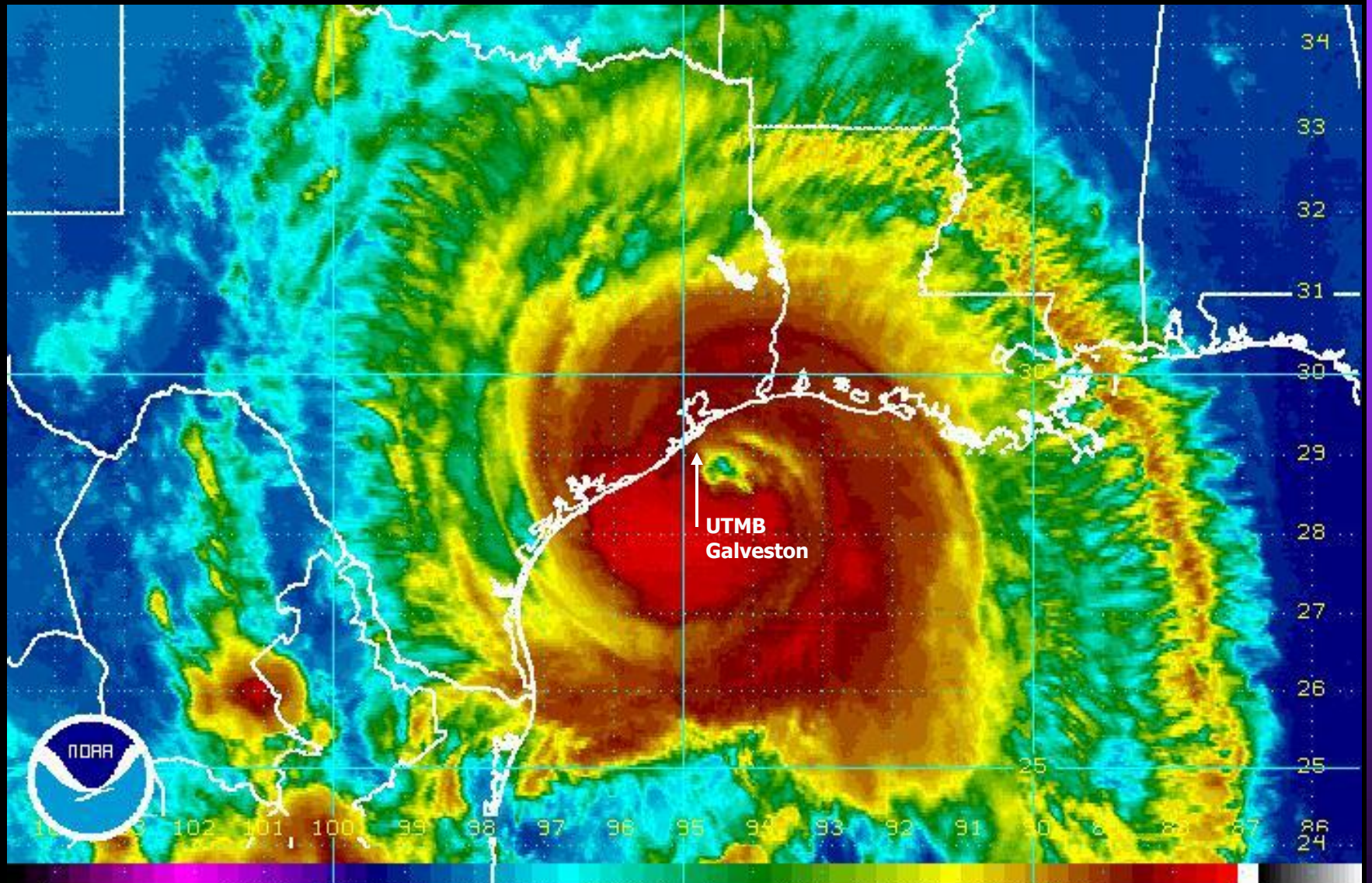
Oscar Medina

Gee Carrington

May 5, 2010

- 1 Sept 2008
Tropical Storm Ike forms off Cape
Verdes Island
- 12 Sept 2008
Hurricane Ike makes U.S. landfall –
Galveston, TX
 - Largest Atlantic Basin Hurricane ever
recorded
 - Diameter 900 miles
 - Third costliest in U.S. history



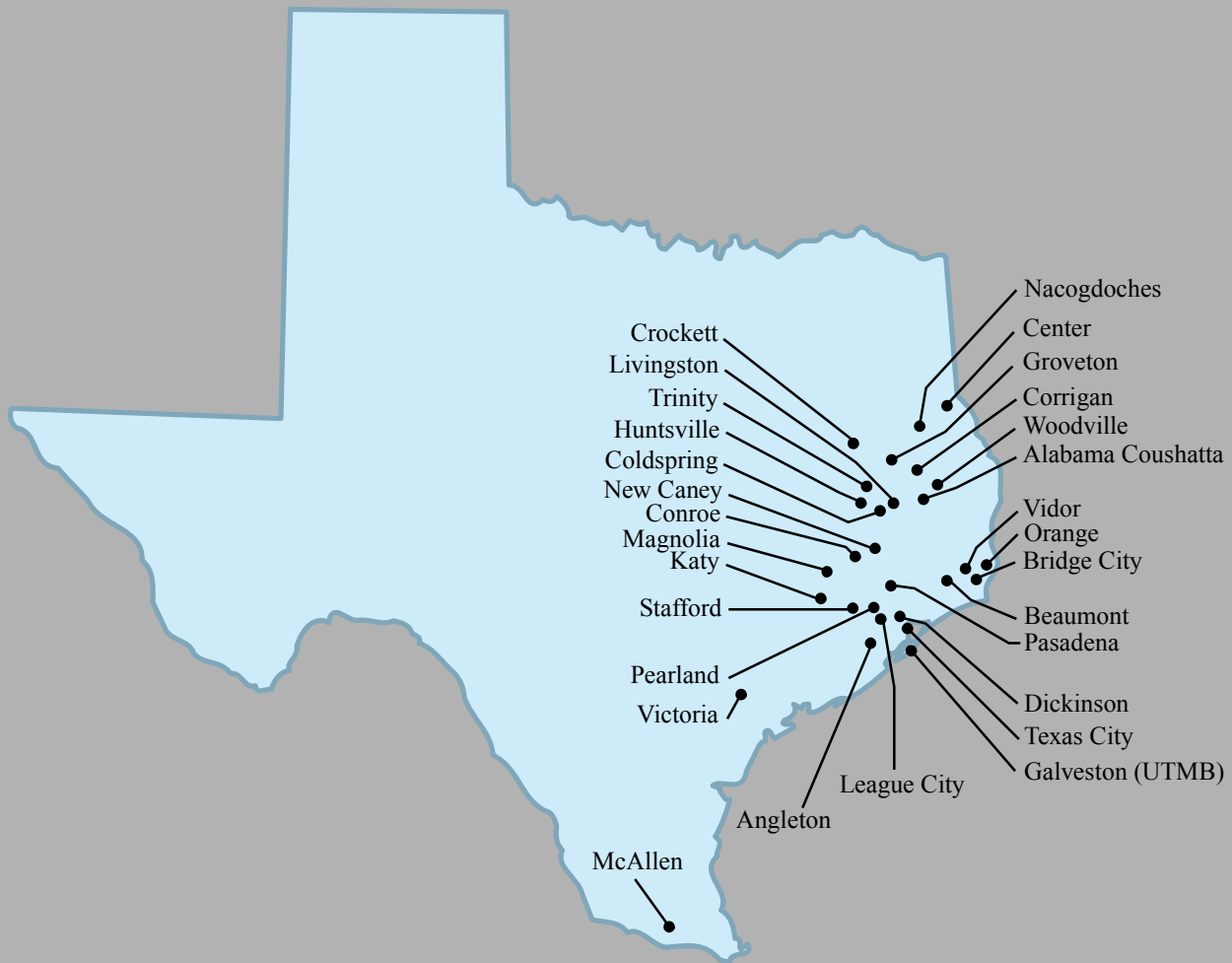


UTMB
Galveston



4 GOES-FLOATER RAINBOW IR CH. 4 - SEP 13 08 02:45 UTC





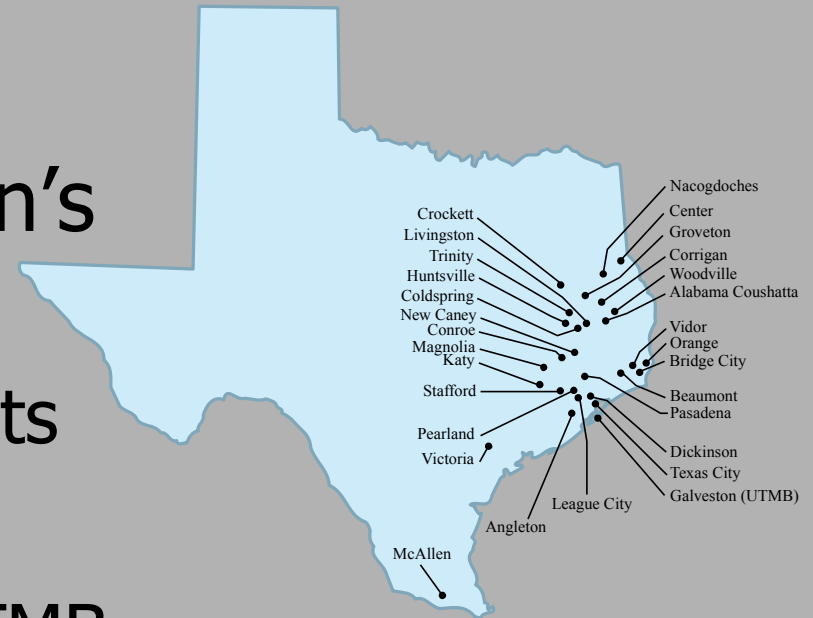
SEPT. 10-13, 2008 • GALVESTON, TX



RMCHP – FY 2009

60,424 – Unduplicated Women & Children's Services

- 120,681 perinatal visits
- 14,346 pregnancies
- 5,346 delivered at UTMB



UTMB - Obstetrics

- Geographically dispersed
- Rural, community setting
- Indigent population
- Goal – low risk stay in community
– high risk deliver at UTMB
- Majority of care by physician extenders
 - Nurse Practitioners N = 33
 - Midwives N = 36
 - PA N = 1

Challenges Presented

- Pre-EMR
- 1) Communication, Communication, Communication
 - 2) Time/Travel burden & cost
 - 3) Frustration

- Post-EMR
- 1) Continuity
 - 2) Time/Travel burden & cost
 - 3) Frustration

Hurricane Ike

- Catalyst for Improvement

Immediately Post IKE

- Lost all delivery capabilities at UTMB
- Credentialed our providers with mainland hospitals
- Established command center 24/7
 - Access EMR
 - Got information to wherever patient was

Island Challenges

- Dismantled or fragile infrastructure
 - Food services/supplies/water/ORs etc...
 - Reopened Delivery/Neonatal/Service one month post storm
 - Emphasis on come here only if necessary

Island Challenges



Distance Triage

- Concept
 - Minimize patient travel
 - Minimize resources consumed
 - Decrease demand on infrastructure
- Implementation
 - Paired APN & MFM plus
 - Local provider plus
 - EMR / Telemedicine system

EMR / Telehealth Model

- Delivery of specialty/subspecialty services anywhere
 - Cost effective teams
 - Conserves resources
- Patient Safety
 - Communication
 - Access

Triage Visits and Pregnancies
Mar 07 thru Aug 08
to Epoch II
Jan 09 thru June 10

	Visits	Pregnancies	Average Visits/Pregnancy	Range
Epoch I	21,401	11,280	1.92	1 – 17
Epoch II	12,430	7,867	1.62	1 – 15
Epoch II projected	15,981	10,115	1.62	1 – 15

Triage Visits and Pregnancies
Mar 07 thru Aug 08
to Epoch II
Jan 09 thru June 10

	Epoch I	Epoch II	Epoch II Projected
Maternal Age Average	26	26	26
Maternal Age Range	12 – 46	12 – 48	12 – 48

Triage Visits and Pregnancies by Clinic of Origin

	Epoch I		Epoch II		Epoch II Projected	
	Visits	Pregnancies	Visits	Pregnancies	Visits	Pregnancies
Angleton – RMCHP	1,206	625	917	531	1,179	683
Beaumont – RMCHP	955	564	570	417	733	536
Conroe – RMCHP	1,369	878	678	506	872	651
Dickinson – RMCHP	1,314	641	887	545	1,140	701
Galveston – RMCHP	2,707	971	1,492	646	1,918	831
Huntsville – RMCHP	210	130	102	83	131	107
Katy – RMCHP	1,096	705	687	515	883	662
LaPorte – RMCHP	109	64	Clinic Closed		Clinic Closed	
Nacogdoches – RMCHP	78	47	68	41	87	53
New Caney – RMCHP	361	231	278	205	357	264
Orange – RMCHP	227	130	150	102	193	131
Pasadena – RMCHP	4,133	2,273	2,619	1,760	3,369	2,260
Pearland – RMCHP	1,622	949	1,229	797	1,580	1,025
Stafford – RMCHP	1,648	920	956	699	1,229	899
Texas City – RMCHP	970	382	610	287	784	369
Victoria – RMCHP	46	18	33	16	42	21
NON RMCHP	3,350	1,752	1,154	717	1,484	922
TOTALS	21,401	11,280	12,430	7,867	15,981	10,115

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Triage Visits and Pregnancies by Diagnosis

Diagnosis	Epoch I		Epoch II		Epoch II Projected	
	Visits	Pregnancies	Visits	Pregnancies	Visits	Pregnancies
Abnormal NST	423	362	435	352	559	453
Cholecystitis	4	4	2	2	3	3
Chronic Hypertension	302	186	252	162	324	208
Decreased Fetal Movement	395	363	403	372	518	478
Diabetes Mellitus	460	291	365	278	469	357
Fetal Growth Restriction	138	104	86	67	111	86
Fetal Issues/Testing	423	362	435	352	559	453
Hyperemesis/NVP	73	65	66	55	85	71
Oligohydramnios	421	347	472	418	607	537
Pancreatitis	16	12	2	2	3	3
PIH/Preeclampsia	73	61	77	63	99	81
Pyelonephritis	552	503	456	394	586	507
Ruptured Membranes	139	132	131	128	168	165
Threatened Preterm Labor	1,106	767	615	483	791	621
Vaginal Bleeding	144	137	69	65	89	84
TOTALS	4,669	3,696	3,866	3,193	4,971	4,107

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Department of Obstetrics and Gynecology

Triage Visits

By Triage Level

Triage Level	Charges	Mcad. Reimb.	Hosp. Chgs.	Hosp. Reimb.	Epoch I Visits	Epoch II Visits	EPOCH II Projected
1	\$80.00	\$27.00	\$88.00	\$36.08	3,244	2,637	3,390
2	\$103.00	\$34.00	\$100.00	\$41.00	2,506	1,751	2,251
3	\$150.00	\$47.00	\$174.00	\$71.34	13,017	7,751	9,966
4	\$170.00	\$50.00	\$234.00	\$95.94	2,599	291	374
5	\$235.00	\$77.00	\$281.00	\$115.21	35	0	0
TOTALS	\$738.00	\$235.00	\$877.00	\$359.57	21,401	12,430	15,981

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TOTALS	\$738.00	\$235.00	\$877.00	\$359.57	21,401	12,430	15,981

Cost (Reimbursement)

Triage Level	Epoch I	Epoch II
1	\$204,631.52	\$213,841.20
2	\$187,950.00	\$168,825.00
3	\$1,540,431.80	\$1,179,376.40
4	\$379,298.06	\$54,581.56
5	\$6,727.35	—
Total	\$2,319,038.73	\$1,616,624.16

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5	\$6,727.35	—
Total	\$2,319,038.73	\$1,616,624.16

Dollars ↓ \$702,414.50 (↓ 30.3%)

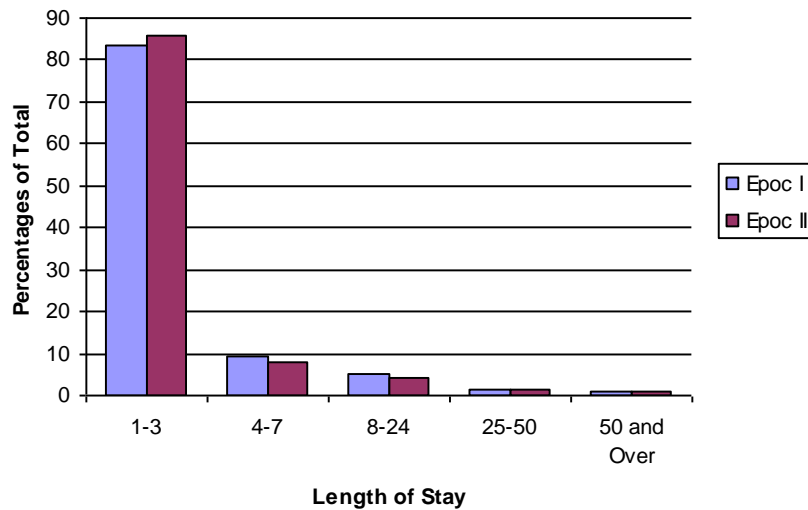
Visits ↓ 5,420 (↓ 25.3%)

Deliveries ↓ 1,073 (↓ 10.48%)

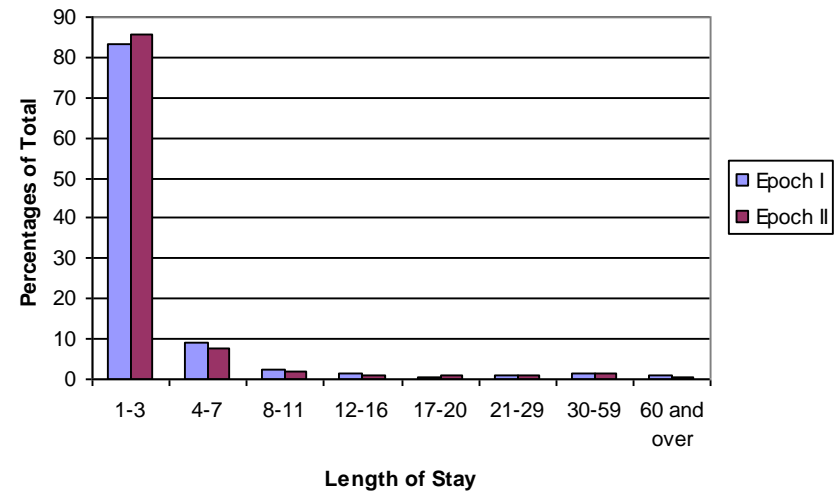
Department of Obstetrics and Gynecology Baby LOS by Percentages

From EPOCH I March 07 thru Aug 08 To EPOCH II Jan 09 thru Feb 10

Babies LOS by Percentages



Babies LOS by Percentages





We Deliver!

THROUGH STORM, AND RAIN, AND HURRICANE!

Department of Obstetrics & Gynecology
The University of Texas Medical Branch at Galveston

Concept/Design: Jennifer A. Garcia, M.D., Connell, ObGyn, U.T. Health Sci. Center, & Media Support
Hurricane (H) Satellite image Courtesy of NASA - Ultrasound image under Creative Commons license from Heydrienne, iStock.com/heydrienne

1st baby born after Hurricane Ike





Happy 1 year Birthday!!





