

**DIVISION OF COMMUNICABLE DISEASE PREVENTION
& PUBLIC HEALTH PREPAREDNESS
KANSAS CITY, MISSOURI HEALTH DEPARTMENT
2007**

**TUBERCULOSIS SURVEILLANCE
ANNUAL REPORT**

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**REPORTED TUBERCULOSIS CASES
AND CASE RATES PER 100,000
KANSAS CITY RESIDENTS
1998 - 2007**

YEAR	POPULATION	TB CASES	CASE RATE
1998	440,266	39	8.9
1999	440,906	42	9.5
2000	441,545	42	9.5
*2001	441,545	32	7.2
*2002	441,545	28	6.3
2003	441,545	26	5.9
2004	444,387	21	4.7
2005	444,387	24	5.4
2006	444,387	24	5.4
*2007	447,306	20	4.5

*Includes *Mycobacterium bovis* cases (2 in 2001, 1 in 2002 and 1 in 2007)

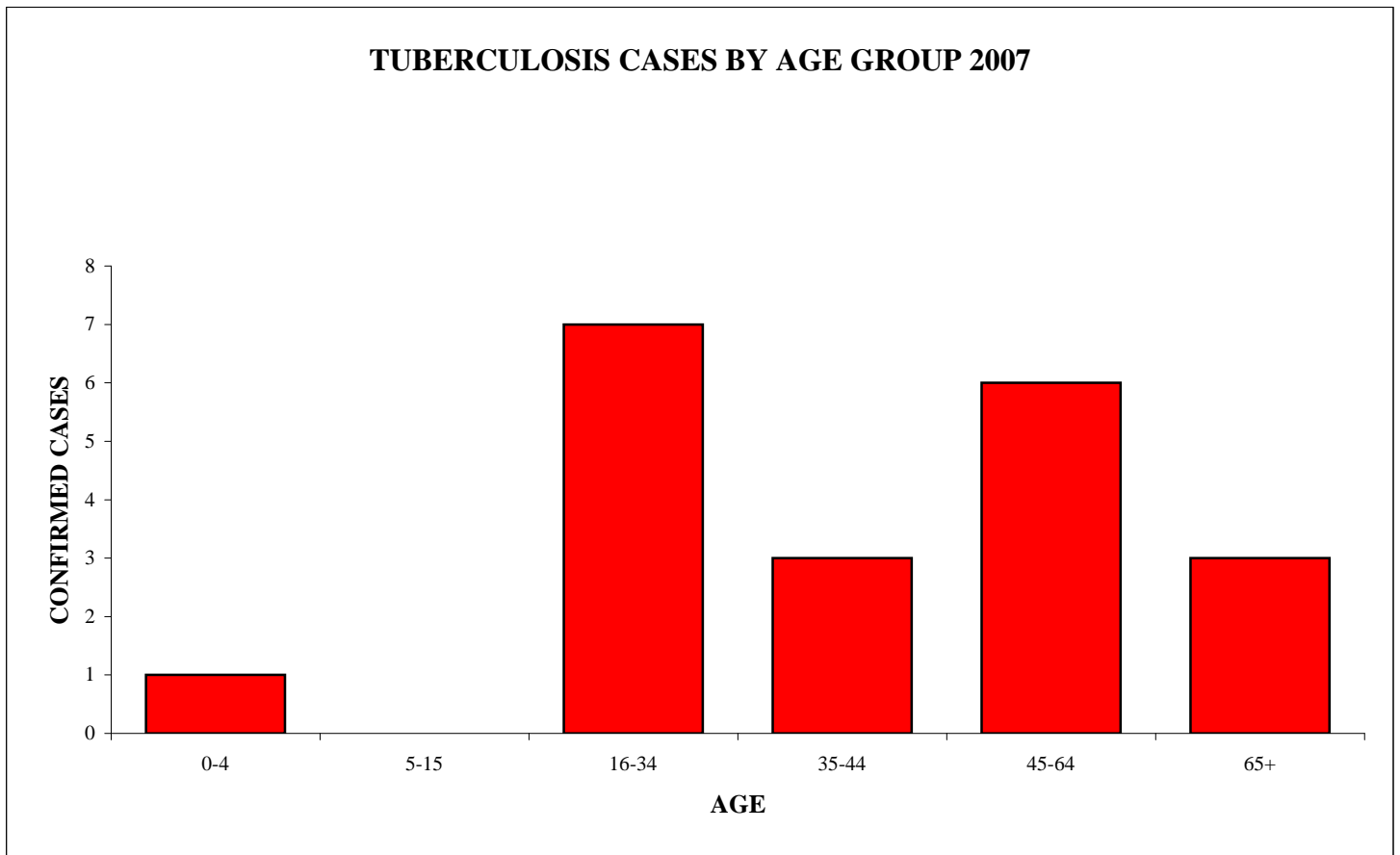
**CASES OF TUBERCULOSIS
KANSAS CITY RESIDENTS
2002-2007**

	2007	2006	2005	2004	2003	2002
ALL CASES	20	24	24	21	26	28
PULMONARY CASES	16	22	16	16	21	23
EXTRA-PULMONARY CASES	5	3	8	5	6	9
LYMPHATIC	3	2	6	2	3	*3
PANCREATIC	0	0	0	0	0	0
PERITONEAL	0	1	0	0	0	0
PLEURAL	0	0	0	1	*1	0
GENITO-URINARY	0	0	0	0	0	1
MEDIASTINAL	0	0	0	0	0	0
OTHER	2	0	2	2	2	*5
MYCOBACTERIUM <i>BOVIS</i> CASES	1	0	0	0	0	1
A.F.B. SMEAR	11	8	10	11	14	9
CULTURE POSITIVE	18	15	21	19	22	19
CAVITARY DISEASE PRESENT	6	4	7	6	8	3
MANTOUX TEST POSITIVE	7	15	8	10	14	15
ANERGIC	3	2	6	3	4	6
CASES REPORTED AT DEATH	3	0	2	2	0	1
PREVIOUS TB DIAGNOSIS	0	1	2	0	4	0
PREVIOUS TB INFECTION	1	2	4	7	5	4
DRUG RESISTANT CASES	2	1	2	5	1	3
	1 INH 1PZA	INH	2 INH,RIF 2 RIF	INH	INH	2 INH 1PZA

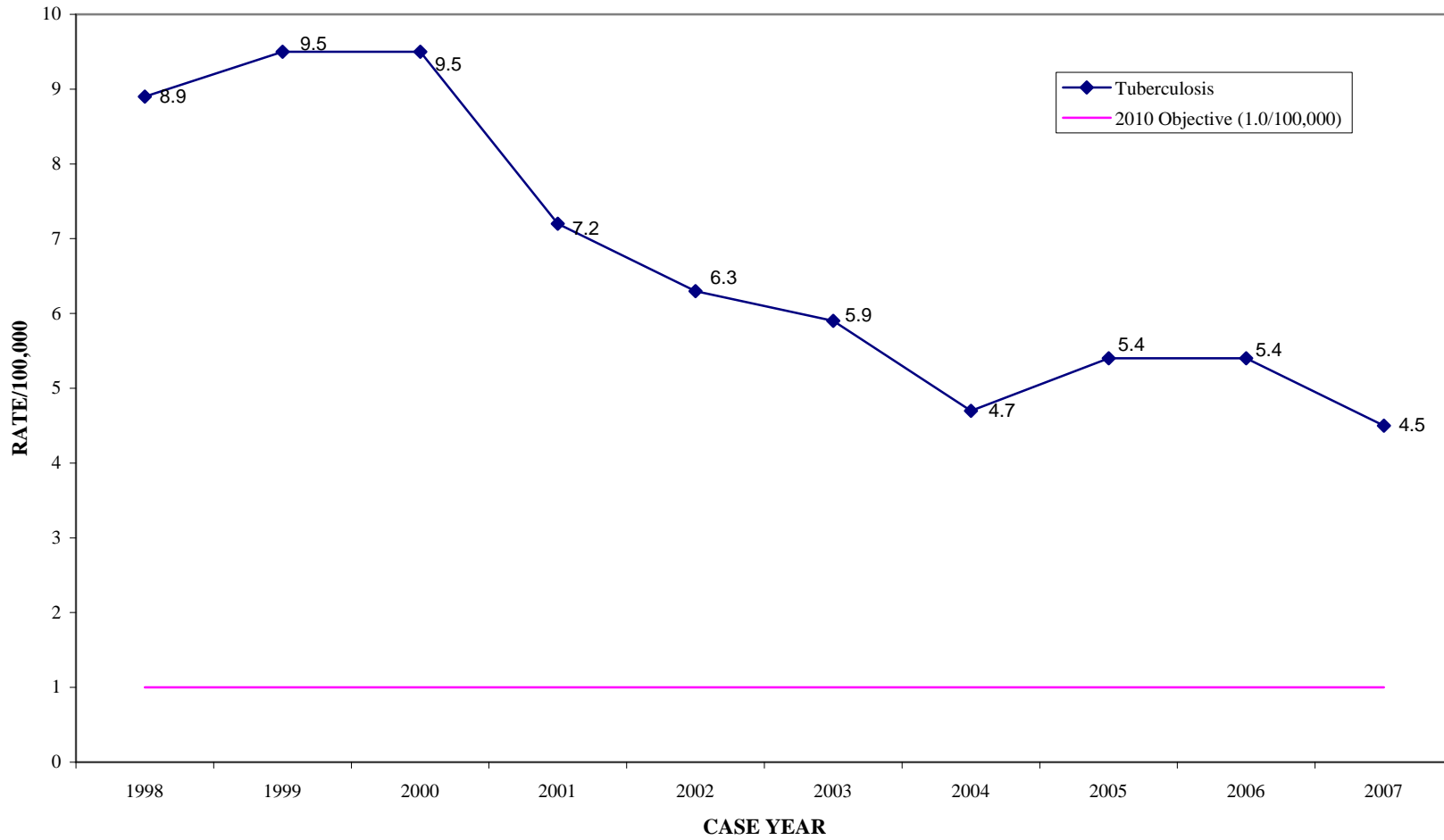
*SOME CASES WERE BOTH PULMONARY & EXTRA-PULMONARY (1 in 2007, 1 in 2006, 1 in 2003, 4 in 2002)

**REPORTED CASES
OF TUBERCULOSIS
BY AGE, RACE AND SEX
KANSAS CITY RESIDENTS
2007**

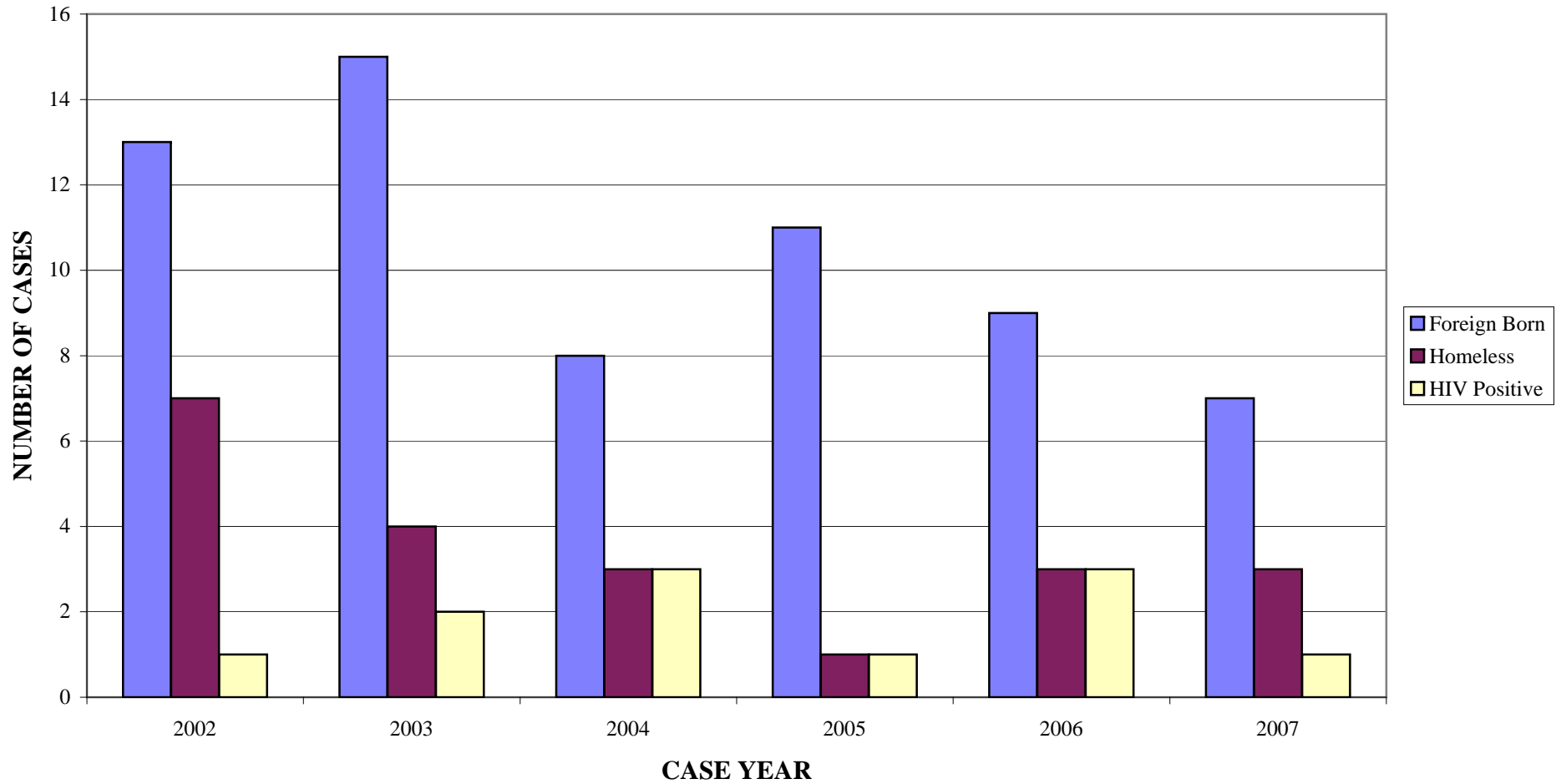
AGE	MALE						FEMALE						
	ASIAN	HISP	BLACK	UNK	WHITE	AGE SUB TOTAL	ASIAN	HISP	BLACK	UNK	WHITE	AGE SUB TOTAL	AGE TOTAL
0-4	0	0	1	0	0	1	0	0	0	0	0	0	1
5-15	0	0	0	0	0	0	0	0	0	0	0	0	0
16-34	1	2	0	0	0	3	0	0	4	0	0	4	7
35-44	0	0	3	0	0	3	0	0	0	0	0	0	3
45-64	2	0	2	0	2	6	0	0	0	0	0	0	6
65+	0	1	0	0	1	2	0	0	1	0	0	1	3
Grand Total	3	3	6	0	3	15	0	0	5	0	0	5	20



**TUBERCULOSIS CASE RATES
KANSAS CITY RESIDENTS
1998-2007**



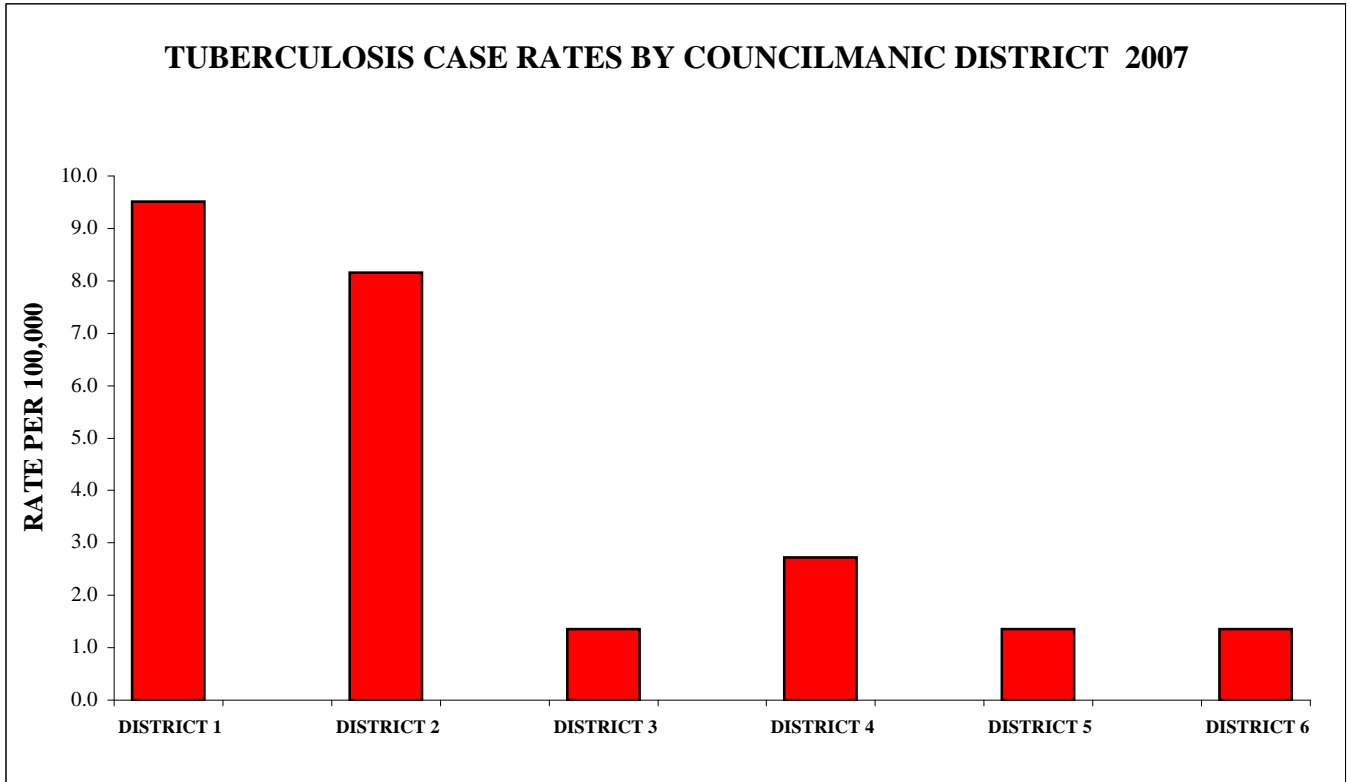
**TUBERCULOSIS CASES BY RISK FACTOR
KANSAS CITY RESIDENTS
2002-2007**



**REPORTED TUBERCULOSIS CASE RATES
BY COUNCILMANIC DISTRICT
RATE PER 100,000*
KANSAS CITY RESIDENTS
2002-2007**

	2007	2006	2005	2004	2003	2002
DISTRICT 1	9.5	13.6	12.2	9.5	12.2	8.2
DISTRICT 2	8.2	4.1	4.1	2.7	6.8	4.1
DISTRICT 3	1.4	2.7	6.8	4.1	2.7	10.9
DISTRICT 4	2.7	1.4	1.4	5.4	4.1	0.0
DISTRICT 5	1.4	2.7	4.1	0.0	2.7	5.4
DISTRICT 6	1.4	5.4	1.4	4.1	1.4	1.4
UNKNOWN	[2]	[3]	[2]	[4]	[6]	[4]

*POPULATION PER DISTRICT IS APPROXIMATELY 73,600



**TUBERCULOSIS CASES
THERAPY OUTCOME
2002-2007**

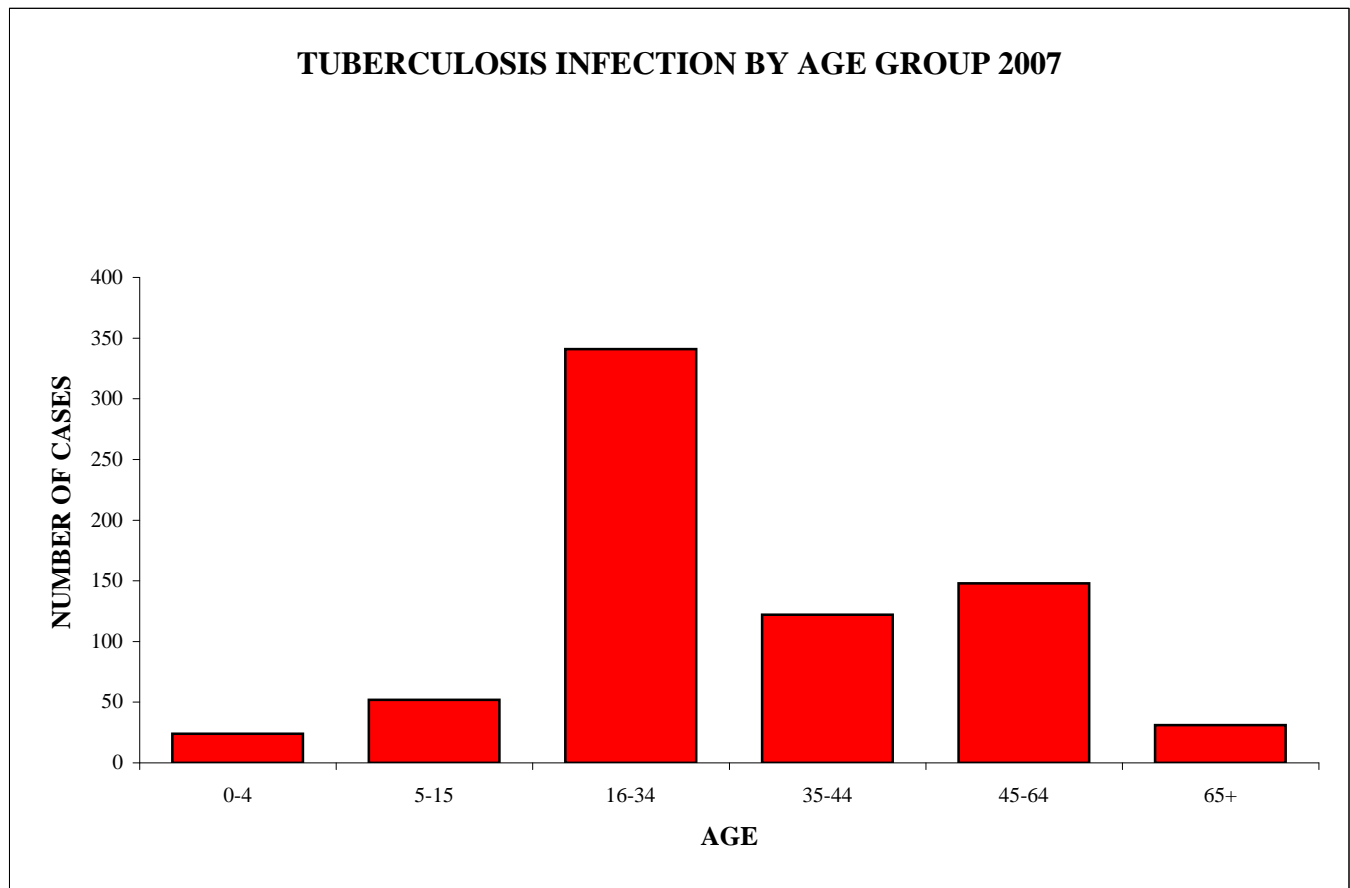
	2007	2006	2005	2004	2003	2002
NEW CLIENTS ADDED DURING YEAR	20	24	24	21	26	28
CLIENTS CLOSED TO SUPERVISION	13	24	24	21	26	28
CLIENT COMPLETED THERAPY	7	18	19	14	19	23
CLIENT MOVED TO NEW JURISDICTION	0	5	2	3	3	0
THERAPY SUSPENDED MEDICALLY	1	1	0	0	0	0
NO TREATMENT ORDERED BY PHYSICIAN	0	0	0	0	0	1
CLIENT DIED	4	0	3	4	1	4
LOST TO FOLLOWUP	1	0	0	0	3	0
STILL ACTIVE AT YEAR END 2007	7	0	0	0	0	0

**REPORTED TUBERCULOSIS INFECTION
AND INFECTION RATES PER 100,000
KANSAS CITY RESIDENTS
1998 - 2007**

YEAR	POPULATION	TB INFECTION	INFECTION RATE
1998	440,266	829	188.3
1999	440,906	774	175.5
2000	441,545	681	154.2
2001	441,545	803	181.9
2002	441,545	557	126.1
2003	441,545	509	115.3
2004	444,387	603	135.7
2005	444,387	694	156.2
2006	444,387	584	131.4
2007	447,306	728	162.8

**REPORTED CASES
OF TUBERCULOSIS INFECTION
BY AGE, RACE AND SEX
KANSAS CITY RESIDENTS
2007**

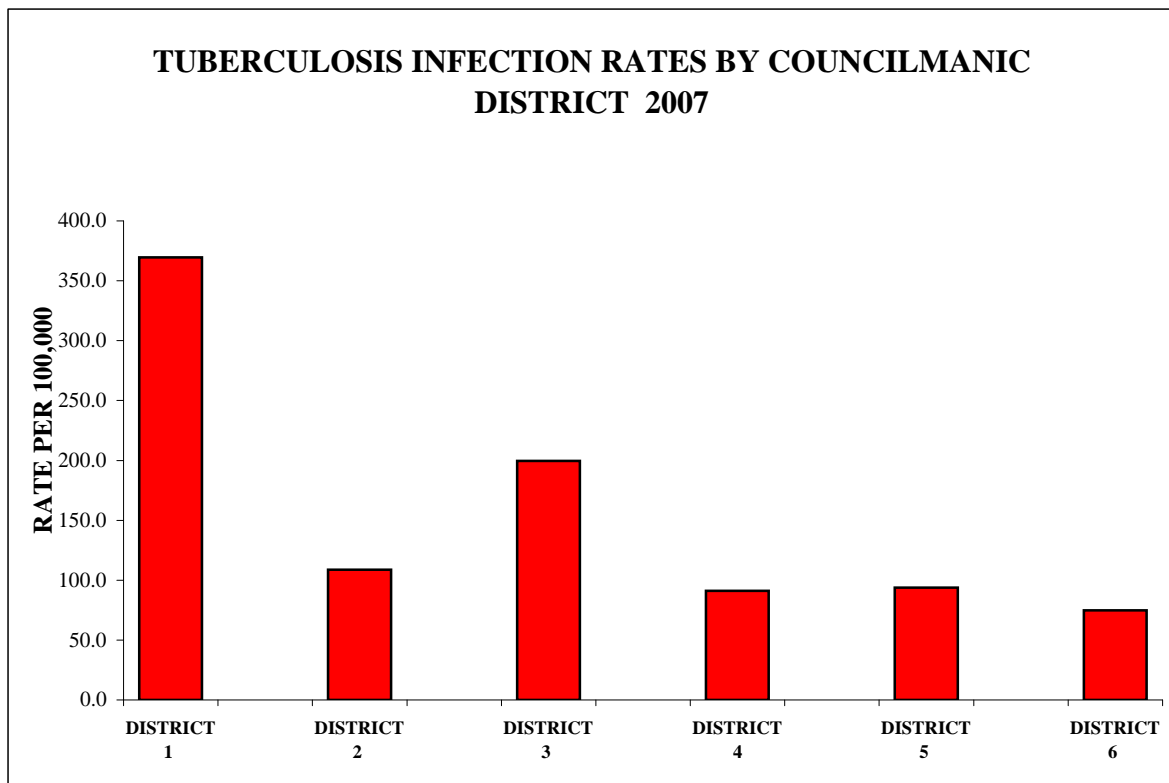
AGE	MALE						FEMALE						
	ASIAN	HISP	BLACK	UNK	WHITE	AGE SUB TOTAL	ASIAN	HISP	BLACK	UNK	WHITE	AGE SUB TOTAL	AGE TOTAL
0-4	1	5	4	1	0	11	2	5	5	1	0	13	24
5-15	1	6	11	2	1	21	5	10	15	1	0	31	52
16-34	17	19	65	7	8	116	22	96	76	20	11	225	341
35-44	7	11	40	7	10	75	5	20	17	2	3	47	122
45-64	11	10	47	12	15	95	8	5	27	4	9	53	148
65+	3	0	8	4	1	16	1	2	8	1	3	15	31
Unknown	1	0	1	1	0	3	0	5	0	1	1	7	10
Grand Total	41	51	176	34	35	337	43	143	148	30	27	391	728



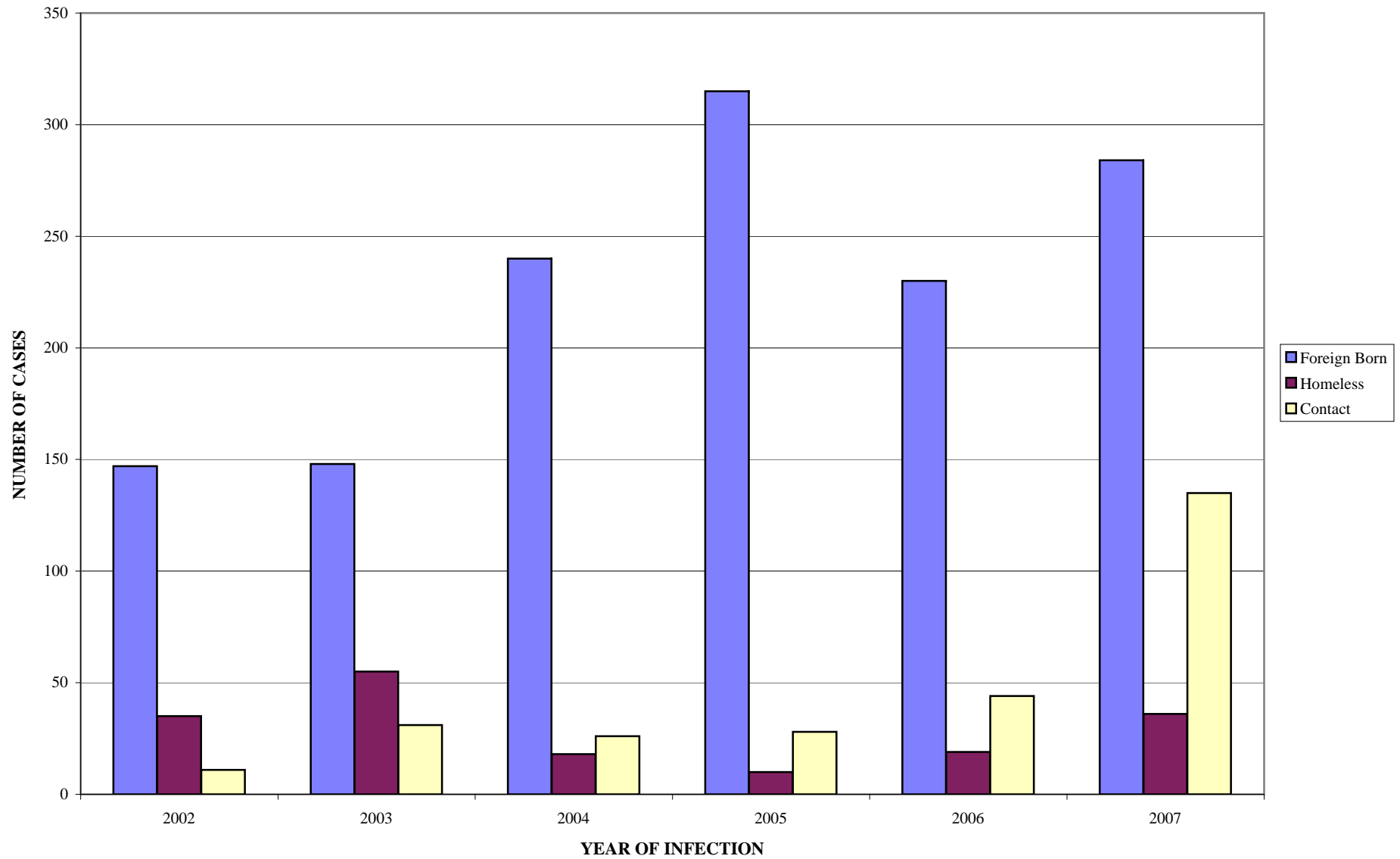
**REPORTED TUBERCULOSIS INFECTION
BY COUNCILMANIC DISTRICT
RATE PER 100,000*
KANSAS CITY RESIDENTS
2002-2007**

	2007	2006	2005	2004	2003	2002
DISTRICT 1	369.6	307.1	346.5	191.6	195.7	195.7
DISTRICT 2	108.7	57.1	47.6	39.4	62.5	100.5
DISTRICT 3	199.7	197.0	199.7	214.7	127.7	144.0
DISTRICT 4	91.0	66.6	96.5	73.4	70.7	81.5
DISTRICT 5	93.8	67.9	89.7	53.0	78.8	97.8
DISTRICT 6	74.7	67.9	78.8	47.6	47.6	72.0
UNKNOWN	[38]	[22]	[18]	[52]	[55]	[44]

*POPULATION PER DISTRICT IS APPROXIMATELY 73,600



**TUBERCULOSIS INFECTIONS BY RISK FACTOR
KANSAS CITY, MISSOURI
2002-2007**

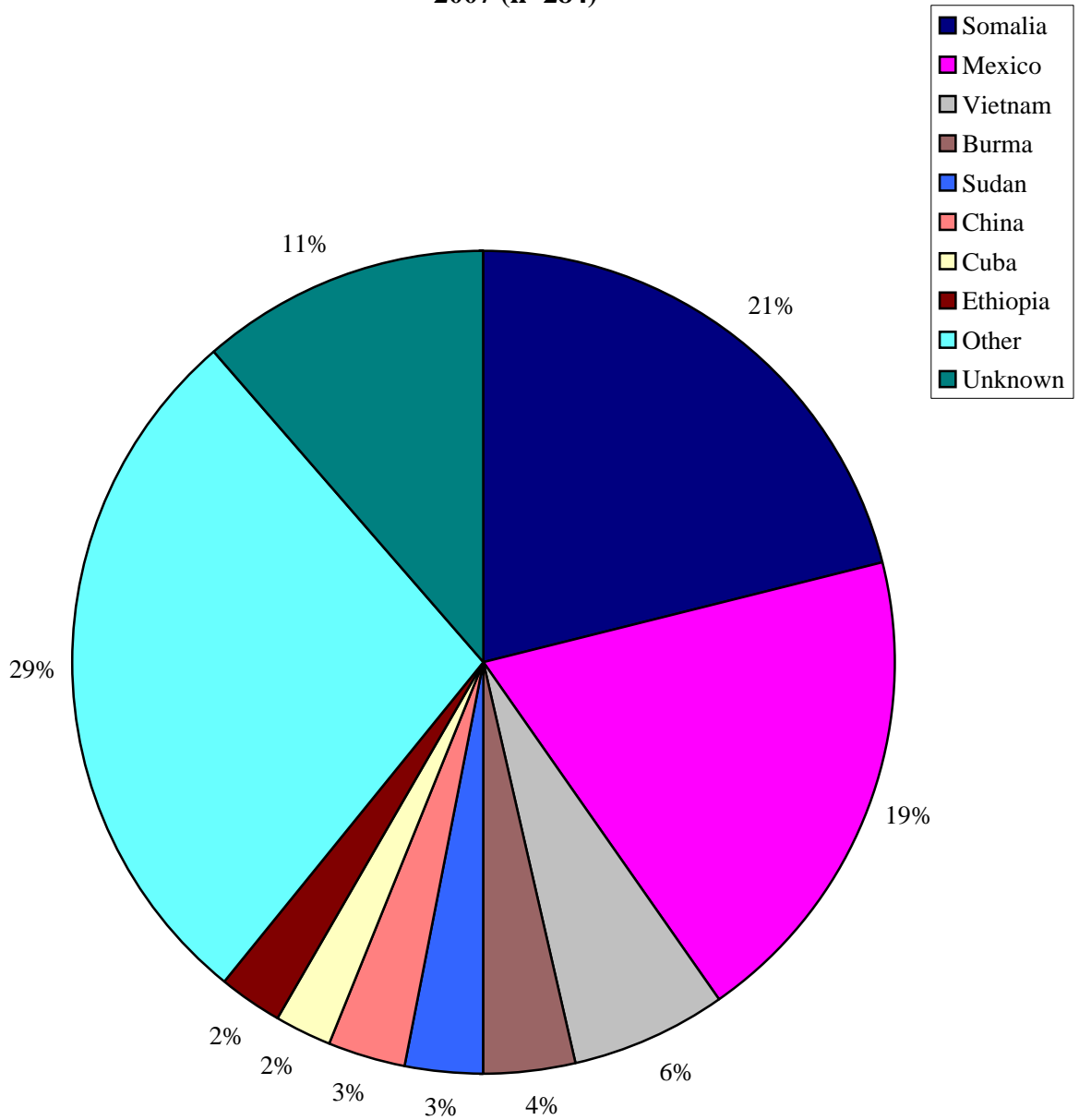


Other risk factors include: employee in a high-risk setting (5% of total infections), recent history of incarceration (4%), alcohol abuse (2%), and HIV infection (<1%)

**TUBERCULOSIS CONTROL
PREVENTIVE THERAPY
JAN 1, 2007 - DEC 31, 2007**

	CONTACTS	CONVERTERS	OTHERS	TOTAL
CLIENTS EVALUATED	135	39	554	728
>15 YEARS	129	37	486	652
=< 15 YEARS	6	2	68	76
COMPLETED THERAPY	12	4	21	37
INCOMPLETE THERAPY				
DECEASED	0	0	1	1
LOST TO FOLLOWUP	6	2	26	34
MEDS DC BY PHYSICIAN	0	0	3	3
MOVED	0	0	16	16
NO RESPONSE	3	0	5	8
NO TREATMENT ORDERED	1	0	5	6
NON COMPLIANT	8	1	11	20
PREVIOUSLY TREATED	3	0	6	9
REFUSED TREATMENT	4	3	5	12
OTHER	4	1	9	14
PENDING (STILL OPEN)	94	28	446	568

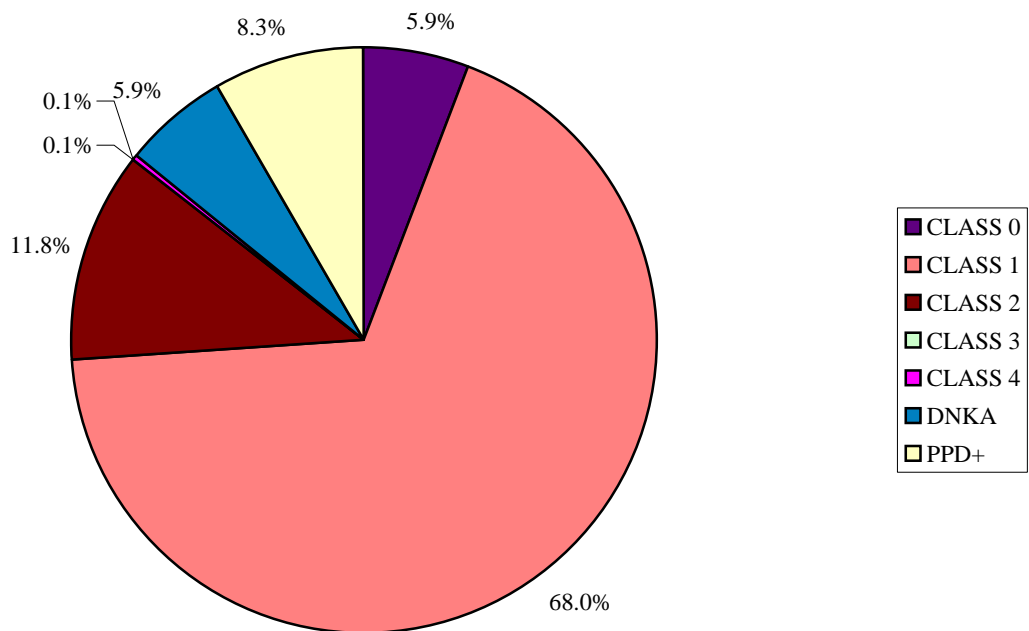
**TB INFECTION AMONG FOREIGN-BORN IMMIGRANTS
KANSAS CITY, MISSOURI
2007 (n=284)**



TUBERCULOSIS CLINIC ACTIVITIES 2002 - 2007

	2007	2006	2005	2004	2003	2002
MANTOUX TESTS GIVEN	1412	373	469	989	271	717
NUMBER POSITIVE	285	70	157	188	60	30
PERCENT POSITIVE	20.2	18.8	33.5	19.0	22.1	4.2
CHEST X-RAYS	219	155	207	234	156	238
MEDICATION DELIVERIES	1584	1826	1805	1722	1726	1806

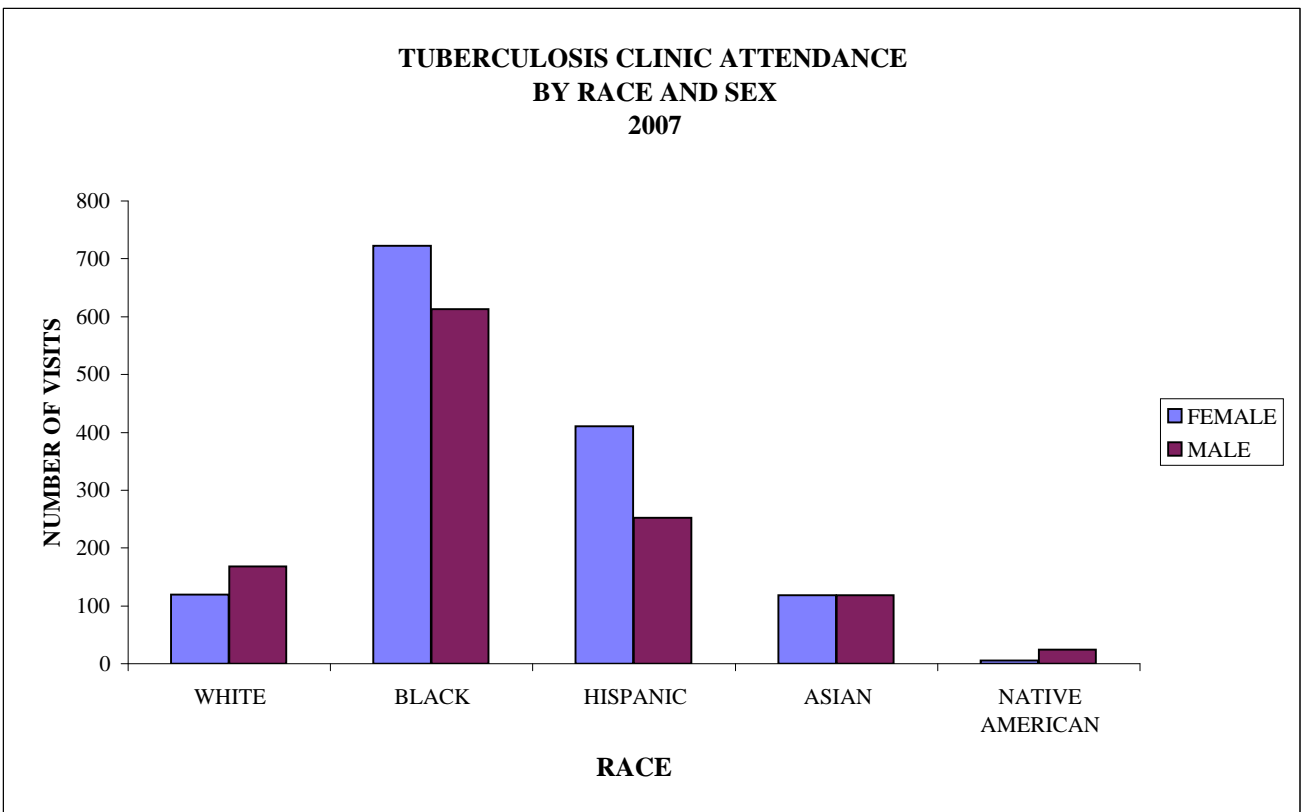
RESULTS OF SKIN TESTS GIVEN BY THE TUBERCULOSIS CLINIC 2007



Class 0: No TB exposure, not infected **Class 1:** TB exposure, no evidence of infection
Class 2: TB infection, no disease **Class 3:** TB, clinically active **Class 4:** TB, not clinically active
Class 5: TB suspected **DNKA:** Tested, didn't return for reading **PPD+:** TB Infected, need further evaluation

**TUBERCULOSIS CLINIC ATTENDANCE
1998 - 2007**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1998	137	177	144	159	147	171	209	234	199	202	153	115	2047
1999	87	141	247	207	133	174	208	227	239	239	180	188	2270
2000	171	189	256	160	186	232	193	153	212	163	174	147	2236
2001	182	175	214	210	146	181	159	137	132	142	171	115	1964
2002	116	215	195	197	229	234	299	230	167	189	153	139	2363
2003	116	114	95	130	113	116	111	111	117	169	168	153	1513
2004	239	204	191	198	216	291	233	150	209	211	291	222	2655
2005	169	160	176	181	168	149	149	188	169	169	211	220	2109
2006	205	161	170	157	186	188	112	140	164	116	235	178	2012
2007	187	203	175	202	213	241	300	265	200	223	185	157	2551



**CASES OF INFECTION
BY MYCOBACTERIA OTHER
THAN TUBERCULOSIS (MOTT)
2002 - 2007**

	2002	2003	2004	2005	2006	2007
KNOWN HIV CO-INFECTION	3	3	3	0	3	5
M. AVIUM COMPLEX	25	13	14	17	16	34
M. KANSASII	1	1	0	3	2	0
M. FORTUITUM	8	5	4	5	8	3
M. GORDONAE	10	12	10	6	11	7
M. CHELONAE	2	3	3	3	5	9
M. TERRAE	1	1	0	1	0	1
OTHER/UNKNOWN	5	6	6	4	7	6
TOTAL	52	41	37	39	49	60

