

INJURY IN CONNECTICUT: HOSPITALIZATIONS

CONNECTICUT RESIDENTS, 2005 - 2007

**CONNECTICUT DEPARTMENT OF PUBLIC HEALTH
INJURY PREVENTION PROGRAM
2009**

“Injuries Are Preventable”



State of Connecticut

**INJURY IN CONNECTICUT: HOSPITALIZATIONS
CONNECTICUT RESIDENTS, 2005 – 2007**

Prepared by:
Mukhtar H. Mohamed, MPH, MA

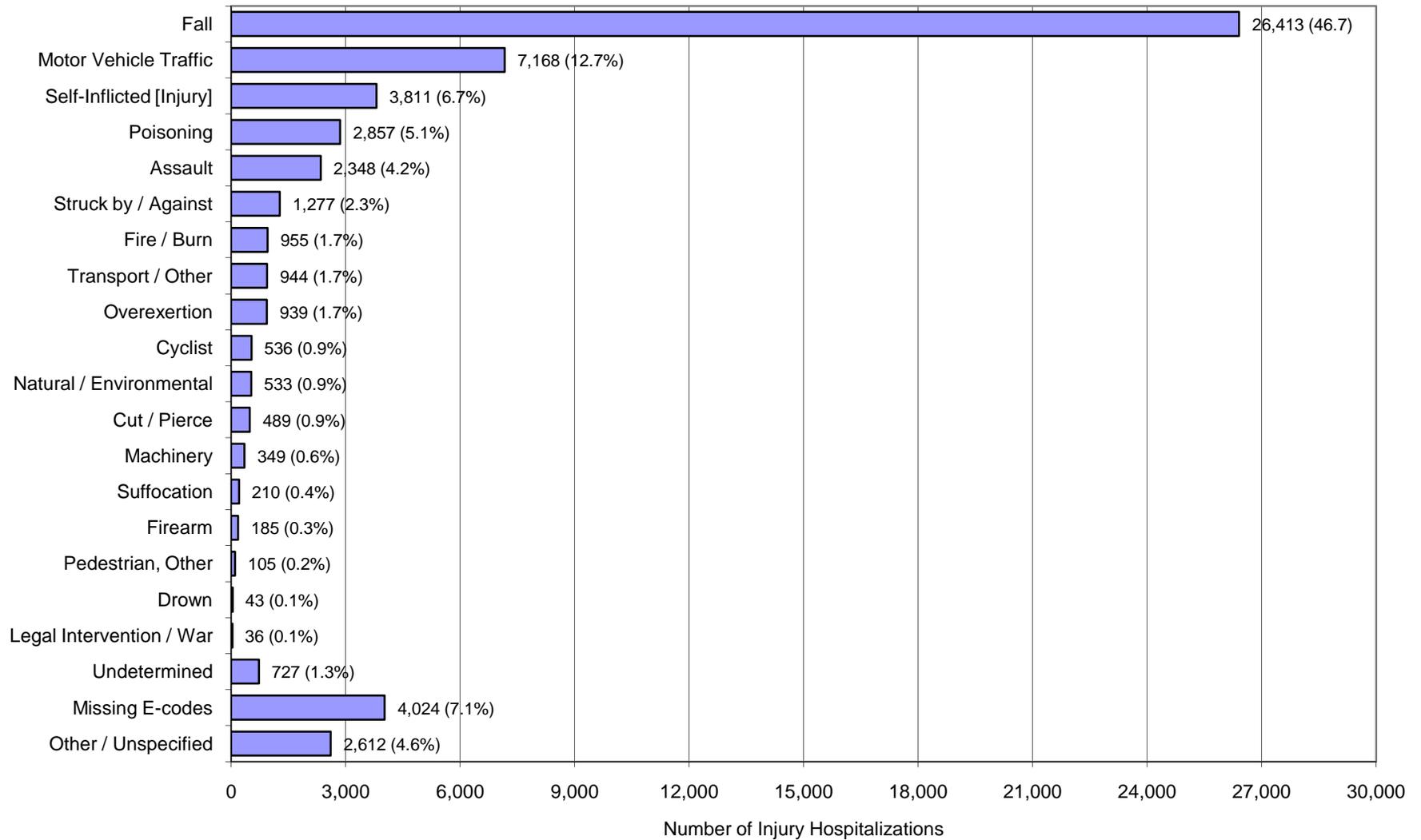
CONNECTICUT DEPARTMENT OF PUBLIC HEALTH
Public Health Initiatives Branch
Health Education, Management & Surveillance Section
Injury Prevention Program

Hartford, Connecticut
2009

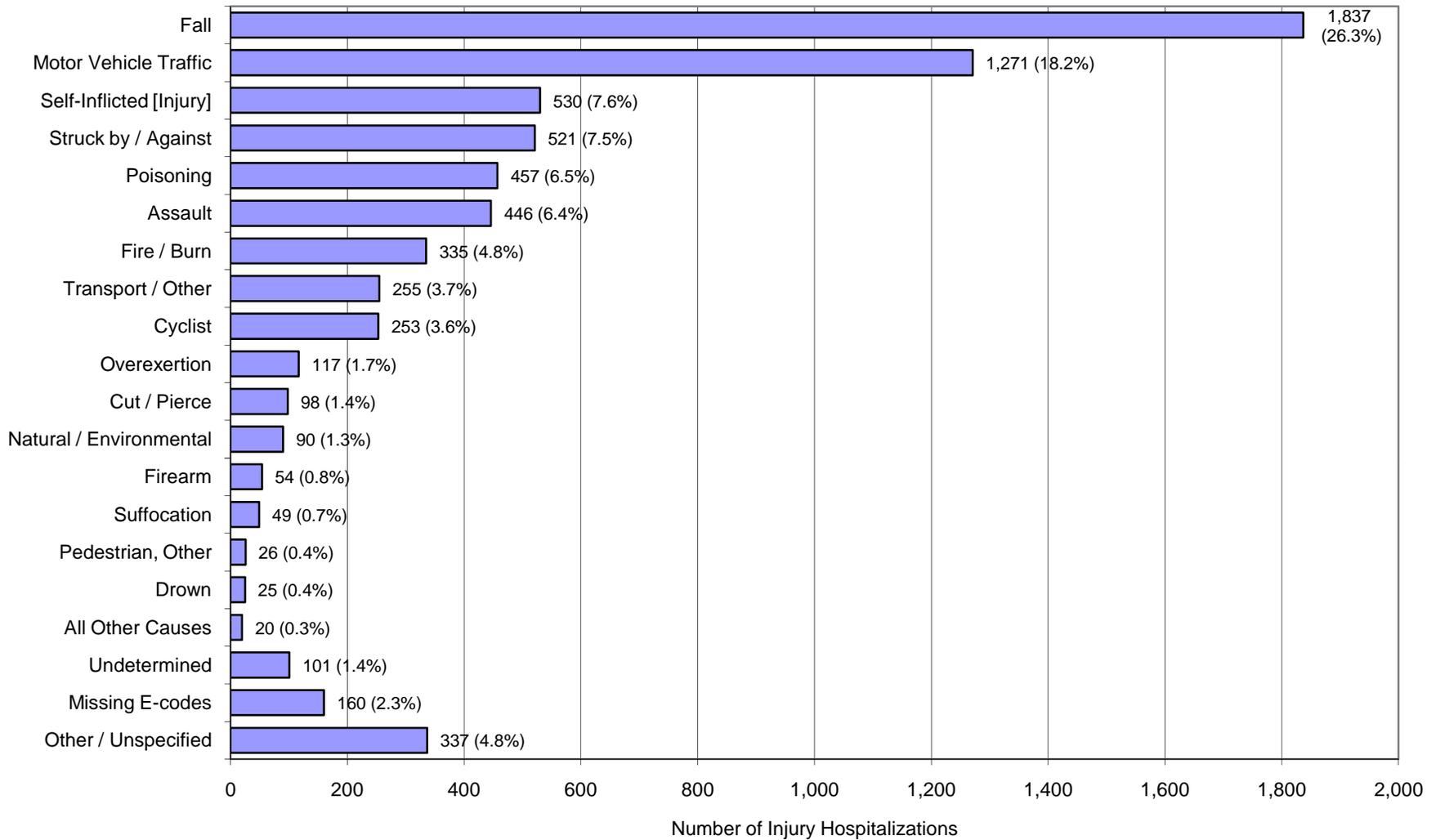


<http://www.ct.gov/dph/>

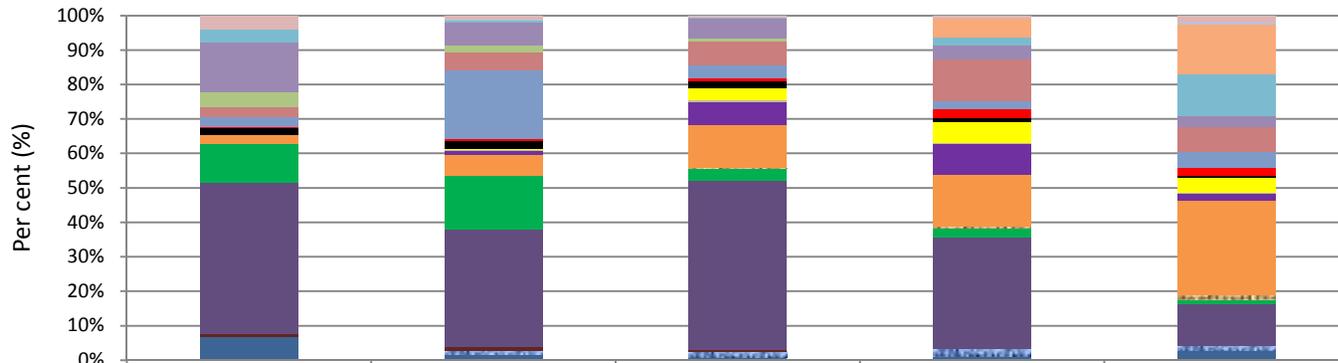
Leading Causes of Injury* Hospitalization
Connecticut Residents, 2005 - 2007
(n = 56,561; Average = 18,854/year)



**Leading Causes of Injury* Hospitalization for 0 - 19 Year Old
Connecticut Residents, 2005 - 2007**
(n = 6,982; Average = 2,327/year)

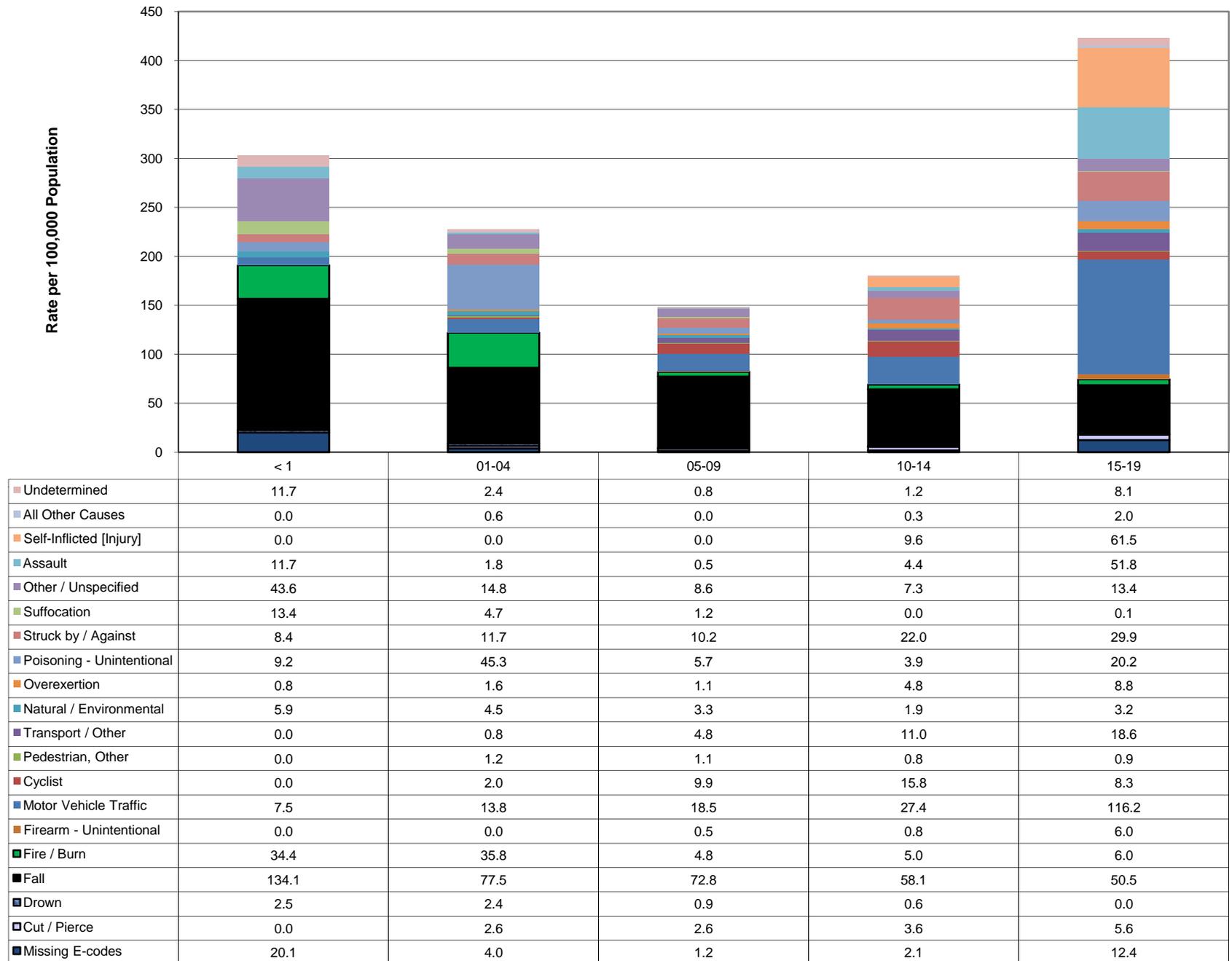


Injury* Hospitalizations for 0 - 19 Year Old by Mechanism and Age Group Connecticut Residents, 2005 - 2007



	< 1	01-04	05-09	10-14	15-19
Undetermined	3.9%	1.0%	0.5%	0.7%	1.9%
All Other Causes	0.0%	0.3%	0.0%	0.2%	0.5%
Self-Inflicted [Injury]	0.0%	0.0%	0.0%	5.3%	14.5%
Assault	3.9%	0.8%	0.3%	2.4%	12.2%
Other / Unspecified	14.4%	6.5%	5.8%	4.0%	3.2%
Suffocation	4.4%	2.1%	0.8%	0.0%	0.0%
Struck by / Against	2.8%	5.1%	6.9%	12.2%	7.1%
Poisoning - Unintentional	3.0%	19.9%	3.9%	2.1%	4.8%
Overexertion	0.3%	0.7%	0.7%	2.7%	2.1%
Natural / Environmental	1.9%	2.0%	2.2%	1.1%	0.8%
Transport / Other	0.0%	0.3%	3.2%	6.1%	4.4%
Pedestrian, Other	0.0%	0.5%	0.7%	0.5%	0.2%
Cyclist	0.0%	0.9%	6.7%	8.8%	2.0%
Motor Vehicle Traffic	2.5%	6.1%	12.5%	15.2%	27.4%
Firearm - Unintentional	0.0%	0.0%	0.3%	0.5%	1.4%
Fire / Burn	11.3%	15.7%	3.2%	2.7%	1.4%
Fall	44.2%	34.1%	49.1%	32.2%	11.9%
Drown	0.8%	1.0%	0.6%	0.3%	0.0%
Cut / Pierce	0.0%	1.1%	1.7%	2.0%	1.3%
Missing E-codes	6.6%	1.7%	0.8%	1.1%	2.9%

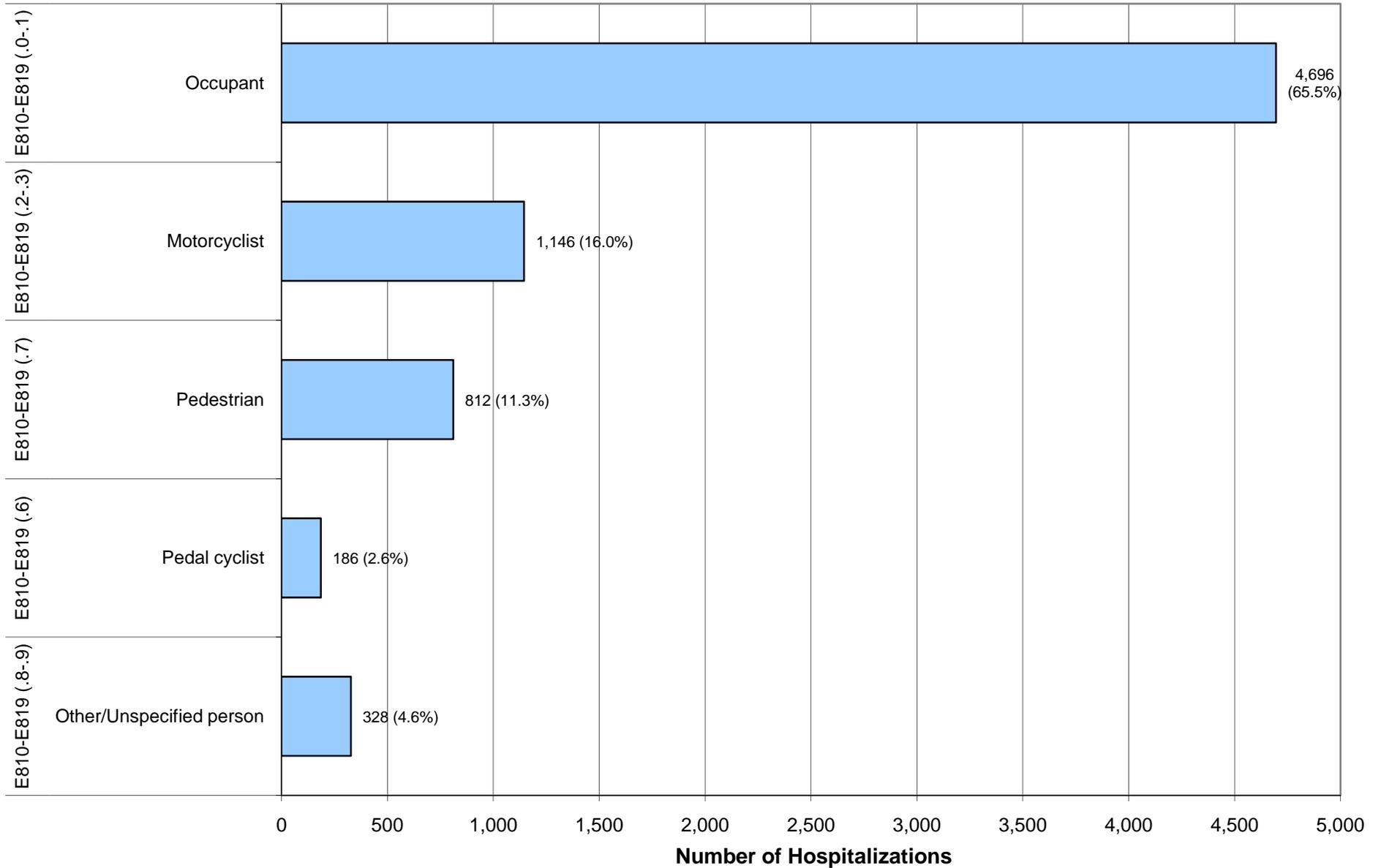
Injury Hospitalizations for 0 - 19 Year Old by Mechanism and Age Group Connecticut Residents, 2005 - 2007



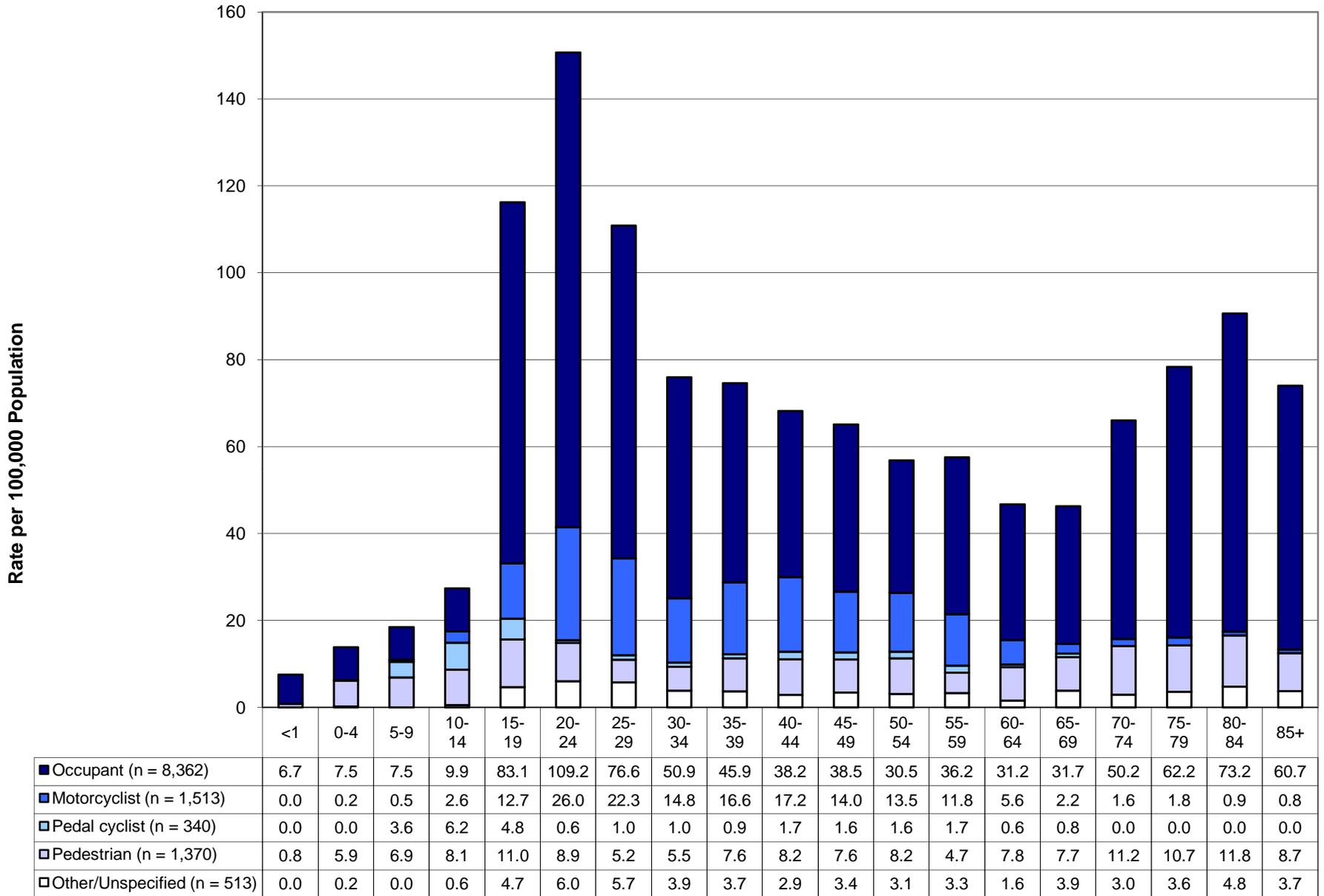
Unintentional Motor Vehicle Traffic* Hospitalizations by Person Injured

Connecticut Residents, 2005 - 2007

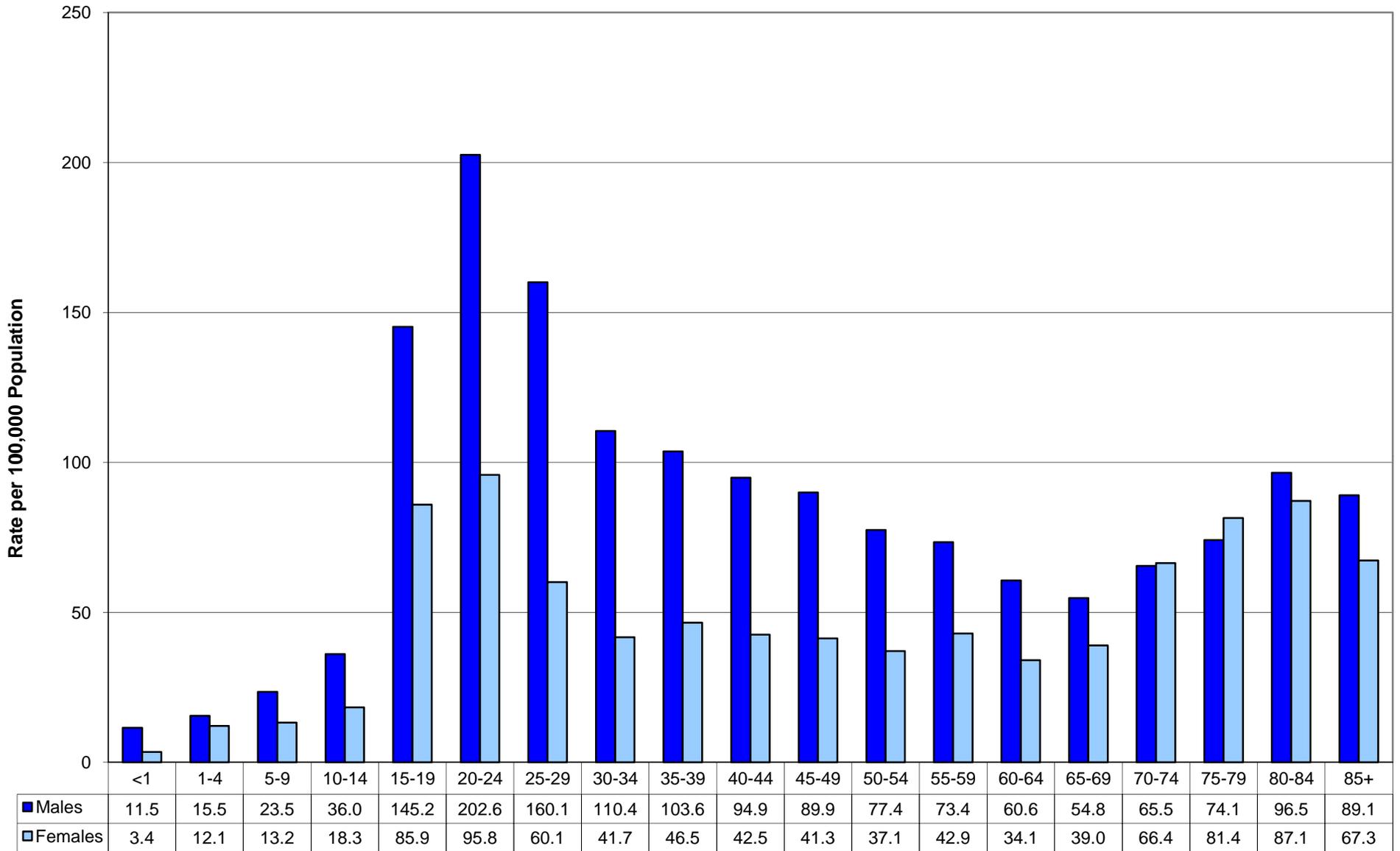
(n = 7,168; average = 2,389/year)



Motor Vehicle Traffic Hospitalization Rates by Person Injured & Age Connecticut Residents, 2005- 2007

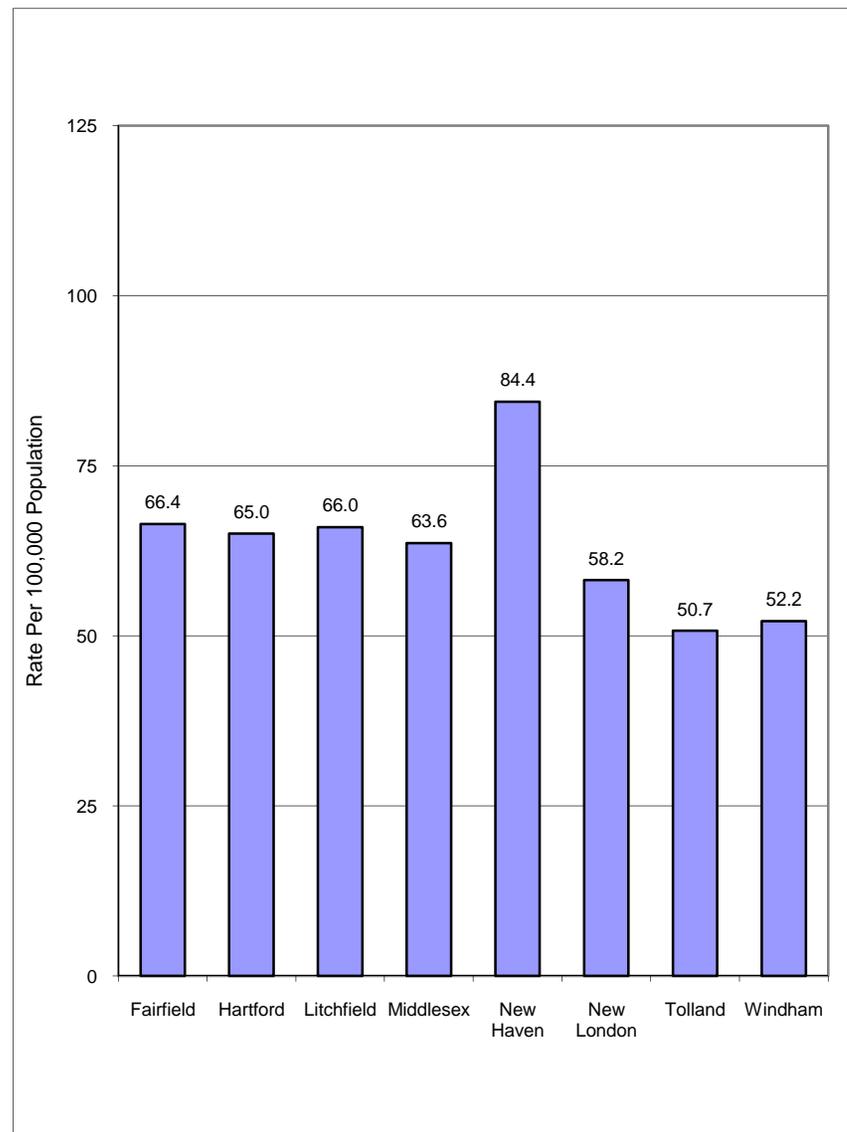
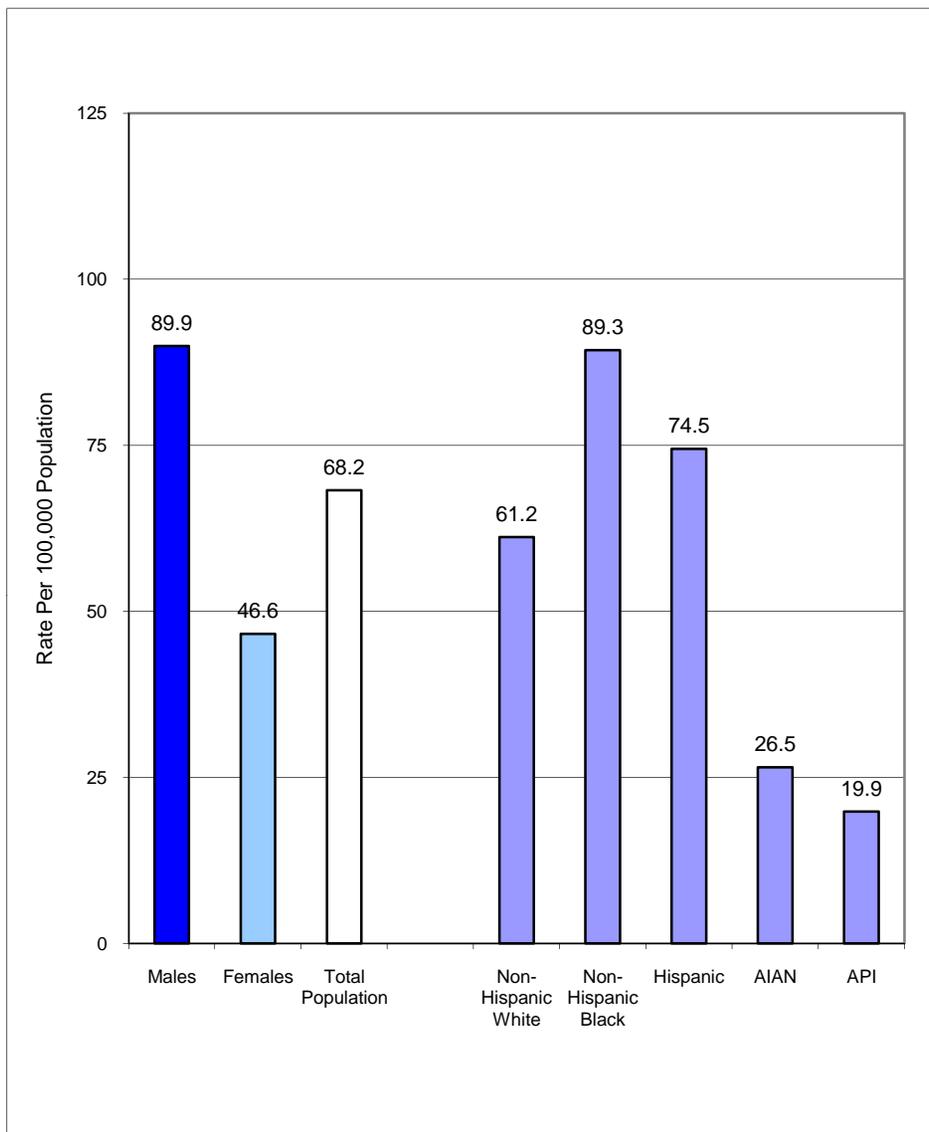


Motor Vehicle Traffic Hospitalization Rates By Age & Sex Connecticut Residents, 2005 - 2007



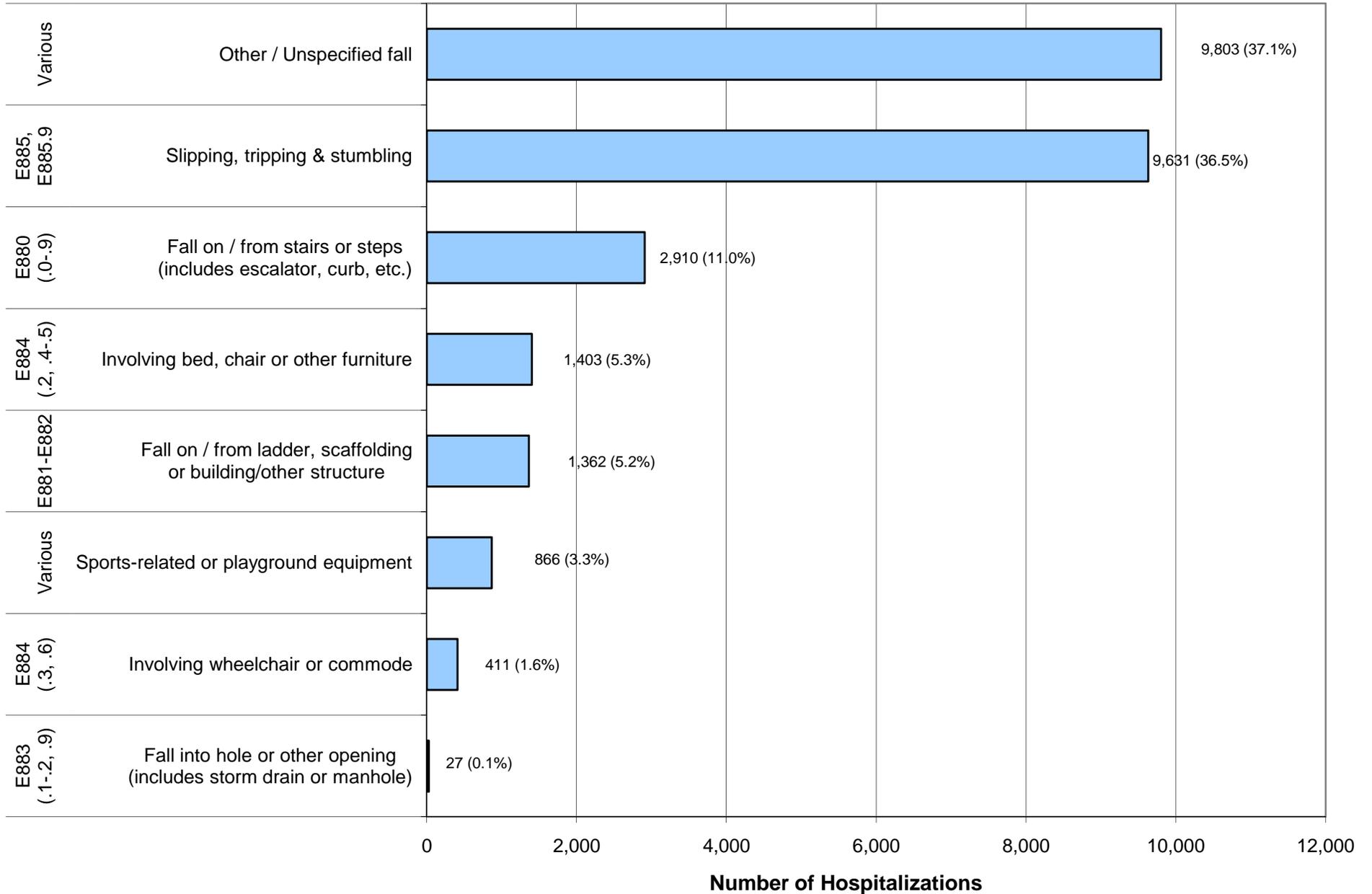
* Rates based on counts less than 6 events are not presented due to confidentiality regulations

Age-Adjusted Motor Vehicle Traffic Hospitalization Rates by Sex, Race/Ethnicity & County of Residence Connecticut Residents, 2005 - 2007

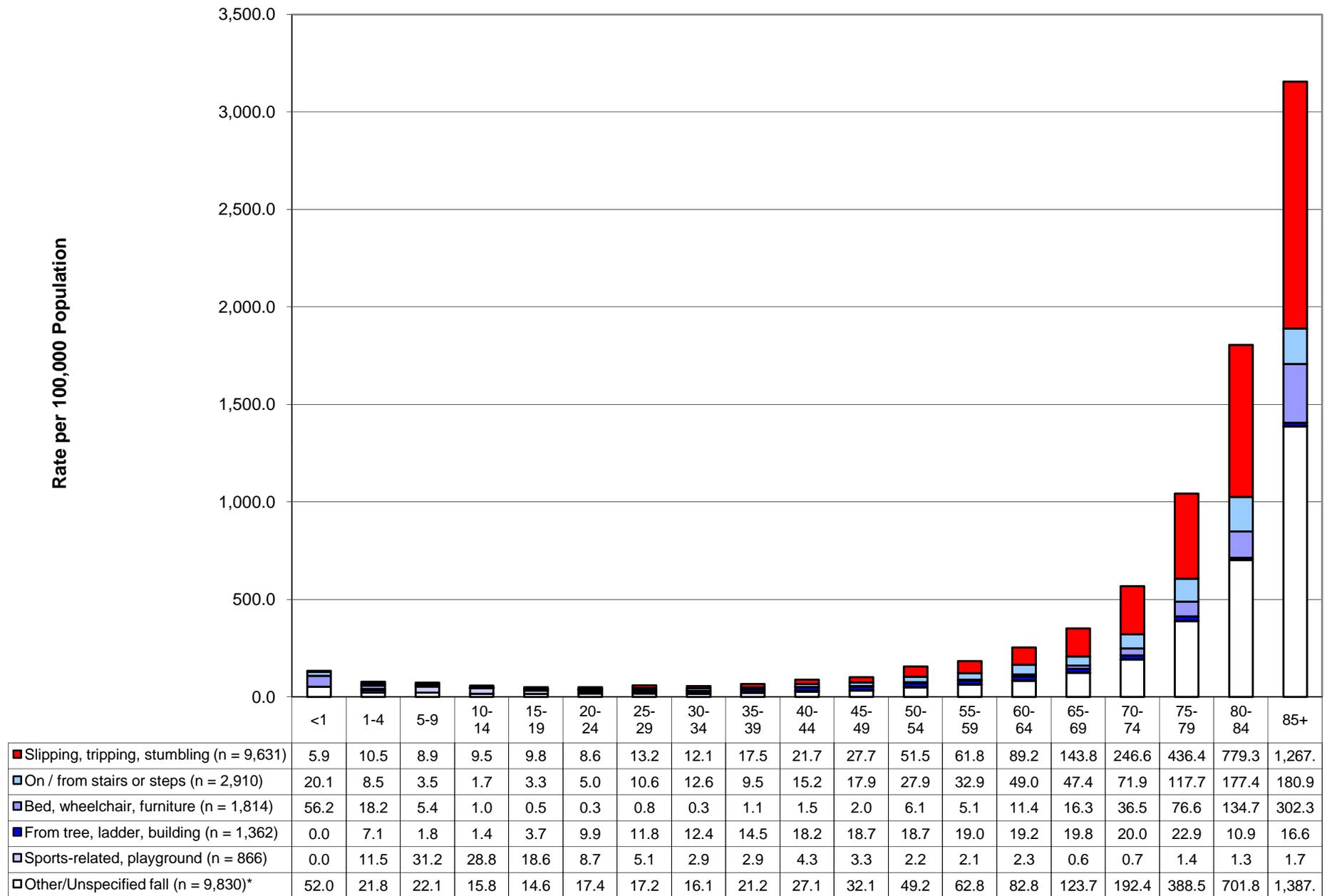


Unintentional Fall* Hospitalizations by Mechanism

Connecticut Residents, 2005 - 2007
(n = 26,413; average = 8,804/year)

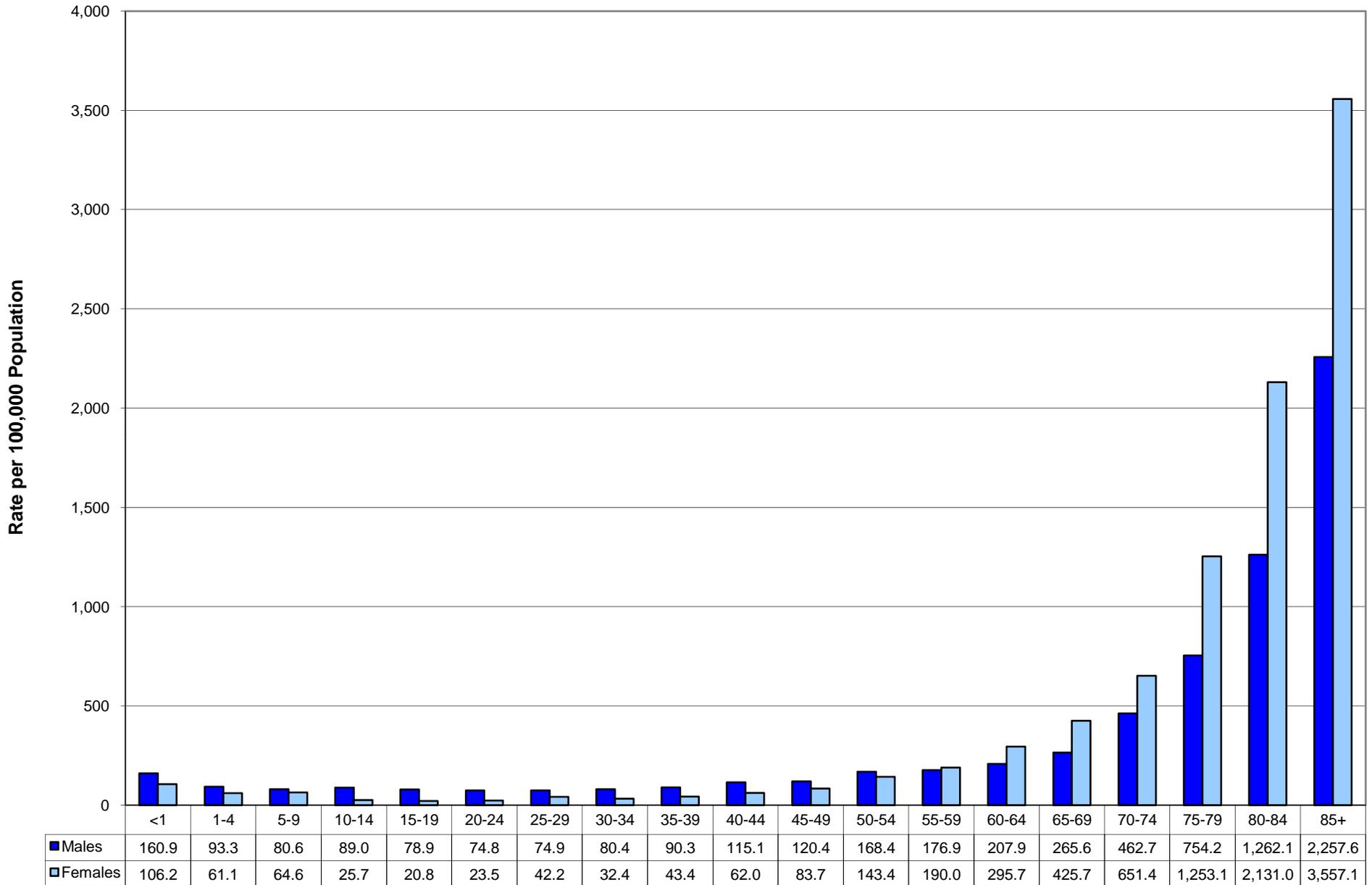


Fall Hospitalization Rates by Mechanism & Age Connecticut Residents, 2005 - 2007



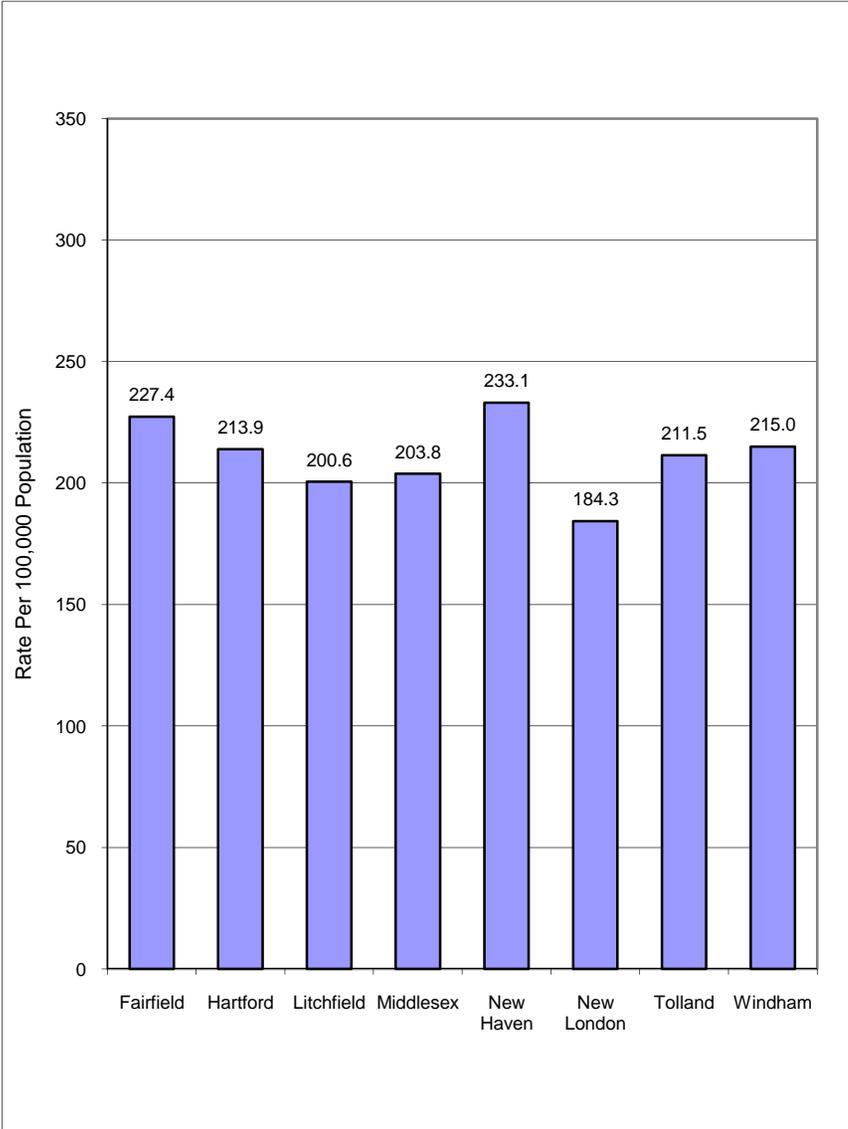
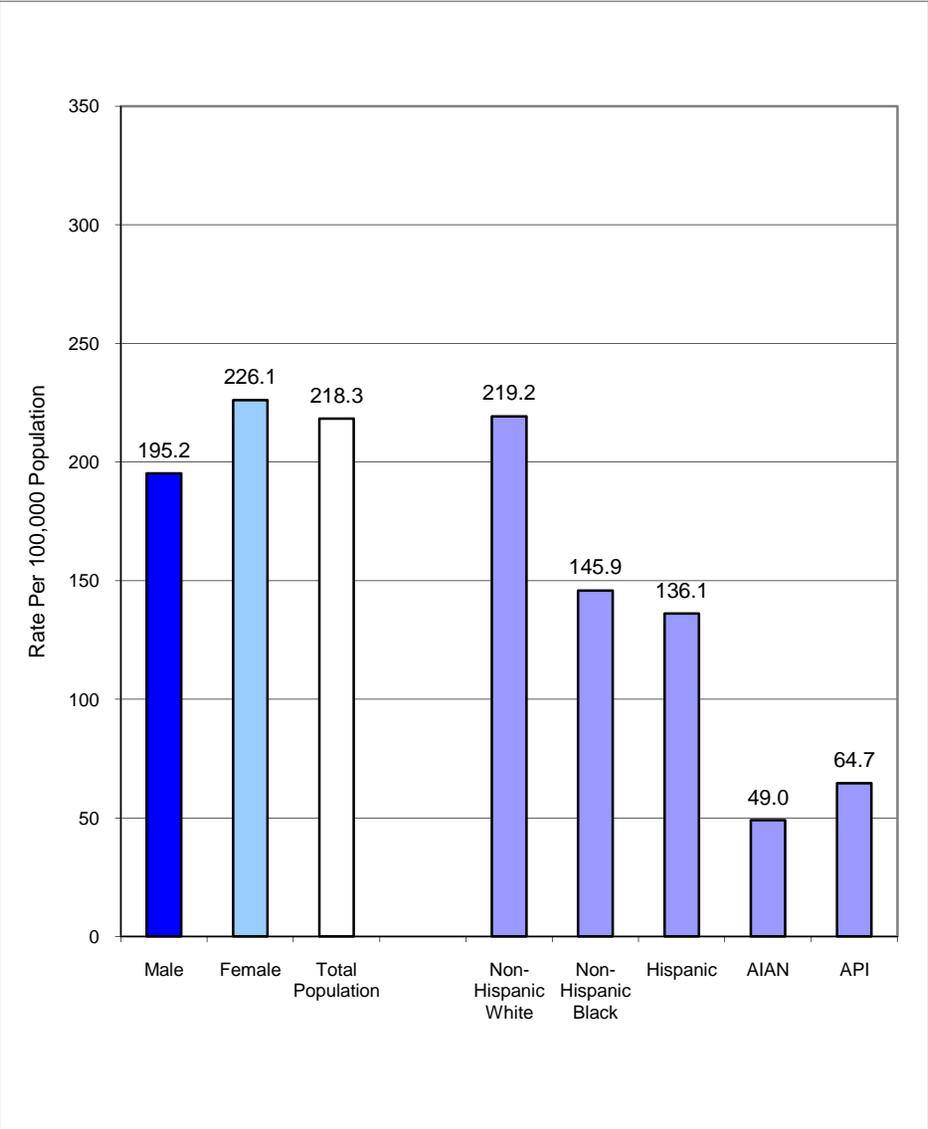
* Includes "Fall into hole or other opening" = 27.

Fall Hospitalization Rates By Age & Sex Connecticut Residents, 2005 - 2007

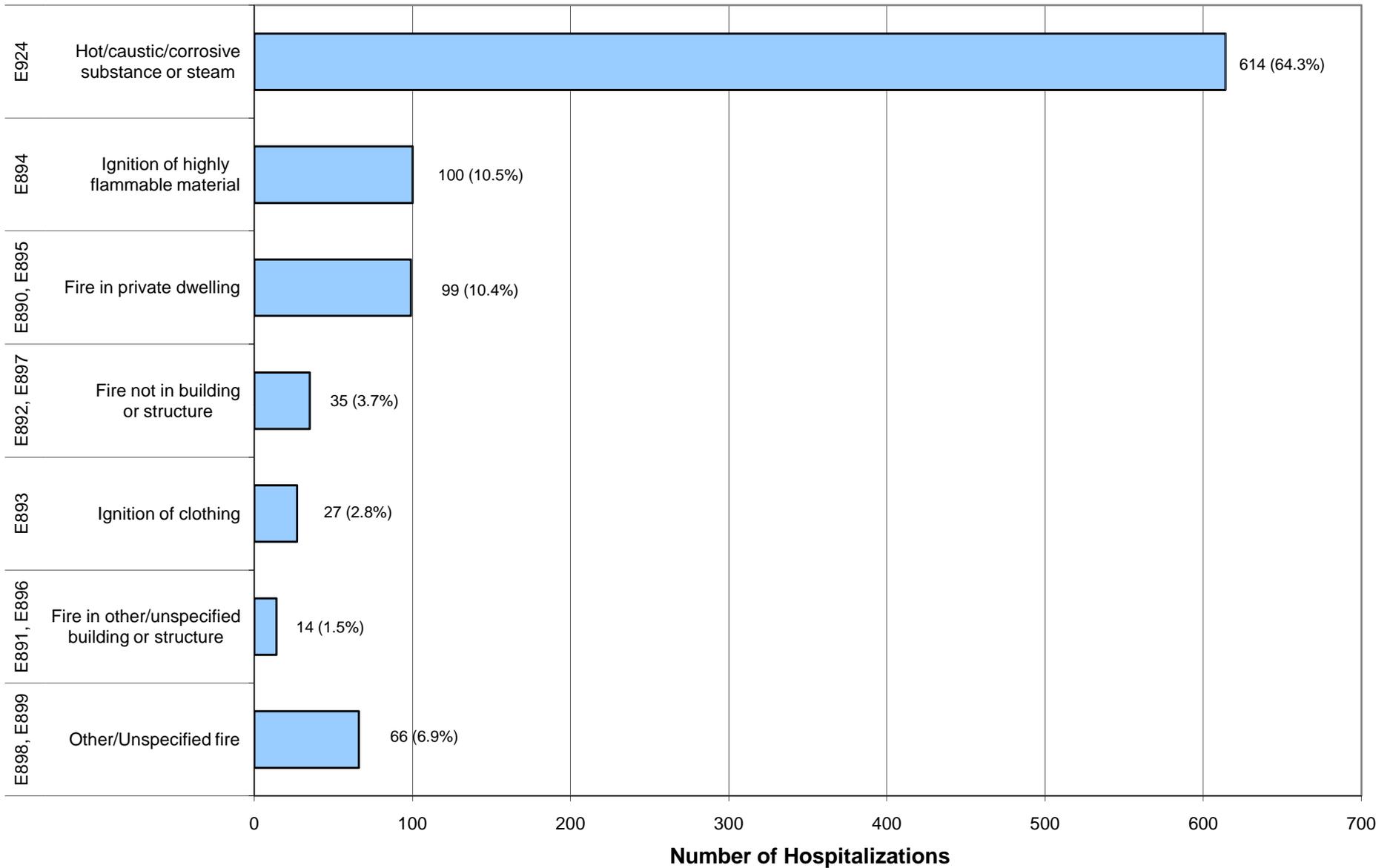


Age-Adjusted Fall Hospitalization Rates by Sex, Race/Ethnicity & County of Residence

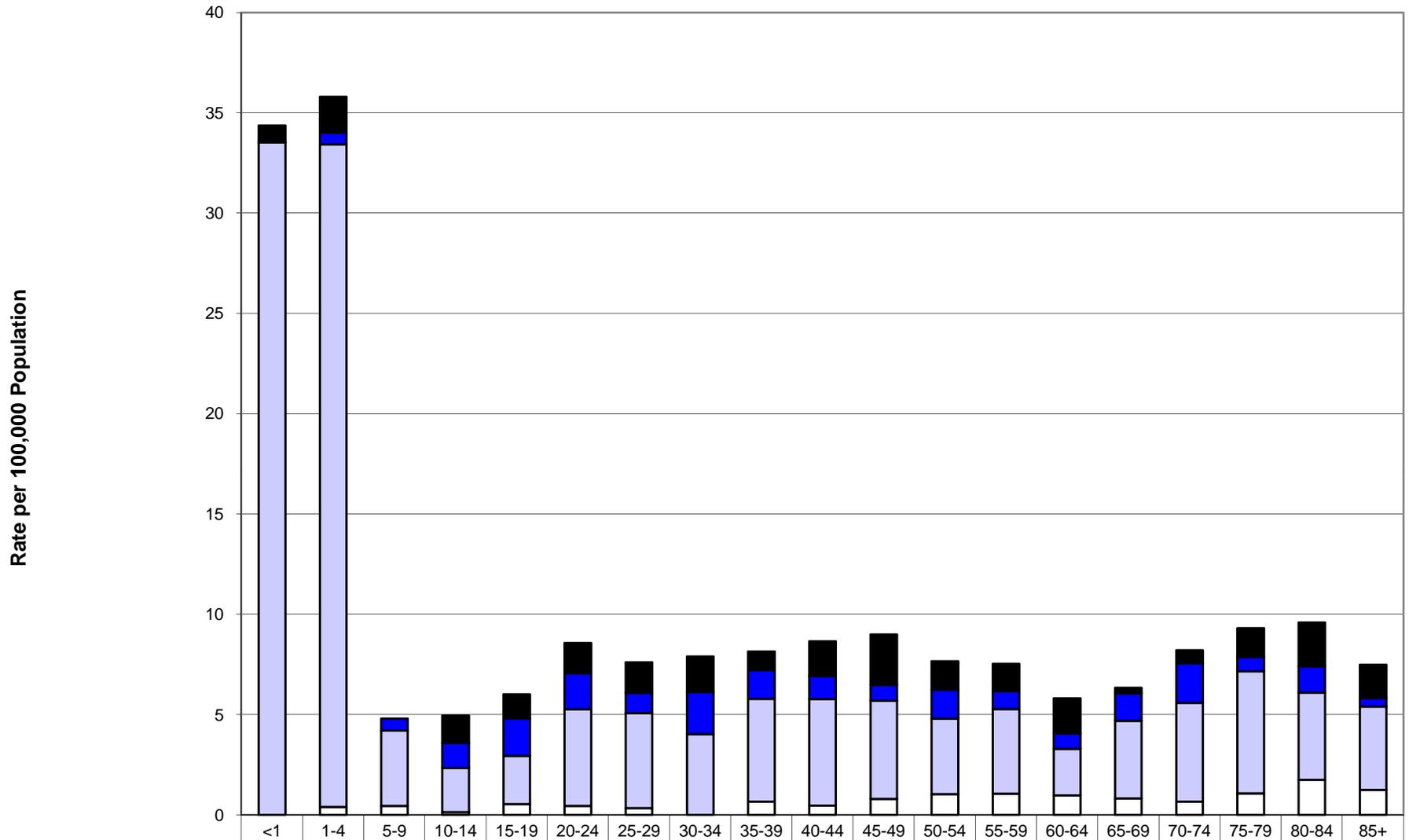
Connecticut Residents, 2005 - 2007



Unintentional Fire / Burn* Hospitalizations by Mechanism
Connecticut Residents, 2005 - 2007
 (n = 955; average = 318/year)

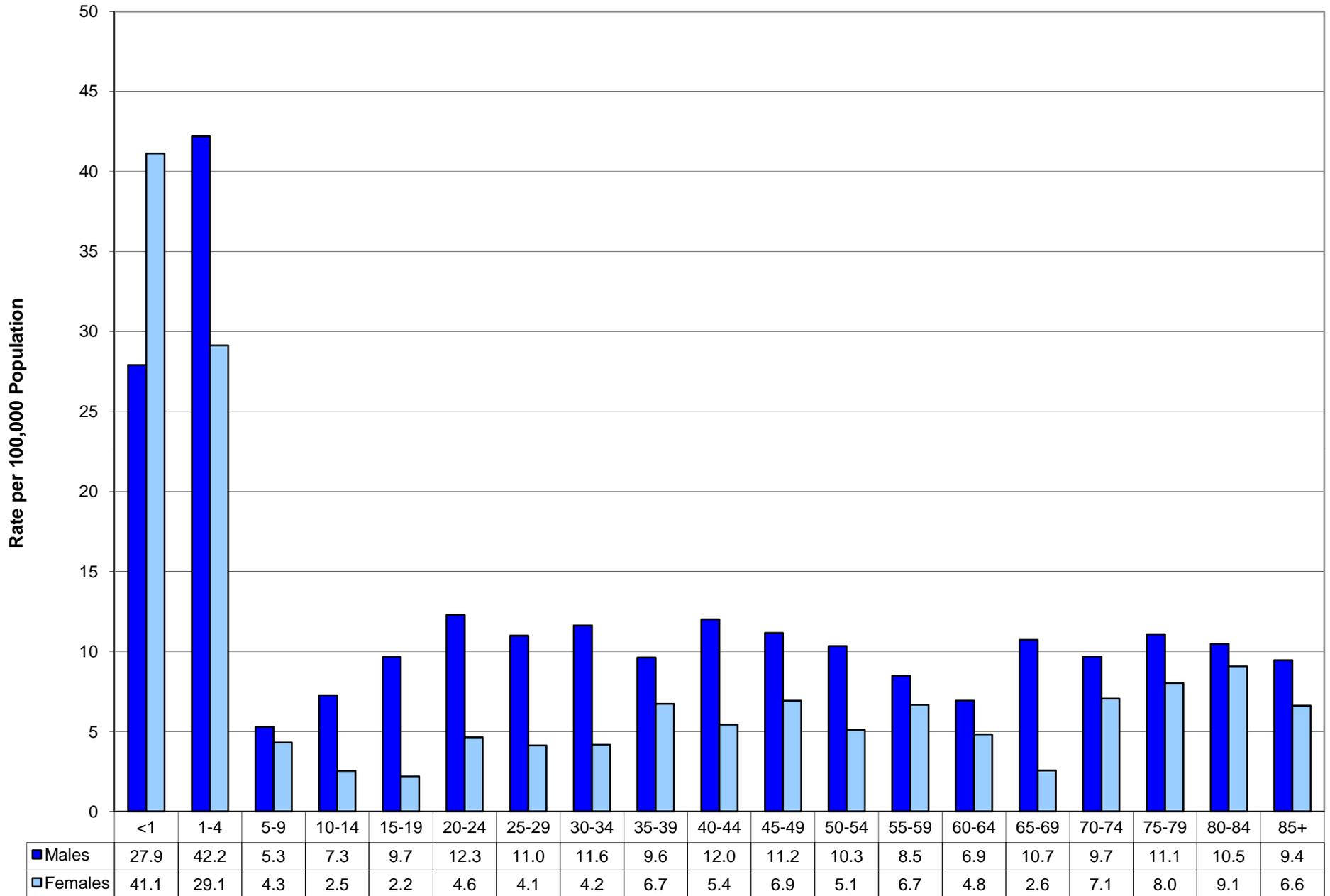


Fire / Burn Hospitalization Rates by Mechanism & Age Connecticut Residents, 2005 - 2007

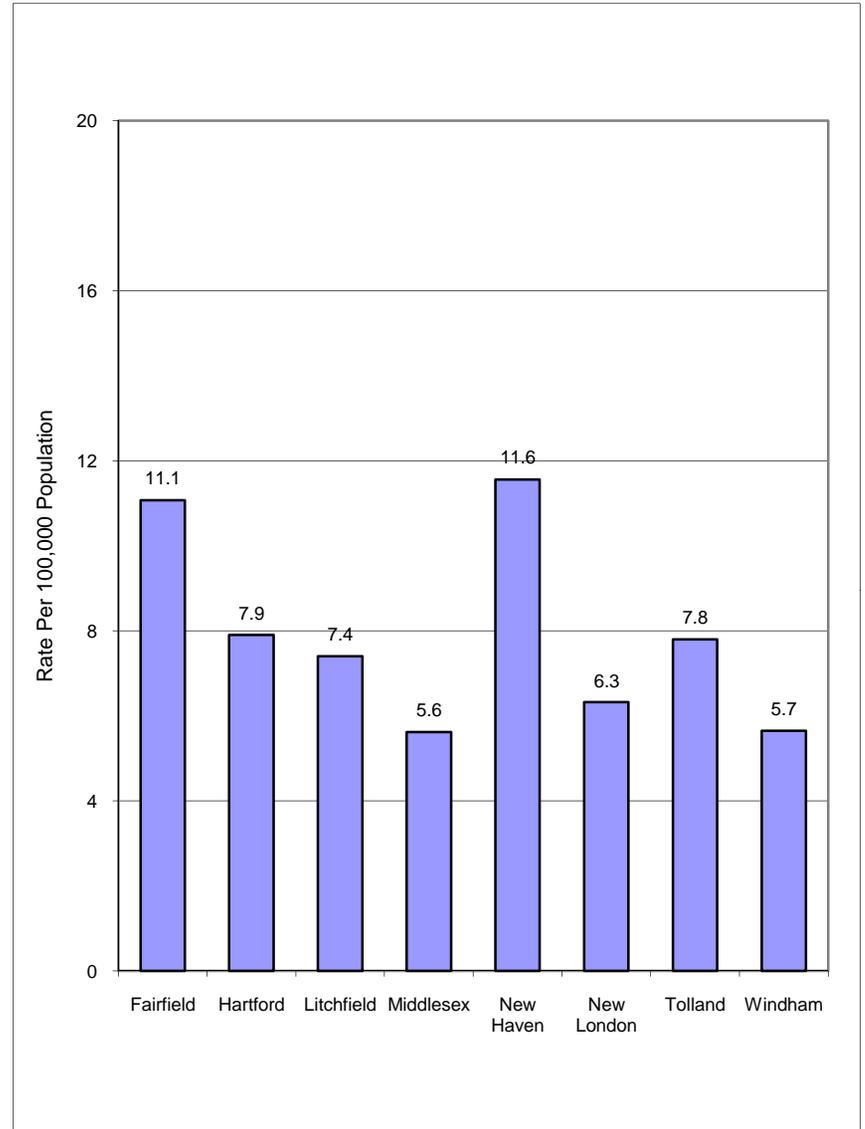
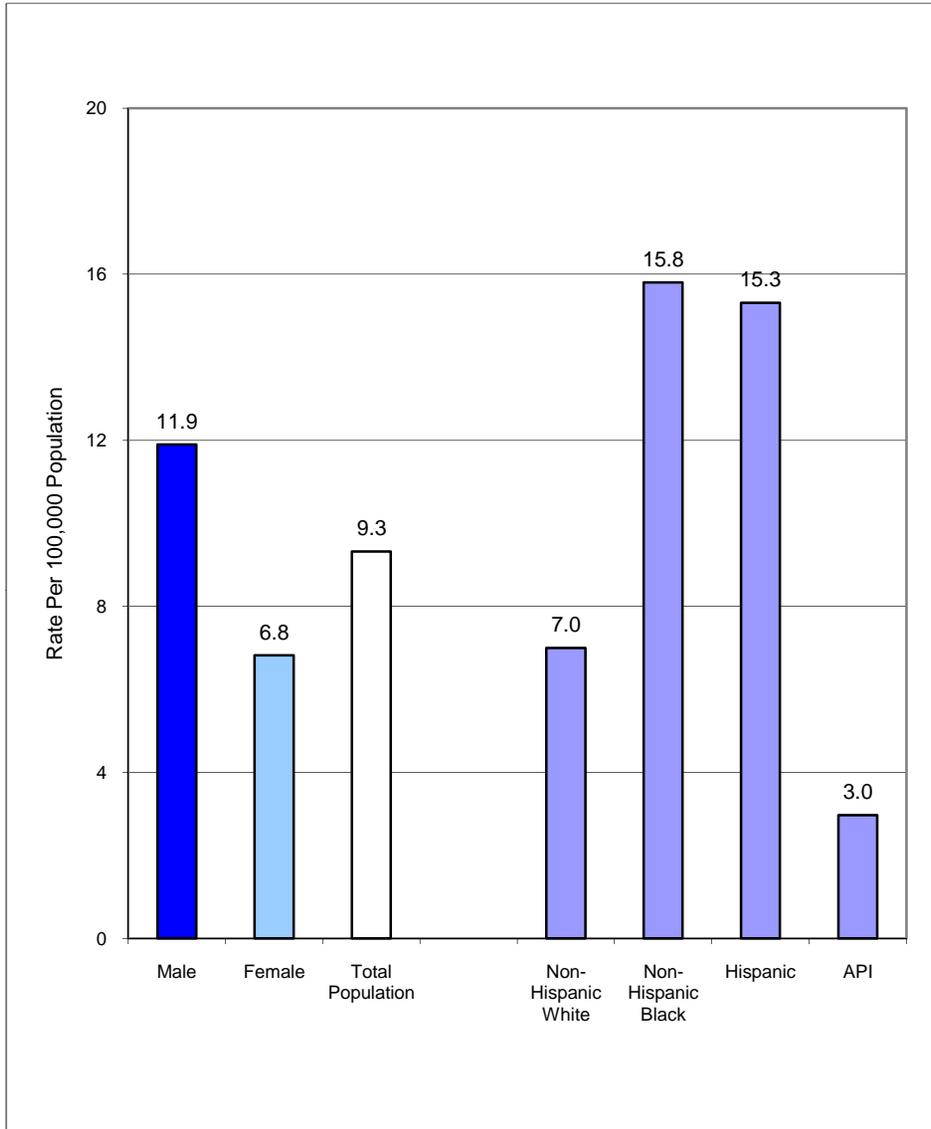


	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
■ Conflagration (n = 240)	0.8	1.8	0.0	1.4	1.2	1.5	1.5	1.8	0.9	1.7	2.5	1.4	1.4	1.7	0.3	0.7	1.4	2.2	1.7
■ Clothing/other flammables (n = 174)	0.0	0.6	0.6	1.2	1.9	1.8	1.0	2.1	1.4	1.2	0.8	1.4	0.9	0.8	1.4	2.0	0.7	1.3	0.4
■ Hot/caustic/corrosives (n = 819)	33.5	33.0	3.8	2.2	2.4	4.8	4.7	4.0	5.1	5.3	4.9	3.8	4.2	2.3	3.9	4.9	6.1	4.4	4.2
□ Other/Unspecified fire (n = 96)	0.0	0.4	0.5	0.1	0.5	0.5	0.3	0.0	0.7	0.5	0.8	1.0	1.1	1.0	0.8	0.7	1.1	1.7	1.2

Fire / Burn Hospitalization Rates By Age & Sex Connecticut Residents, 2005 - 2007



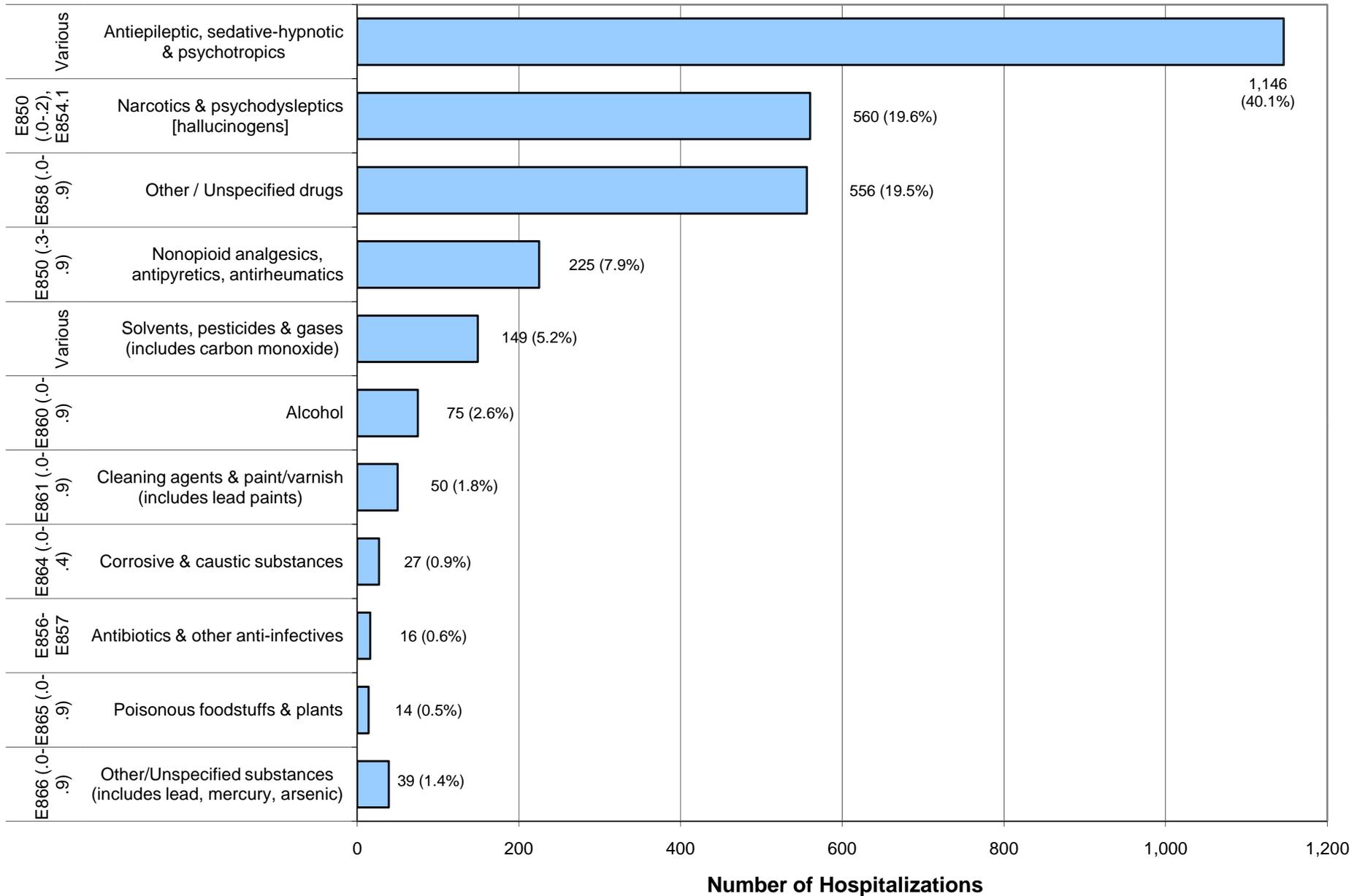
Age-Adjusted Fire / Burn Hospitalization Rates by Sex, Race/Ethnicity & County of Residence Connecticut Residents, 2005 - 2007



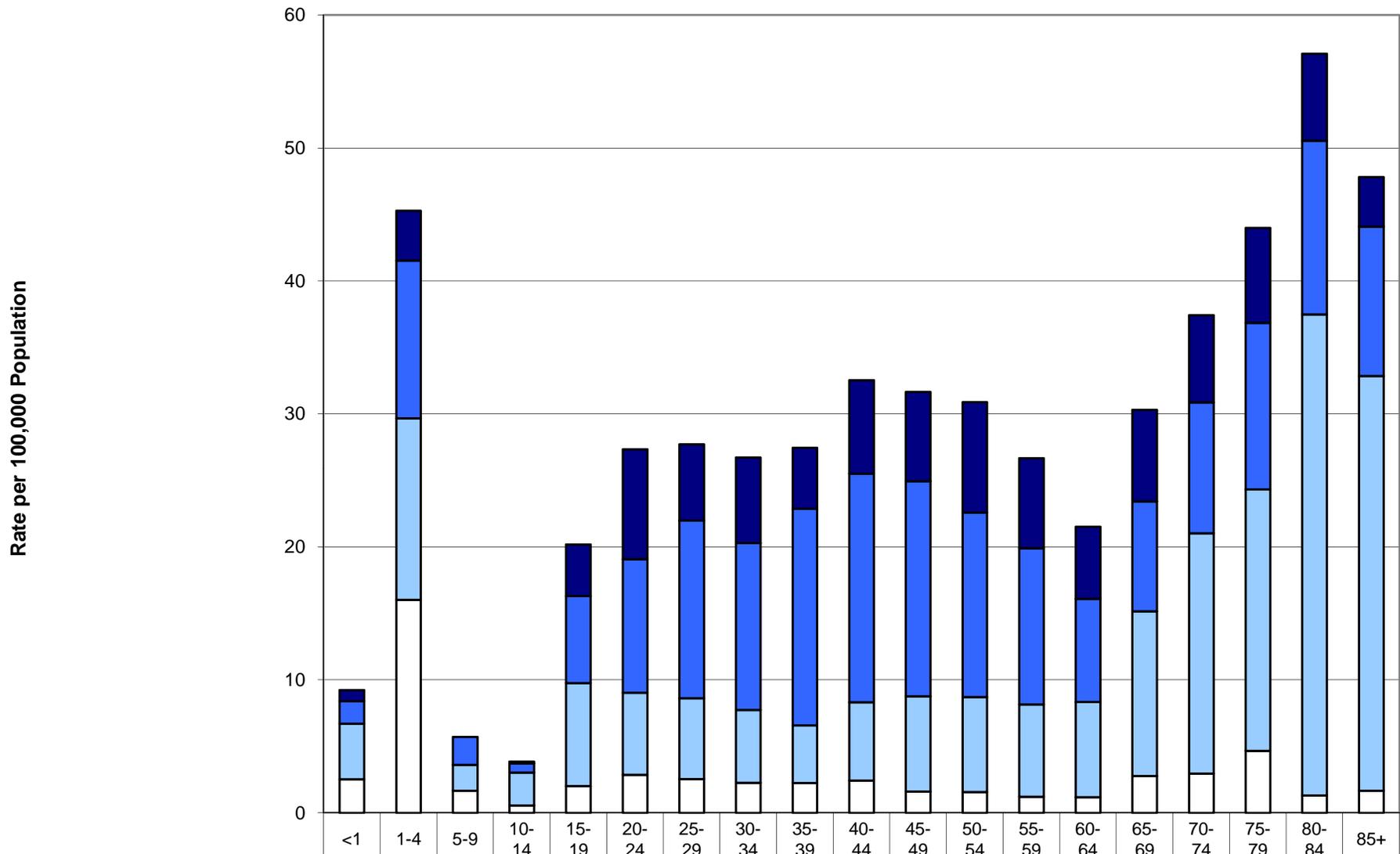
Unintentional Poisoning* Hospitalizations by Mechanism

Connecticut Residents, 2005 - 2007

(n = 2,857; average = 952/year)

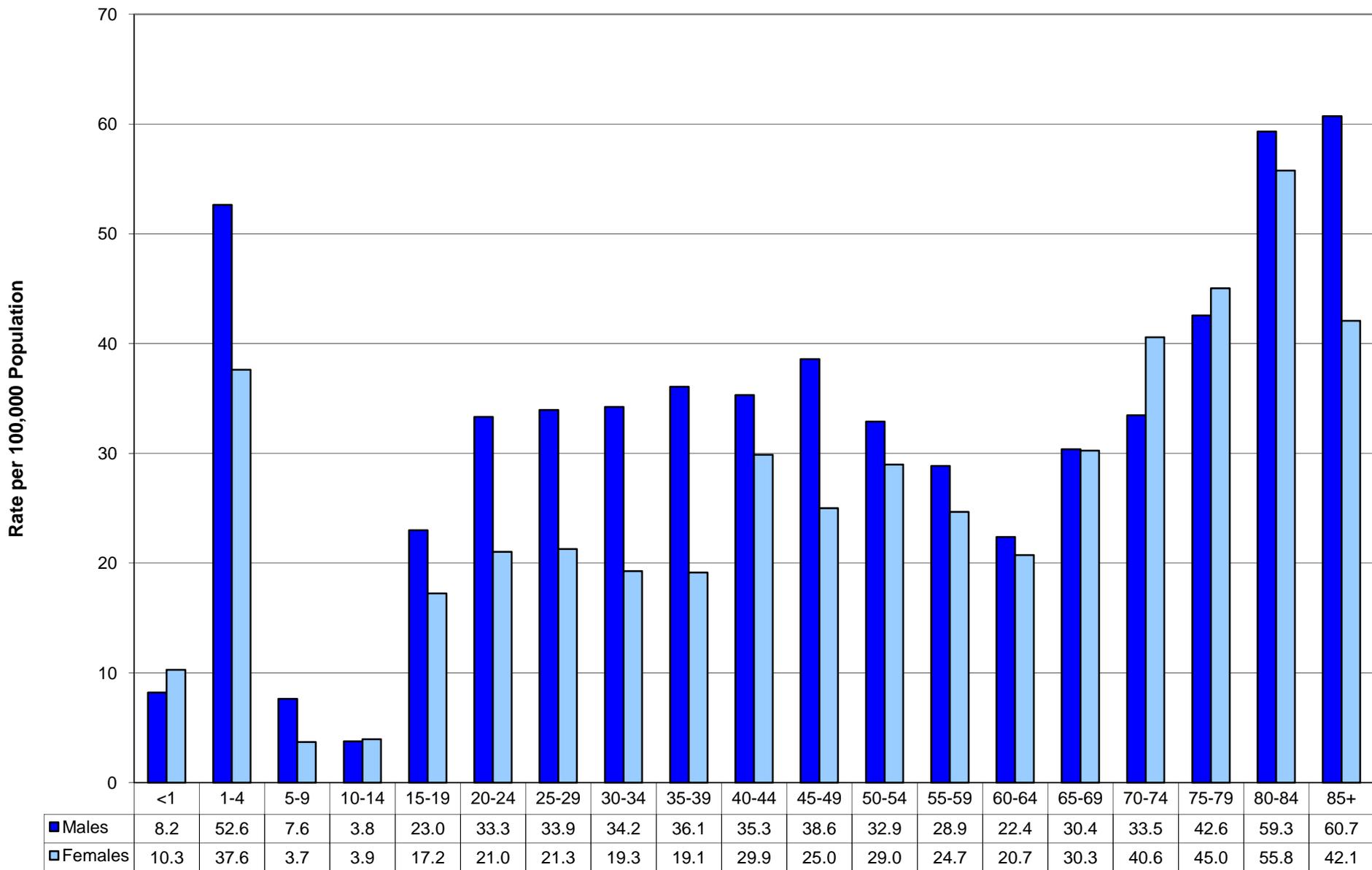


Poisoning Hospitalization Rates by Mechanism & Age Connecticut Residents, 2005 - 2007

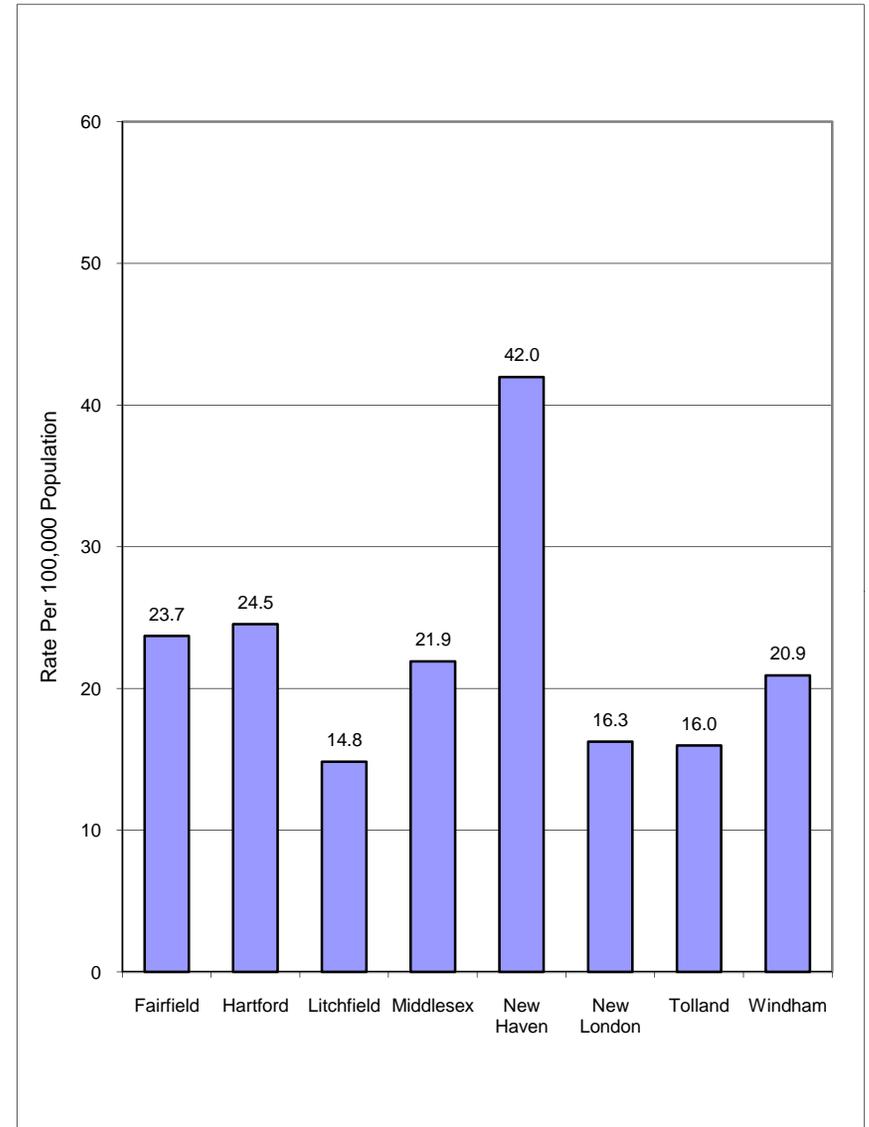
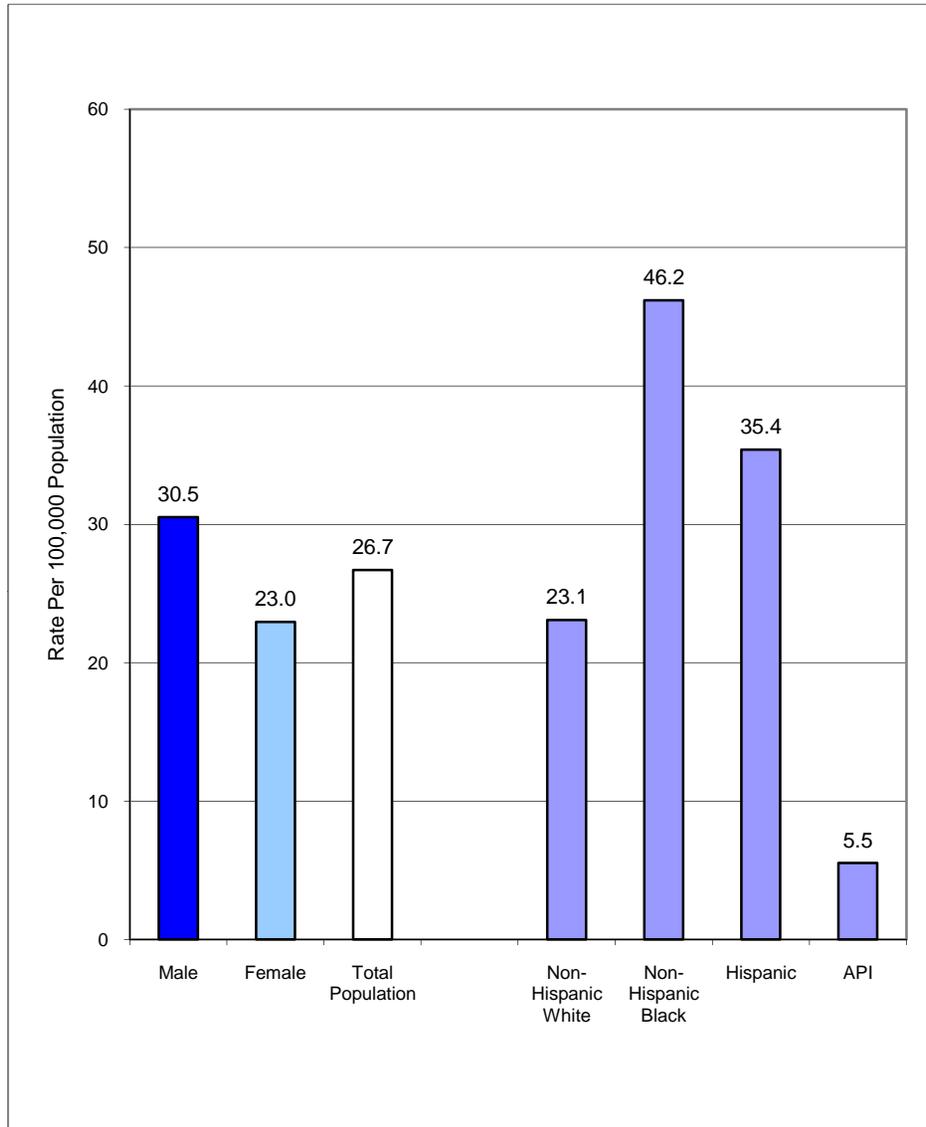


	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
■ Narcotics & psychodysleptics (n = 626)	0.8	3.8	0.0	0.1	3.9	8.3	5.7	6.4	4.6	7.0	6.7	8.3	6.8	5.4	6.9	6.6	7.2	6.5	3.7
■ Antiepileptics, psychotropics (n = 1,224)	1.7	11.9	2.1	0.7	6.5	10.1	13.4	12.6	16.3	17.2	16.2	13.9	11.8	7.8	8.3	9.9	12.5	13.1	11.2
■ All other drugs & alcohol (n = 1,207)	4.2	13.6	2.0	2.5	7.7	6.2	6.1	5.5	4.3	5.9	7.2	7.1	6.9	7.2	12.4	18.1	19.7	36.2	31.2
□ Gases & Other/Unspec substances (n = 380)	2.5	16.0	1.7	0.6	2.0	2.9	2.5	2.3	2.2	2.4	1.6	1.6	1.2	1.2	2.8	3.0	4.7	1.3	1.7

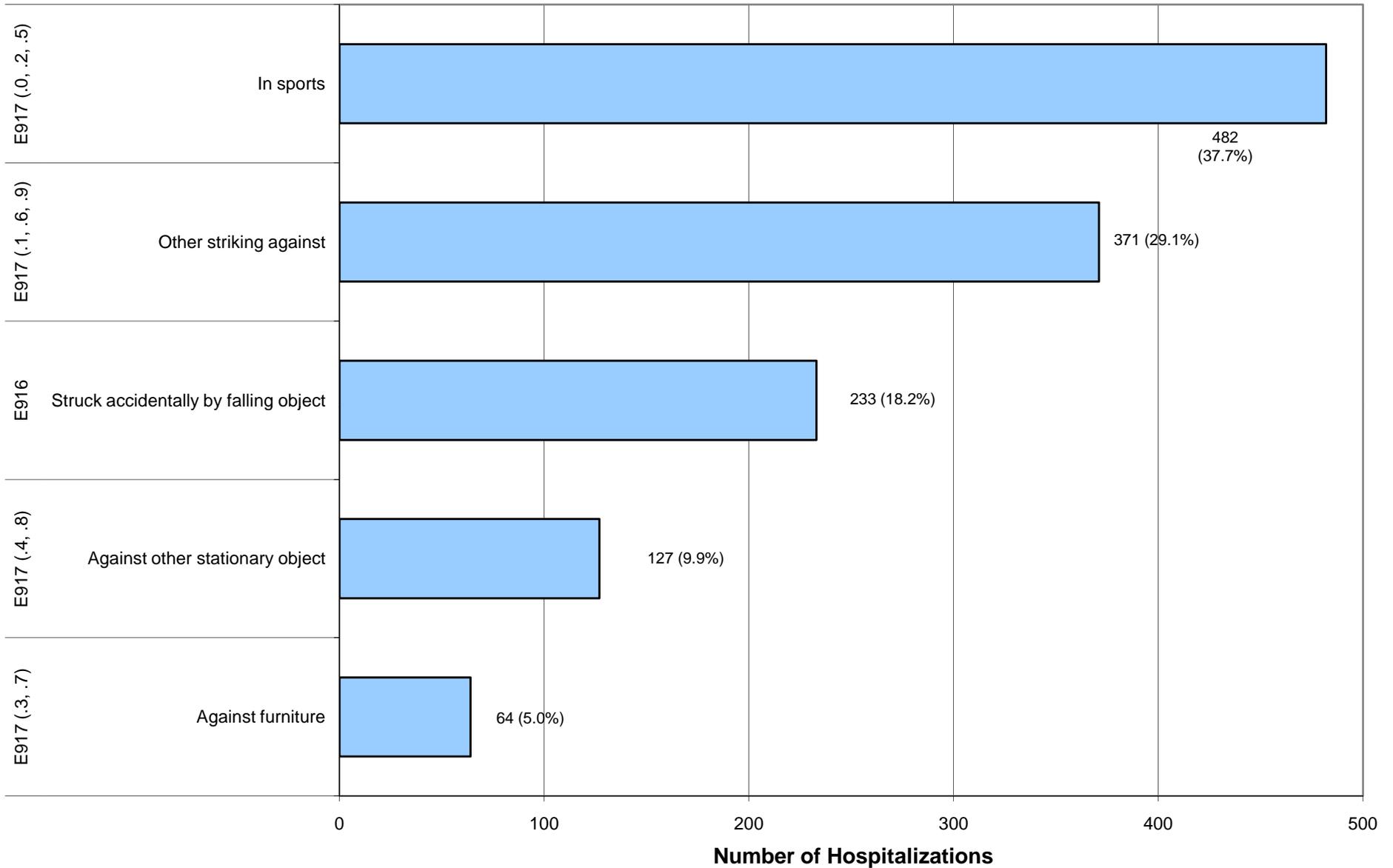
Poisoning Hospitalization Rates By Age & Sex Connecticut Residents, 2005 - 2007



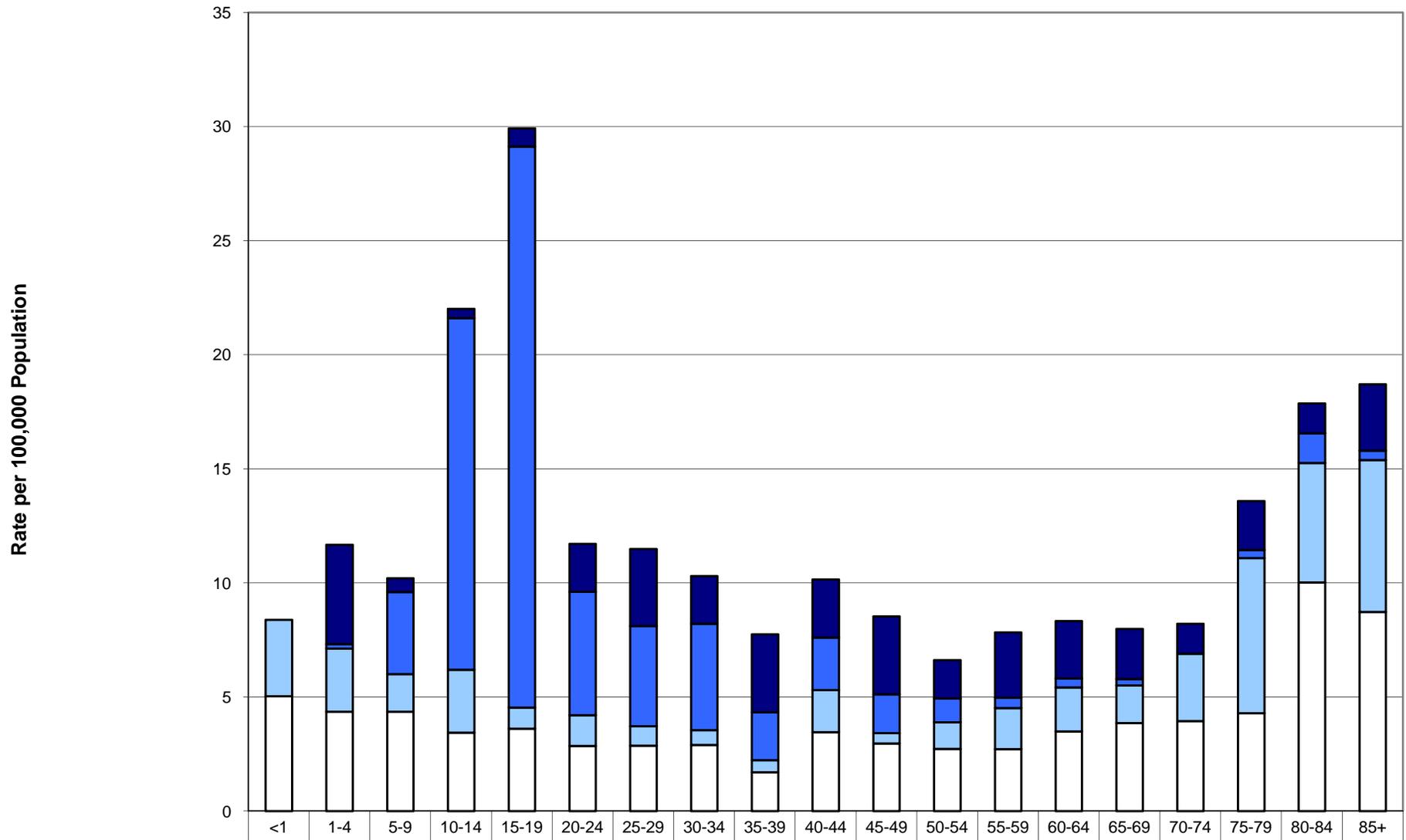
Age-Adjusted Poisoning Hospitalization Rates by Sex, Race/Ethnicity & County of Residence Connecticut Residents, 2005 - 2007



Unintentional Struck by / Against Hospitalizations by Mechanism
Connecticut Residents, 2005 - 2007
 (n = 1,277; average = 426/year)

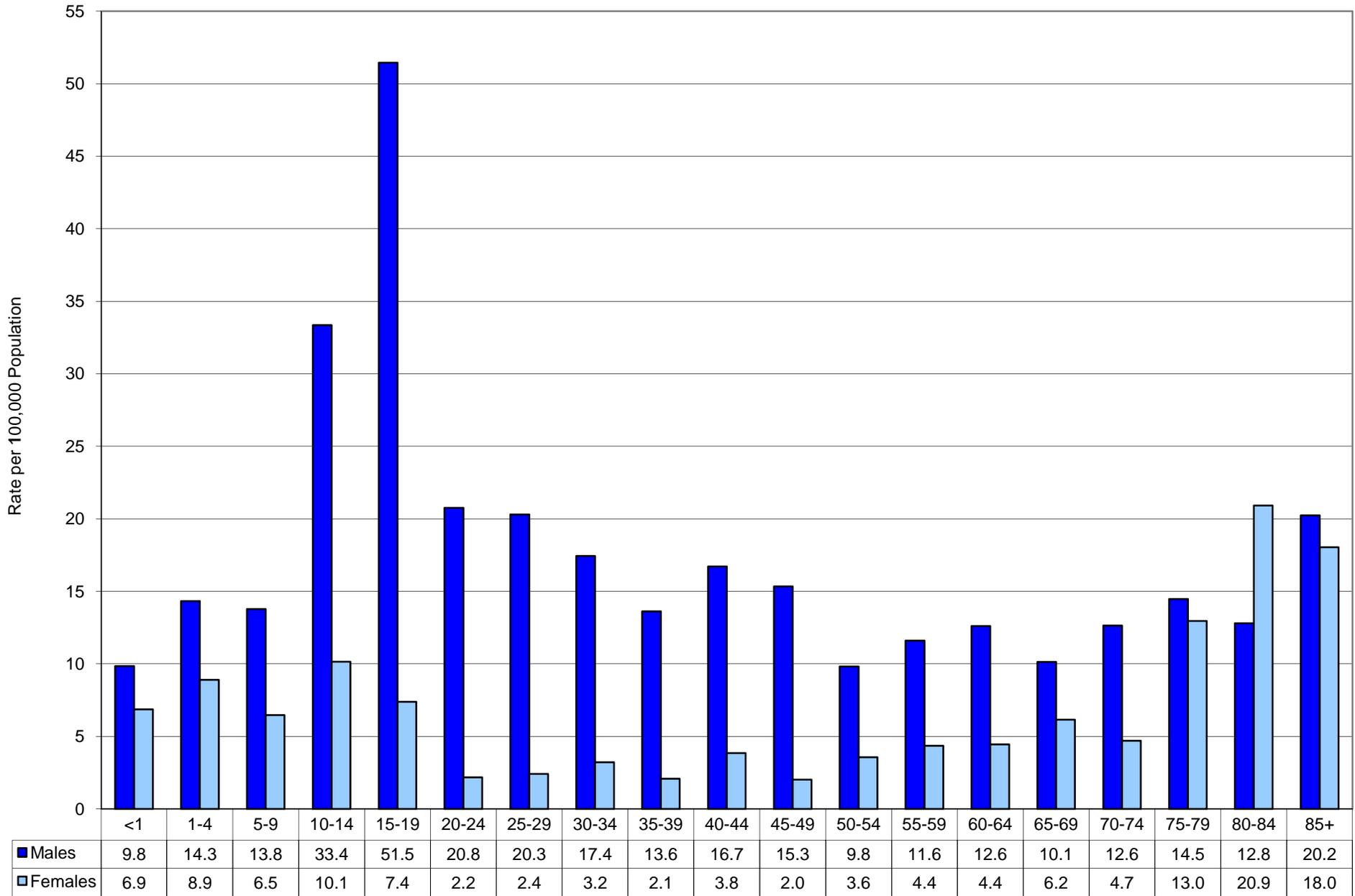


Struck by / Against Hospitalization Rates by Mechanism & Age Connecticut Residents, 2005 - 2007

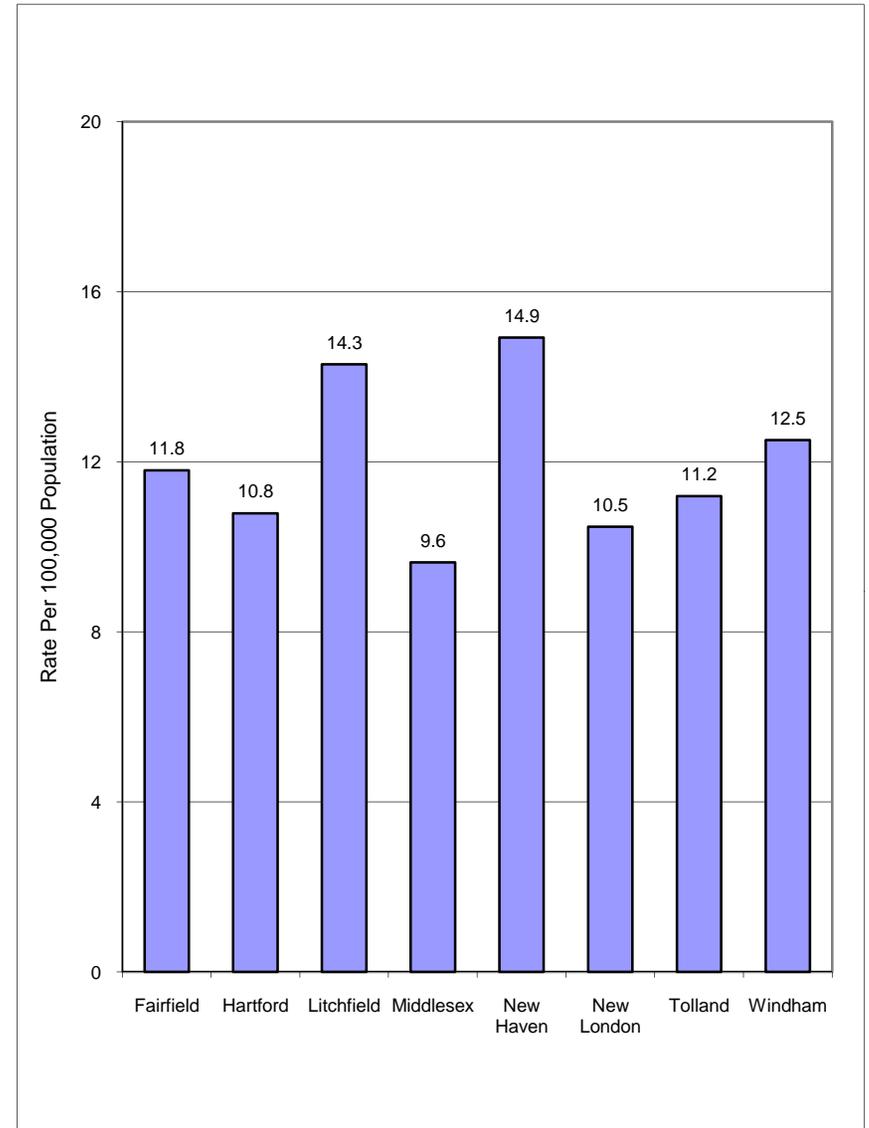
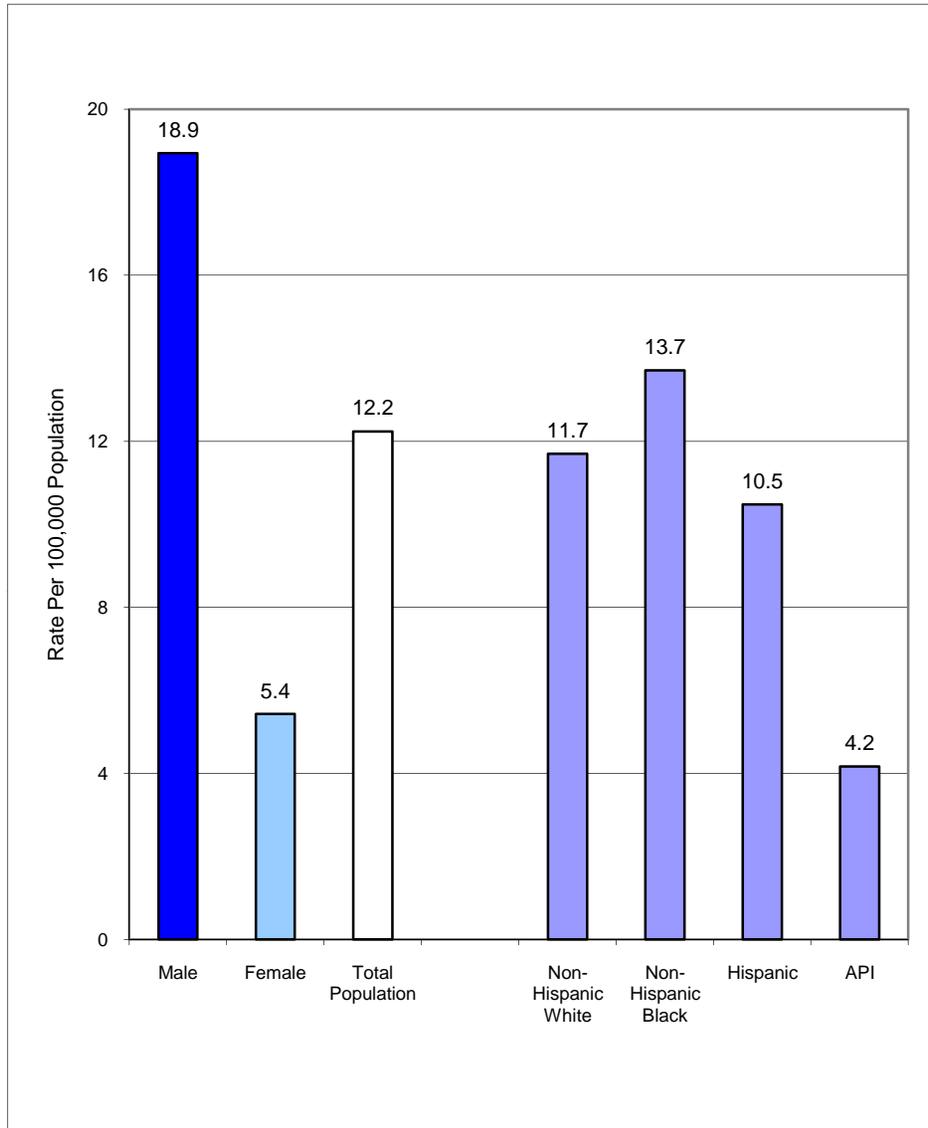


■ Struck by falling object (n = 233)	0.0	4.4	0.6	0.4	0.8	2.1	3.4	2.1	3.4	2.5	3.4	1.7	2.9	2.5	2.2	1.3	2.1	1.3	2.9
■ In sports (n = 482)	0.0	0.2	3.6	15.4	24.6	5.4	4.4	4.7	2.1	2.3	1.7	1.0	0.5	0.4	0.3	0.0	0.4	1.3	0.4
■ Against furniture/other object (n = 191)	3.4	2.8	1.7	2.8	0.9	1.4	0.8	0.6	0.5	1.8	0.5	1.2	1.8	1.9	1.7	3.0	6.8	5.2	6.7
□ Other striking against (n = 371)*	5.0	4.4	4.4	3.4	3.6	2.9	2.9	2.9	1.7	3.5	3.0	2.7	2.7	3.5	3.9	3.9	4.3	10.0	8.7

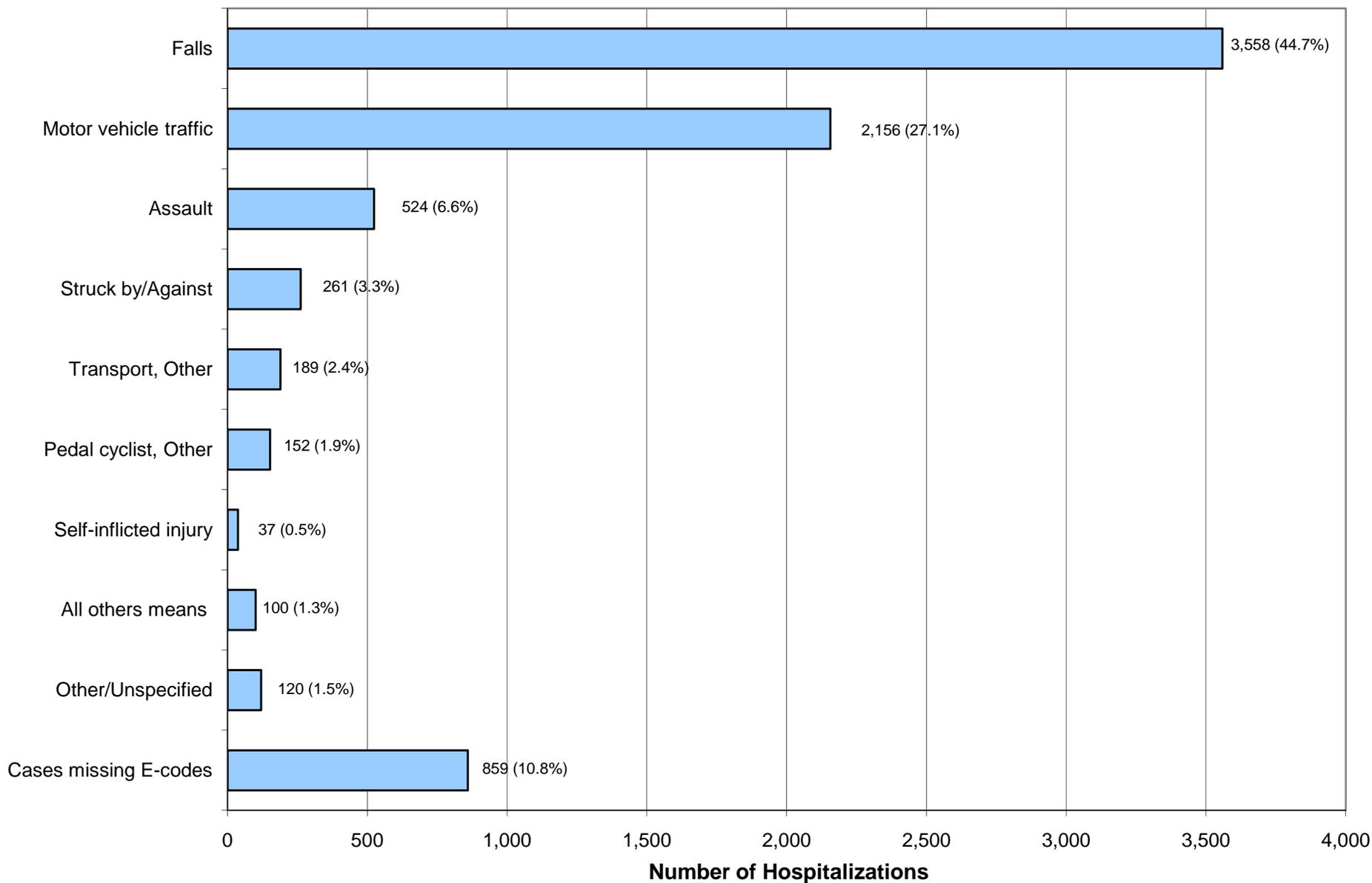
Struck by / Against Hospitalization Rates by Age & Sex Connecticut Residents, 2005 - 2007



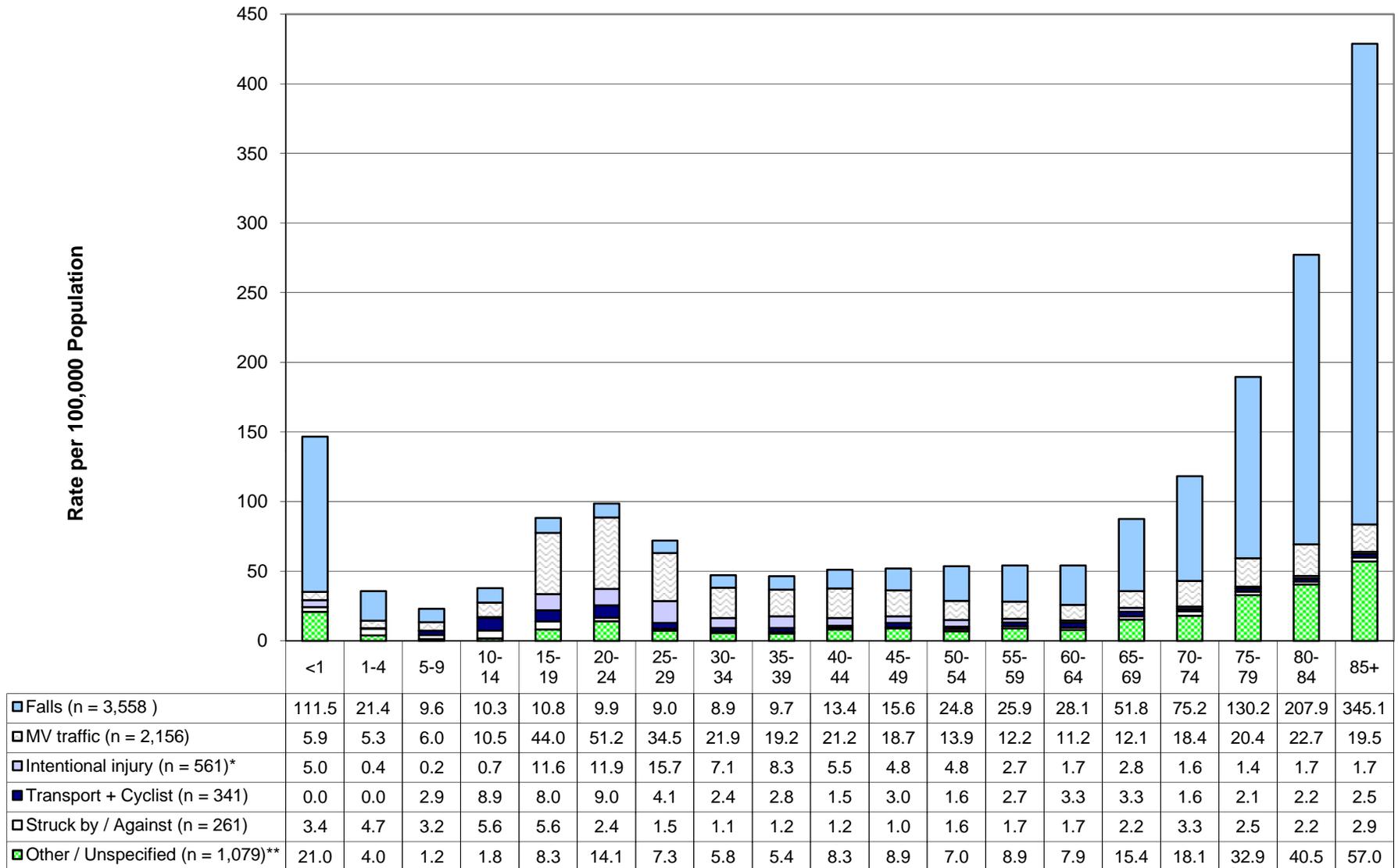
Age-Adjusted Struck by / Against Hospitalization Rates by Sex, Race/Ethnicity & County of Residence Connecticut Residents, 2005 - 2007



Traumatic Brain Injury* Hospitalizations by Mechanism
Connecticut Residents, 2005 - 2007
 (n = 7,956; average = 2,652/year)



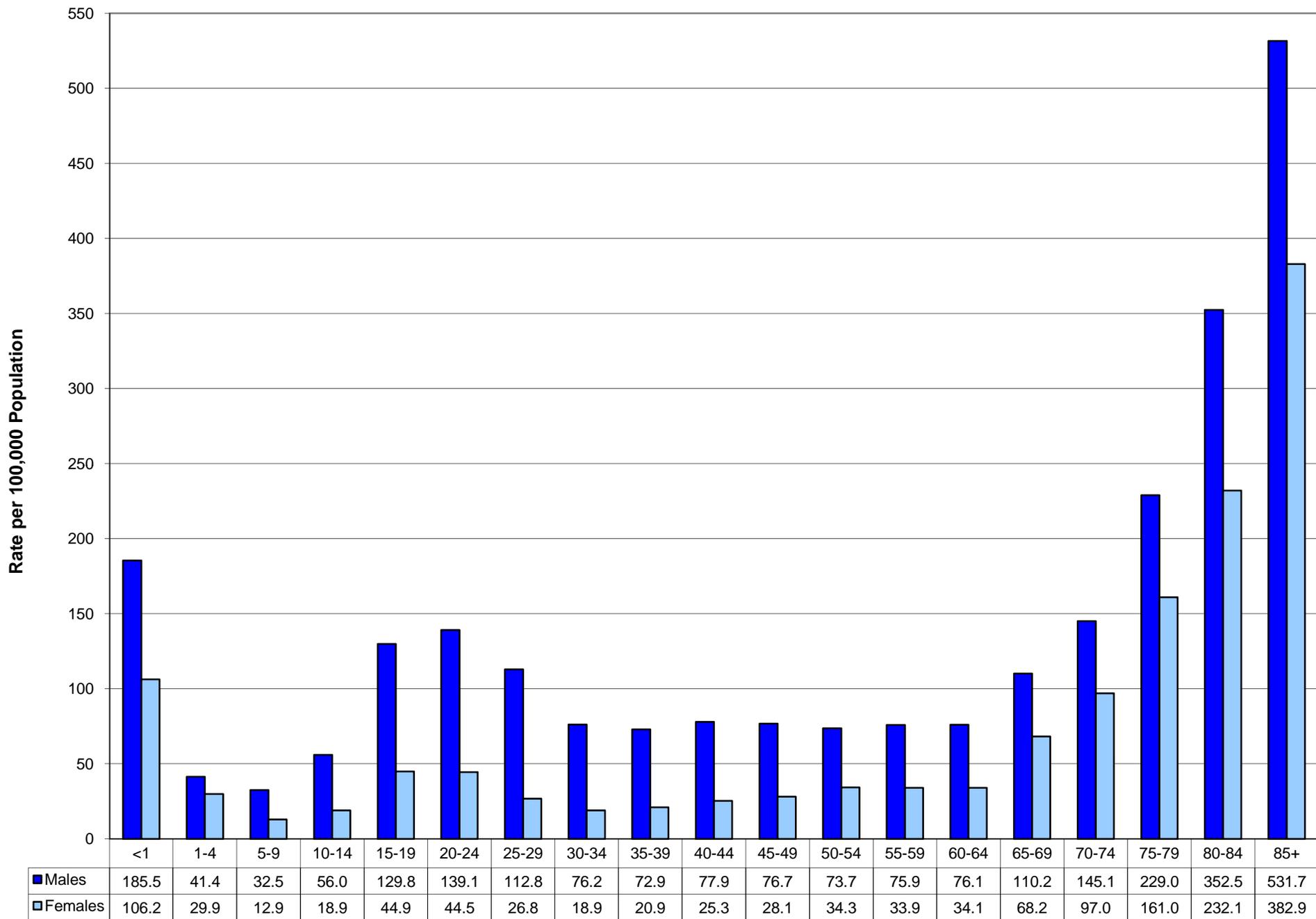
TBI Hospitalization Rates by Mechanism & Age Connecticut Residents, 2005 - 2007



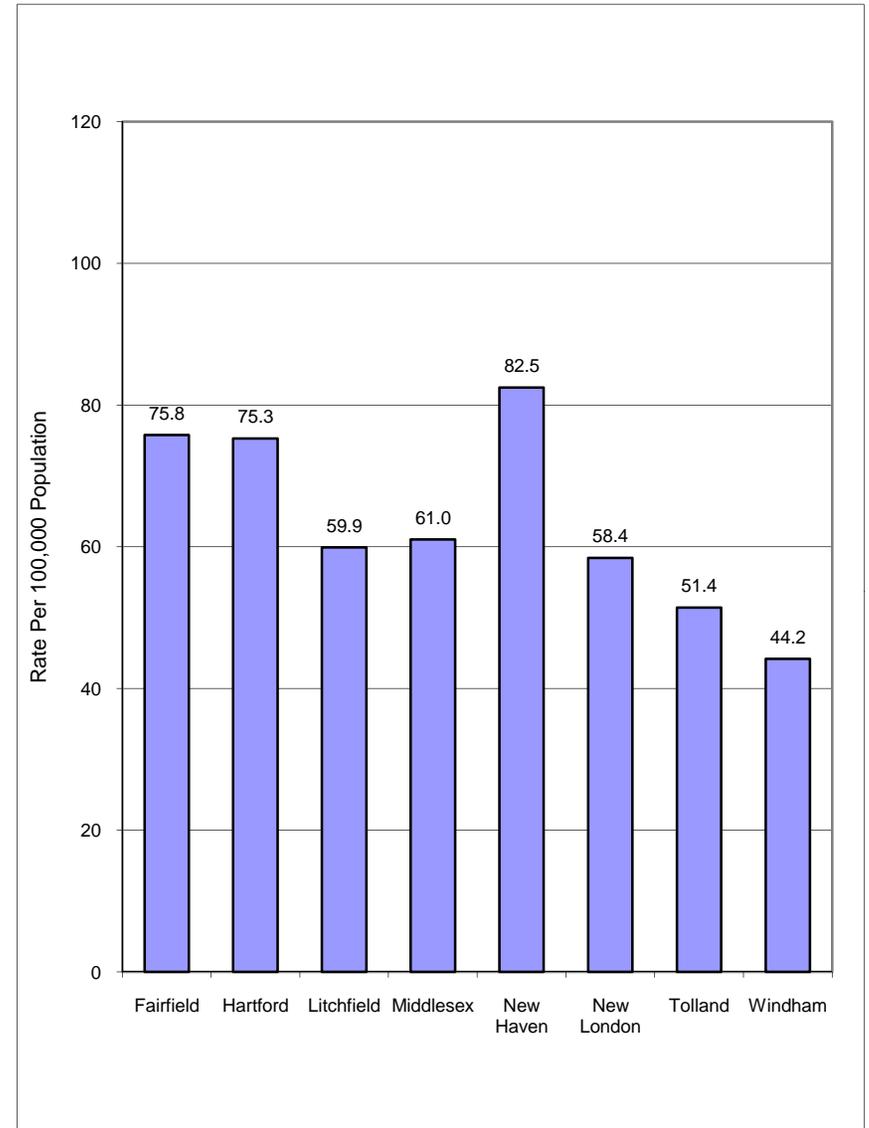
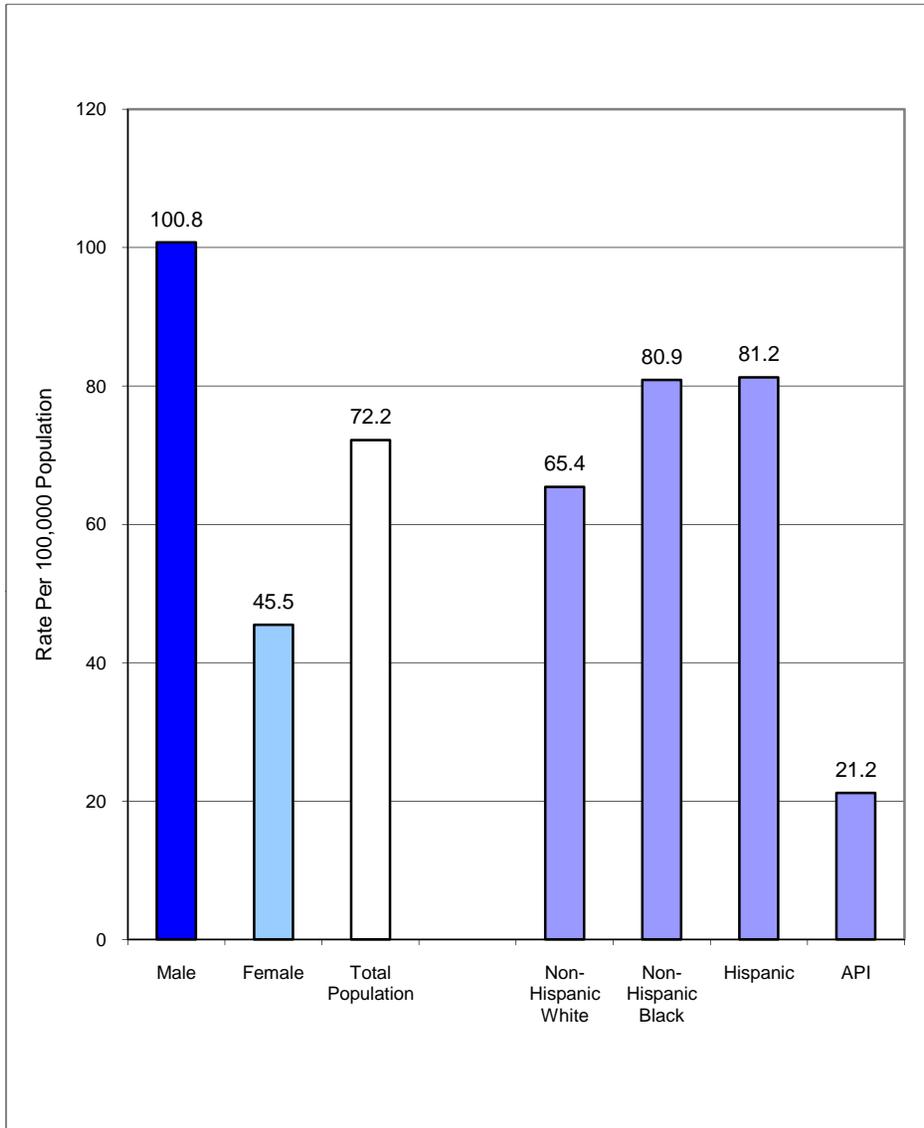
* Assault (524) + Self-Inflicted (37) = 561.

** Missing E-codes=859 + Other/Unspec=120, Firearm=9, Machinery=12, Pedestrian=23, Natural=11, Poison=10, Undetermined=24, + Cut, Fire, Overexertion, Suffocation, Legal (< 6 cases) = 1,079.

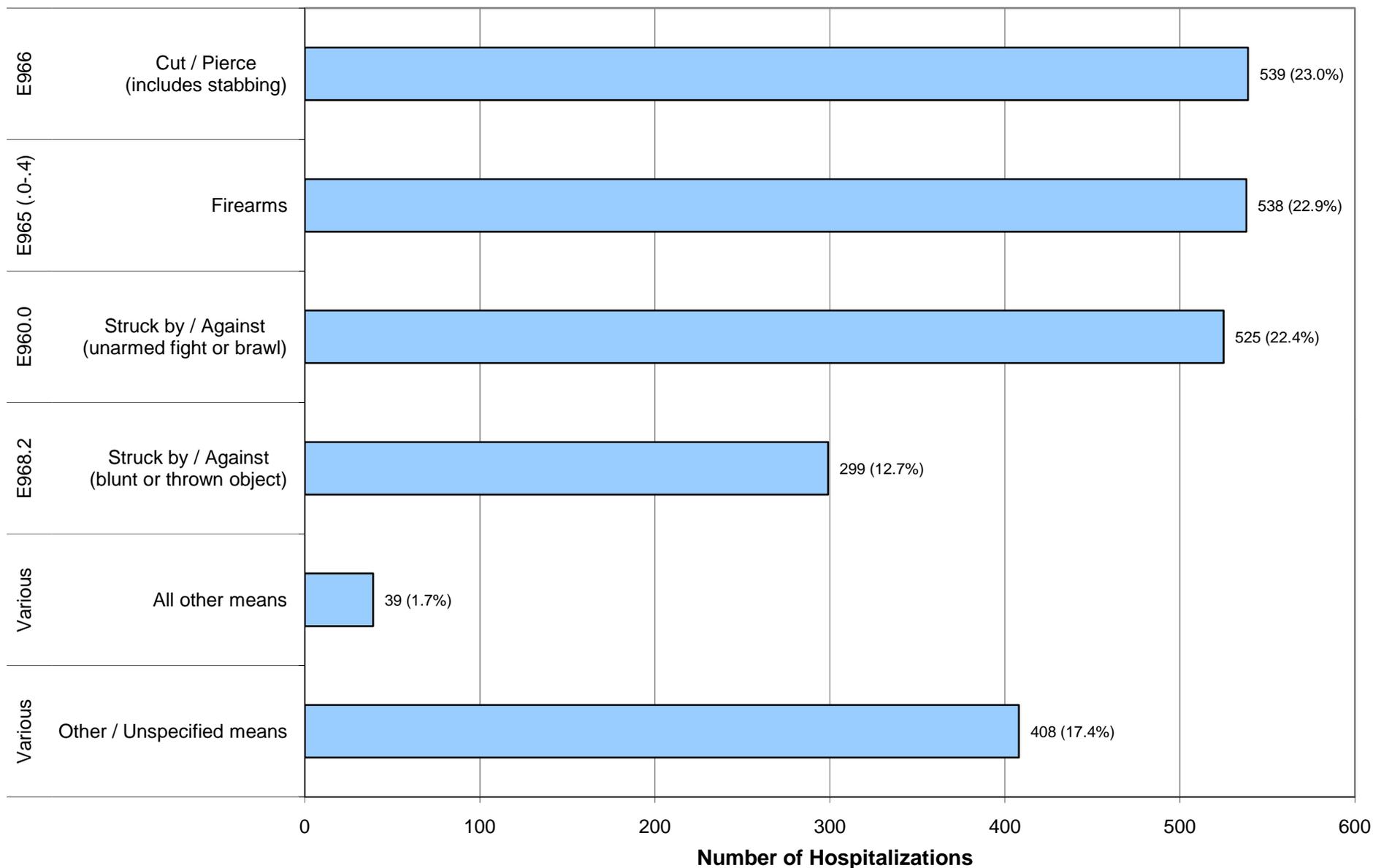
TBI Hospitalization Rates by Age & Sex Connecticut Residents, 2005 - 2007



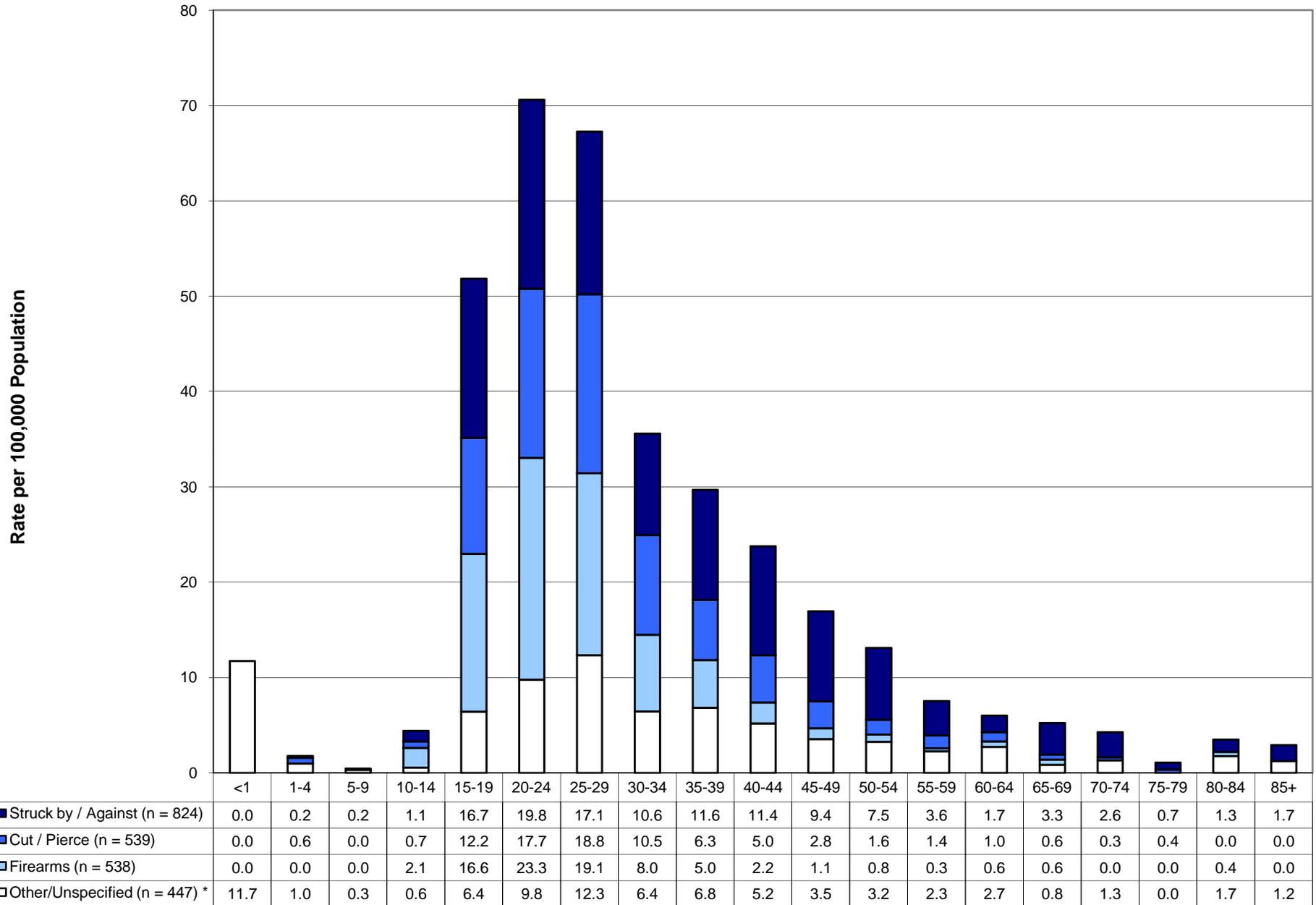
Age-Adjusted TBI Hospitalization Rates by Sex, Race/Ethnicity & County of Residence Connecticut Residents, 2005 - 2007



Assault* Hospitalizations by Mechanism
Connecticut Residents, 2005 - 2007
 (n = 2,348; average = 783/year)

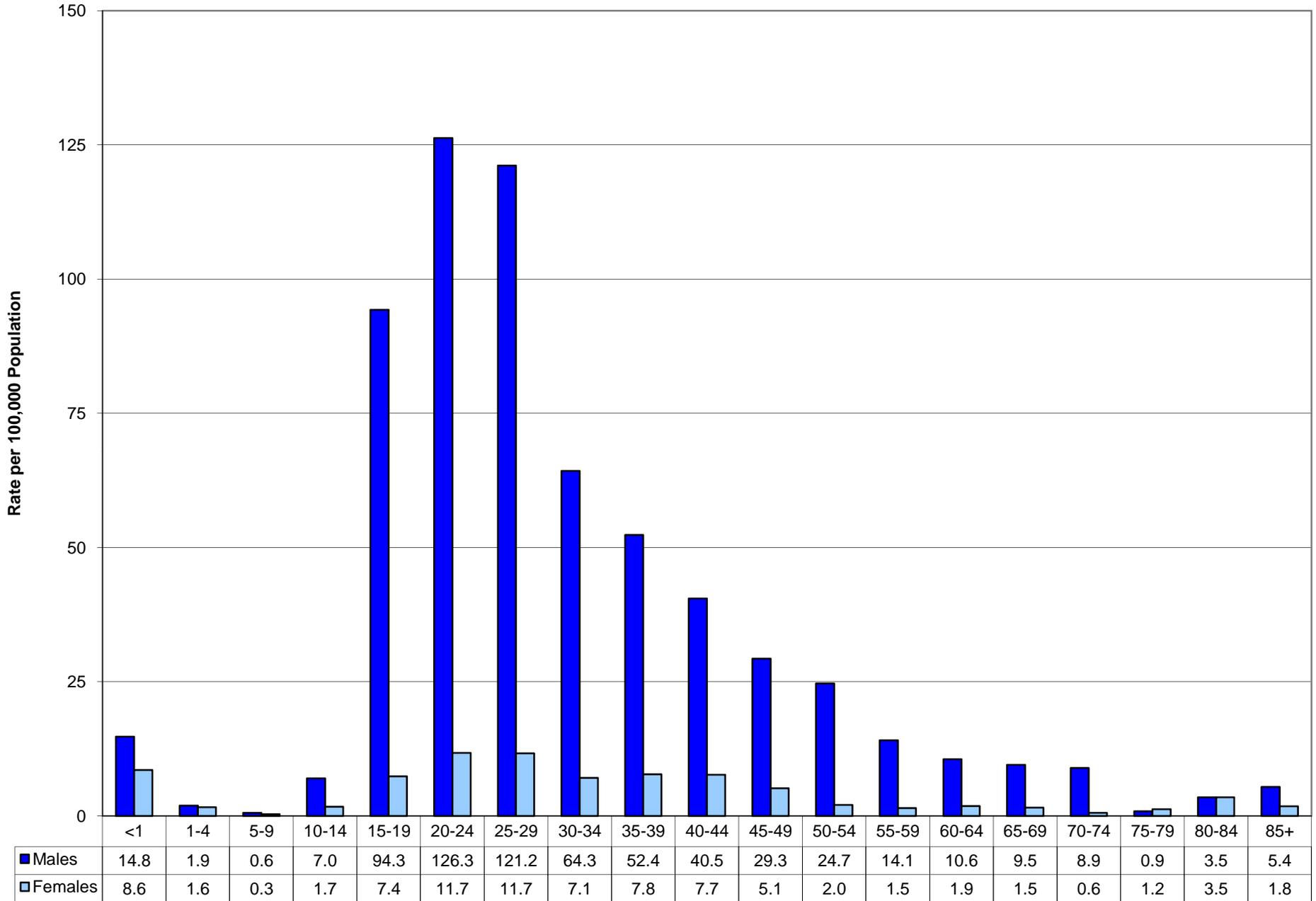


Assault Hospitalization Rates by Mechanism & Age Connecticut Residents, 2005 - 2007



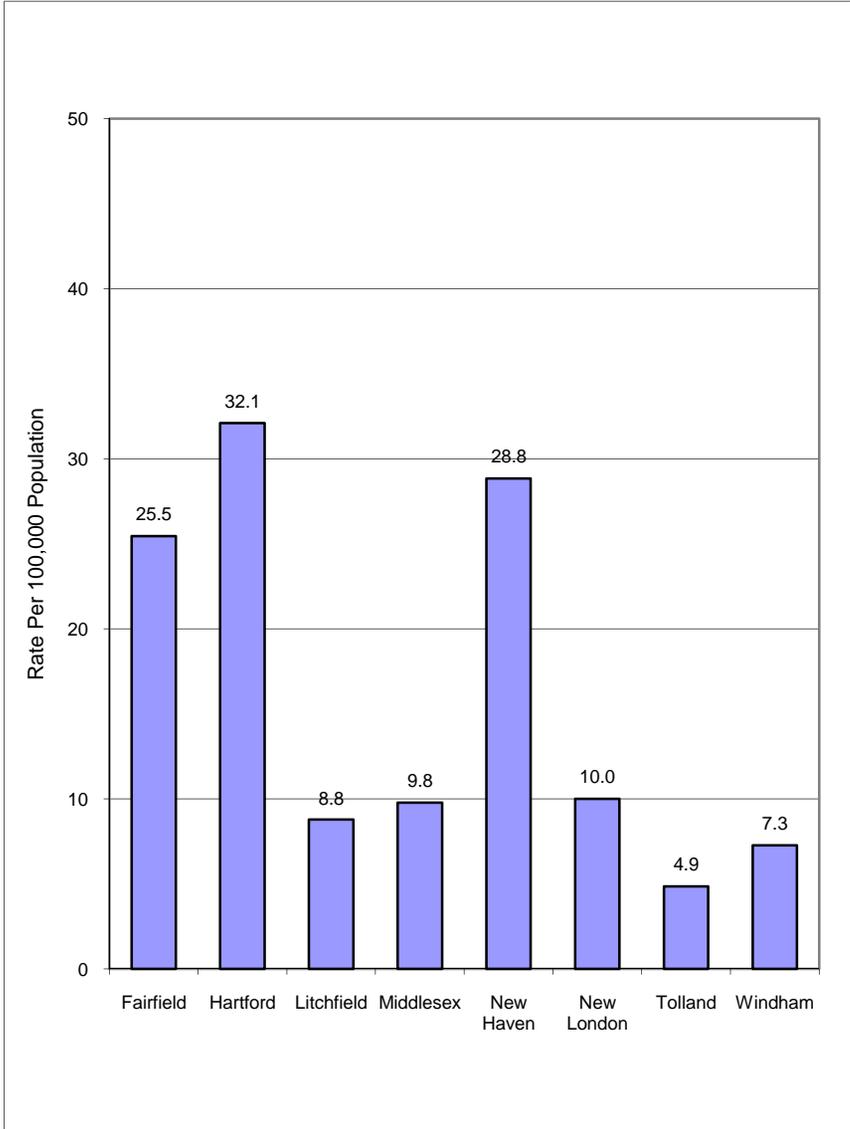
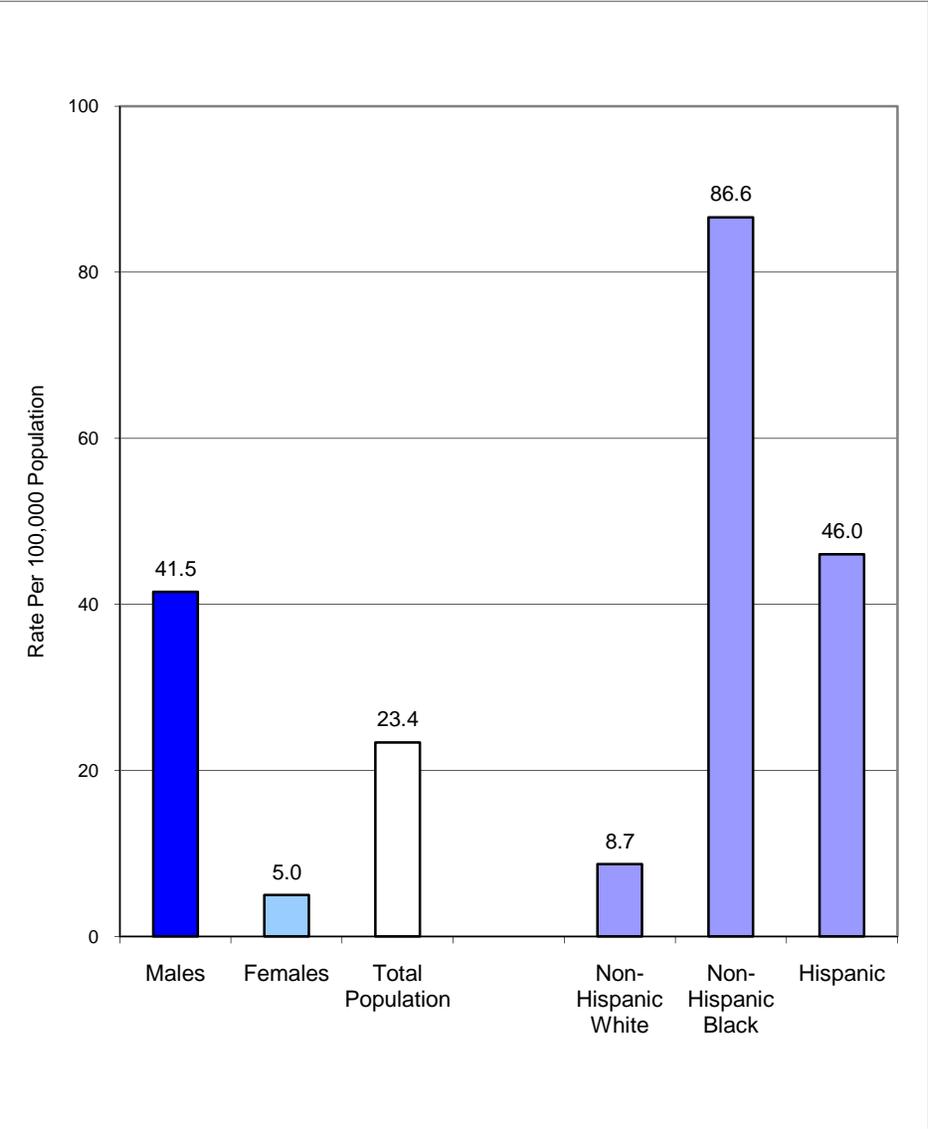
* Includes "Other/Unspecified" (408), plus all other means with < 20 cases (39):
Falls, Fire/Burns, Motor Vehicle Traffic, Poisoning and Suffocation = 447.

Assault Hospitalization Rates by Age & Sex Connecticut Residents, 2005 - 2007

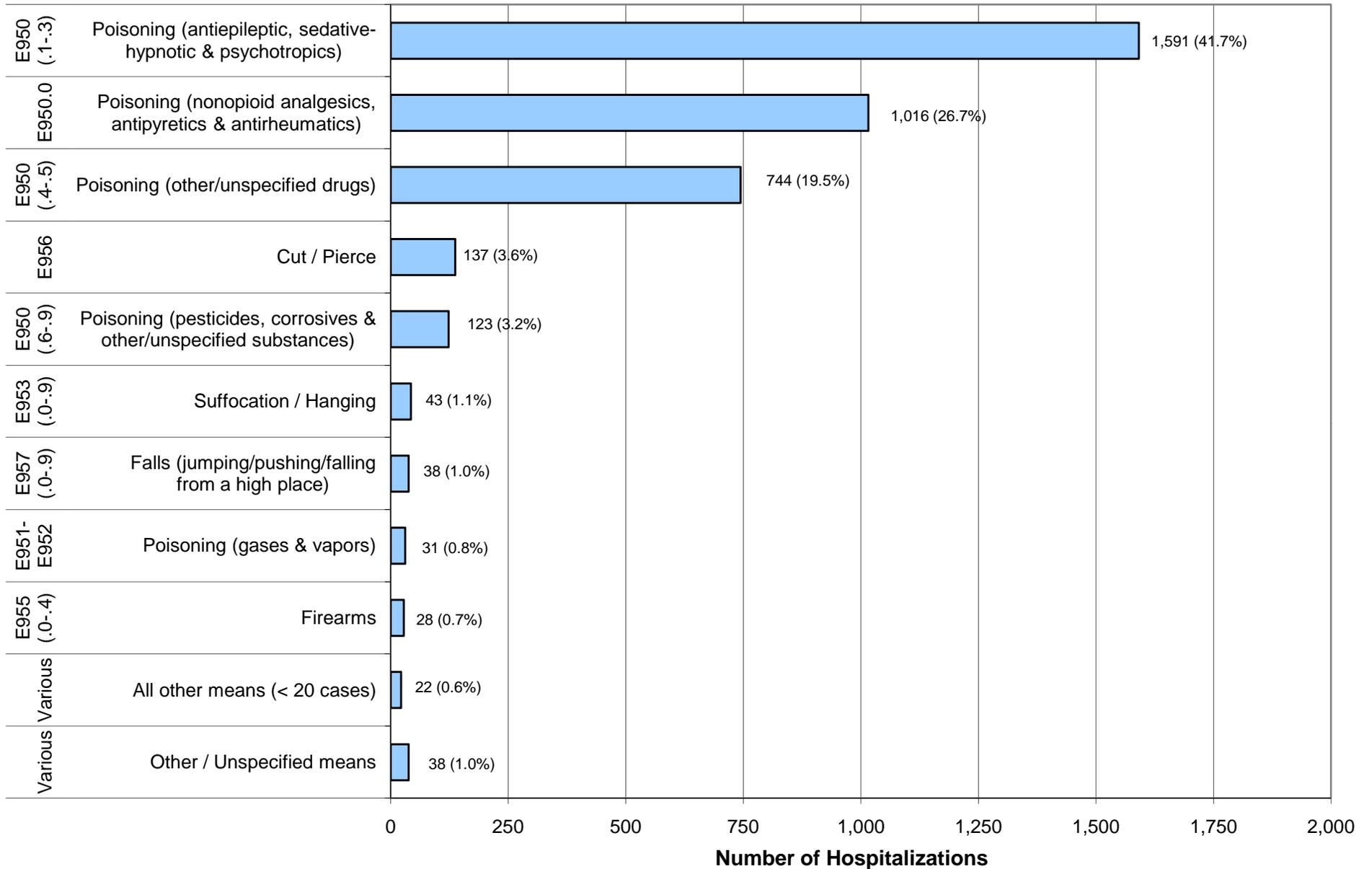


Age-Adjusted Assault Hospitalization Rates by Sex, Race/Ethnicity & County of Residence

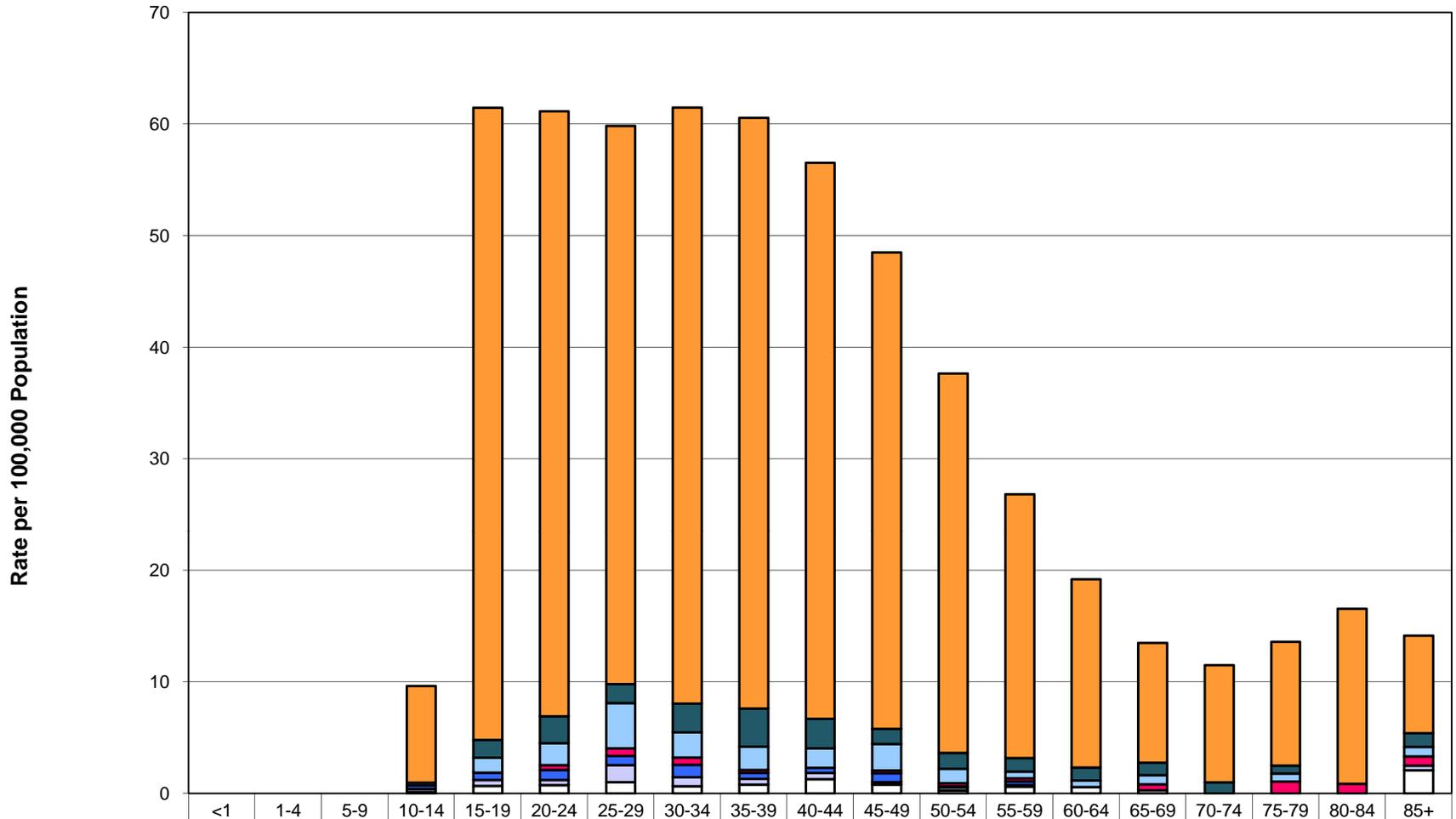
Connecticut Residents, 2005 - 2007



Self-Inflicted Injury* Hospitalizations by Mechanism
Connecticut Residents, 2005 - 2007
 (n = 3,811; average = 1,270/year)

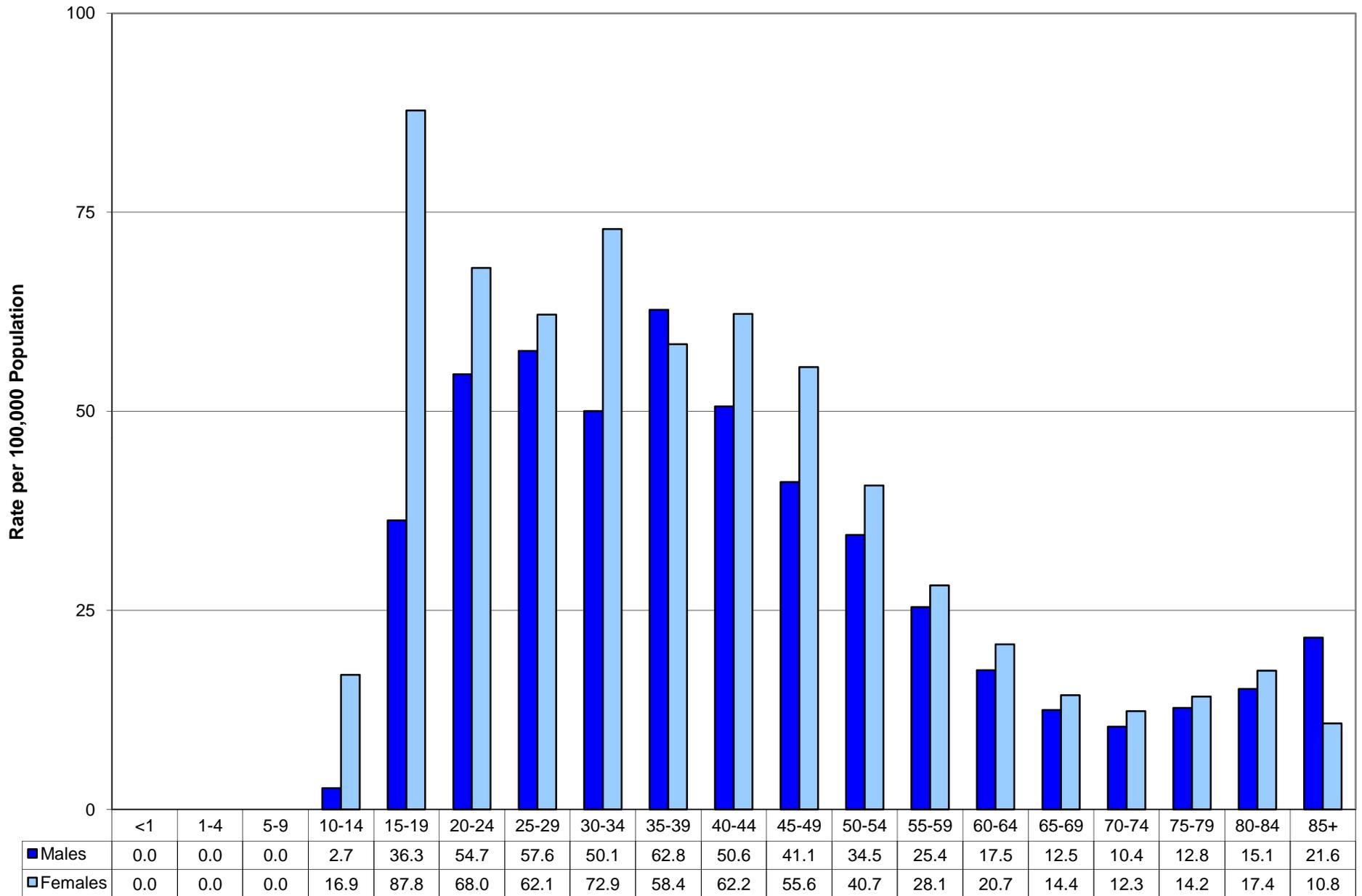


Self-Inflicted Injury Hospitalization Rates by Mechanism & Age Connecticut Residents, 2005 - 2007



	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
■ Poisoning-drugs/alcohol (n=3,351)	0.0	0.0	0.0	8.7	56.6	54.2	50.0	53.5	53.0	49.8	42.7	34.0	23.7	16.9	10.7	10.5	11.1	15.7	8.7
■ Poisoning-gases/other (n = 154)	0.0	0.0	0.0	0.3	1.6	2.4	1.7	2.6	3.4	2.7	1.4	1.4	1.2	1.2	1.1	1.0	0.7	0.0	1.2
■ Cut / Pierce (n = 137)	0.0	0.0	0.0	0.0	1.3	2.0	4.1	2.3	2.1	1.7	2.4	1.3	0.6	0.6	0.8	0.0	0.7	0.0	0.8
■ Firearms (n = 28)	0.0	0.0	0.0	0.0	0.0	0.5	0.7	0.6	0.3	0.0	0.2	0.3	0.3	0.0	0.6	0.0	1.1	0.9	0.8
■ Suffocation / Hanging (n = 43)	0.0	0.0	0.0	0.3	0.7	0.9	0.8	1.1	0.5	0.5	0.8	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0
■ Falls (n = 38)	0.0	0.0	0.0	0.3	0.5	0.5	1.5	0.8	0.5	0.6	0.2	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.4
■ Other / Unspecified (n = 60)*	0.0	0.0	0.0	0.1	0.7	0.8	1.0	0.6	0.8	1.3	0.8	0.3	0.6	0.6	0.3	0.0	0.0	0.0	2.1

Self-Inflicted Injury Hospitalization Rates By Age & Sex Connecticut Residents, 2005 - 2007



Age-Adjusted Self-Inflicted Injury Hospitalization Rates by Sex, Race/Ethnicity & County of Residence Connecticut Residents, 2005 - 2007

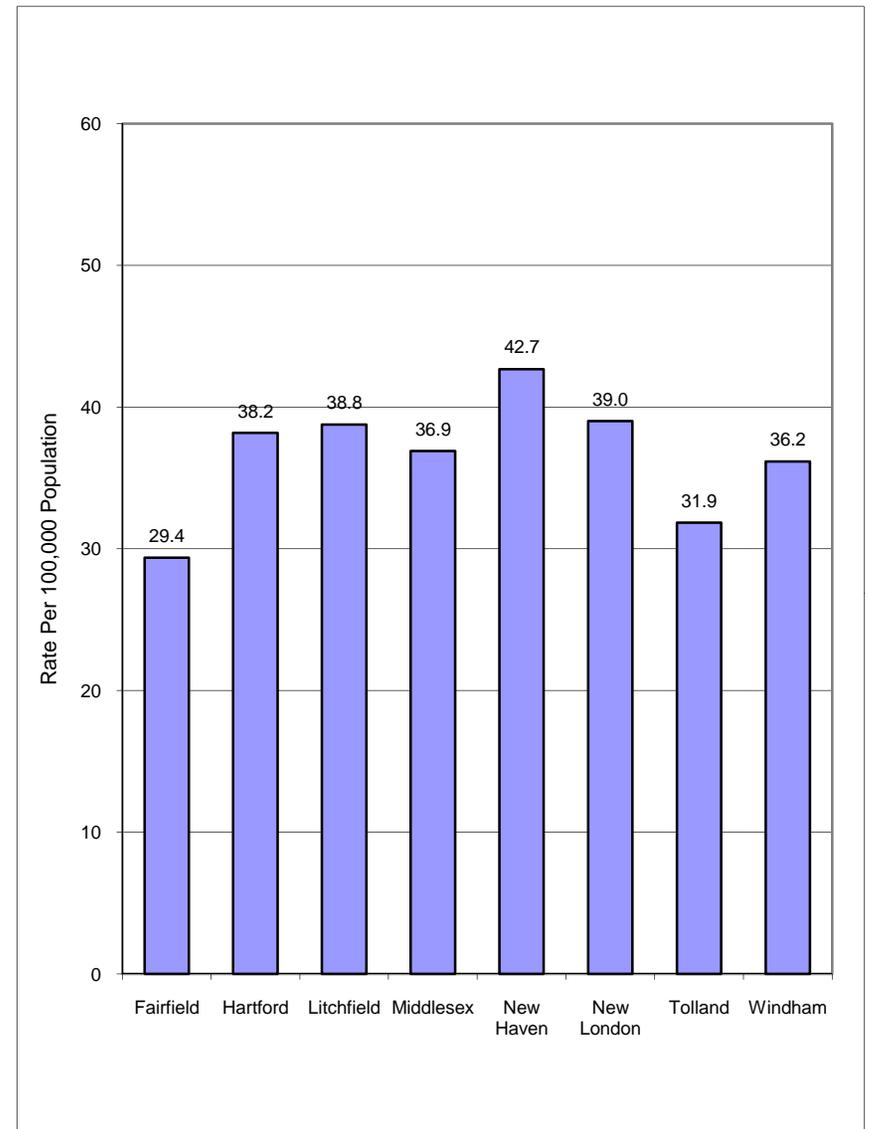
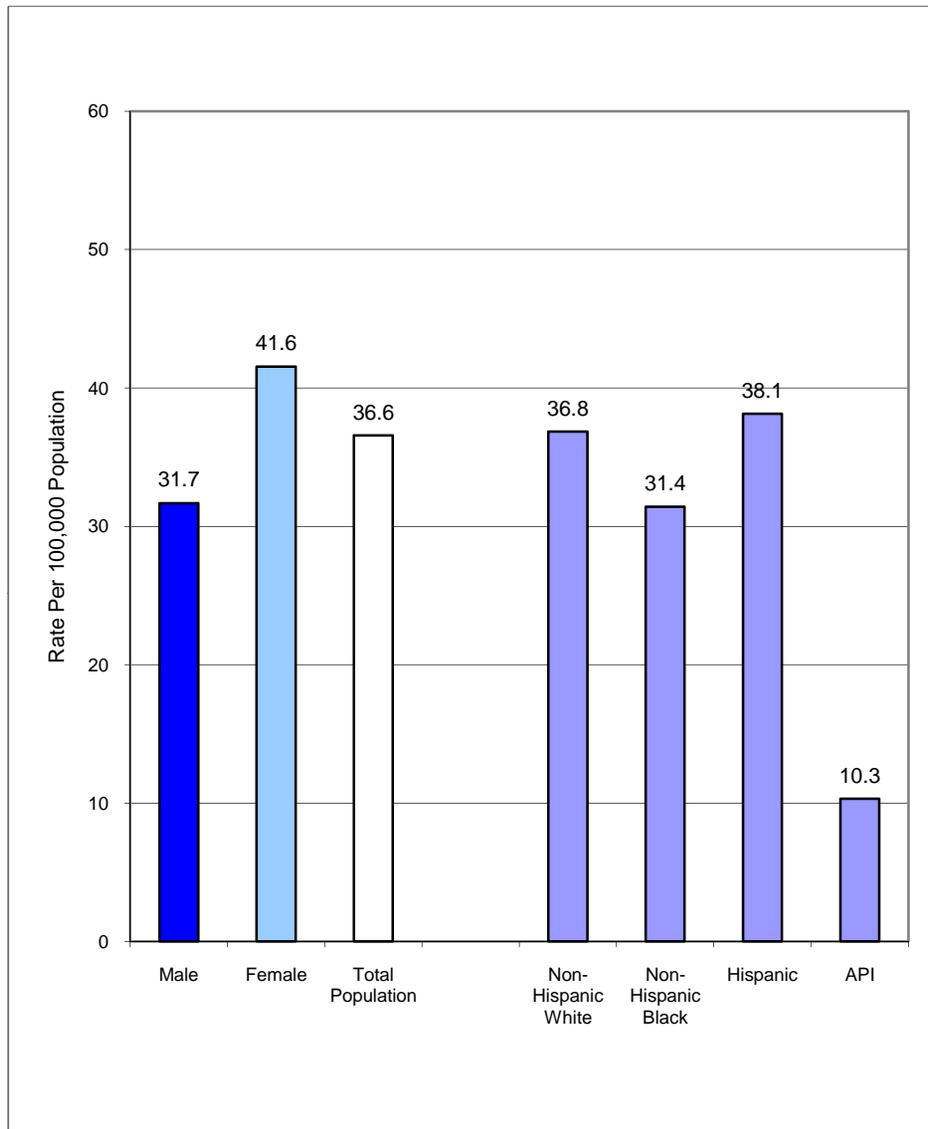


Table 1
Injury Hospitalization Rates*, Median Stay, Median and Total Charges by Mechanism**
Connecticut Residents, 2005 - 2007

Rank†	Mechanism	Number	Rate*	Median Stay (Days)	Median Charges	Total Charges
1	Fall	26,413	218.27	4	\$18,430	\$624,734,898
2	Motor Vehicle Traffic	7,168	68.23	3	\$20,714	\$257,697,663
3	Self-Inflicted[Injury]	3,811	36.57	2	\$10,258	\$61,293,144
4	Cases missing E-codes	4,024	34.02	7	\$32,834	\$300,890,125
5	Poisoning	2,857	26.70	2	\$9,834	\$43,538,519
6	Assault	2,348	23.36	2	\$14,659	\$53,893,399
7	Other / Unspecified	2,612	23.35	2	\$12,838	\$47,077,931
8	Struck by / Against	1,277	12.24	2	\$11,802	\$23,136,439
9	Fire / Burn	955	9.33	2	\$8,633	\$22,426,520
10	Transport, Other	944	9.02	2	\$17,097	\$23,059,078
11	Overexertion	939	8.49	2	\$12,069	\$14,317,132
12	Undetermined Intent	727	6.88	2	\$11,639	\$13,591,129
13	Pedal Cyclist, Other	536	5.17	2	\$13,519	\$9,848,569
14	Natural / Environmental	533	4.93	2	\$8,684	\$6,941,316
15	Cut / Pierce	489	4.68	1	\$10,827	\$6,928,638
16	Machinery	349	3.27	2	\$12,584	\$6,845,358
17	Firearm	185	1.87	4	\$24,548	\$8,431,309
18	Suffocation	210	1.86	2	\$10,664	\$3,488,819
19	Pedestrian, Other	105	0.97	3	\$19,789	\$3,634,863
20	Drowning / Submersion	43	0.43	1	\$8,175	\$504,162
21	Legal Intervention	36	0.34	3	\$15,929	\$960,225
Totals						
	Number	Rate*	Median Stay (Days)	Median Charges	Total Charges	
	56,561	499.97	3	\$16,746	\$1,533,239,236	
<p align="center">Source: Connecticut Hospital Association, Hospital Discharge Data Prepared by: Connecticut Department of Public Health, Injury Prevention Program</p> <p align="center">*Rates = per 100,000 population. Age adjusted to standard 2000 US population. ** Charges are only expenses incurred during the hospitalization. †Ranked from highest to lowest by injury hospitalization rates.</p>						

Table 2
Injury Hospitaliation Rates* by Mechanism, Race/Ethnicity and Sex
Connecticut Residents, 2005 - 2007

Mechanism	Race Ethnicity									
	NH White		NH Black		Hispanic		AIAN		API	
	Sex		Sex		Sex		Sex		Sex	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
	Rate* (N)**	Rate* (N)**	Rate* (N)**	Rate* (N)**	Rate* (N)**	Rate* (N)**	Rate* (N)**	Rate* (N)**	Rate* (N)**	Rate* (N)**
Assault	15.37 (557)	2.04(81)	158.53 (853)	18.86 (105)	81.76 (557)	8.73(58)			5.27(9)	
Cases missing E-codes	37.41 (1565)	28.19 (1762)	44.02 (181)	20.25 (92)	45.23 (195)	21.36 (90)			9.01 (12)	7.55(10)
Cut / Pierce	6.47 (253)	0.99(42)	8.8(43)	2.69(15)	11.62 (80)	3.04(16)				
Drowning / Submersion	0.49 (17)	0.2(9)								
Fall	192.71 (8003)	230.11 (15028)	160.67 (624)	129.39 (585)	144.79 (640)	122.52 (445)	70.36 (9)		45.01 (49)	78.85 (74)
Fire / Burn	9.69 (360)	4.29 (178)	16.27 (77)	15.81 (86)	19.97 (118)	10.85 (65)				4.25(8)
Firearm	0.77 (26)		18.06 (102)	1.56(9)	5.65 (43)					
Legal Intervention	0.47 (18)		2.22 (11)							
Machinery	5.24 (209)	0.5(20)	4.02 (18)		13.54 (81)					
Motor Vehicle Traffic	79.78 (3038)	42.73 (1830)	129.23 (639)	53.71 (288)	100.81 (642)	47.85 (285)	38.66 (6)		25.07 (41)	15.38 (28)
Natural / Environmental	4.5 (181)	4.58 (203)	10.81 (46)	2.56(13)	5.32 (35)	3.72(20)				
Other / Unspecified	25.31 (1014)	18.83 (1014)	30.9 (137)	18.47 (91)	30.42 (148)	13.77 (65)			6.02(8)	5.99(8)

Overexertion	8.54 (342)	6.88 (360)	15.01 (73)	7.22(37)	9.88 (49)	5.9(30)				
Pedal Cyclist, Other	8.14 (312)	1.68(65)	10.27 (55)	1.64(9)	9.88 (61)	1.54(9)				
Pedestrian, Other	1.04 (40)	0.73(36)	1.48(7)		1.03(7)					
Poisoning	26.5 (1023)	19.71 (885)	57.17 (251)	37.03 (187)	37.62 (202)	32.68 (162)			7.93 (11)	3.42(6)
Self-Inflicted [Injury]	31.42 (1193)	42.37 (1644)	32.45 (158)	30.89 (170)	33.23 (201)	43.64 (270)			8.6(14)	12.13 (22)
Struck by / Against	17.66 (664)	5.71 (250)	23.49 (121)	4.67(24)	15.73 (104)	4.6(20)			6.74 (12)	
Suffocation	2(80)	1.31(77)	5.27 (15)	2.61(13)	2.72 (13)	1.43(7)				
Transport, Other	13.37 (496)	6.63 (280)	10.24 (53)	3.17(17)	7.11 (41)	2.3(15)				
Undetermined Intent	7.31 (280)	4.85 (206)	16.99 (86)	6.44(34)	9.3(61)	4.62(28)				

Source: Connecticut Hospital Association, Hospital Discharge Data

Prepared by: Connecticut Department of Public Health, Injury Prevention Program

*Rates = per 100,000 population. Age adjusted to standard 2000 US population.

(Rates based on counts <20 may be unstable and should be interpreted with caution.)

**In keeping with confidentiality regulations, numbers and rates for <6 events are not included.

Table 3
 Injury Hospitalization Rates* by Mechanism and Race/Ethnicity
 Connecticut Residents, 2005 - 2007

Mechanism	Race Ethnicity				
	NH White	NH Black	Hispanic	AIAN	API
	Rate* (N)**	Rate* (N)**	Rate* (N)**	Rate* (N)**	Rate* (N)**
Assault	8.7(638)	86.62(958)	46.02(615)		2.62(9)
Cases missing E-codes	32.6(3327)	31.28(273)	32.61(285)		8.13(22)
Cut / Pierce	3.7(295)	5.56(58)	7.51(96)		
Drowning / Submersion	0.34(26)		0.6(9)		
Fall	219.17(23031)	145.88(1209)	136.09(1085)	48.99(13)	64.66(123)
Fire / Burn	7(538)	15.8(163)	15.31(183)		2.97(12)
Firearm	0.41(27)	9.69(111)	3.02(44)		
Legal Intervention	0.24(19)	1.04(11)			
Machinery	2.82(229)	1.95(19)	6.83(82)		
Motor Vehicle Traffic	61.19(4868)	89.3(927)	74.48(927)	26.53(8)	19.85(69)
Natural / Environmental	4.5(384)	6.38(59)	4.61(55)		
Other / Unspecified	22.25(2028)	24.57(228)	21.86(213)		5.96(16)
Overexertion	7.83(702)	11.07(110)	7.75(79)		
Pedal Cyclist, Other	4.9(377)	5.81(64)	5.68(70)		
Pedestrian, Other	0.87(76)	1.05(11)	0.88(10)		
Poisoning	23.09(1908)	46.18(438)	35.39(364)		5.52(17)
Self-Inflicted[Injury]	36.84(2837)	31.42(328)	38.13(471)	31.46(9)	10.32(36)
Struck by / Against	11.7(914)	13.71(145)	10.48(124)		4.17(15)
Suffocation	1.65(157)	3.42(28)	2.03(20)		

Transport, Other	10(776)	6.62(70)	4.61(56)		
Undetermined Intent	6.1(486)	11.53(120)	7.02(89)		

Source: Connecticut Hospital Association, Hospital Discharge Data
Prepared by: Connecticut Department of Public Health, Injury Prevention Program

*Rates = per 100,000 population. Age adjusted to standard 2000 US population.

(Rates based on counts <20 may be unstable and should be interpreted with caution.)

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