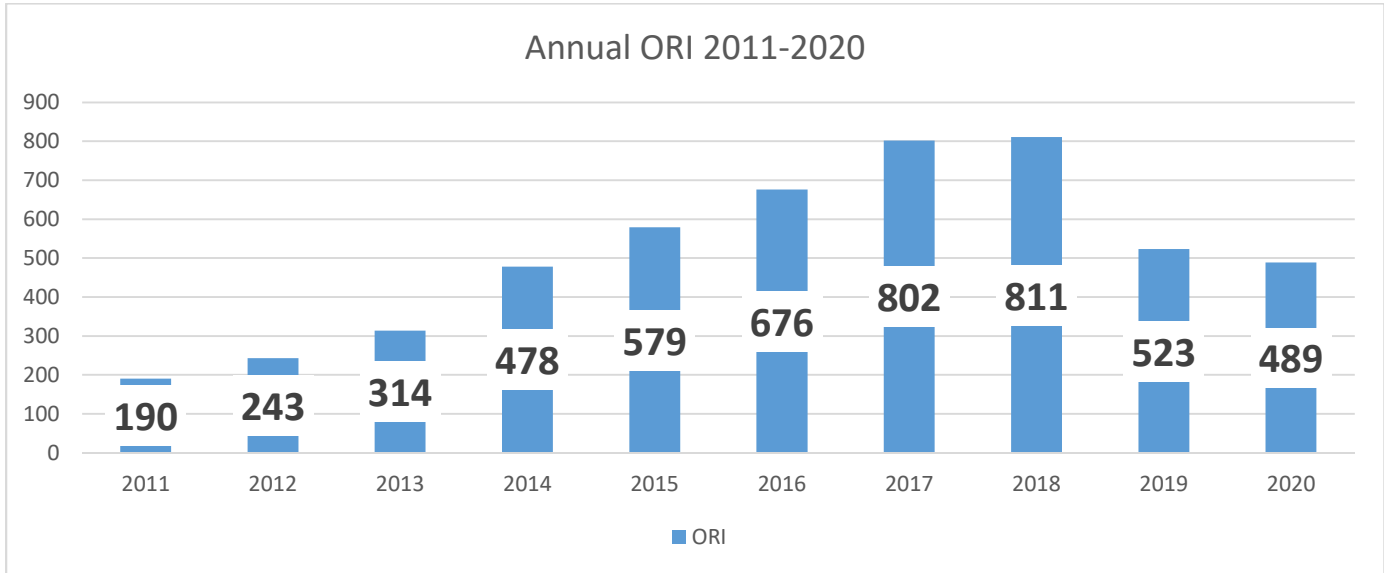




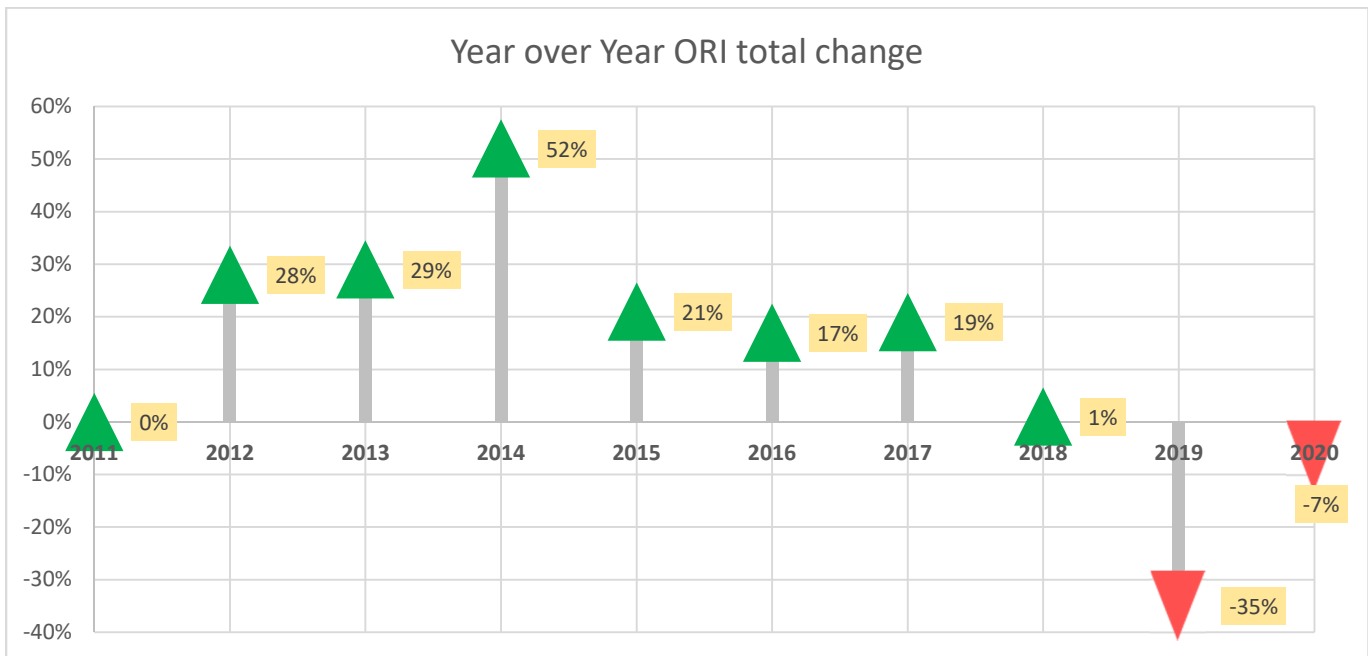
Between 2011 and 2020 the City of Lowell witnessed 5,105 Opioid Related Illness (ORI) 911 calls. The following report will go through the EMS data for that decade.

Below: This chart shows the annual total for ORI through the Lowell 911 system. In 2011 there were 190, and in 2018 there were 811.



Above. When comparing the lowest annual total (2011) to the highest (2018) there is a 326% difference between these annual totals.

Below. Shows the year to year change in total ORI 911 calls. There was a 28% increase when comparing the total for 2012 versus the 2011 total. There was a 35% decrease comparing 2019 to 2018.



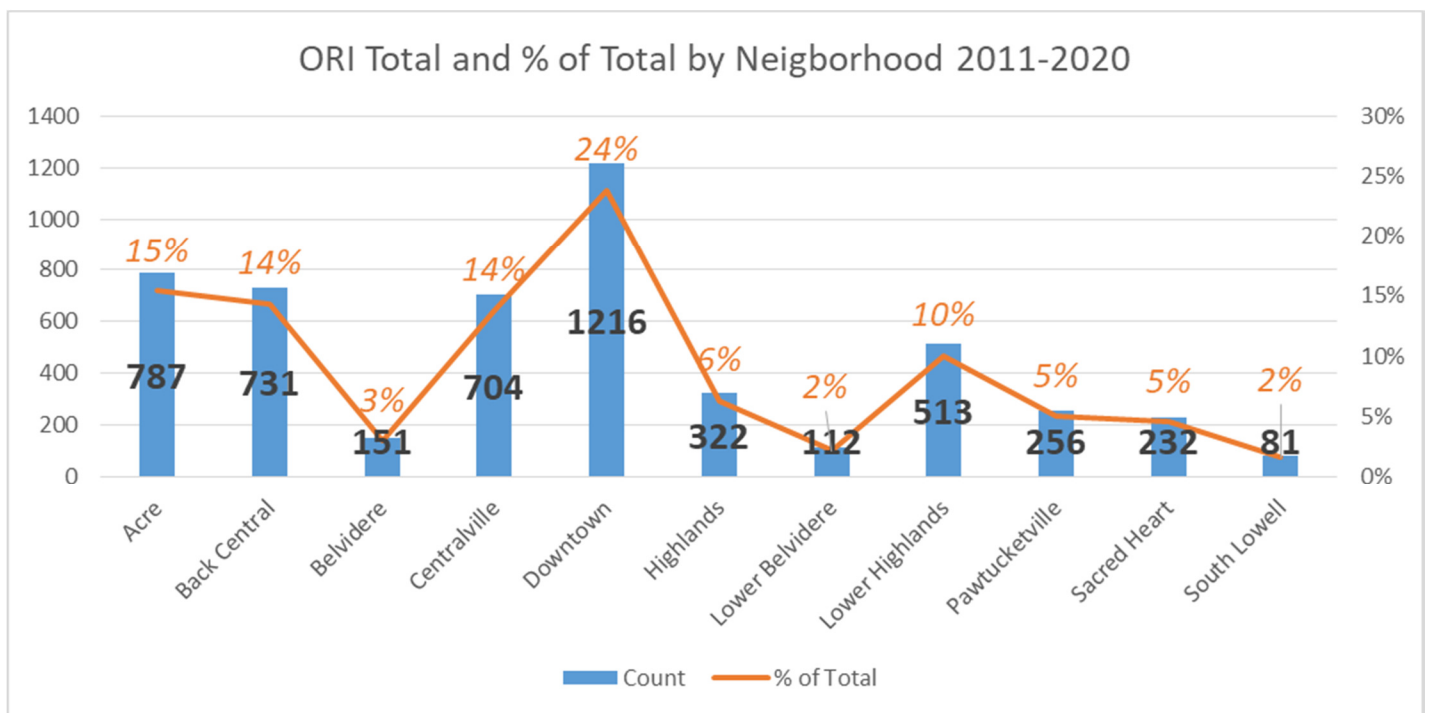
Below shows total ORI by month and by year. The darker the red the higher the number. The worst month was July 2018 with 99 ORI. The month with the lowest total was December 2011 with 8

Row	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2011	19	21	16	12	18	20	19	13	18	11	15	8	190
2012	16	14	17	19	18	37	11	27	25	11	23	25	243
2013	16	14	30	35	39	30	40	32	27	21	16	14	314
2014	20	23	30	24	37	63	43	65	40	46	26	61	478
2015	51	30	46	46	55	51	51	55	64	60	41	29	579
2016	49	48	56	43	47	56	59	53	66	56	78	65	676
2017	64	55	57	58	74	79	89	73	88	61	47	57	802
2018	56	68	65	56	59	68	99	67	70	75	69	59	811
2019	42	49	43	47	46	44	46	35	46	52	36	37	523
2020	32	31	28	48	57	49	44	41	56	26	35	42	489
Total	365	353	388	388	450	497	501	461	500	419	386	397	5105

Below shows total ORI by day and by hours. The darker the red the higher the number. Saturday in the 5PM hour was the most frequent block of time for an ORI to occur with 65 events.

Row	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
Sun	23	26	20	14	14	8	7	11	16	22	31	23	37	36	42	44	42	47	46	40	51	36	27	25	688
Mon	22	10	13	6	6	9	8	7	11	21	20	28	39	40	40	44	38	50	52	40	36	40	35	28	643
Tue	26	9	12	18	6	4	9	12	12	22	17	23	33	47	50	36	49	52	45	42	45	52	38	23	682
Wed	12	13	14	12	14	4	12	12	16	30	27	30	31	38	39	38	44	49	56	52	44	47	46	38	718
Thu	22	27	11	10	8	12	14	13	14	9	22	30	48	34	39	45	44	54	57	52	45	40	38	38	726
Fri	29	18	18	10	9	10	17	8	16	28	23	27	33	57	57	53	49	57	56	52	59	48	53	38	825
Sat	32	32	21	14	12	16	15	17	27	14	21	39	36	38	42	51	58	65	48	35	47	54	51	38	823
Total	166	135	109	84	69	63	82	80	112	146	161	200	257	290	309	311	324	374	360	313	327	317	288	228	5105

Below. Shows ORI by section of the city. There were 1,216 ORI in the downtown area. This represents 24% of the city wide totals for the decade.

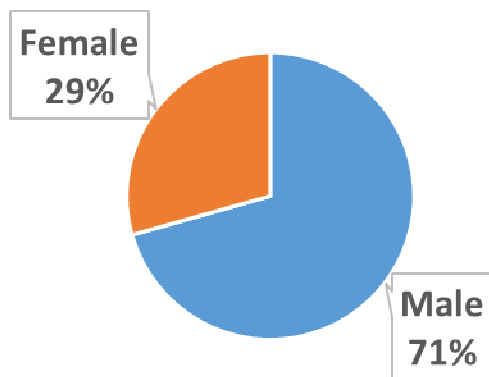


2,127 or 42% of the ORI in the city occurred inside of a private home. 51 % happened out in the public space, most of those outside in park, street, etc.

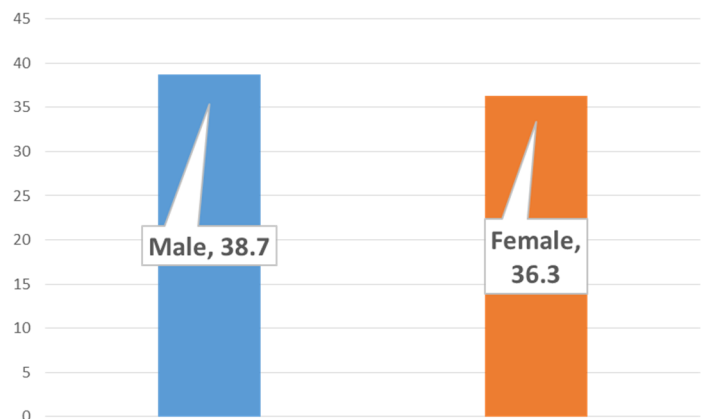
Setting	Count	% of Total
Health Care Facility	32	1%
Private Residence	2127	42%
Public Location- Inside	535	10%
Public Location- Outside	2076	41%
Cell block	107	2%
Blank	228	4%

Patient details

Gender of ORI patients 2011-2020



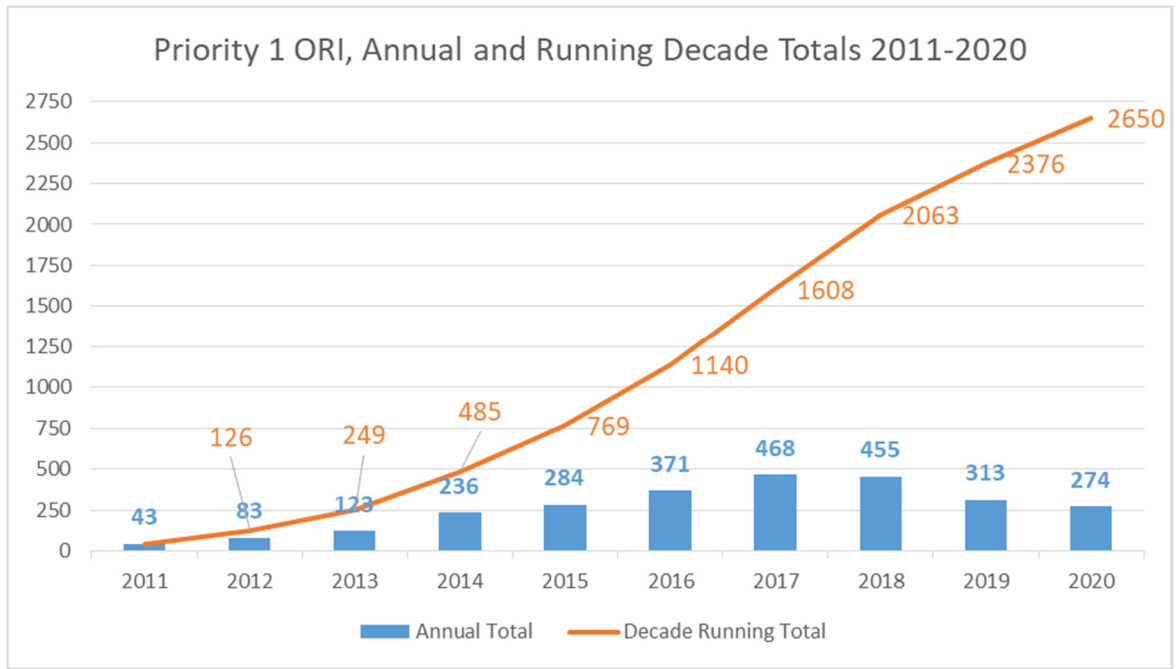
Average age by gender of ORI patients 2011-2020



Below Residence of the patients: Top 20 only. There were a total 171 different communities listed

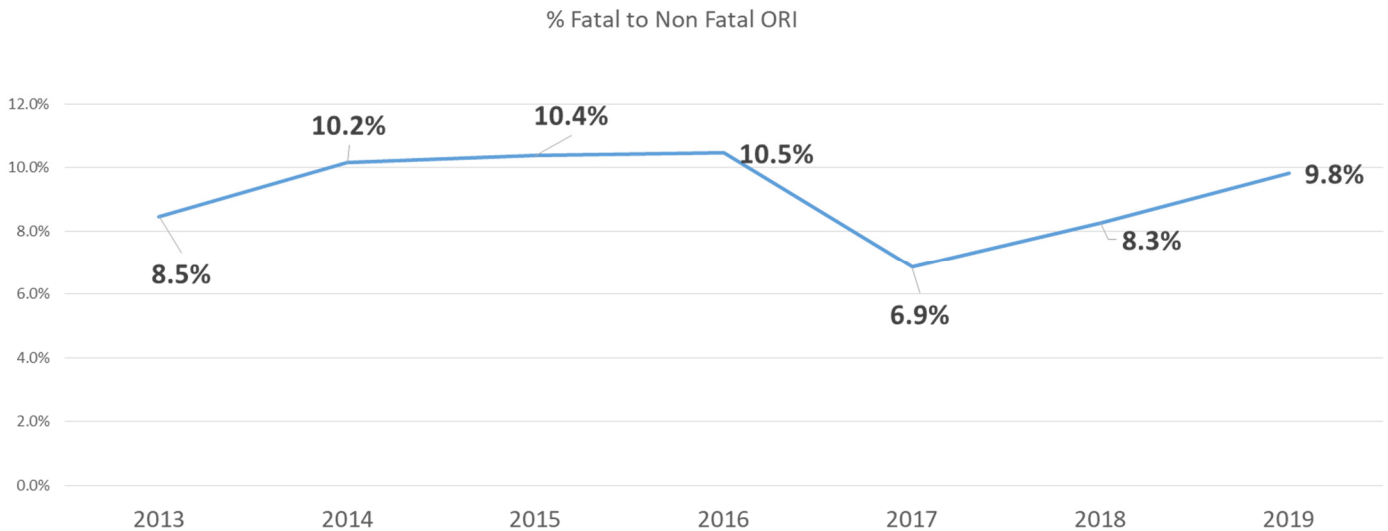
Hometown	Count	Hometown2	Count
LOWELL	3129	BOSTON	30
DRACUT	197	MARLBOROUGH	30
BILLERICA	191	WILMINGTON	27
CHELMSFORD	119	METHUEN	26
TEWKSBURY	114	BURLINGTON	24
LAWRENCE	91	NEW BEDFORD	20
HAVERHILL	69	WOBURN	17
WESTFORD	50	BEDFORD	16
TYNGSBOROUGH	48	DORCHESTER	14
NASHUA	38	FITCHBURG	13

Below. Priority 1 ORI. Without Narcan and breathing support these patients would have died. These numbers are a subset on the numbers on the previous pages. In 2015 there were 236 instances that someone in Lowell on a 911 call needed Narcan and breathing support to prevent their death. Over the decade this happened 2,650 times.



Above. We show approximately 1,800 different unique people in our Priority 1 data. 421 patients were saved at least twice. The most was a patient that was saved 16 times.

Below. % of 911 calls related to opioids that resulted in a patient's death.



For this we added the fatal and non-fatal ORI, then divided by the fatal. 2016 Trinity showed 676 non-fatal ORI. Mass DPH showed 79 fatal. So this would create 755 total opioid related calls. 79 is 10.5% of 676.