New Hampshire Patient Transportation and Restraint Data:

Involuntary Emergency Admissions to Designated Receiving Facilities
Interim Report January - June 2020

Passed and signed into law in July 2019, SB 177 included an explicit option of using ambulances or sheriffs for transportation for patients that have been identified as Involuntary Emergency Admissions (IEAs) from hospital emergency departments to New Hampshire Hospital (NHH) or other Designated Receiving Facilities (DRFs). The new language became law effective January 1, 2020. Included as part of that law is the requirement that NHH and DRFs collect information on all patients they receive as to how they were transported and whether they were in restraints. Annual reports will be shared with NH Health and Human Services Oversight Committee.

As background, an ad hoc stakeholder group came together in the fall of 2019 to ensure that SB 177 was implemented in a timely way. The group was led by the NH Hospital Association and the NH Community Behavioral Health Association; other participants included NH Hospital; NH Department of Health and Human Services; NH Department of Safety; NH Medical Society; Mental Health Center of Greater Manchester; NH Sheriffs Association; NAMI-NH; the Disabilities Rights Center; the Children's Behavioral Health Collaborative. Several hospitals, community behavioral health providers, and private ambulance companies also participated. There was a total of 7 meetings held and the group developed a webinar explaining the new law, which was offered to stakeholders and the public prior to the January 1, 2020 effective date.

This report, representing the first six months of 2020, is an interim report. The final report for 2020 will represent the first nine months of 2020 as stipulated by SB 177. Six New Hampshire DRFs (Cypress Center, Elliot Hospital, Franklin Regional Hospital, New Hampshire Hospital, Portsmouth Regional Hospital, and Hampstead Hospital) submitted data to the New Hampshire Hospital Association for aggregation. (Note: Parkland Medical Center began DRF services in February 2020. This interim report does not contain Parkland's information, and we anticipate its statistics will be included in the final report).

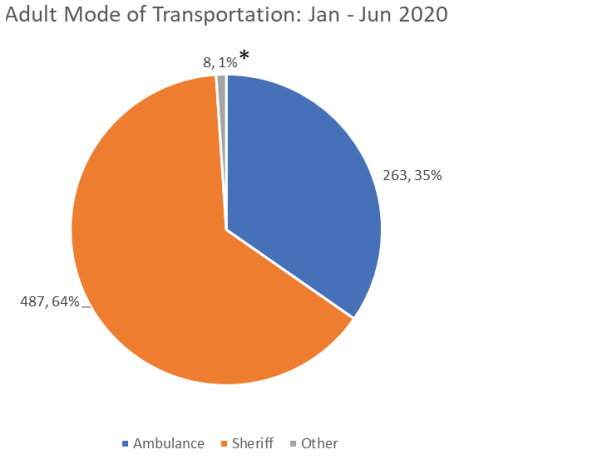
Summary Stats:
In the first six months of the year, there were a total of 802 IEA transfers to NH DRFs with an average of 134 transports per month. This included:

- 758 adults (18+) and 44 children
- 299 transports by ambulance, 494 by sheriff, and 9 by other means
- 438 transports occurred without restraints, 362 with restraints applied before transfer, and 2 transfers with restraints applied during transport.
- For transfers using restraints, 187 used handcuffs only, 37 used waistbelt only, 2 used leg restraints only, 2 used other restraints, 134 used a combination, and 2 were unknown.

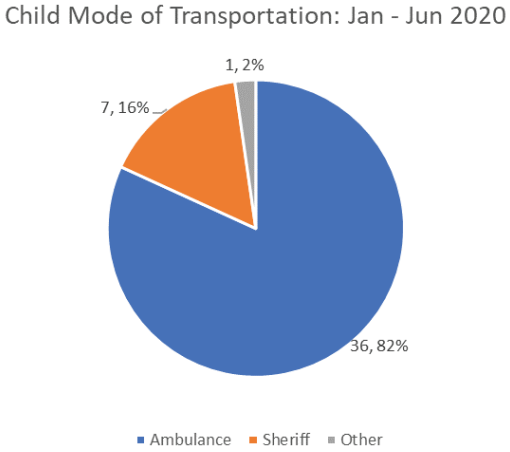
DRF Volume Summary: The table below displays the volume of IEA patients transported to each DRF by age group and month. If a patient was transferred to a DRF unit from another location in the same facility, this transfer was removed from totals because it does not qualify as an external transfer.

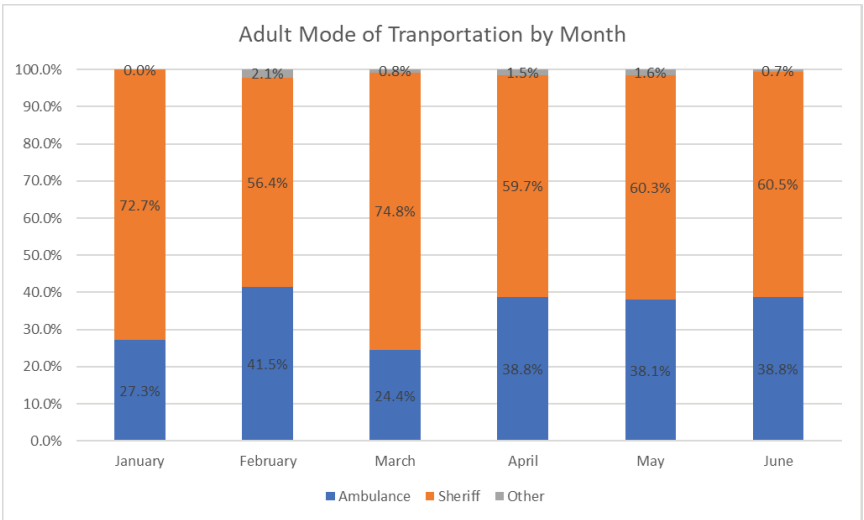
DRF	Age Group	January	February	March	April	May	June	Six Month Total
Cypress Center	Adult	18	8	9	13	11	12	71
Elliot Hospital	Adult	2	3	1	1	2	2	11
Franklin Regional Hospital	Adult	21	23	17	13	12	16	102
Hampstead Hospital	Child	0	0	2	0	1	1	4
New Hampshire Hospital	Adult	65	50	94	98	87	108	502
	Child	20	16	4	0	0	0	40
Portsmouth Regional Hospital	Adult	15	10	10	9	14	14	72
Total		**141**	**110**	**137**	**134**	**127**	**153**	**802**

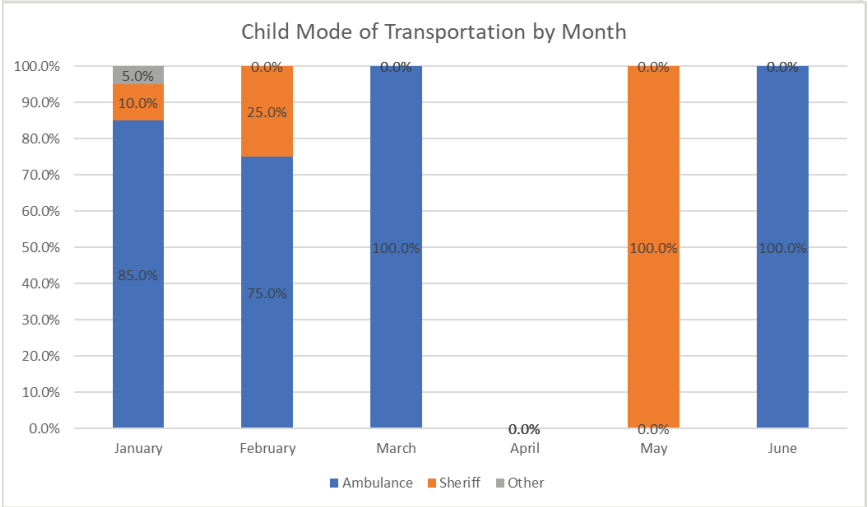
Mode of Transportation Summary: IEA patients were transported to a DRF from a sending facility by sheriff, ambulance or other (self, case manager, etc). Children and adults experienced different rates of transport with most adults being taken by sheriff and a vast majority of children taken by ambulance. Adults saw transport rates vary for the first three months, but sheriff and ambulance rates have remained consistent for April, May, and June.



**Note: All pie chart data points show total count, percentage of total*



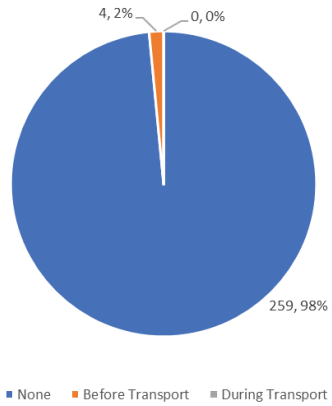


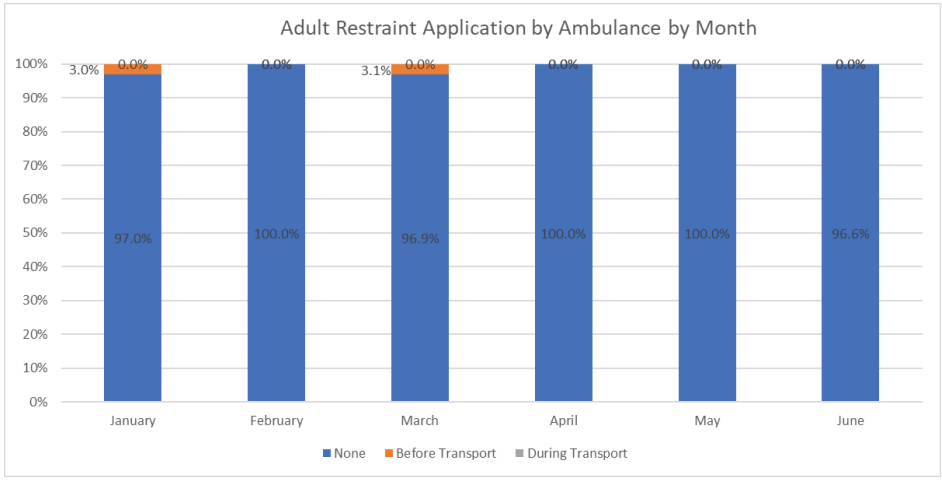


Note: No Child Transfers in April

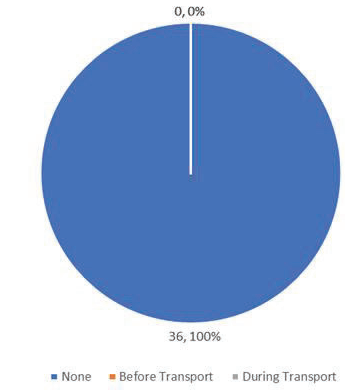
<u>Restraint Application Summary</u>: DRFs submitted data on restraint usage including the timing of restraint application - before or during transfer. Restraint application varied greatly by age group and mode of transportation. Restraints were used in a small fraction of ambulance transfers for both adults and children. The count of sheriff transfers for children is so small that it is difficult to distinguish any pattern, but **adults experienced a increase in restraint usage during sheriff transports over the first six months of 2020.**

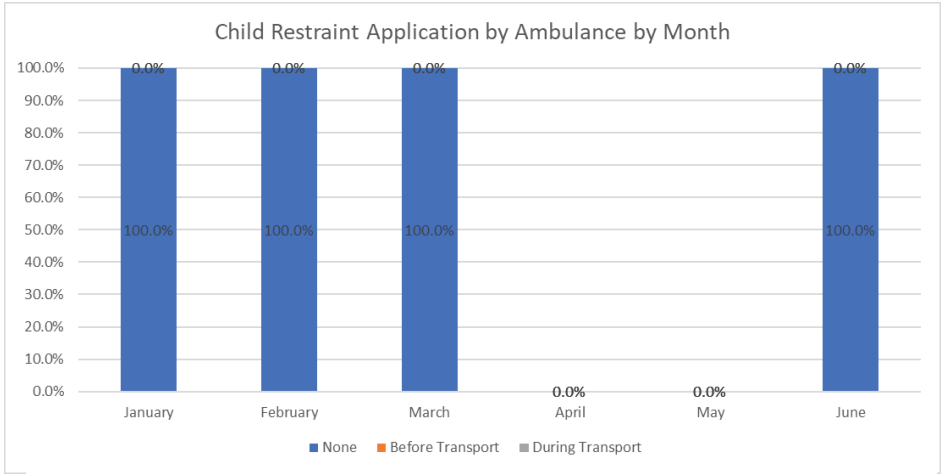
Adult Restraint Application by Ambulance: Jan- Jun 2020





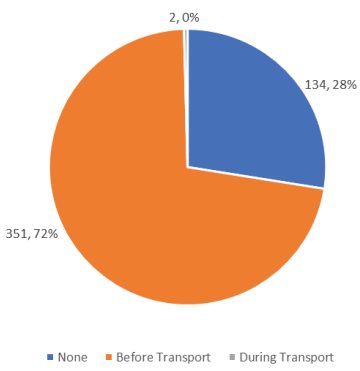
Child Restraint Application by Ambulance: Jan - Jun 2020

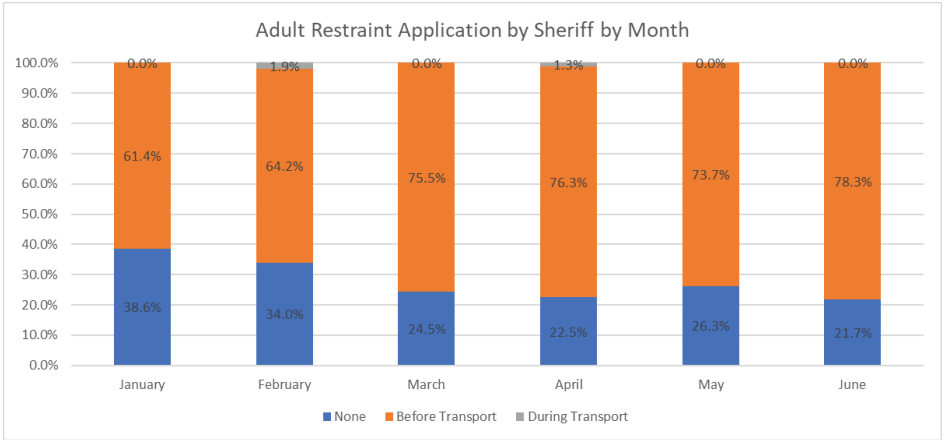




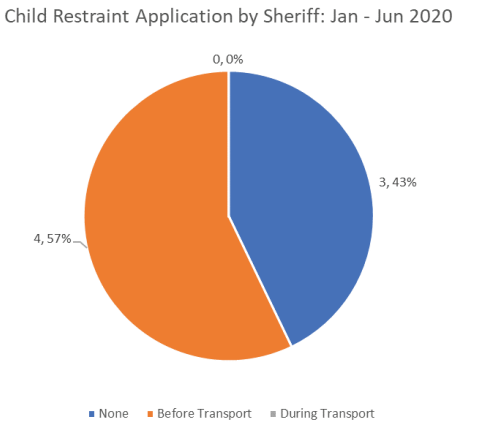
Note: No child transfers by ambulance in April or May

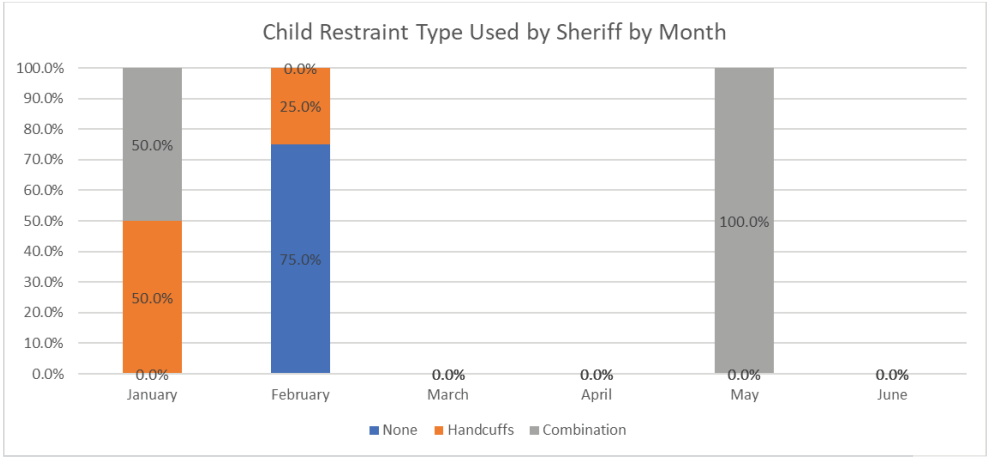
Adult Restraint Application by Sheriff: Jan - Jun 2020





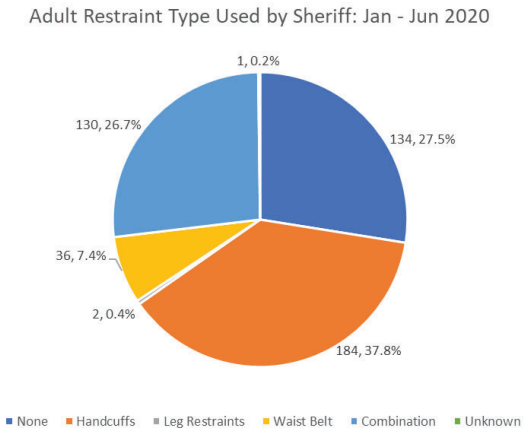
(Restraint Application Summary Continued…)

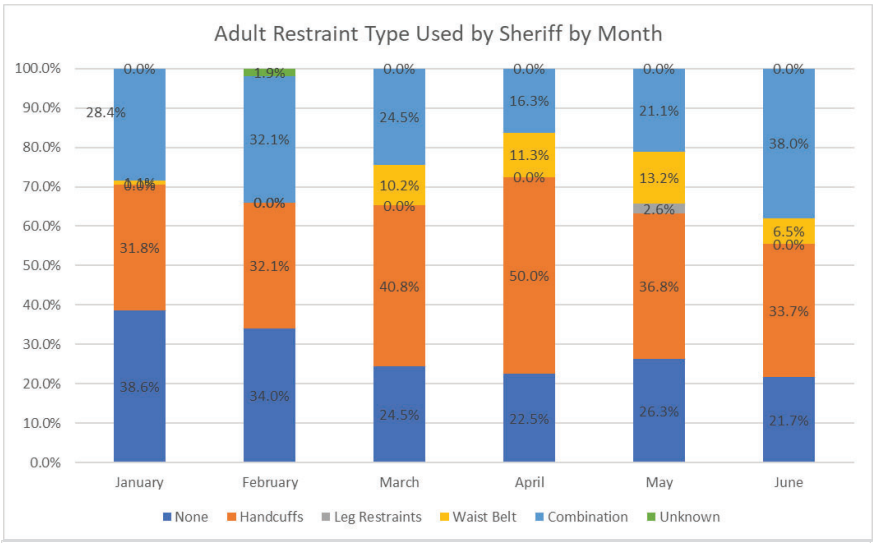


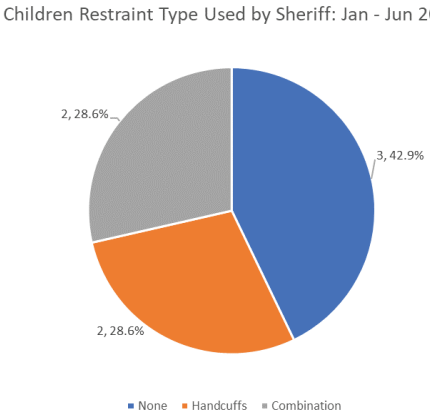


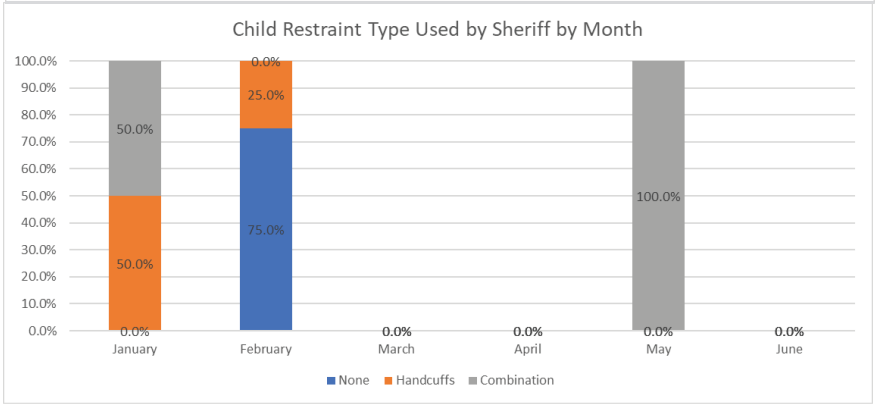
Note: No child transfers by sheriff in March, April, or June

<u>Restraint Type</u>: Varying restraint types were used on IEA patients during transfer. A majority of restrained transfers utilized handcuffs or a combination of restraint types. Charts below show information by adult and child for sheriff only. See tables in appendix for full detail on restraint types.









Note: No child transfers by sheriff in March, April, or June

Appendix

Adult Count Summary Tables:

Adult - All Transport	Measure	January	February	March	April	May	June	6 Month Totals
Mode of Transport	Ambulance	33	39	32	52	48	59	263
	Sheriff	88	53	98	80	76	92	487
	Other	0	2	1	2	2	1	8
Restraint Application	None	66	59	56	70	70	77	398
	Before Transport	55	34	75	63	56	75	358
	During Transport	0	1	0	1	0	0	2
Restraint Type Used	None	66	59	56	70	70	77	398
	Handcuffs	28	17	40	40	28	32	185
	Leg Restraints	0	0	0	0	2	0	2
	Waist Belt	1	0	10	10	10	6	37
	Combination	25	17	24	14	16	36	132
	Other	1	0	1	0	0	0	2
	Unknown	0	1	0	0	0	1	2
Total Transports		**121**	**94**	**131**	**134**	**126**	**152**	**758**

Adult - Ambulance	Measure	January	February	March	April	May	June	6 Month Totals
Restraint Application	None	32	39	31	52	48	57	259
	Before Transport	1	0	1	0	0	0	4
	During Transport	0	0	0	0	0	0	0
Restraint Type Used	None	32	39	31	52	48	57	259
	Handcuffs	0	0	0	0	0	1	1
	Leg Restraints	0	0	0	0	0	0	0
	Waist Belt	0	0	0	0	0	0	0
	Combination	0	0	0	0	0	0	0
	Other	1	0	1	0	0	0	2
	Unknown	0	0	0	0	0	1	1
Total Transports		**33**	**39**	**32**	**52**	**48**	**59**	**263**

Adult - Sheriff	Measure	January	February	March	April	May	June	6 Month Totals
Restraint Application	None	34	18	24	18	20	20	134
	Before Transport	54	34	74	61	56	72	351
	During Transport	0	1	0	1	0	0	2
Restraint Type Used	None	34	18	24	18	20	20	134
	Handcuffs	28	17	40	40	28	31	184
	Leg Restraints	0	0	0	0	2	0	2
	Waist Belt	1	0	10	9	10	6	36
	Combination	25	17	24	13	16	35	130
	Other	0	0	0	0	0	0	0
	Unknown	0	1	0	0	0	0	1
Total Transports		**88**	**53**	**98**	**80**	**76**	**92**	**487**

Note: in January, there were 25 transfers where the time of restraint placement was not clear. These are added to the "Before Transport" category.

Adult Percentage Summary Tables:

Adult - All Transport	Measure	January	February	March	April	May	June	6 Month Totals
Mode of Transport	Ambulance	27.3%	41.5%	24.4%	38.8%	38.1%	38.8%	34.7%
	Sheriff	72.7%	56.4%	74.8%	59.7%	60.3%	60.5%	64.2%
	Other	0.0%	2.1%	0.8%	1.5%	1.6%	0.7%	1.1%
Restraint Usage	None	54.5%	62.8%	42.7%	52.2%	55.6%	50.7%	52.5%
	Total	45.5%	36.2%	57.3%	47.0%	44.4%	49.3%	47.2%
	During Only	0.0%	1.1%	0.0%	0.7%	0.0%	0.0%	0.3%
Restraint Type Used	None	54.5%	62.8%	42.7%	52.2%	55.6%	50.7%	52.5%
	Handcuffs	23.1%	18.1%	30.5%	29.9%	22.2%	21.1%	24.4%
	Leg Restraints	0.0%	0.0%	0.0%	0.0%	1.6%	0.0%	0.3%
	Waist Belt	0.8%	0.0%	7.6%	7.5%	7.9%	3.9%	4.9%
	Combination	20.7%	18.1%	18.3%	10.4%	12.7%	23.7%	17.4%
	Other	0.8%	0.0%	0.8%	0.0%	0.0%	0.0%	0.3%
	Unknown	0.0%	1.1%	0.0%	0.0%	0.0%	0.7%	0.3%

Adult - Ambulance	Measure	January	February	March	April	May	June	6 Month Totals
Restraint Application	None	97.0%	100.0%	96.9%	100.0%	100.0%	96.6%	98.5%
	Before Transport	3.0%	0.0%	3.1%	0.0%	0.0%	0.0%	1.5%
	During Transport	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Restraint Type Used	None	97.0%	100.0%	96.9%	100.0%	100.0%	96.6%	98.5%
	Handcuffs	0.0%	0.0%	0.0%	0.0%	0.0%	1.7%	0.4%
	Leg Restraints	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Waist Belt	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Combination	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Other	3.0%	0.0%	3.1%	0.0%	0.0%	0.0%	0.8%
	Unknown	0.0%	0.0%	0.0%	0.0%	0.0%	1.7%	0.4%

Adult - Sheriff	Measure	January	February	March	April	May	June	6 Month Totals
Restraint Application	None	38.6%	34.0%	24.5%	22.5%	26.3%	21.7%	27.5%
	Before Transport	61.4%	64.2%	75.5%	76.3%	73.7%	78.3%	72.1%
	During Transport	0.0%	1.9%	0.0%	1.3%	0.0%	0.0%	0.4%
Restraint Type Used	None	38.6%	34.0%	24.5%	22.5%	26.3%	21.7%	27.5%
	Handcuffs	31.8%	32.1%	40.8%	50.0%	36.8%	33.7%	37.8%
	Leg Restraints	0.0%	0.0%	0.0%	0.0%	2.6%	0.0%	0.4%
	Waist Belt	1.1%	0.0%	10.2%	11.3%	13.2%	6.5%	7.4%
	Combination	28.4%	32.1%	24.5%	16.3%	21.1%	38.0%	26.7%
	Other	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Unknown	0.0%	1.9%	0.0%	0.0%	0.0%	0.0%	0.2%

Children Count Summary Tables:

Child - All Transports	Measure	January	February	March	April	May	June	6 Month Totals
Mode of Transport	Ambulance	17	12	6	0	0	1	36
	Sheriff	2	4	0	0	1	0	7
	Other	1	0	0	0	0	0	1
Restraint Application	None	18	15	6	0	0	1	40
	Before Transport	2	1	0	0	1	0	4
	During Transport	0	0	0	0	0	0	0
Restraint Type Used	None	18	15	6	0	0	1	40
	Handcuffs	1	1	0	0	0	0	2
	Leg Restraints	0	0	0	0	0	0	0
	Waist Belt	0	0	0	0	0	0	0
	Combination	1	0	0	0	1	0	2
	Other	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0
Total Transports		20	16	6	0	1	1	44

Child - Ambulance	Measure	January	February	March	April	May	June	6 Month Totals
Restraint Application	None	17	12	6	0	0	1	36
	Before Transport	0	0	0	0	0	0	0
	During Transport	0	0	0	0	0	0	0
Restraint Type Used	None	17	12	6	0	0	1	36
	Handcuffs	0	0	0	0	0	0	0
	Leg Restraints	0	0	0	0	0	0	0
	Waist Belt	0	0	0	0	0	0	0
	Combination	0	0	0	0	0	0	0
	Other	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0
Total Transports		17	12	6	0	0	1	36

Child - Sheriff	Measure	January	February	March	April	May	June	6 Month Totals
Restraint Application	None	0	3	0	0	0	0	3
	Before Transport	2	1	0	0	1	0	4
	During Transport	0	0	0	0	0	0	0
Restraint Type Used	None	0	3	3	0	0	0	3
	Handcuffs	1	1	0	0	0	0	2
	Leg Restraints	0	0	0	0	0	0	0
	Waist Belt	0	0	0	0	0	0	0
	Combination	1	0	0	0	1	0	2
	Other	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0
Total Transports		2	4	0	0	1	0	7

Note: in January, there were 2 transfers where the time of restraint placement was not clear. These are added to the "Before Transport" category.

Children Percentage Summary Tables:

Child - All Transports	Measure	January	February	March	April	May	June	6 Month Totals
Mode of Transport	Ambulance	85.0%	75.0%	100.0%	NA	0.0%	100.0%	81.8%
	Sheriff	10.0%	25.0%	0.0%	NA	100.0%	0.0%	15.9%
	Other	5.0%	0.0%	0.0%	NA	0.0%	0.0%	2.3%
Restraint Application	None	90.0%	93.8%	100.0%	NA	0.0%	100.0%	90.9%
	Before Transport	10.0%	6.3%	0.0%	NA	100.0%	0.0%	9.1%
	During Transport	0.0%	0.0%	0.0%	NA	0.0%	0.0%	0.0%
Restraint Type Used	None	90.0%	93.8%	100.0%	NA	0.0%	100.0%	90.9%
	Handcuffs	5.0%	6.3%	0.0%	NA	0.0%	0.0%	4.5%
	Leg Restraints	0.0%	0.0%	0.0%	NA	0.0%	0.0%	0.0%
	Waist Belt	0.0%	0.0%	0.0%	NA	0.0%	0.0%	0.0%
	Combination	5.0%	0.0%	0.0%	NA	100.0%	0.0%	4.5%
	Other	0.0%	0.0%	0.0%	NA	0.0%	0.0%	0.0%
	Unknown	0.0%	0.0%	0.0%	NA	0.0%	0.0%	0.0%

Child - Ambulance	Measure	January	February	March	April	May	June	6 Month Totals
Restraint Application	None	100.0%	100.0%	100.0%	NA	NA	100.0%	100.0%
	Before Transport	0.0%	0.0%	0.0%	NA	NA	0.0%	0.0%
	During Transport	0.0%	0.0%	0.0%	NA	NA	0.0%	0.0%
Restraint Type Used	None	100.0%	100.0%	100.0%	NA	NA	100.0%	100.0%
	Handcuffs	0.0%	0.0%	0.0%	NA	NA	0.0%	0.0%
	Leg Restraints	0.0%	0.0%	0.0%	NA	NA	0.0%	0.0%
	Waist Belt	0.0%	0.0%	0.0%	NA	NA	0.0%	0.0%
	Combination	0.0%	0.0%	0.0%	NA	NA	0.0%	0.0%
	Other	0.0%	0.0%	0.0%	NA	NA	0.0%	0.0%
	Unknown	0.0%	0.0%	0.0%	NA	NA	0.0%	0.0%

Child - Sheriff	Measure	January	February	March	April	May	June	6 Month Totals
Restraint Application	None	0.0%	75.0%	NA	NA	0.0%	NA	42.9%
	Before Transport	100.0%	25.0%	NA	NA	100.0%	NA	57.1%
	During Transport	0.0%	0.0%	NA	NA	0.0%	NA	0.0%
Restraint Type Used	None	0.0%	75.0%	NA	NA	0.0%	NA	42.9%
	Handcuffs	50.0%	25.0%	NA	NA	0.0%	NA	28.6%
	Leg Restraints	0.0%	0.0%	NA	NA	0.0%	NA	0.0%
	Waist Belt	0.0%	0.0%	NA	NA	0.0%	NA	0.0%
	Combination	50.0%	0.0%	NA	NA	100.0%	NA	28.6%
	Other	0.0%	0.0%	NA	NA	0.0%	NA	0.0%
	Unknown	0.0%	0.0%	NA	NA	0.0%	NA	0.0%

Sheriff Count Summary Table:

Sheriff - All Transports	Measure	January	February	March	April	May	June	6 Month Totals
Age Group	Adult	88	53	98	80	76	92	487
	Child	2	4	0	0	1	0	7
Restraint Application	None	34	21	24	18	20	20	137
	Before Transport	56	35	74	61	57	72	355
	During Transport	0	1	0	1	0	0	2
Restraint Type Used	None	34	21	24	18	20	20	137
	Handcuffs	29	18	40	40	28	31	186
	Leg Restraints	0	0	0	0	2	0	2
	Waist Belt	1	0	10	9	10	6	36
	Combination	26	17	24	13	17	35	132
	Other	0	0	0	0	0	0	0
	Unknown	0	1	0	0	0	0	1
Total Transports		90	57	98	80	77	92	494

Note: in January, there were 27 transfers where the time of restraint placement was not clear. These are added to the "Before Transport" category.

Sheriff Percentage Summary Table:

Sheriff - All Transports	Measure	January	February	March	April	May	June	6 Month Totals
Age Group	Adult	97.8%	93.0%	100.0%	100.0%	98.7%	100.0%	98.6%
	Child	2.2%	7.0%	0.0%	0.0%	1.3%	0.0%	1.4%
Restraint Application	None	37.8%	36.8%	24.5%	22.5%	26.0%	21.7%	27.7%
	Before Transport	62.2%	61.4%	75.5%	76.3%	74.0%	78.3%	71.9%
	During Transport	0.0%	1.8%	0.0%	1.3%	0.0%	0.0%	0.4%
Restraint Type Used	None	37.8%	36.8%	24.5%	22.5%	26.0%	21.7%	27.7%
	Handcuffs	32.2%	31.6%	40.8%	50.0%	36.4%	33.7%	37.7%
	Leg Restraints	0.0%	0.0%	0.0%	0.0%	2.6%	0.0%	0.4%
	Waist Belt	1.1%	0.0%	10.2%	11.3%	13.0%	6.5%	7.3%
	Combination	28.9%	29.8%	24.5%	16.3%	22.1%	38.0%	26.7%
	Other	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Unknown	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%	0.2%

Ambulance Summary Table:

Ambulance - All Transports	Measure	January	February	March	April	May	June	6 Month Totals
Age Group	Adult	33	39	32	52	48	59	263
	Child	17	12	6	0	0	1	36
Restraint Usage Duration	None	49	51	37	52	48	58	295
	During Only	0	0	0	0	0	0	0
	Total	1	0	1	0	0	2	4
Restraint Type Used	None	49	51	37	52	48	58	295
	Handcuffs	0	0	0	0	0	1	1
	Leg Restraints	0	0	0	0	0	0	0
	Waist Belt	0	0	0	0	0	0	0
	Combination	0	0	0	0	0	0	0
	Other	1	0	1	0	0	0	2
	Unknown	0	0	0	0	0	0	1
Total		50	51	38	52	48	60	299

Ambulance Percentage Summary Table:

Ambulance - All Transports	Measure	January	February	March	April	May	June	6 Month Totals
Age Group	Adult	66.0%	76.5%	84.2%	100.0%	100.0%	98.3%	88.0%
	Child	34.0%	23.5%	15.8%	0.0%	0.0%	1.7%	12.0%
Restraint Usage Duration	None	98.0%	100.0%	97.4%	100.0%	100.0%	96.7%	98.7%
	During Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Total	2.0%	0.0%	2.6%	0.0%	0.0%	3.3%	1.3%
Restraint Type Used	None	98.0%	100.0%	97.4%	100.0%	100.0%	96.7%	98.7%
	Handcuffs	0.0%	0.0%	0.0%	0.0%	0.0%	1.7%	0.3%
	Leg Restraints	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Waist Belt	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Combination	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Other	2.0%	0.0%	2.6%	0.0%	0.0%	0.0%	0.7%
	Unknown	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%

NH DRF IEA Patient Transport and Restraint Use Log

Receiving Facility:
Month:

Child (0-17) **Adult (18+)**	**Sending Facility**	**Transport Agency**	**Mode of Transport:** Ambulance Sheriff Other	**Restraints Used At Start of Transfer?** Yes No	**Restraints Used During Transfer?** Yes No	**Restraint Type:** Handcuffs Leg Restraints Waist Belt Combination Other	**If Restraint Type is "Combination" or "Other", please provide more detail:**