

CONFIRE ECNS Analysis

October 2024



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CONFIRE Dispatch Processing of EMS Calls and Disposition of ECNS Eligible Calls

October 2024

The following is an analysis of various ECNS call processing components and disposition of callers participating in the ECNS process. The analysis looks at various components in the call processing continuum including determination of ECNS eligibility, proper transfer and capture in the LowCode ECNS processing software, and final disposition of pre-hospital care. Data for this analysis was extracted from CONFIREs CAD SQL database, the LowCode database, and ImageTrend medical records.

Table 1: EMS 911 calls for service and EMD completion for October 2024

Total Emergency EMS Calls	17,838
Total EMS Calls with Obtainable Determinant Code	13,656
Total EMS Calls with Determinant Code	11,544
% of EMD Obtainable EMS Calls with Determinant Code	84.5%

Table 2: ECNS eligible calls and status of transfers to Emergency Communication Nurse (ECN) for October 2024.

Total Calls Eligible for Low Code:	1,434
% of EMS calls with Determinant Code Eligible for ECNS	12%
Total ECNS Eligible Calls Transferred to ECN (Entered in Low Code)	506
% of Eligible EMS Calls Transferred to ECNS	35.3%
% of Total EMS Calls Transferred to ECNS	2.8%

Table 3: Transport/treatment status of ECNS calls October 2024.

Incoming Calls to Emergency Communications Nurse (ECN) Nurse		
	Total ECNS Transfers	608
	Transferred via CAD Service (did not connect with ECN)	0
	Calls Aborted (Hangups, disconnects)	102
	Total Calls received and completed by ECN	506
Status in ECN Call Center		
	ECN returned call for Emergency Transport	104
	Patient had no alternative means of transport (Returned for non-emergency transport)	196
Ambulance Transport Status		
	Total calls to reach ECN that resulted in an ambulance response	300
	% of total calls to reach ECN that resulted in ambulance response	59.3%
	Total ambulance responses that resulted in a transport	104
	% of response with transport	35%
	Number of ECNS who received ECN direction and did not transport by ambulance.	144

¹ A CAD Service transfer occurs when CAD recognizes that the call is eligible for ECNS and automatically (and often without dispatcher knowledge) moves the call to LowCode electronically, but the dispatcher is not actually moving the call forward via telephone line to live ECN. There may be a number of reasons why this occurs, but for tracking purposes, it is not counted as an actual ECNS transfer. The call is actually being handled like a standard dispatched call with no time delays.

Table 4: Unit responses and ambulance transport rates to ECNS calls that were returned for first responders for October 2024 (by call type). Top 25 Call Types.

Call Type	Total Calls in LowCode	Total LowCode calls referred back for a Response	Total Responses with Transport	Call Type as % of Total Transports
SICK-A8	43	41	31	10.5%
BACK-A1	35	29	23	7.8%
FALL-A2	38	35	22	7.5%
SICK-O1	28	25	21	7.1%
SICK-A3	22	20	20	6.8%
SICK-A2	27	24	20	6.8%
SICK-A11	29	25	19	6.4%
ABD-A1	15	15	14	4.7%
FALL-A3	23	21	12	4.1%
SICK-A4	15	14	11	3.7%
DIA-O1	18	15	11	3.7%
TRAUMA-A2	12	12	10	3.4%
TRAUMA-A2	11	11	9	3.1%
TRAUMA-A1	11	11	9	3.1%
TRAUMA-A1	12	12	8	2.7%
FALL-O1	10	9	7	2.4%
ALL-A1	9	8	7	2.4%
SOB - Shortness of Breath	7	6	6	2.0%
SICK-A6	11	11	6	2.0%
FALL-A1	14	11	5	1.7%
TRAUMA-A3	13	10	5	1.7%
TRAUMA-A3	7	6	4	1.4%
HEAD-O1	6	6	4	1.4%
HL-A1	4	4	4	1.4%
TRAUMA-O1	7	7	4	1.4%

Table 5: Recommended Point of Care Disposition for patients completing ECNS process for October 2024*.

Point of Care Selected by ECN	# of patients	% of all care recommendations given
Seek Emergency Care as Soon as Possible	158	45.0%
Emergency Response	104	29.6%
Seek Face to Face Care within 1-4 Hours	66	18.8%
Schedule an Appointment to be Seen by a Doctor/Health Care Professional within the Next 12 Hours (same day)	7	2.0%
Speak to Your Doctor/Health Care Professional to Review the Symptoms As Soon As Possible	5	1.4%
Schedule an Appointment to be Seen by a Doctor/Health Care Professional within the Next 1-3 Days	4	1.1%
Schedule a Routine Appointment with a Doctor/Health Care Professional	3	0.9%
Self-Care	1	0.3%
Contact Poison Control or Local Pharmacist	1	0.3%
Contact Dentist Urgently	1	0.3%
Contact Obstetrician / Gynecologist / Midwife	1	0.3%

**This represents recommended care given by the ECN. The ECNS program does not have a mechanism to follow up on whether callers follow through with the recommendations. Also, the numbers in this table includes callers who were provided a recommendation that did not require ambulance transport, but received that transport anyway due to lack of alternative transportation (see table 3 for detail).*

Figure 1: Percentage of ECNS eligible Calls that are transferred to ECN and entered into Low Code system by date.

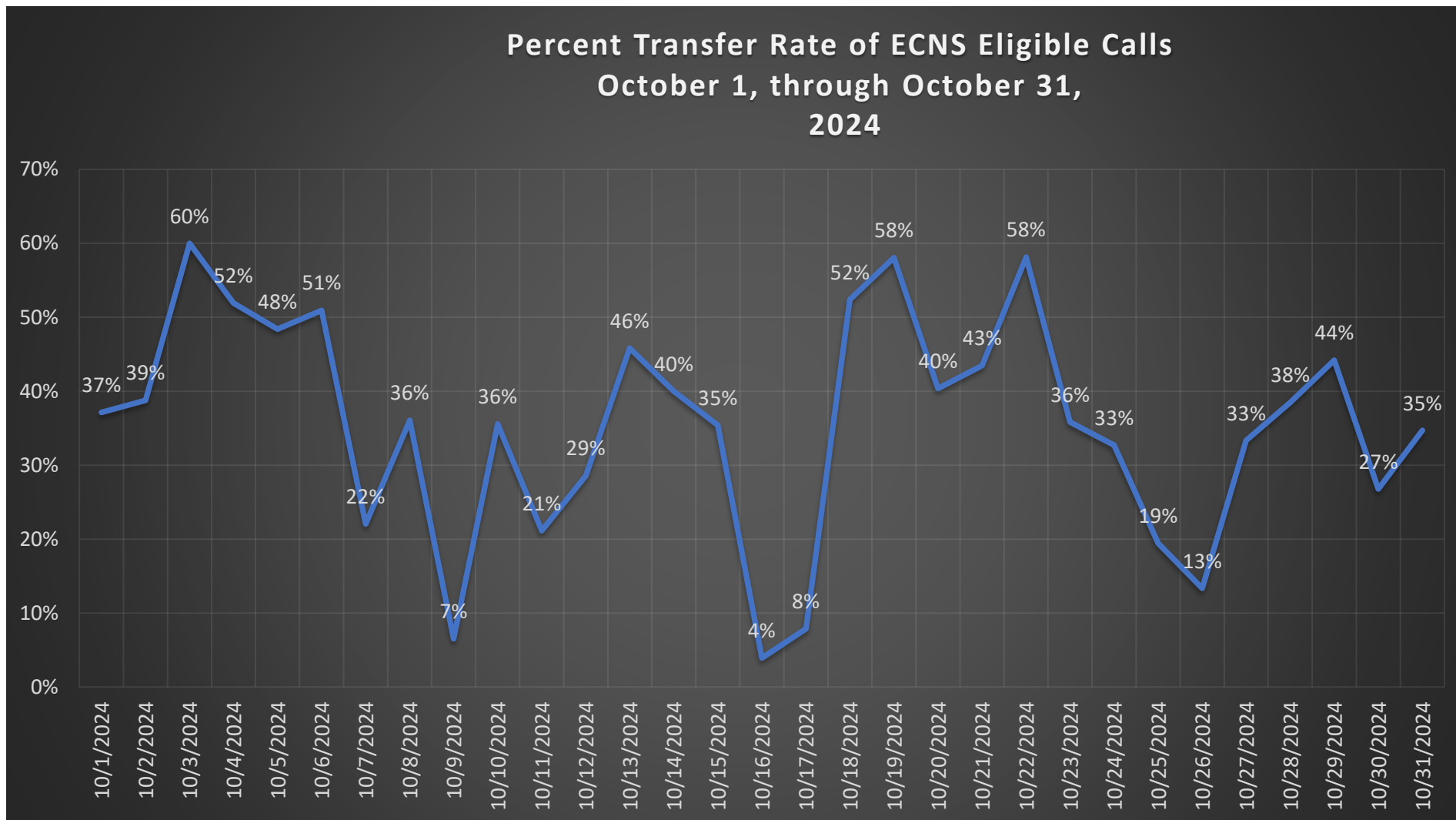


Figure 2: Total number of ECNS eligible calls and the number of them that were transferred to an ECN/entered into Low Code by date.

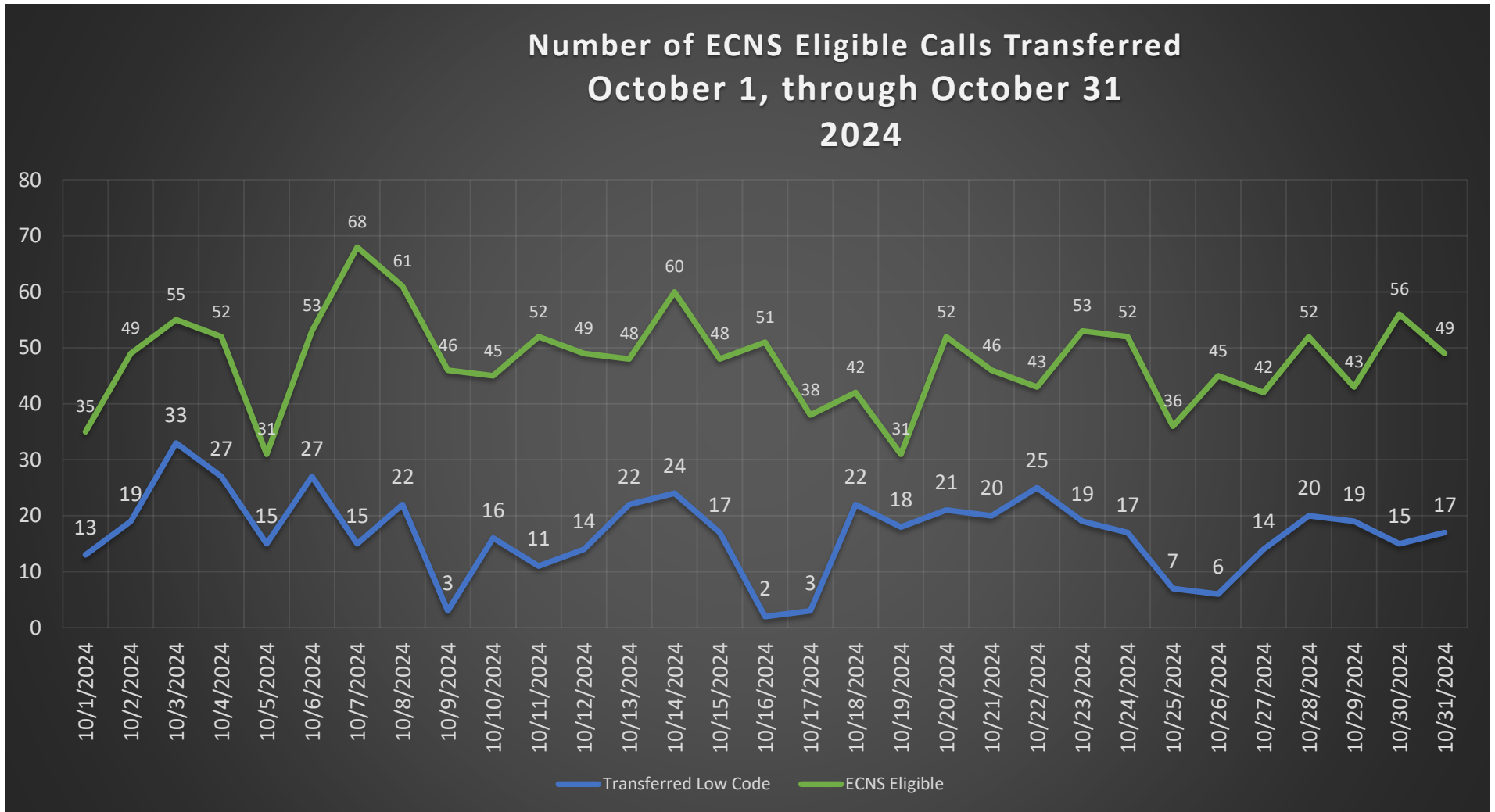


Figure 3: 12-month analysis of ECNS eligible calls and rates of transfer to ECN/Low Code system.

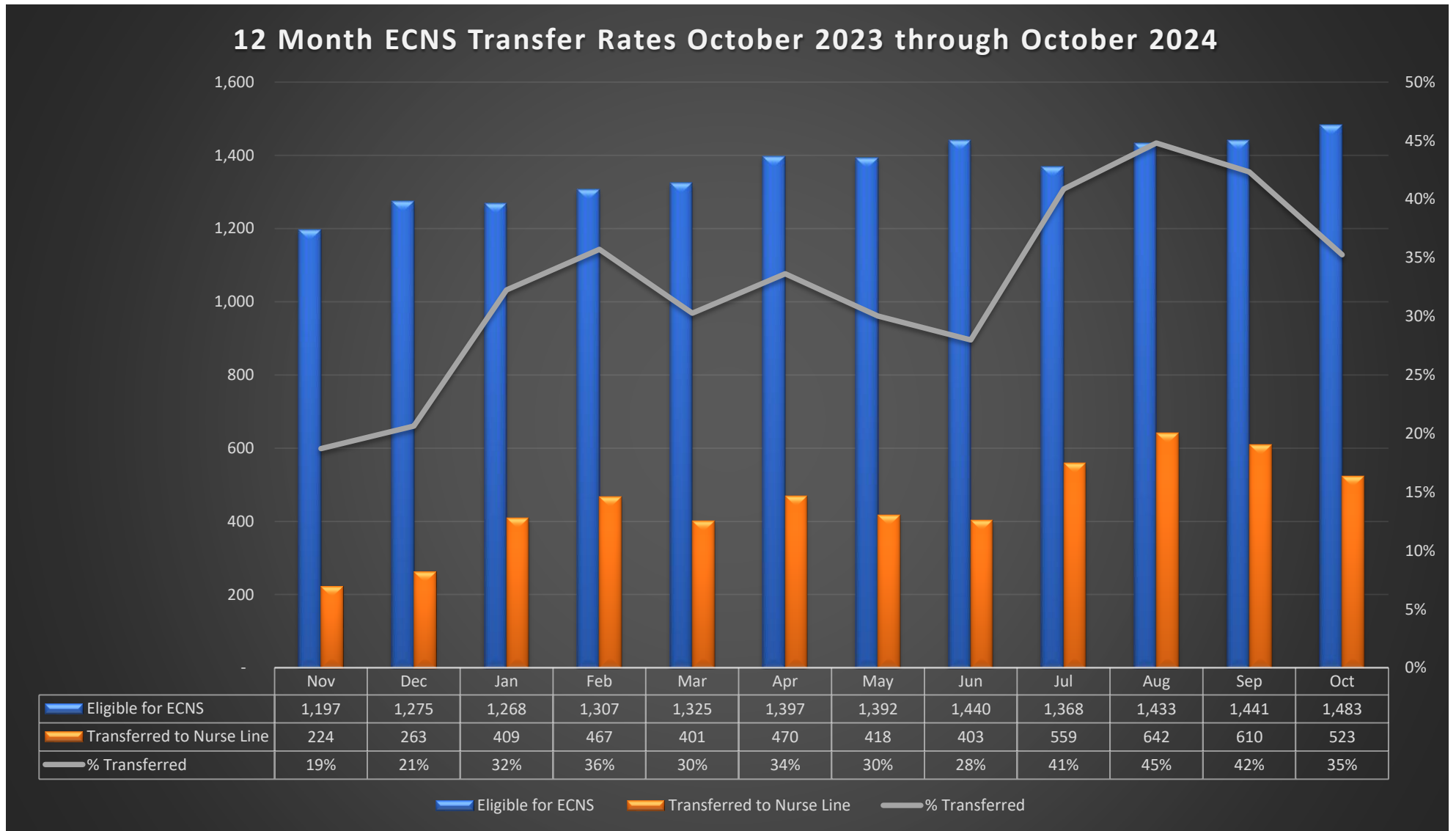
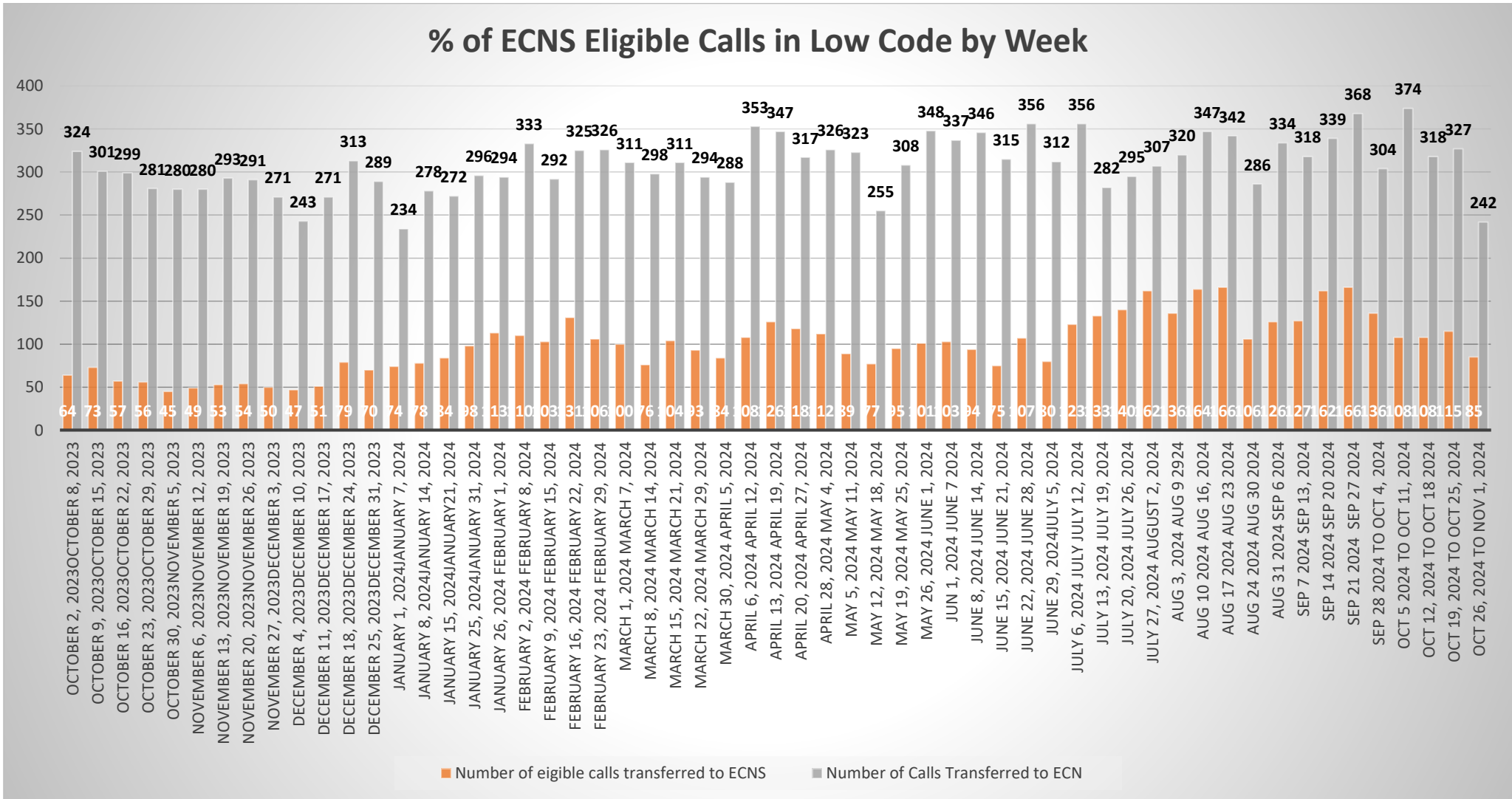


Figure 4: Number of eligible ECNS calls and rates of transfer from October 2023 through October 2024.



Reasons why ECNS Eligible Calls were not Transferred to the ECNS Nurse Line

October 2024

CONFIRE’s CAD is programmed to prompt the dispatcher each time a call is determined to be eligible for transfer to the ECNS system. Eligibility is based on the established determinant code for the call. The dispatcher has the option of bypassing ECNS and sending a standard response for the call but must provide a reason for doing so from a pre-defined list. Below is a summary of reasons calls were not transferred.

These determinations are based on the information that the dispatcher has available and how they interpret the information, so there is a level of subjectivity. Furthermore, because it is a pre-defined list, the categories may not cover the specific situation of each call. Therefore, the dispatcher needs to make a judgement call as to the closest matching category, not necessarily the exact situation.

Table 6: Dispatcher response as to why eligible calls were not transferred to ECNS.

Disposition Text from CAD	Number of Calls	% of Total Eligible Calls Not Sent to LowCode
*Call Taker decided to not send incident to LowCode, with reason: ECN NOT AVAIL= No ECN staff at CONFIRE and REMSA or hold music on transfer (Sup Approval)	697	74.5%
*Call Taker decided to not send incident to LowCode, with reason: ECN NOT AVAIL= No ECN staffing or hold music on transfer	0	0.0%
*Call Taker decided to not send incident to LowCode, with reason: INABILITY TO INTERROGATE PT= Inability to talk, belligerent, RP not at same location	0	0.0%
*Call Taker decided to not send incident to LowCode, with reason: MEDICAL FACILITY RP= RN/Dr requesting 911 AND is at PT bedside	81	8.7%
*Call Taker decided to not send incident to LowCode, with reason: PT COMPLETE IMMOBILITY= Cannot move, bedridden or on the ground unable to get up	0	0.0%
*Call Taker decided to not send incident to LowCode, with reason: PT IN PUBLIC PLACE= PT is in an area where large crowds are gathering (i.e. sports complex)	0	0.0%
*Call Taker decided to not send incident to LowCode, with reason: QUICK LAUNCH= CPR, UNC, CP, SOB, CVA	80	8.6%
*Call Taker decided to not send incident to LowCode, with reason: REOPENED CALL= Reopened call	26	2.8%
*Call Taker decided to not send incident to LowCode, with reason: RP IS MINOR= PT is a minor at school or NO adult on scene	25	2.7%

*Call Taker decided to not send incident to LowCode, with reason: TEST/REOPENED CALL= Test or reopened call	0	0.0%
*Call Taker decided to not send incident to LowCode, with reason: MEDICAL FACILITY RP= Staff requesting 911 or PT directed by medical facility to call 911	0	0.0%
*Call Taker decided to not send incident to LowCode, with reason: RP IS MINOR= RP is a child caller <16 or RP is a minor calling for minor PT	0	0.0%
* Call Taker decided to not send incident to LowCode, with reason: PUBLIC SERVICE= A public service has been dispatched	0	0.0%
* Call Taker decided to not send incident to LowCode, with reason: REOPENED CALL= Reopened call	26	2.8%