

eTable 1. EMCC dispatcher recognition of stroke in 2015

	True stroke	Not stroke	Total
Suspected stroke (N)	983	2,560	3,543
Not suspected stroke (N)	594	68,579	69,173
Total	1,577	71,139	72,716
Sensitivity			0.62 (0.60, 0.65)
Specificity			0.96 (0.96, 0.97)
Positive predictive value			0.28 (0.26, 0.29)
Negative predictive value			0.99 (0.99, 0.99)

eTable 2. EMCC dispatcher recognition of stroke in 2016

	True stroke	Not stroke	Total
Suspected stroke (N)	972	2,587	3,559
Not suspected stroke (N)	641	74,303	74,944
Total	1,613	76,890	78,503
Sensitivity			0.60 (0.58, 0.63)
Specificity			0.97 (0.97, 0.97)
Positive predictive value			0.27 (0.26, 0.29)
Negative predictive value			0.99 (0.99, 0.99)

eTable 3. EMCC dispatcher recognition of stroke in 2017

	True stroke	Not stroke	Total
Suspected stroke (N)	1,076	2,670	3,746
Not suspected stroke (N)	621	71,442	72,063
Total	1,697	74,112	75,809
Sensitivity			0.63 (0.61, 0.66)
Specificity			0.96 (0.96, 0.97)
Positive predictive value			0.29 (0.27, 0.30)
Negative predictive value			0.99 (0.99, 0.99)

eTable 4. EMCC dispatcher recognition of stroke in 2018

	True stroke	Not stroke	Total
Suspected stroke (N)	1,154	2,990	4,144
Not suspected stroke (N)	661	74,419	75,080
Total	1,815	77,409	79,224
Sensitivity			0.64 (0.61, 0.66)
Specificity			0.96 (0.96, 0.96)
Positive predictive value			0.28 (0.26, 0.29)
Negative predictive value			0.99 (0.99, 0.99)

eTable 5. EMCC dispatcher recognition of stroke in 2019

	True stroke	Not stroke	Total
Suspected stroke (N)	1,288	3,394	4,682
Not suspected stroke (N)	658	71,884	72,542
Total	1,946	75,278	77,224
Sensitivity			0.66 (0.64, 0.68)
Specificity			0.95 (0.95, 0.96)
Positive predictive value			0.28 (0.26, 0.29)
Negative predictive value			0.99 (0.99, 0.99)

eTable 6. EMCC dispatcher recognition of stroke in 2020

	True stroke	Not stroke	Total
Suspected stroke (N)	1,530	3,794	5,324
Not suspected stroke (N)	715	72,514	73,229
Total	2,245	76,308	78,553
Sensitivity			0.68 (0.66, 0.70)
Specificity			0.95 (0.95, 0.95)
Positive predictive value			0.29 (0.28, 0.30)
Negative predictive value			0.99 (0.99, 0.99)

eTable 7. OOHS dispatcher recognition of stroke in 2015

	True stroke	Not stroke	Total
Suspected stroke (N)	246	692	938
Not suspected stroke (N)	956	415,067	416,023
Total	1,202	415,759	416,961
Sensitivity	0.20 (0.18, 0.23)		
Specificity	>0.99 (>0.99, >0.99)		
Positive predictive value	0.26 (0.23, 0.29)		
Negative predictive value	>0.99 (>0.99, >0.99)		

eTable 8. OOHS dispatcher recognition of stroke in 2016

	True stroke	Not stroke	Total
Suspected stroke (N)	259	808	1,067
Not suspected stroke (N)	1,049	440,432	441,481
Total	1,308	441,240	442,548
Sensitivity	0.20 (0.18, 0.22)		
Specificity	>0.99 (>0.99, >0.99)		
Positive predictive value	0.24 (0.22, 0.27)		
Negative predictive value	>0.99 (>0.99, >0.99)		

eTable 9. OOHS dispatcher recognition of stroke in 2017

	True stroke	Not stroke	Total
Suspected stroke (N)	355	1,150	1,505
Not suspected stroke (N)	1,035	445,009	446,044
Total	1,390	446,159	447,549
Sensitivity	0.26 (0.23, 0.28)		
Specificity	>0.99 (>0.99, >0.99)		
Positive predictive value	0.24 (0.21, 0.26)		
Negative predictive value	>0.99 (>0.99, >0.99)		

eTable 10. OOHS dispatcher recognition of stroke in 2018

	True stroke	Not stroke	Total
Suspected stroke (N)	434	1,515	1,949
Not suspected stroke (N)	1,117	440,250	441,367
Total	1,551	441,765	443,316
Sensitivity			0.28 (0.26, 0.30)
Specificity			>0.99 (>0.99, >0.99)
Positive predictive value			0.22 (0.20, 0.24)
Negative predictive value			>0.99 (>0.99, >0.99)

eTable 11. OOHS dispatcher recognition of stroke in 2019

	True stroke	Not stroke	Total
Suspected stroke (N)	478	1,744	2,222
Not suspected stroke (N)	1,254	424,694	425,948
Total	1,732	426,438	428,170
Sensitivity			0.28 (0.26, 0.30)
Specificity			>0.99 (>0.99, >0.99)
Positive predictive value			0.22 (0.20, 0.23)
Negative predictive value			>0.99 (>0.99, >0.99)

eTable 12. OOHS dispatcher recognition of stroke in 2020

	True stroke	Not stroke	Total
Suspected stroke (N)	430	1,999	2,429
Not suspected stroke (N)	1,292	391,600	392,892
Total	1,722	393,599	395,321
Sensitivity			0.25 (0.23, 0.27)
Specificity			0.99 (0.99, >0.99)
Positive predictive value			0.18 (0.16, 0.19)
Negative predictive value			>0.99 (>0.99, >0.99)

Sex disaggregated analyses:**eTable 13. EMS - Men**

	True stroke	Not stroke	Total
Suspected stroke (N)	3,884	8,986	12,870
Not suspected stroke (N)	2,016	222,697	224,713
Total	5,900	231,683	237,583
Sensitivity			0.66 (0.65, 0.67)
Specificity			0.96 (0.96, 0.96)
Positive predictive value			0.30 (0.29, 0.31)
Negative predictive value			0.99 (0.99, 0.99)

eTable 14. EMS - Women

	True stroke	Not stroke	Total
Suspected stroke (N)	3,119	9,009	12,128
Not suspected stroke (N)	1,874	210,442	212,316
Total	4,993	219,451	224,444
Sensitivity			0.62 (0.61, 0.64)
Specificity			0.96 (0.96, 0.96)
Positive predictive value			0.26 (0.25, 0.27)
Negative predictive value			0.99 (0.99, 0.99)

eTable 15. OOHS - Men

	True stroke	Not stroke	Total
Suspected stroke (N)	1,212	3,499	4,711
Not suspected stroke (N)	3,453	1,104,589	1,108,042
Total	4,665	1,108,088	1,112,753
Sensitivity			0.26 (0.25, 0.27)

Specificity	>0.99 (>0.99, >0.99)
Positive predictive value	0.26 (0.24, 0.27)
Negative predictive value	>0.99 (>0.99, >0.99)

eTable 16. OOHS - Women

	True stroke	Not stroke	Total
Suspected stroke (N)	990	4,409	5,399
Not suspected stroke (N)	3,250	1,452,463	1,455,713
Total	4,240	1,456,872	1,461,112
Sensitivity	0.23 (0.22, 0.25)		
Specificity	>0.99 (>0.99, >0.99)		
Positive predictive value	0.18 (0.17, 0.19)		
Negative predictive value	>0.99 (>0.99, >0.99)		

eTable 17. EMCC and OOHS dispatcher recognition of stroke by year:

	2015	2016	2017	2018	2019	2020
Sensitivity	0.62 (0.60, 0.65)	0.60 (0.58, 0.63)	0.63 (0.61, 0.66)	0.64 (0.61, 0.66)	0.66 (0.64, 0.68)	0.68 (0.66, 0.70)
Specificity	0.96 (0.96, 0.97)	0.97 (0.97, 0.97)	0.96 (0.96, 0.97)	0.96 (0.96, 0.96)	0.95 (0.95, 0.96)	0.95 (0.95, 0.95)
Positive predictive value	0.28 (0.26, 0.29)	0.27 (0.26, 0.29)	0.29 (0.27, 0.30)	0.28 (0.26, 0.29)	0.28 (0.26, 0.29)	0.29 (0.28, 0.30)
Negative predictive value	0.99 (0.99, 0.99)	0.99 (0.99, 0.99)	0.99 (0.99, 0.99)	0.99 (0.99, 0.99)	0.99 (0.99, 0.99)	0.99 (0.99, 0.99)

eTable 18. OOHS dispatcher recognition of stroke by year

	2015	2016	2017	2018	2019	2020
Sensitivity	0.20 (0.18, 0.23)	0.20 (0.18, 0.22)	0.26 (0.23, 0.28)	0.28 (0.26, 0.30)	0.28 (0.26, 0.30)	0.25 (0.23, 0.27)
Specificity	>0.99	>0.99	>0.99	>0.99	>0.99	0.99 (0.99, >0.99)
Positive predictive value	0.26 (0.23, 0.29)	0.24 (0.22, 0.27)	0.24 (0.21, 0.26)	0.22 (0.20, 0.24)	0.22 (0.20, 0.23)	0.18 (0.16, 0.19)
Negative predictive value	>0.99	>0.99	>0.99	>0.99	>0.99	>0.99