

EXPERIENCE GAINED IN NUMBERS
(Sample: 1484 medical students)



13783

Diagnosed patients



163029

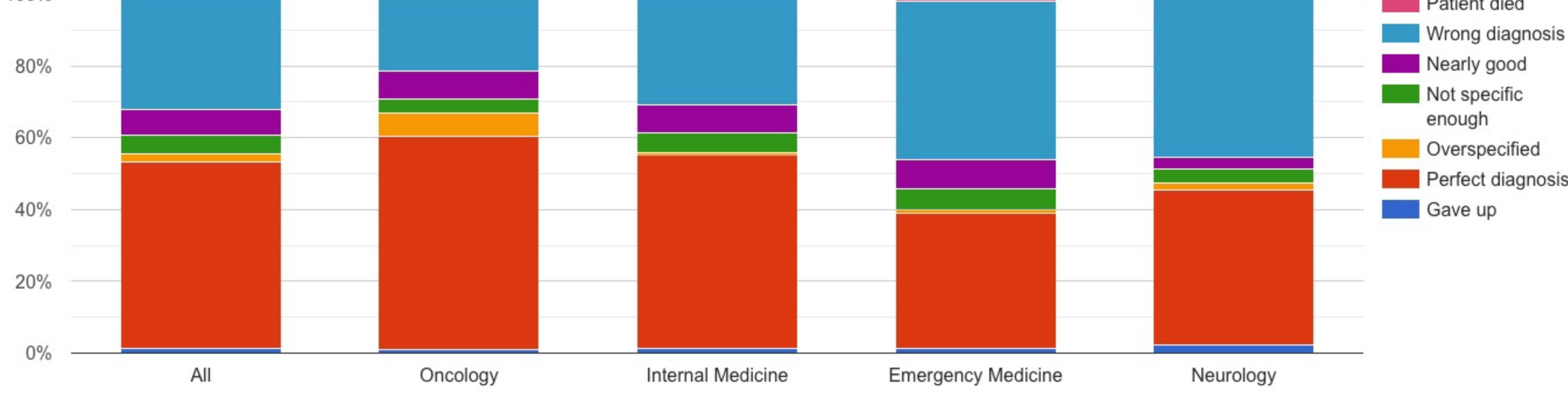
Ordered tests

The number of virtual patients that the students diagnosed in the iSimu app.	
Avarage	9.29
Min	0
Max	1,093
Median	0

The average number of diagnostic tests that students ordered to diagnose one patient.	
Average per patient	11
Min per patient	0
Max per patient	50
Median per patient	10
Average per user	110
Min per user	0
Max per user	6,030
Median per user	0

Accuracy of the Diagnosis

Rate of finding the correct diagnosis



[Download chart data](#) [Download chart PNG](#)

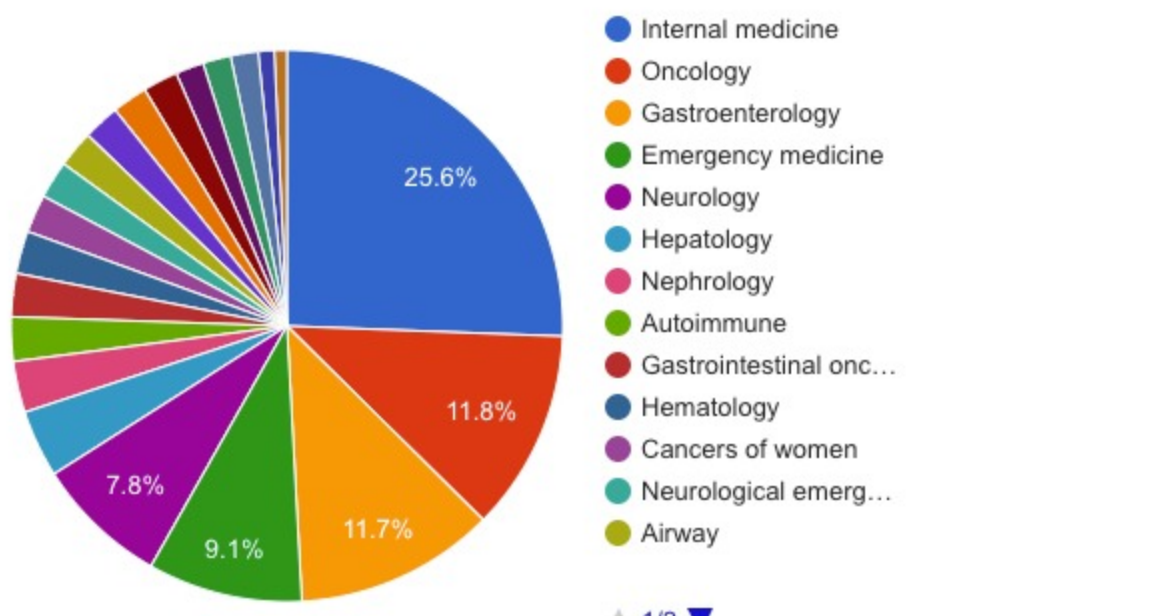
Result	All*	Oncology	Internal Medicine	Emergency Medicine	Neurology
Gave up	196	36	117	43	55
Perfect diagnosis	7,153	2,339	4,582	1,132	1,118
Overspecified	323	250	61	29	57
Not specific enough	680	159	457	178	97
Nearly good	1,000	305	685	237	82
Wrong diagnosis	4,333	840	2,545	1,334	1,175
Patient died	98	0	76	58	5

*Specializations overlap, thus "All" is not the sum of the four specialization

Specializations

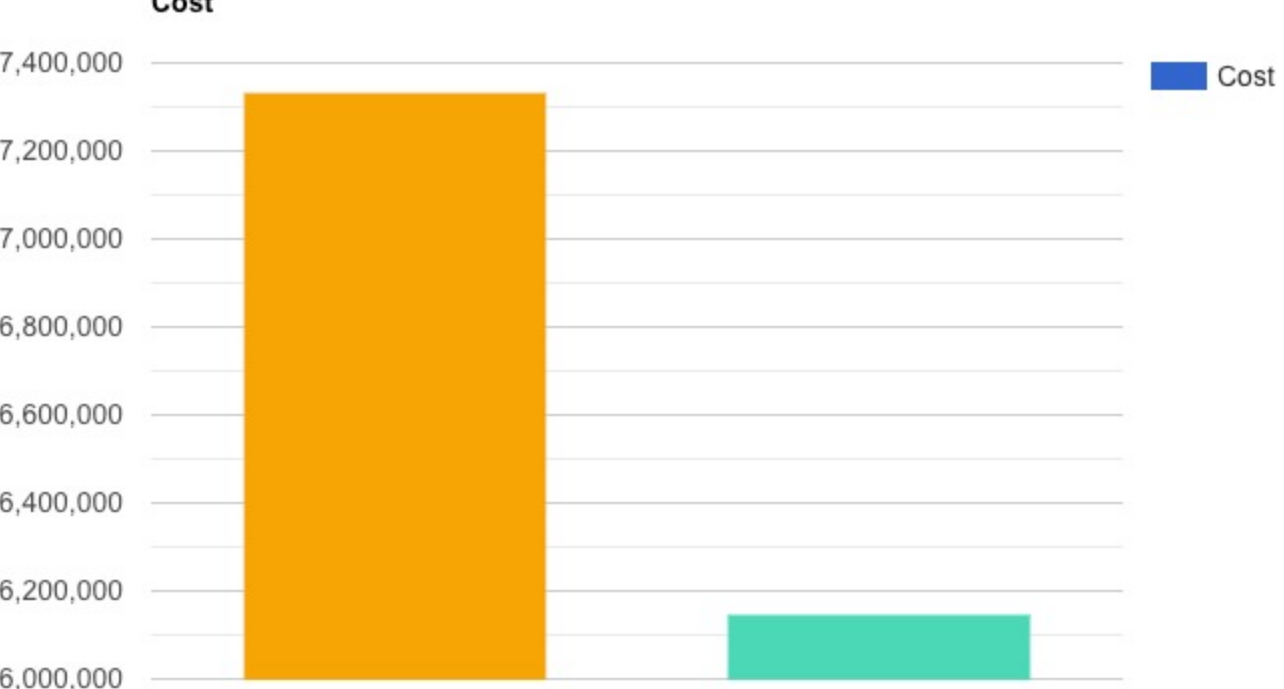
Specialization	Count
Internal medicine	8,530
Oncology	3,935
Gastroenterology	3,914
Emergency medicine	3,018
Neurology	2,596
Hepatology	1,316
Nephrology	999
Autoimmune	865
Gastrointestinal oncology	844
Hematology	833
Cancers of women	743
Neurological emergency	733
Airway	722
Head and neck	715
Stomach	690
Common infections	684
Difficuit ones	550
Inflammatory bowel disease	548
Mineral	536
Endocrine oncology	311
Overdose	247

Specializations

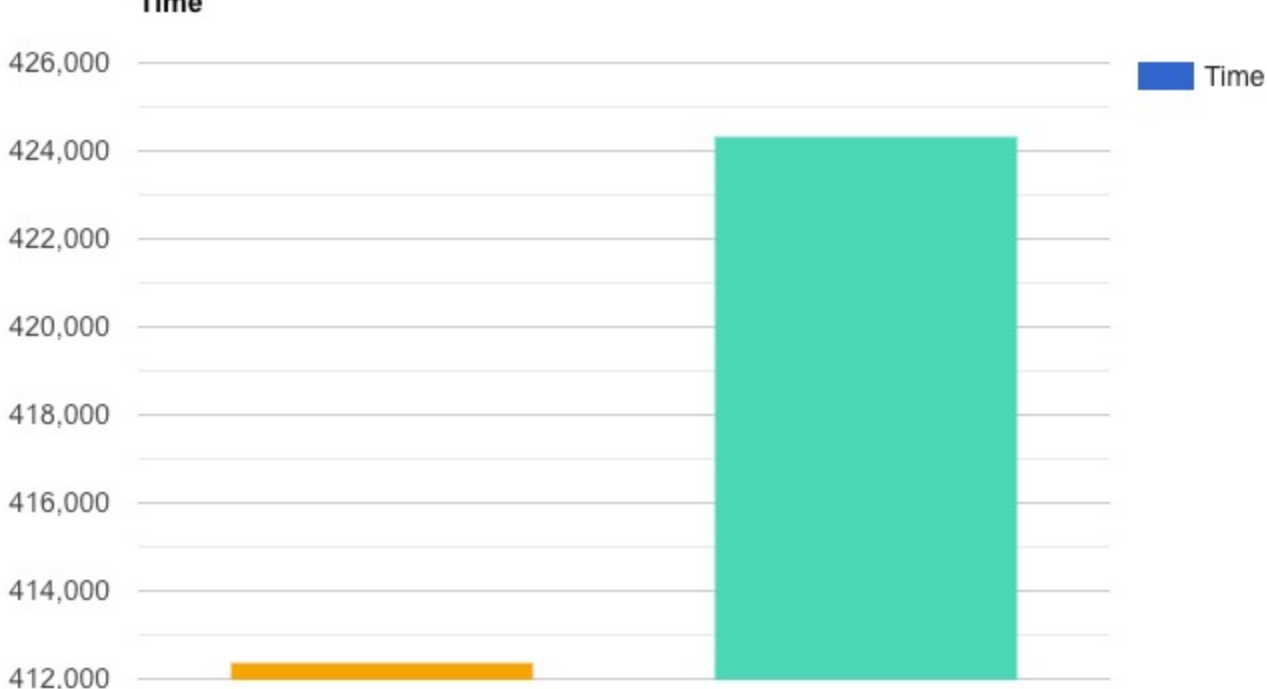


[Download chart data](#) [Download chart PNG](#)

Cost and Time



[Download chart data](#) [Download chart PNG](#)



[Download chart data](#) [Download chart PNG](#)

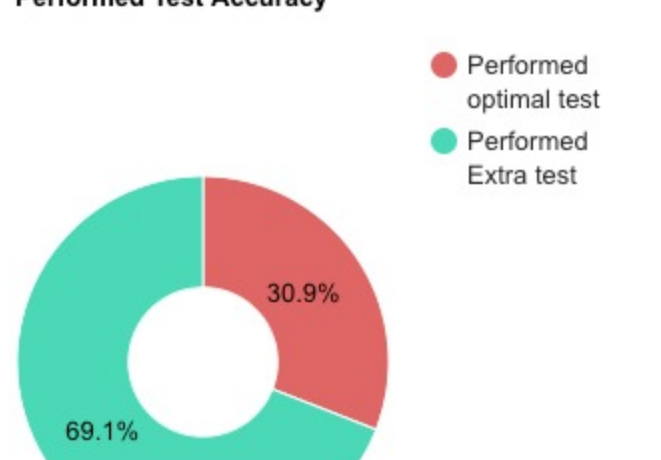
The students spent 19% more on tests than optimal

	Total	Optimal
Cost	\$ 7,331,131	\$ 6,143,473
Time	412,356 h	424,305 h

Metric	Description	Total
Cost of ordered diagnostic tests	The total cost of diagnostic tests ordered by students.	\$ 7,331,131
Optimal cost of diagnostic tests	The optimal cost of diagnostic tests using the optimal diagnostic pathways.	\$ 6,143,473
Extra costs	The amount of money that could have been saved.	\$ -1,187,658

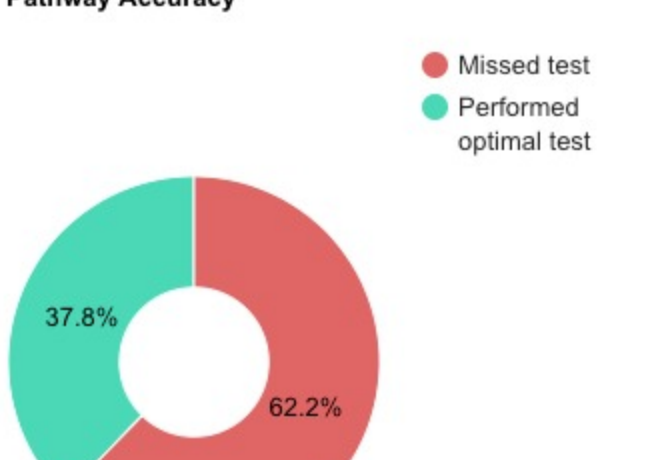
Missed Tests

Performed Test Accuracy



[Download chart data](#) [Download chart PNG](#)

Pathway Accuracy

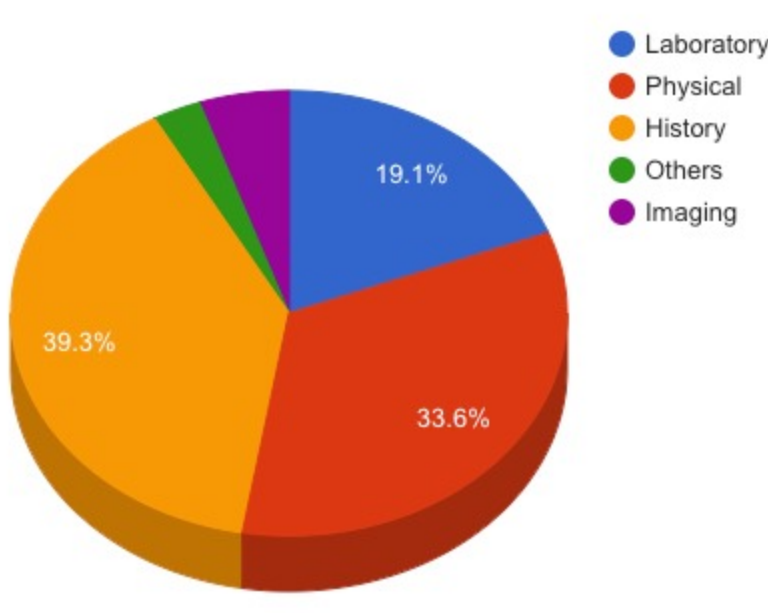


[Download chart data](#) [Download chart PNG](#)

	Pathway Accuracy
Missed tests	120,359
Performed optimal tests	73,012
All performed tests	163,029

Metric	Description	Total
Number of missed diagnostic tests	Total number of diagnostic tests that are parts of the optimal diagnostic pathway but students missed to order them.	120,359
Number of optimal diagnostic tests	Total number of diagnostic tests that are parts of the optimal diagnostic pathway in cases solved by students.	73,012
Rate (Missed/Optimal)	Shows the rate of missed tests.	42 %

Number of missed tests per test type

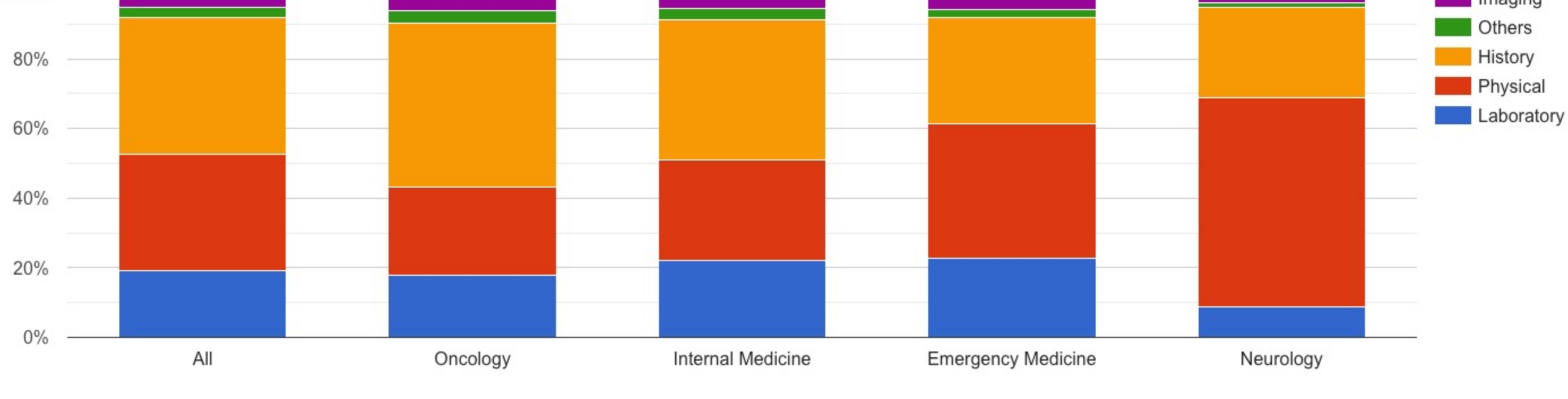


[Download chart data](#) [Download chart PNG](#)

Category	Count
Laboratory	23,004
Physical	40,400
History	47,264
Others	3,402
Imaging	6,289

TOP10 most common missed tests	Number of missed tests
Gastrointestinal History	4,355
Other Diseases	4,064
Abdominal Physical	3,888
Pain	3,744
General Appearance	3,624
Skin Physical	3,368
Fatigue and Weakness	3,299
Vital Signs	3,156
Weight Change	3,009
Social History	2,944

Missed test types by Specializations



[Download chart data](#) [Download chart PNG](#)

Category	All*	Oncology	Internal Medicine	Emergency Medicine	Neurology
Laboratory	23,004	6,973	14,713	7,012	2,404
Physical	40,400	9,824	18,990	11,813	16,216
History	47,264	18,205	26,806	9,336	6,998
Others	3,402	1,390	2,135	663	378
Imaging	6,289	2,424	3,578	1,836	1,053

*Specializations overlap, thus "All" is not the sum of the four specialization

Category	Optimal pathway elements	Ordered from optimal pathway	Missed from Optimal pathway	Ordered extra tests (not part or optimal pathway)
Laboratory	32034	9030	23004	17236
Physical	62327	21927	40400	15876
History	79789	32525	47264	48860
Others	5269	1867	3402	2463
Imaging	13952	7663	6289	11177