

NAEC Update – 2024 Center Annual Report Data

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Overview of 2024 Accreditation Results



2023 vs 2024 NAEAC Membership

Number of Members in 2023	254
Number of applicants due to the adult/ped split	49
Number of applicants at new centers	15
Number of centers who did not complete process or withdrew	- 9
Total number of centers at the end of 2024 accred process	309 (net increase 55 centers)



Center Demographics – 2024 vs 2023

2024 Center Demographics				
	Adult	Adult/Pediatric	Pediatric	Total
Level 4	134 (+55)	16 (-55)	81 (+35)	231 (+35)
Level 3	47 (+4)	7 (-4)	24 (+20)	78 (+20)
Total	181 (+59)	23 (-59)	105 (+55)	309 (+55)
Note: (changes) are compared to 2023				



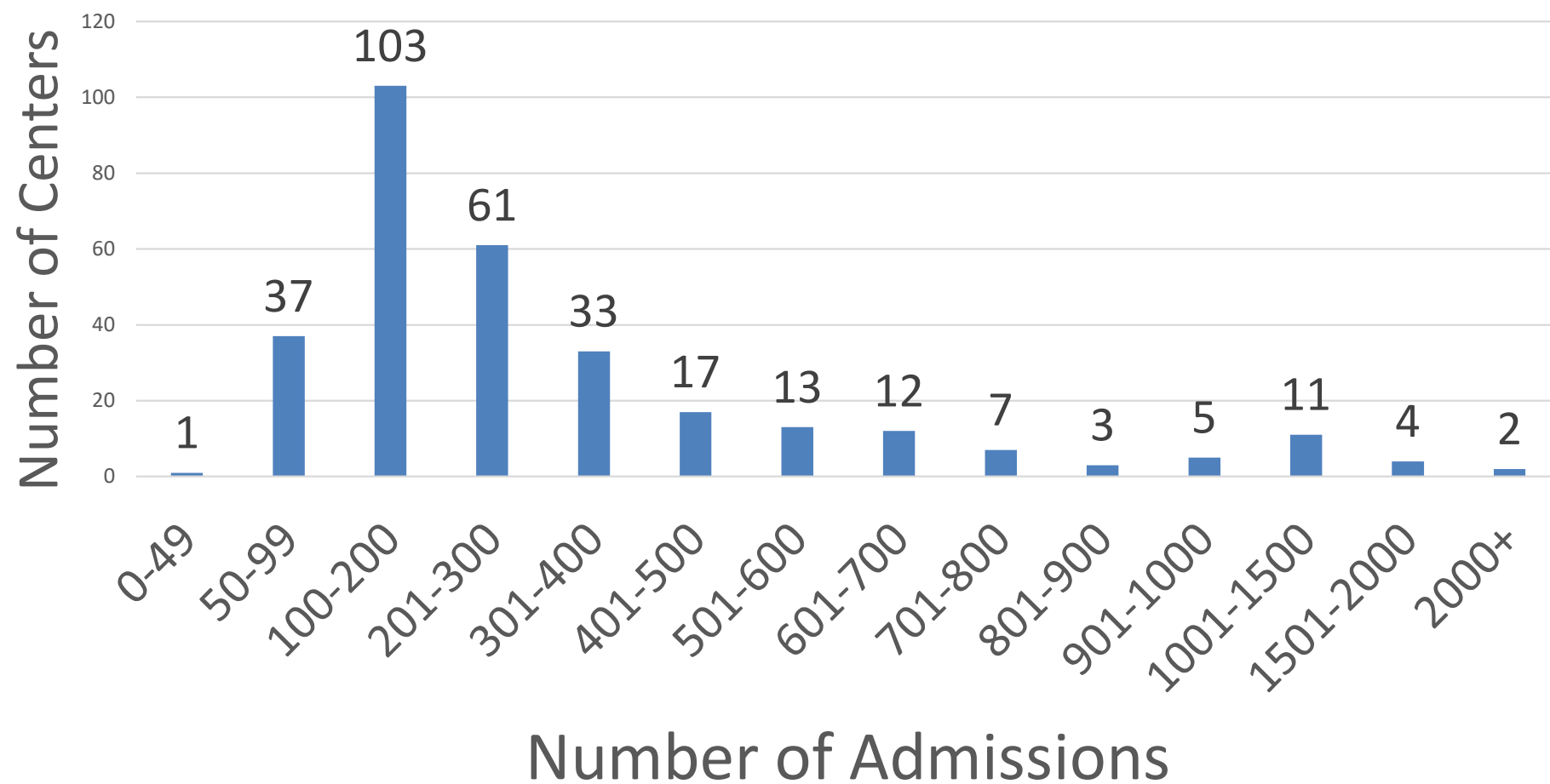
2024 Accreditation Decisions

	# of Centers
Level 4	211 (+38 from 2023)
Level 4 Conditional	20 (-3 from 2023)
Level 3	78 (+27 from 2023)
Level 3 Conditional	0 (-7 from 2023)
No Accreditation	5

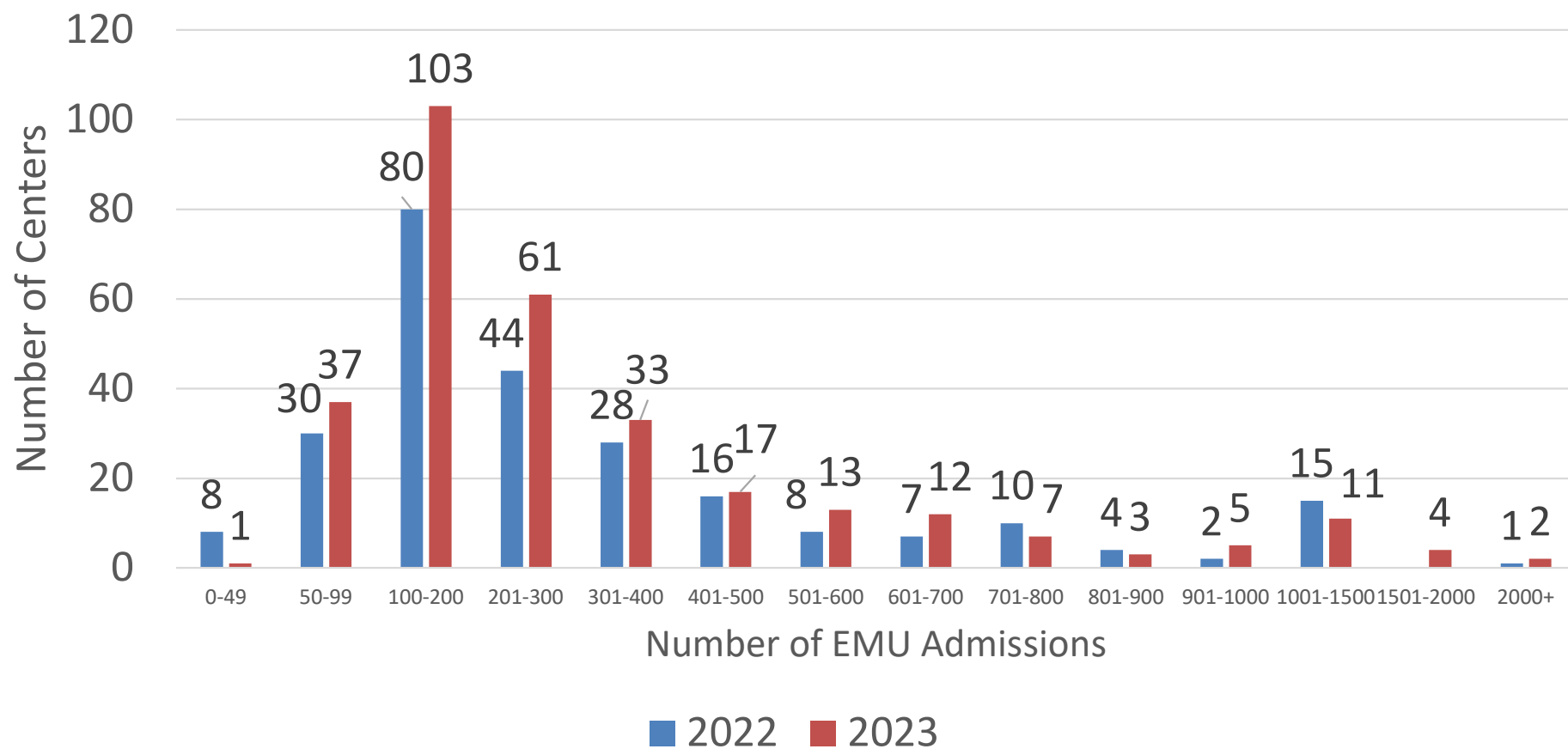
Detailed 2023 Data



EMU Admissions - 2023



EMU Admissions - 2022 and 2023



2023 EMU Admissions – Total Patients

2023 Total EMU Admissions: 104,666

2022 Total EMU Admissions: 84,858

2021 Total EMU Admissions: 84,532

2020 Total EMU Admissions: 68,992

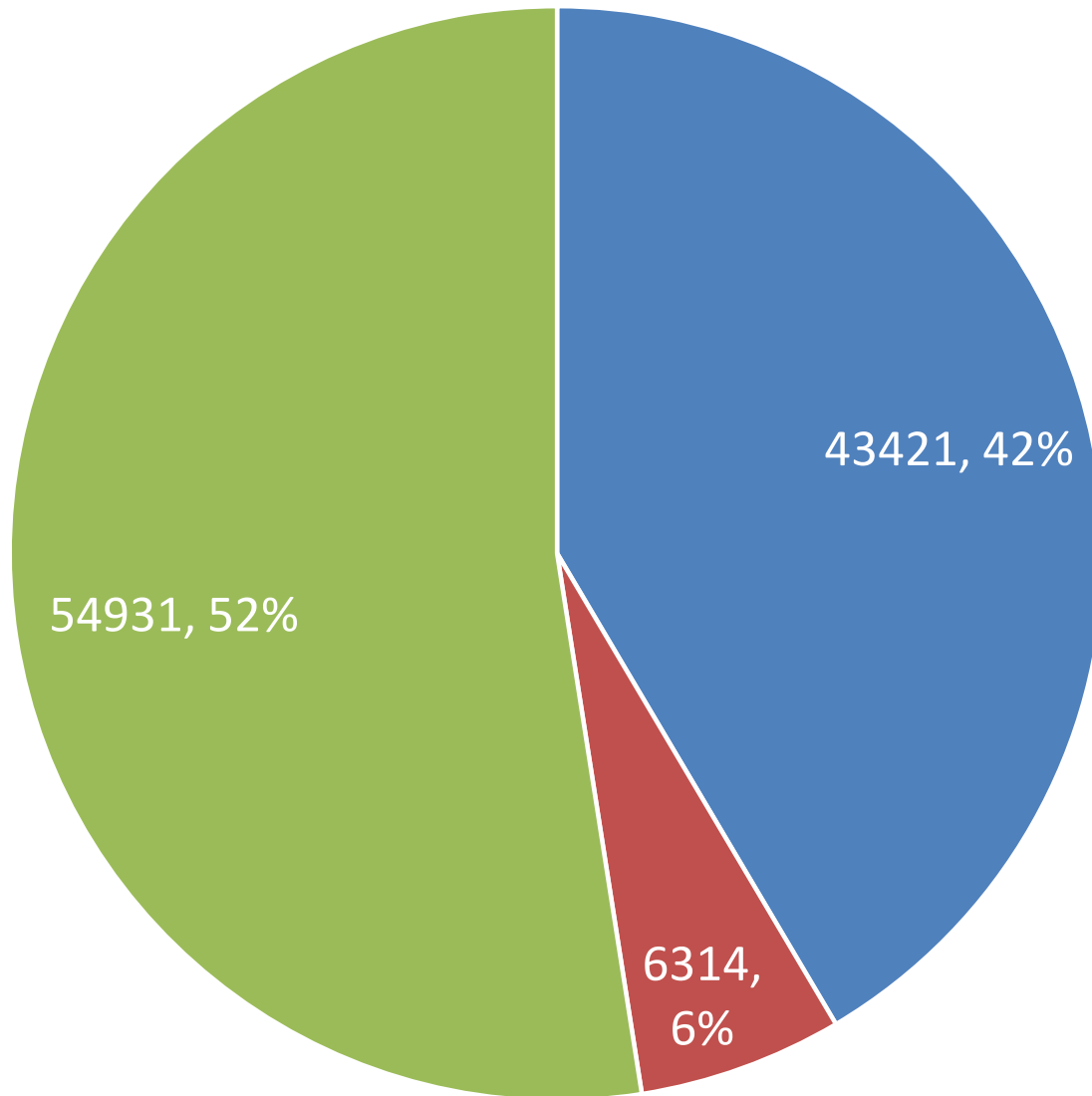
2019 Total EMU Admissions: 95,565

2018 Total EMU Admissions: 99,173

Total Patients <18	Total Patients 19+
56,007	48,659



2023 EMU Admissions by Center Type

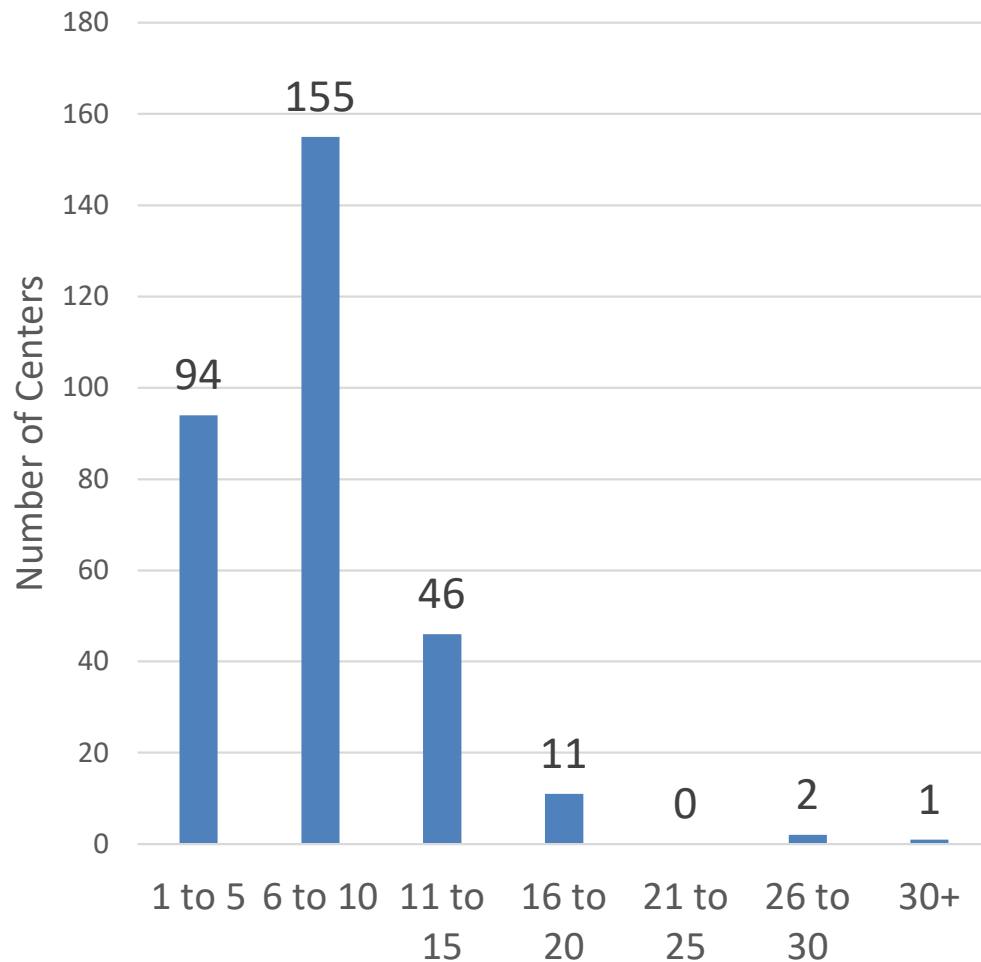


- Adult Centers
- Adult-Pediatric Centers
- Pediatric Centers

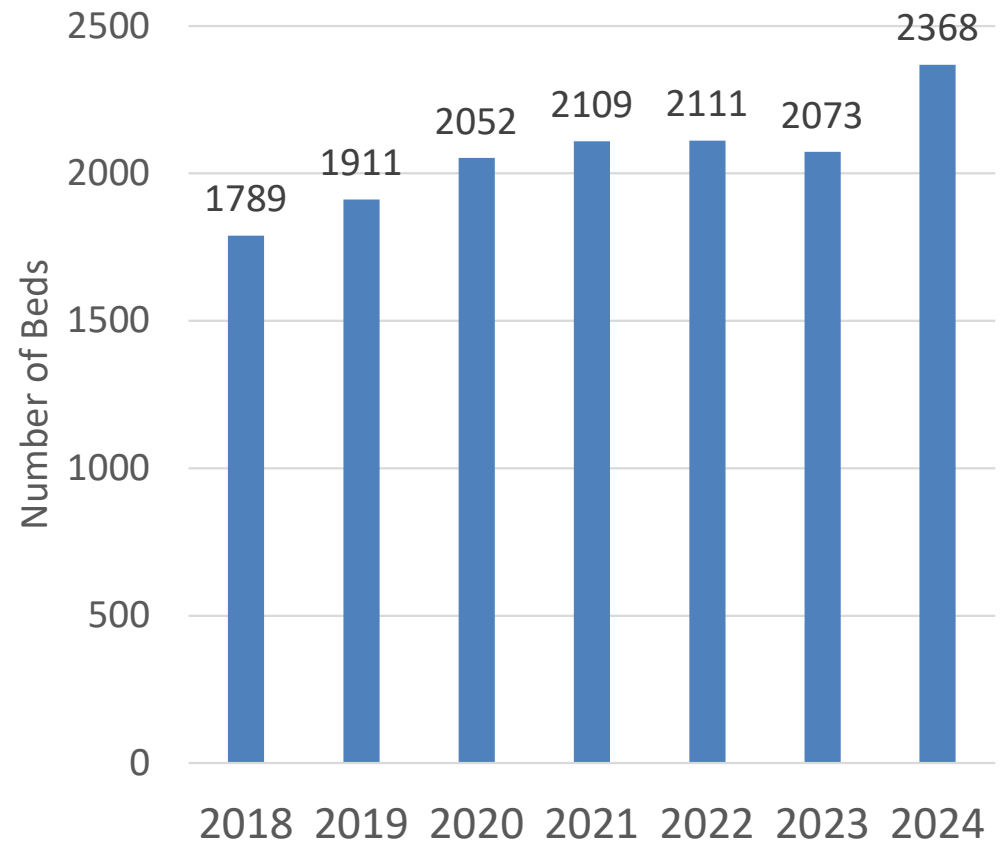


Number of EMU Beds – 2018-2024

Number of Beds - 2024



Total Beds Reported



Average LOS 2023

Average Length of Stay in Days by Center Type		
	Adult Patients	Pediatric Patients
Adult Centers	4.02	2.69
Adult/Ped Centers	4.10	2.40
Ped Centers	3.81	3.28

Average Length of Stay Reported by NAEAC Centers								
2015	2016	2017	2018	2019	2020	2021	2022	2023
3.5	3.5	3.4	3.4	3.5	3.4	3.4	3.4	3.1



Distribution of Procedures – Totals Reported by NAEAC Centers for 2023

Procedure	Ped Pts	Adult Pts	All Pts
Total Temporal Lobectomy	285	927	1212
Subset: Temporal Lobectomy with Intracranial Electrodes	159	399	558
Total: Extra-Temporal Resection	415	355	770
Subset: Extra-Temporal Resection with Intracranial Electrodes	245	193	438
Intracranial Monitoring without Resection	309	852	1161
Hemispherotomy	235	28	263
Laser Ablations	278	455	733
Corpus Callosotomy	169	33	202



Percentage of Change by Procedure

Procedure	2023 vs 2022	2023 vs 2021	2023 vs 2020
Temporal Lobectomy	15%	-15%	-9%
Subset: Temporal Lobectomy with Intracranial Electrodes	21%	9%	0%
Extra-Temporal Resection	-5%	-14%	-35%
Subset Extra-Temporal Resection with Intracranial Electrodes	6%	2%	-18%
Intracranial Monitoring without Resection	34%	42%	6%
Hemispherotomy	10%	88%	28%
Laser Ablation	3%	19%	-7%
Corpus Callosotomy	-13%	20%	-3%



Percentage of Change by Procedure - 2023 vs 2019

Procedure	2023 All Pts	2019 All Pts	2023 vs 2019
Temporal Lobectomy	1212	1384	-12%
Subset: Temporal Lobectomy with Intracranial Electrodes	558	687	-19%
Extra-Temporal Resection	770	930	-17%
Subset: Extra-Temporal Resection with Intracranial Electrodes	438	500	-12%
Intracranial Monitoring without Resection	1161	963	21%
Hemispherotomy	263	184	43%
Laser Ablation	733	630	16%
Corpus Callosotomy	202	138	46%



Distribution of Procedures – Totals Reported by NAEAC Centers for 2023

Procedure	Ped Pts	Adult Pts	All Pts
DBS Implantation	80	900	980
DBS Replacement or Battery Change	9	692	701
VNS Implantation	1116	1388	2504
VNS Replacement or Battery Change	726	3434	4160
RNS Implantation	207	935	1142
RNS Replacement or Battery Change	9	276	285



Percentage of Change by Procedure

Procedure	2023 vs 2022	2023 vs 2021	2023 vs 2020
DBS Implantation	94%	203%	177%
DBS Replacement or Battery Change	258%	195%	209%
VNS Implantation	18%	29%	14%
VNS Replacement or Battery Change	17%	53%	48%
RNS Implantation	48%	74%	82%
RNS Replacement or Battery Change	15%	28%	-19%

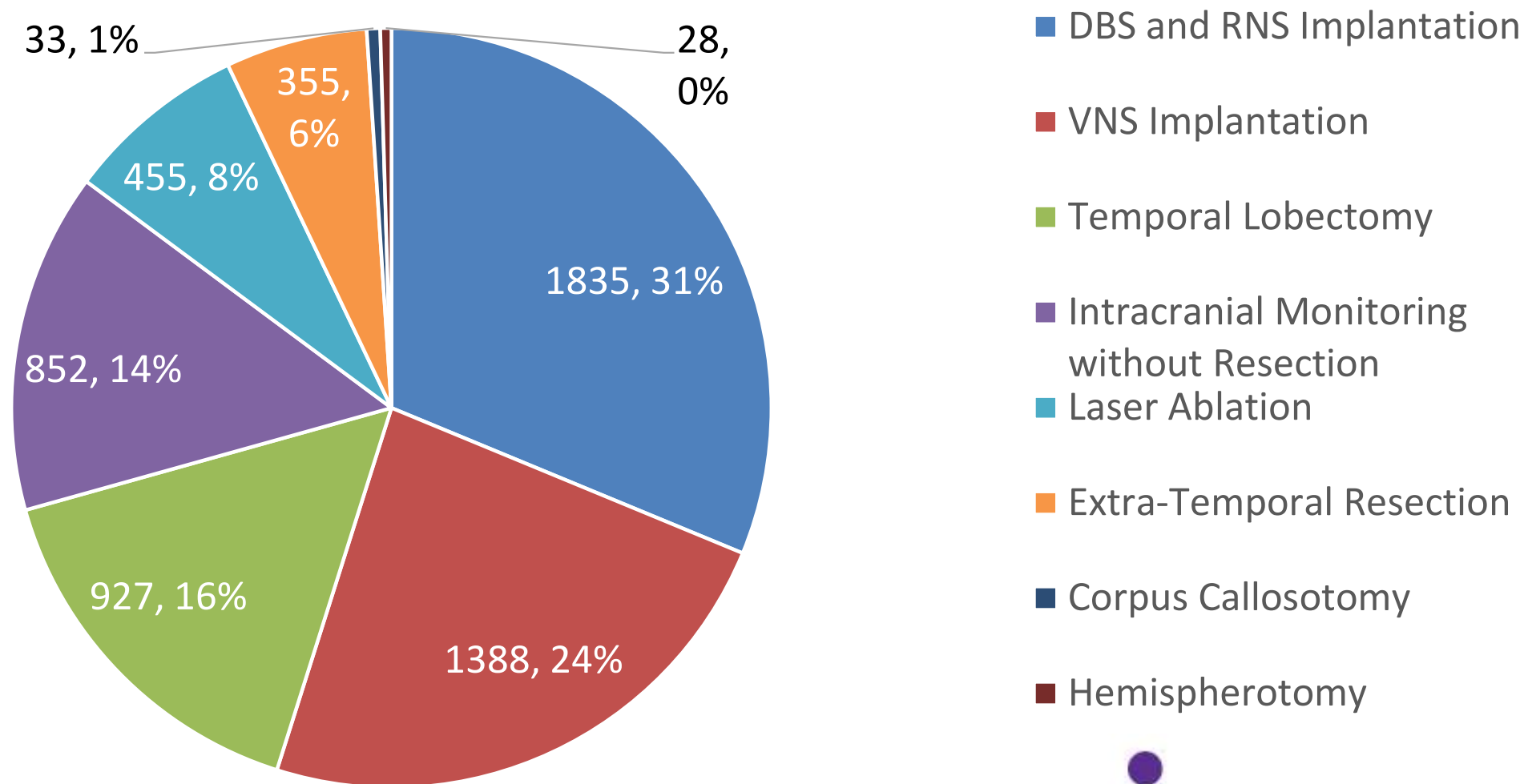


Percentage of Change by Procedure - 2023 v 2019

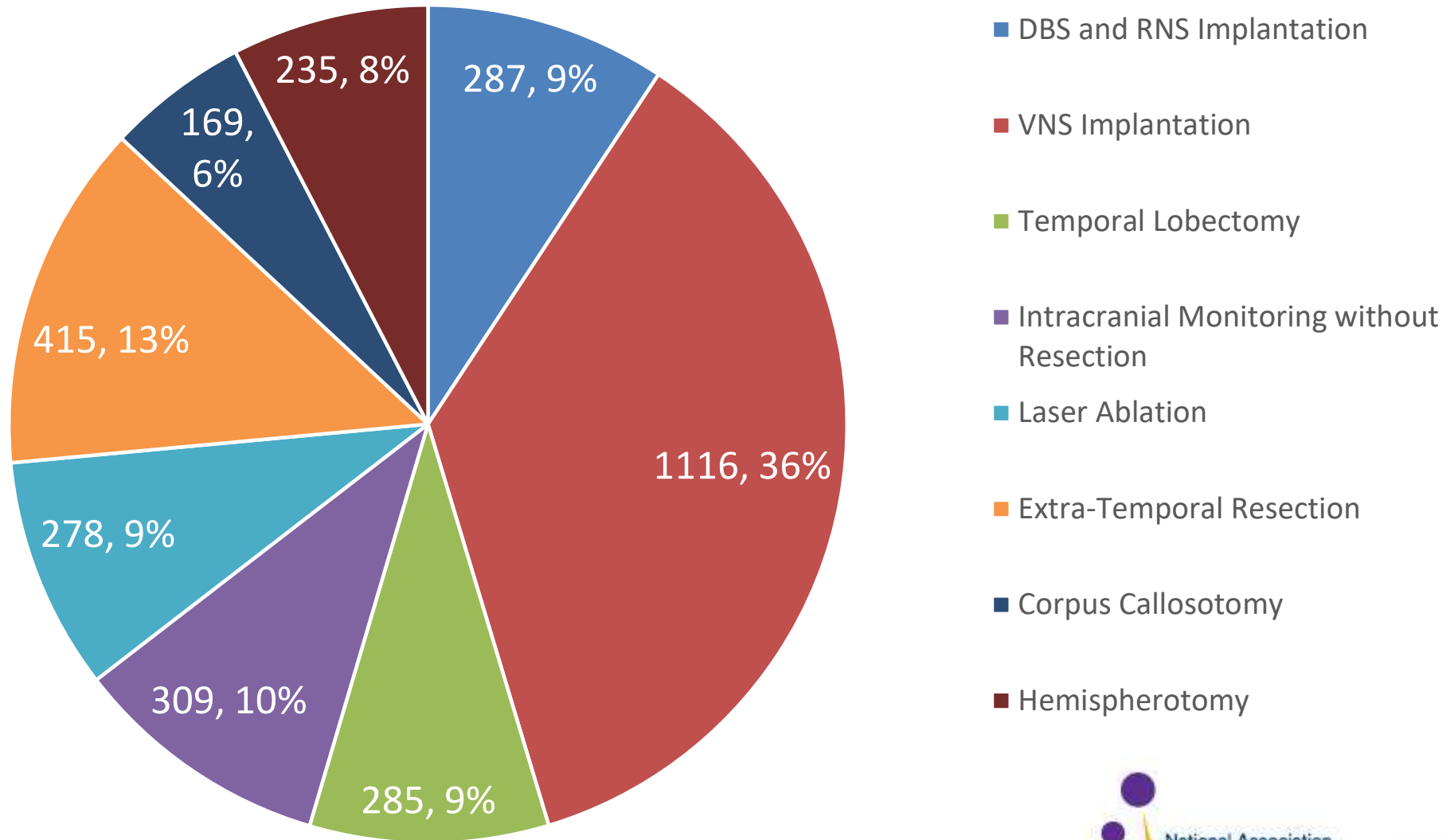
Procedure	2023 All Pts	2019 All Pts	2023 vs 2019
DBS Implantation	980	362	171%
DBS Replacement or Battery Change	701	363	93%
VNS Implantation	2504	2310	8%
VNS Replacement or Battery Change	4160	3133	33%
RNS Implantation	1142	527	117%
RNS Replacement or Battery Change	285	253	13%



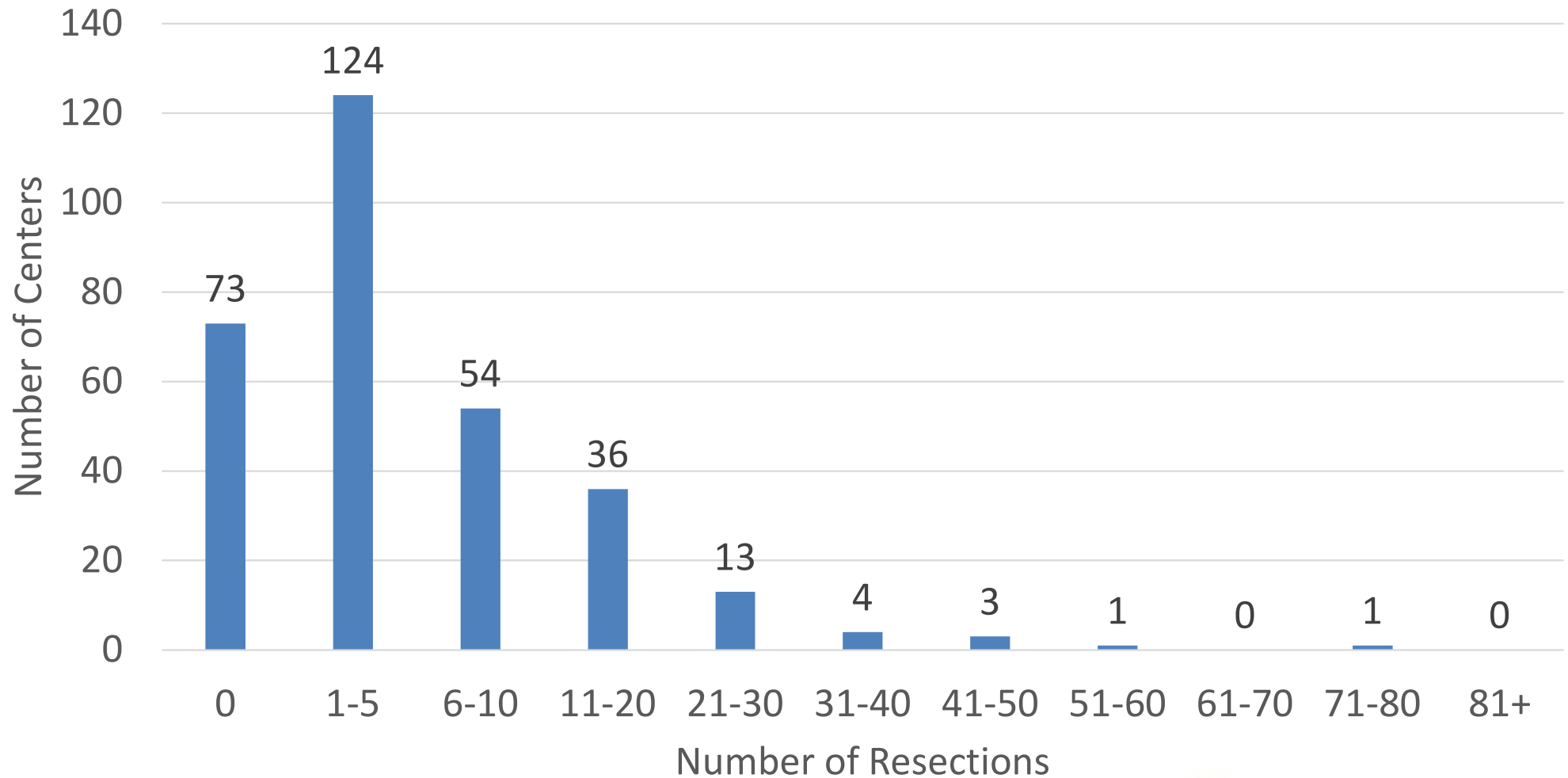
Distribution of Procedures for Adult Patients 2023



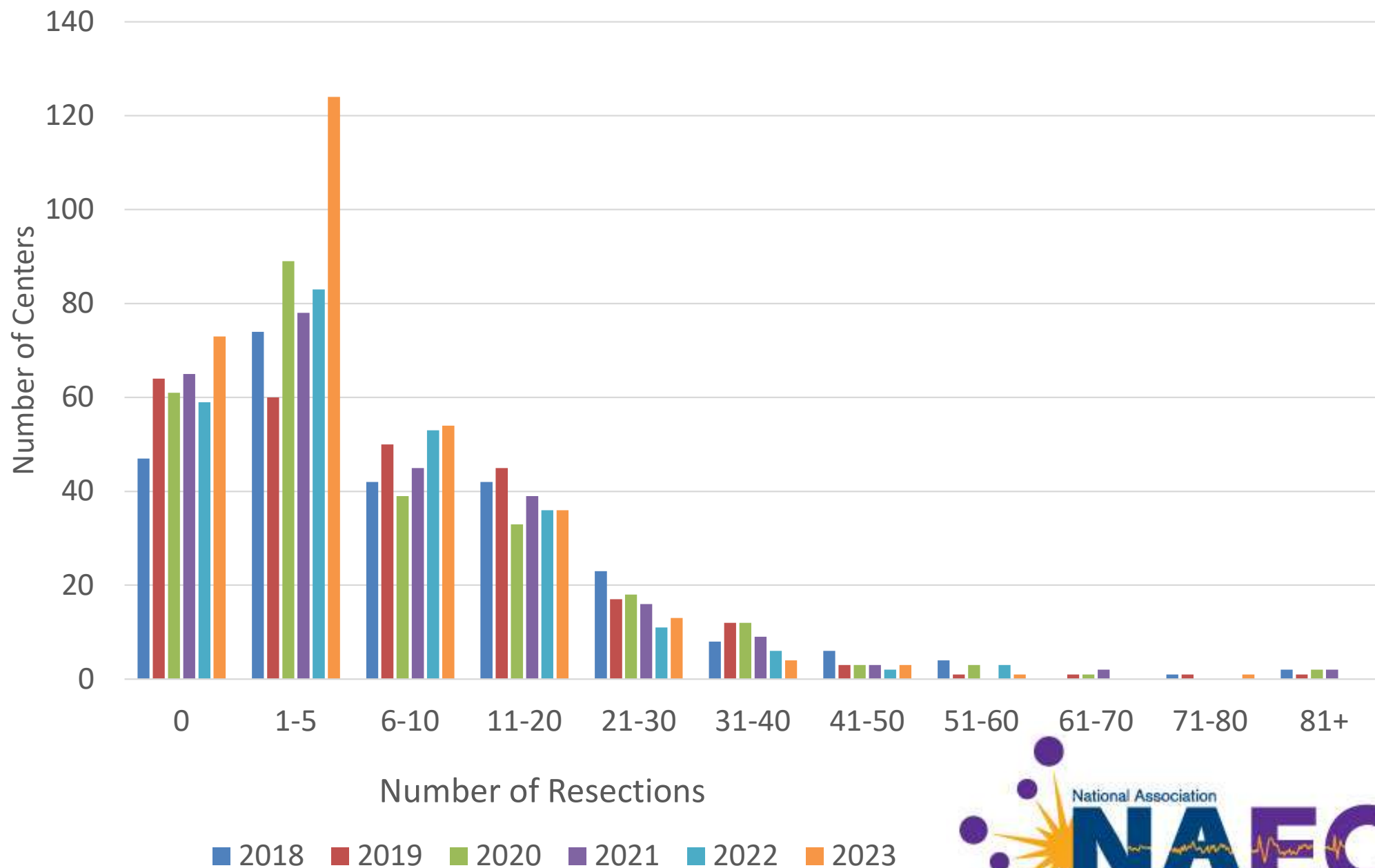
Distribution of Procedures for Pediatric Patients – 2023



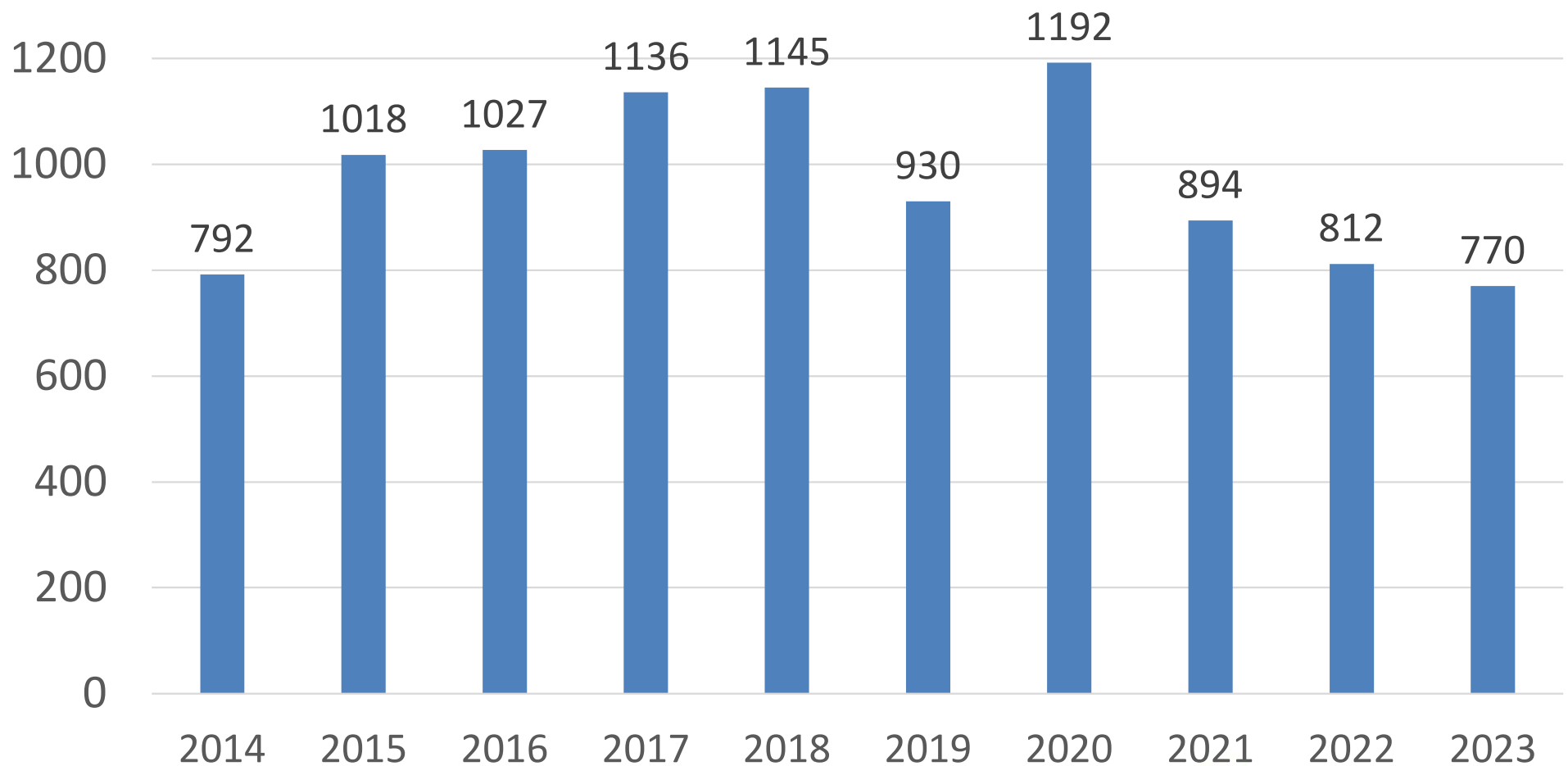
Total Resections 2023



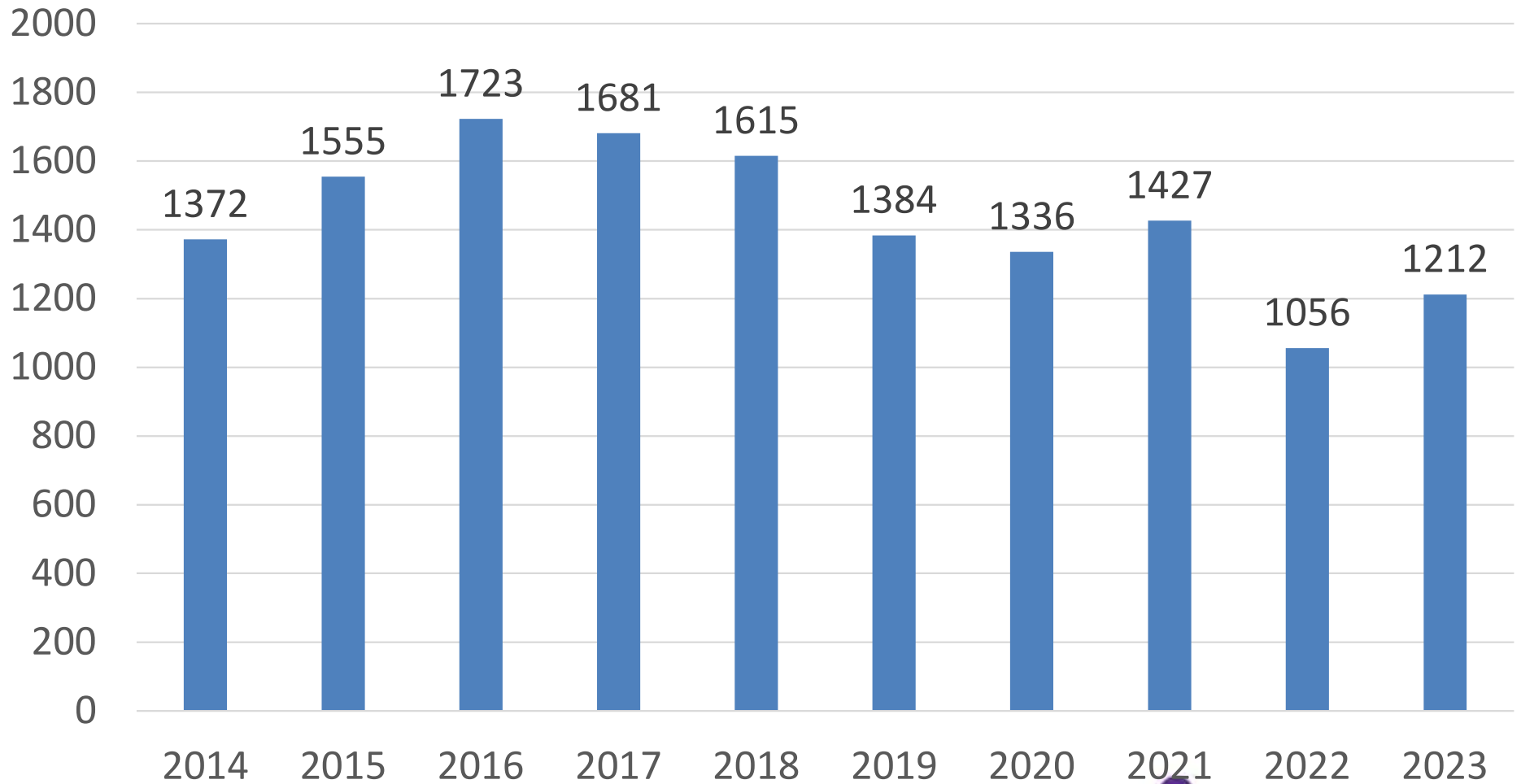
Total Resections 2018-2023



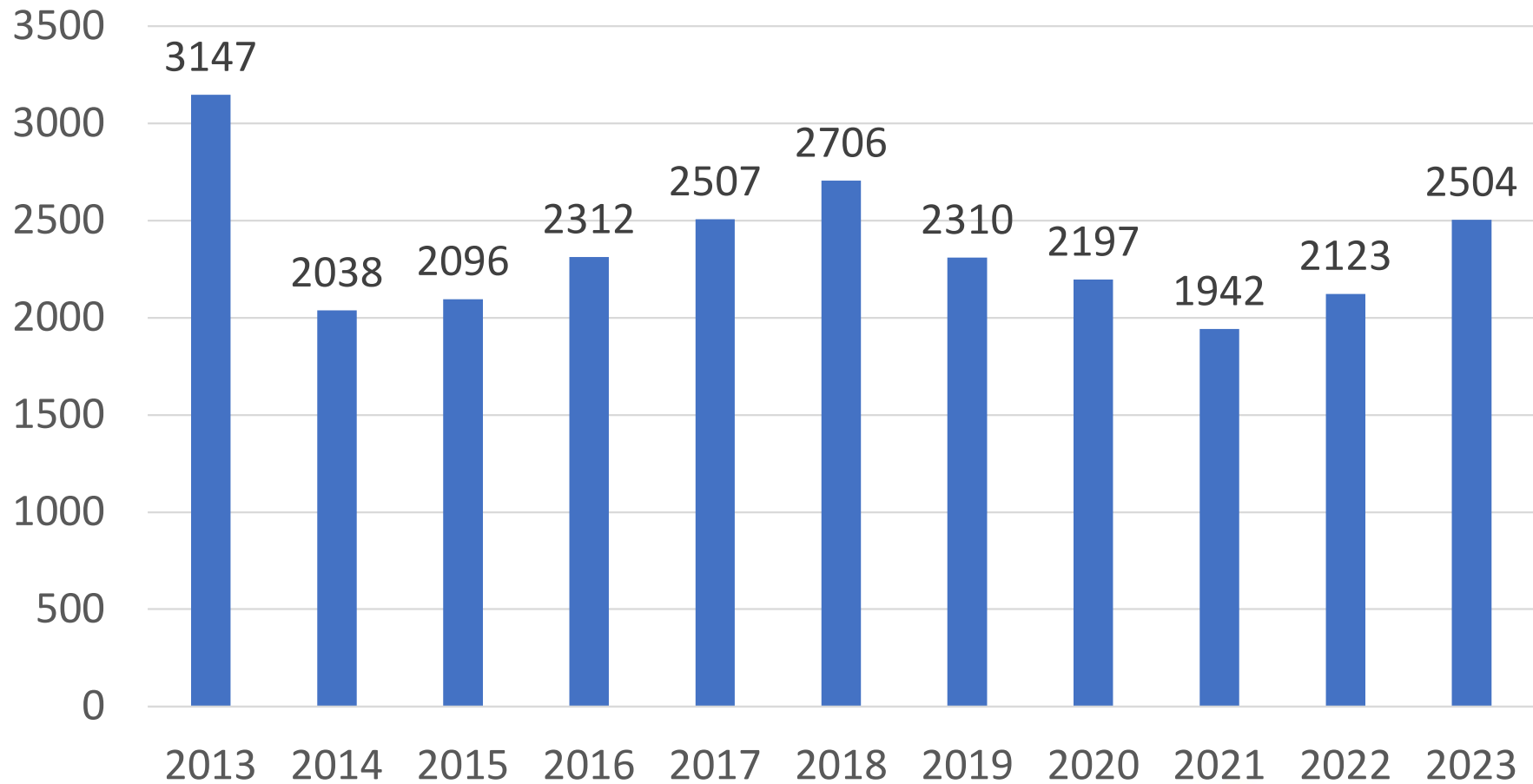
Total Extra Temporal Resections – 2014-2023



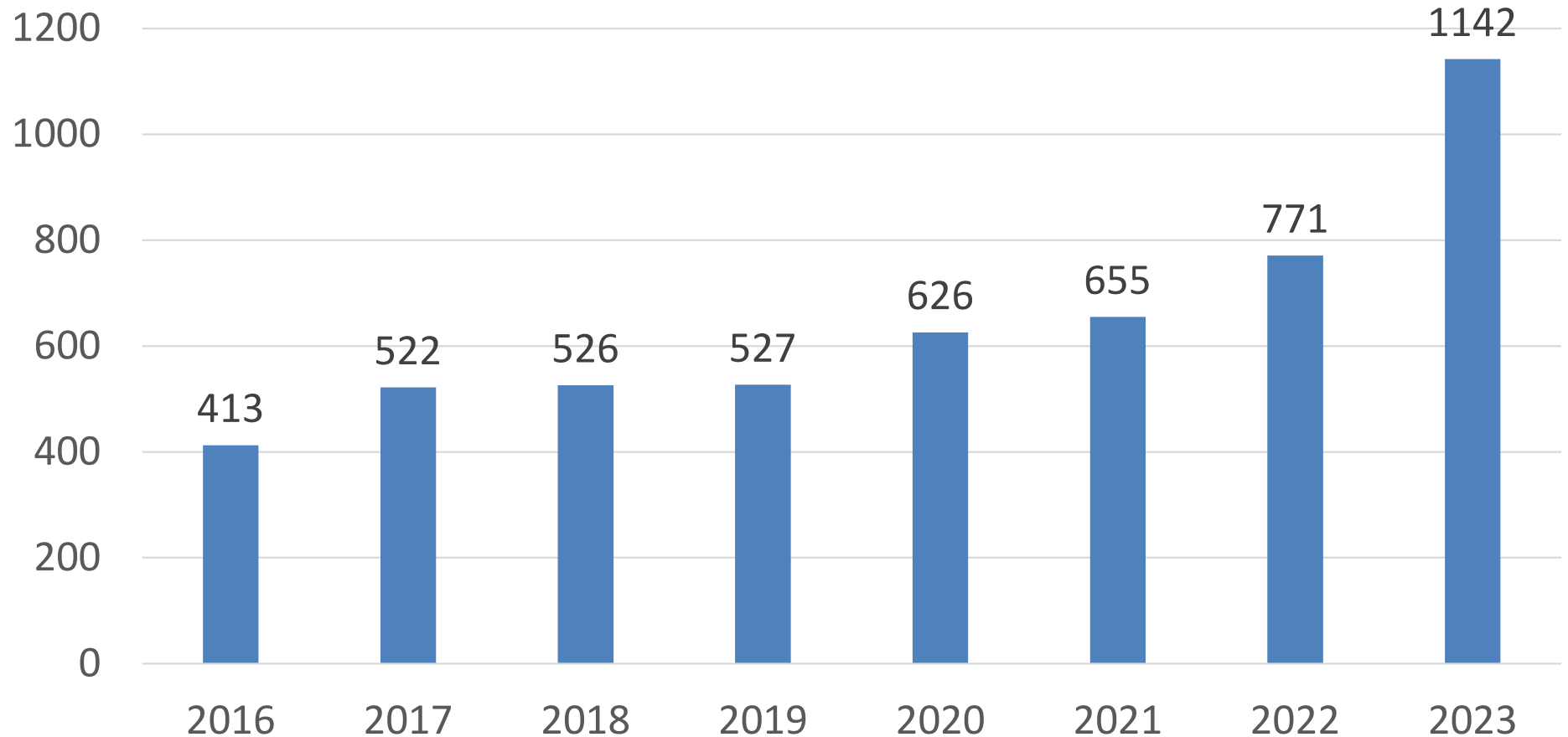
Total Temporal Resections 2014-2023



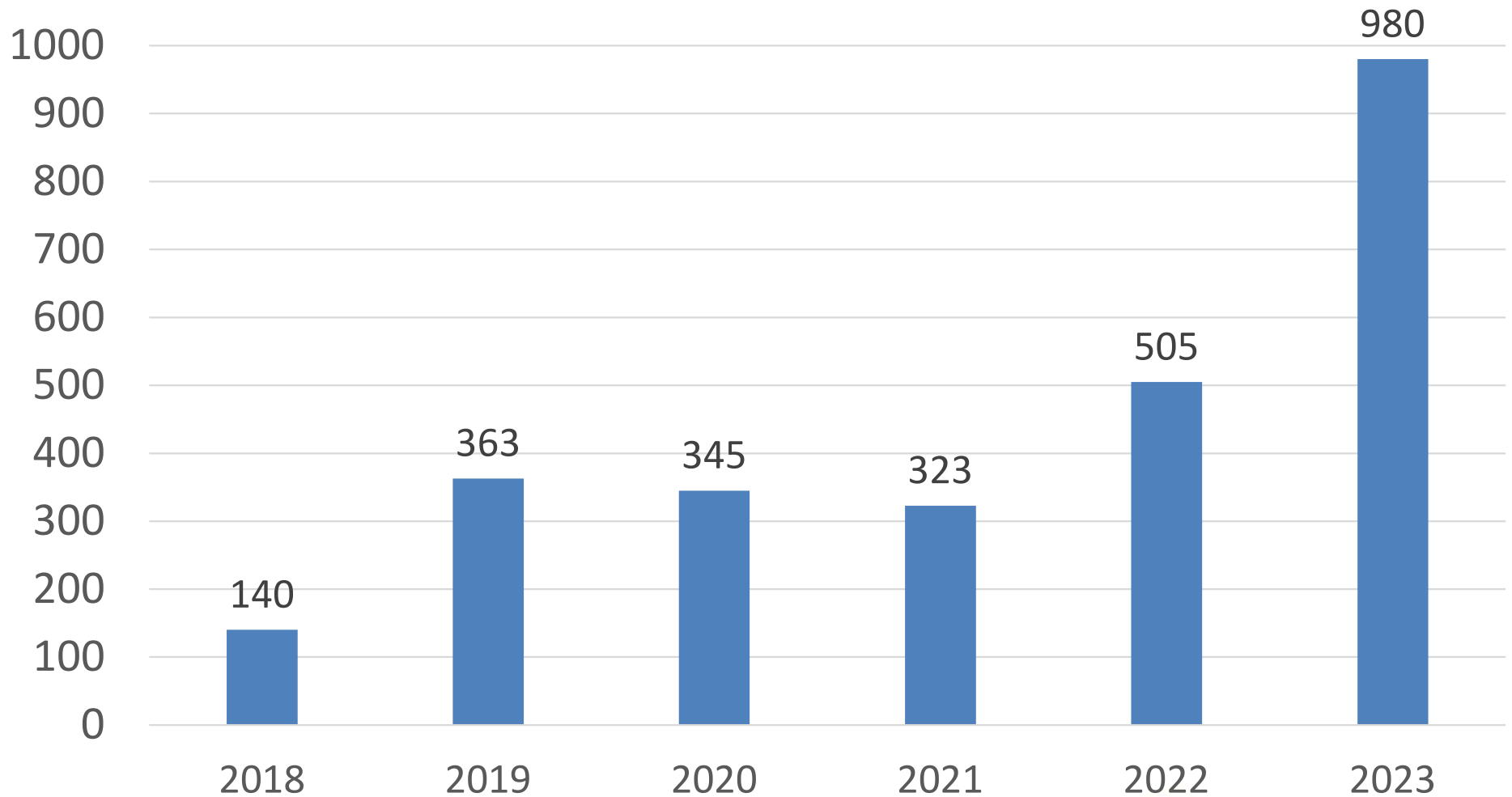
Total VNS Implantations 2013-2023



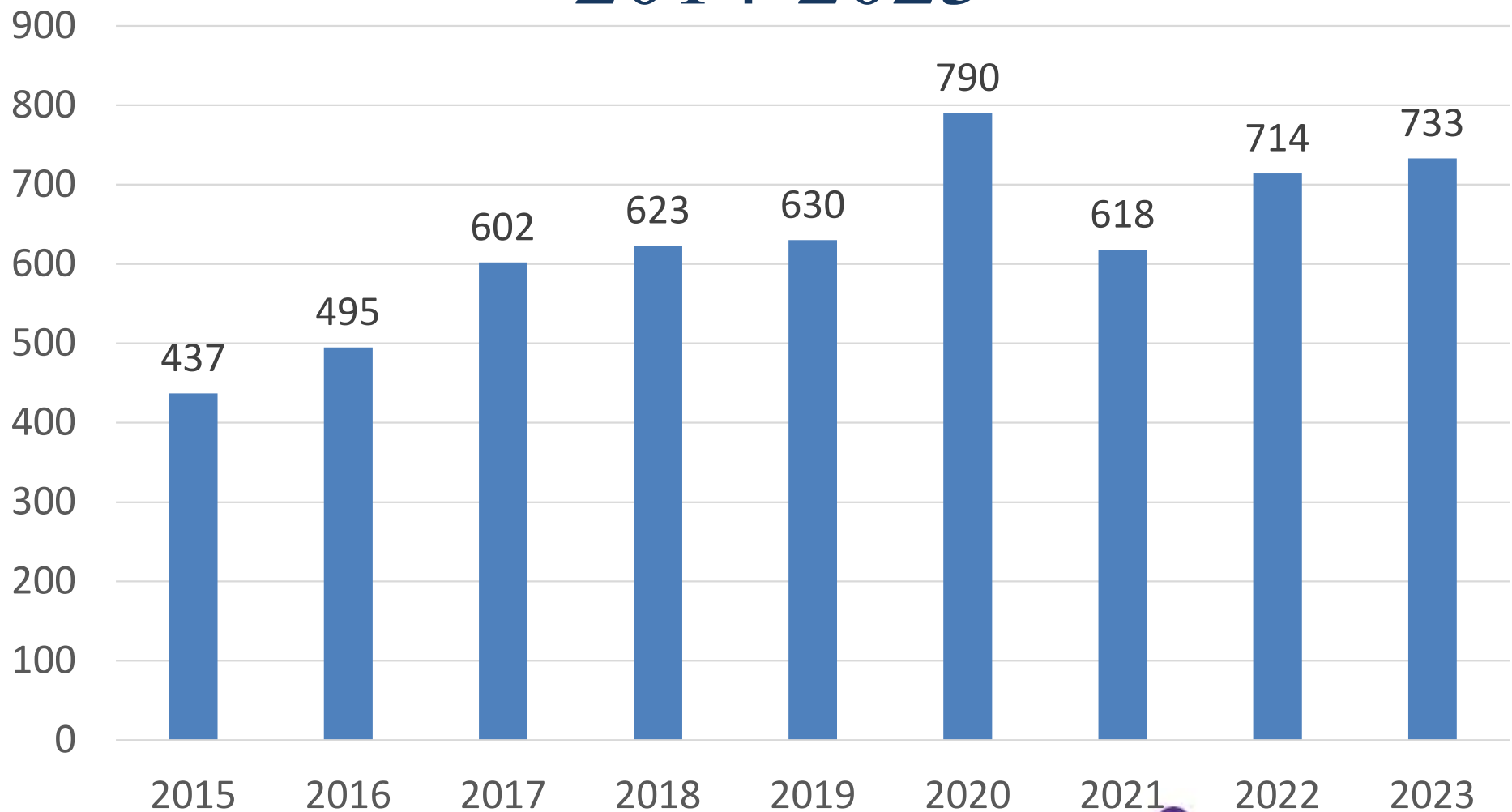
Total RNS Implantations 2016-2023



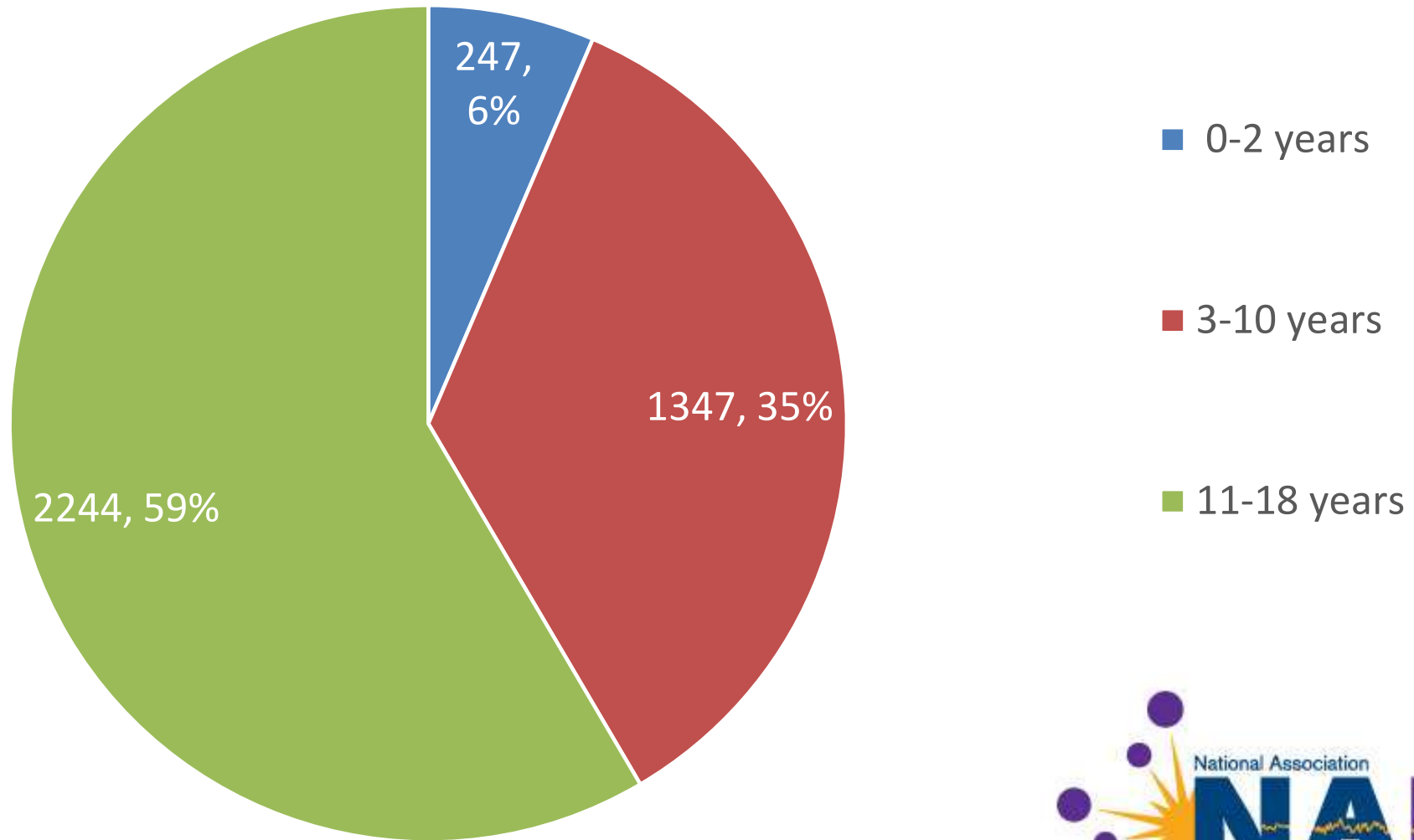
Total DBS Implantations 2018-2023



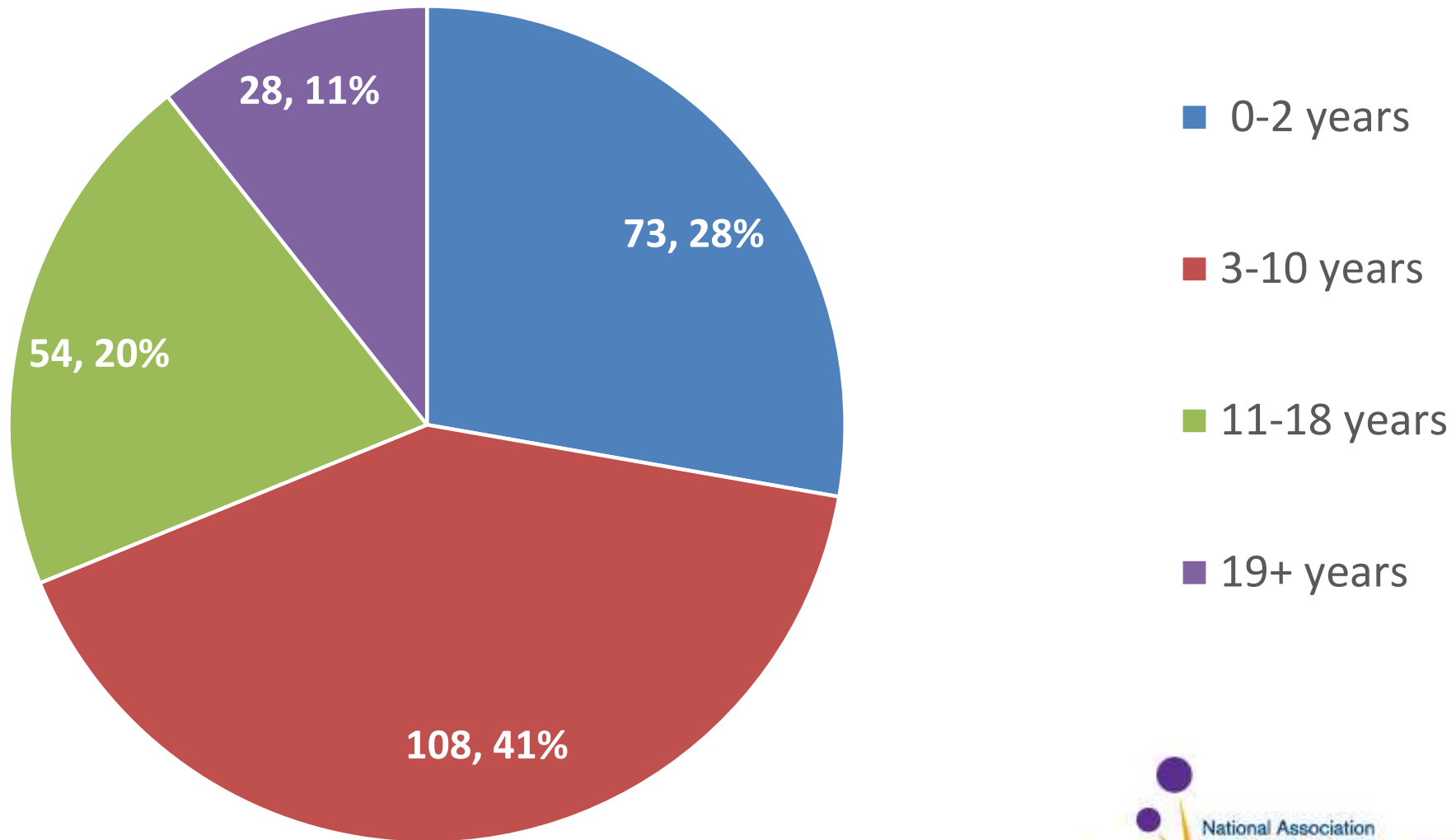
Total Laser Ablation Procedures 2014-2023



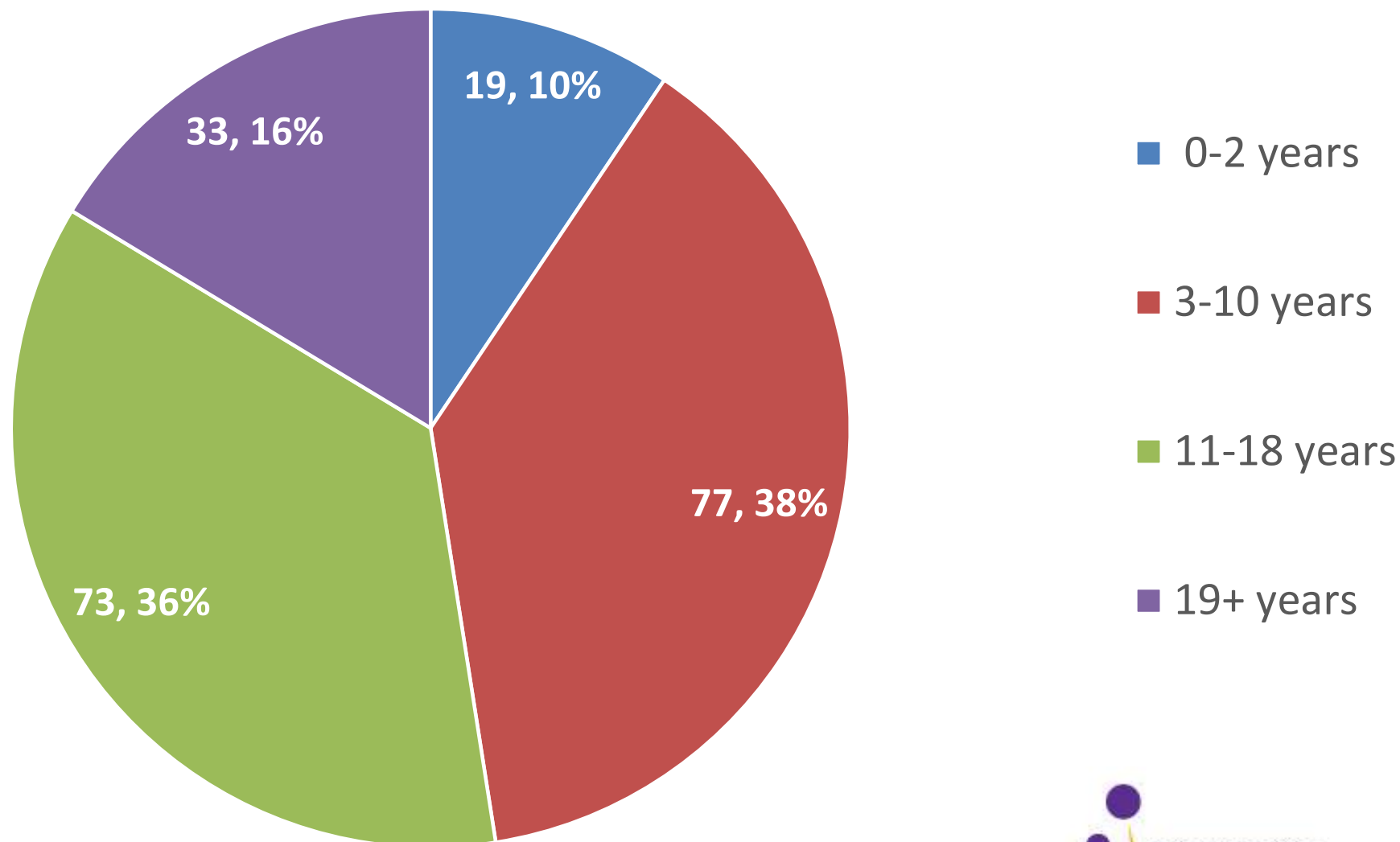
2023 Total Procedures in Pediatric Population by Age of Patient



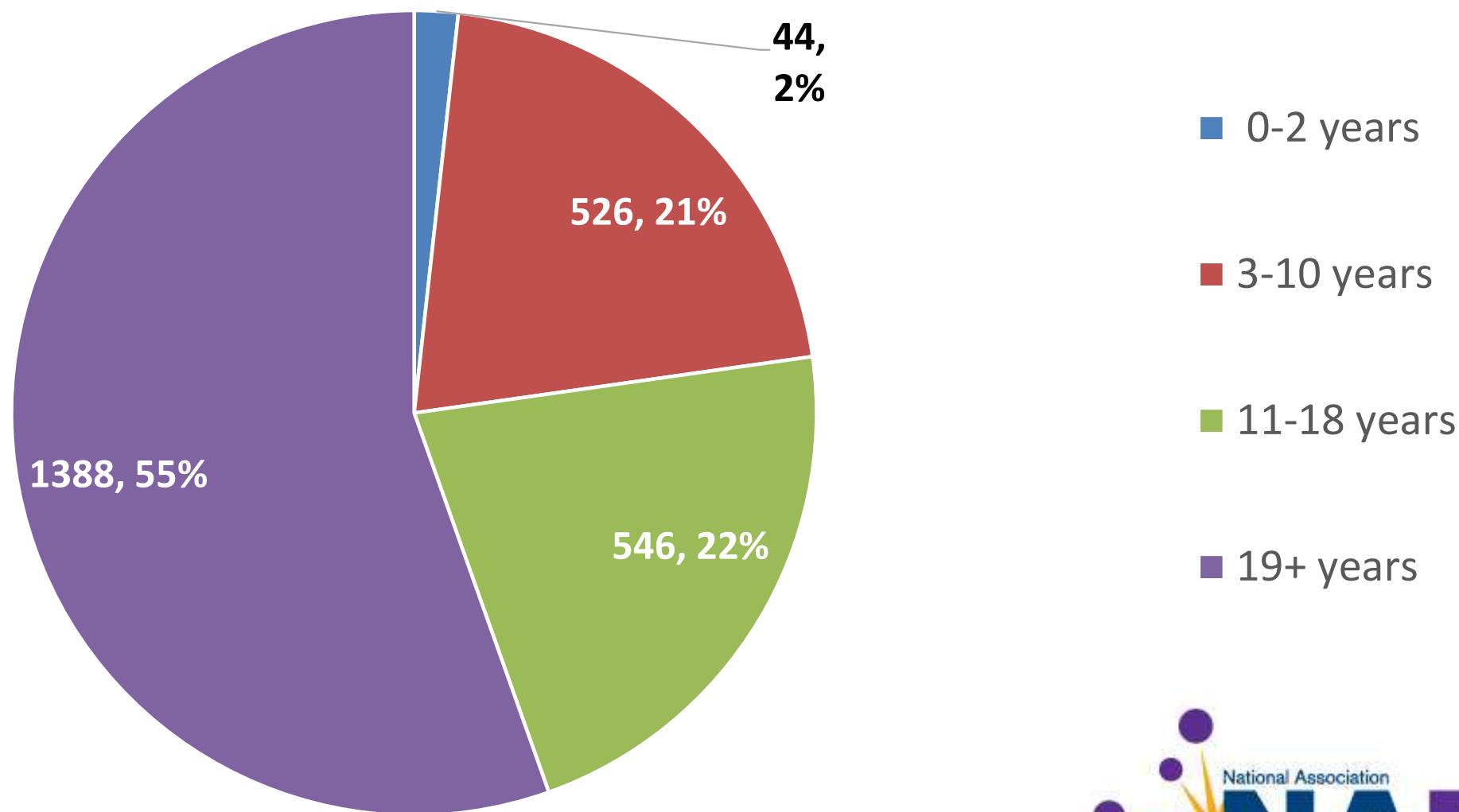
2023 Hemispherotomies by Age



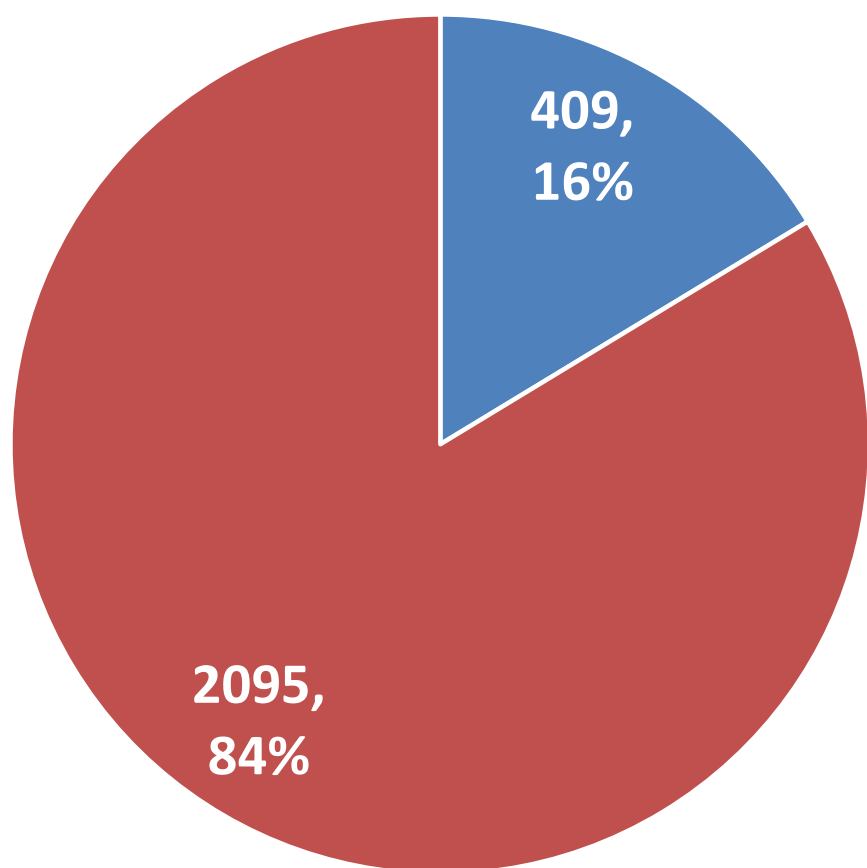
2023 Corpus Callosotomies by Age



2023 VNS Implantations by Age



VNS Implantations by Center Level



■ Level 3 ■ Level 4

	Mean	Range
All Level 3 Centers	5.2	[0, 66]
Level 3 Centers that perform VNS	8.3	[1,66]
Level 4 centers	9.1	[0,54]

Questions and Discussion

