

eTable 1: Odds ratio (OR) estimates and 95% confidence intervals for access (zero-inflated component) of curative treatment models. Some independent variables were excluded by the model selection process using the AIC criteria (indicated with “-”), and some were manually removed due to imbalance between categories (indicated as “Excluded”).

Predictor	Temporal Lobectomy	Extratemporal Resection	Laser Ablation	Hemispherotomy
Org. accreditation level [level 3 vs. 4]	Excluded	Excluded	0.12 (0.04, 0.39)	Excluded
Surg. demographic [pediatric vs. adult]	0.31 (0.16, 0.59)	0.7 (0.4, 1.23)	0.61 (0.35, 1.07)	12.71 (3.4, 47.49)
Institution type [private practice vs. academic]	0.25 (0.11, 0.57)	0.57 (0.27, 1.21)	0.26 (0.09, 0.7)	Excluded
Institution type [teaching affiliate vs. academic]	0.5 (0.23, 1.09)	0.44 (0.23, 0.86)	0.91 (0.44, 1.91)	Excluded
Region [Midwest vs. South]	2.43 (1.04, 5.66)	-	1.84 (0.89, 3.79)	3.96 (1.17, 13.43)
Region [Northeast vs. South]	0.86 (0.41, 1.82)	-	1.05 (0.52, 2.14)	0.51 (0.16, 1.67)
Region [West vs. South]	2.8 (1.19, 6.62)	-	2.4 (1.12, 5.13)	2.97 (0.85, 10.36)
Epileptologists with 2+ years fellowship	1.15 (0.99, 1.33)	1.19 (1.05, 1.34)	1.09 (0.99, 1.21)	1.27 (1.06, 1.52)
Resections with electrocorticography, 10% increase	1.23 (1.12, 1.36)	1.09 (1.01, 1.18)	-	1.26 (1.09, 1.46)
Image-guided robotics [yes vs. no]	3.2 (1.74, 5.88)	2.9 (1.7, 4.95)	2.7 (1.54, 4.73)	6.16 (2.1, 18.06)
MEG [yes vs. no]	2.23 (0.87, 5.76)	1.41 (0.68, 2.92)	1.04 (0.53, 2.06)	3.15 (1.1, 9.05)
PET [yes vs. no]	-	-	1.22 (0.32, 4.72)	-

Predictor	Temporal Lobectomy	Extratemporal Resection	Laser Ablation	Hemispherotomy
SPECT [yes vs. no]	1.8 (0.83, 3.89)	1.6 (0.8, 3.22)	0.58 (0.23, 1.44)	-

Bold font indicates a statistically significant value ($p \leq 0.05$)

eTable 2: Incidence rate ratio (IRR) estimates and 95% confidence intervals for volume (count component) of curative treatment models. Some independent variables were excluded by the model selection process using the AIC criteria (indicated with “-”), and some were manually removed due to imbalance between categories (indicated as “Excluded”).

Predictor	Temporal Lobectomy	Extratemporal Resection	Laser Ablation	Hemispherotomy
Org. accreditation level [level 3 vs. 4]	Excluded	Excluded	0.91 (0.44, 1.89)	Excluded
Surg. demographic [pediatric vs. adult]	0.55 (0.48, 0.63)	1.54 (1.32, 1.8)	0.8 (0.68, 0.95)	4.62 (2.04, 10.47)
Institution type [private practice vs. academic]	0.71 (0.57, 0.88)	0.96 (0.71, 1.28)	0.74 (0.47, 1.14)	Excluded
Institution type [teaching affiliate vs. academic]	0.8 (0.69, 0.93)	1.15 (0.96, 1.37)	0.54 (0.41, 0.71)	Excluded
Region [Midwest vs. South]	0.91 (0.79, 1.04)	-	0.74 (0.59, 0.92)	1.46 (0.98, 2.17)
Region [Northeast vs. South]	0.92 (0.79, 1.07)	-	0.77 (0.61, 0.96)	1.36 (0.83, 2.23)
Region [West vs. South]	0.99 (0.86, 1.14)	-	0.95 (0.78, 1.16)	1.27 (0.8, 2.01)
Epileptologists with 2+ years fellowship	1.06 (1.05, 1.08)	1.06 (1.04, 1.08)	1.03 (1.01, 1.06)	1.03 (0.97, 1.09)
Resections with electrocorticography, 10% increase	0.99 (0.98, 1.01)	1.04 (1.02, 1.07)	-	0.95 (0.9, 1)
Image-guided robotics [yes vs. no]	1.54 (1.36, 1.74)	1.59 (1.32, 1.91)	1.32 (1.08, 1.62)	1.07 (0.58, 1.97)
MEG [yes vs. no]	1.5 (1.33, 1.69)	1.67 (1.44, 1.94)	1.66 (1.39, 1.97)	1.87 (1.25, 2.81)
PET [yes vs. no]	-	-	0.57 (0.35, 0.95)	-

Predictor	Temporal Lobectomy	Extratemporal Resection	Laser Ablation	Hemispherotomy
SPECT [yes vs. no]	1.16 (0.97, 1.39)	0.68 (0.56, 0.83)	1.47 (1.03, 2.09)	-

Bold font indicates a statistically significant value ($p \leq 0.05$)

eTable 3: Odds ratio (OR) estimates and 95% confidence intervals for access (zero-inflated component) of palliative treatment models. Some independent variables were excluded by the model selection process using the AIC criteria (indicated with “-”), and some were manually removed due to imbalance between categories (indicated as “Excluded”).

Predictor	VNS Implantation	RNS Implantation	Corpus Callosotomy
Org. accreditation level [level 3 vs. 4]	0.45 (0.19, 1.05)	Excluded	Excluded
Surg. demographic [pediatric vs. adult]	0.52 (0.26, 1.04)	0.16 (0.07, 0.34)	0.94 (0.28, 3.14)
Institution type [private practice vs. academic]	-	0.42 (0.17, 1.05)	Excluded
Institution type [teaching affiliate vs. academic]	-	0.34 (0.15, 0.75)	Excluded
Region [Midwest vs. South]	2.33 (0.8, 6.81)	1.08 (0.48, 2.45)	-
Region [Northeast vs. South]	0.45 (0.21, 0.96)	0.87 (0.37, 2.05)	-
Region [West vs. South]	2.81 (0.88, 9)	2.72 (1.15, 6.45)	-
Epileptologists with 2+ years fellowship	1.07 (0.92, 1.24)	1.09 (0.97, 1.23)	1.27 (1.06, 1.52)
Resections with electrocorticography, 10% increase	-	1.18 (1.07, 1.31)	1.16 (1.02, 1.32)
Image-guided robotics [yes vs. no]	1.89 (0.91, 3.92)	3.29 (1.71, 6.35)	1.56 (0.6, 4.05)
MEG [yes vs. no]	1.16 (0.43, 3.13)	2.6 (0.97, 6.95)	4.6 (1.55, 13.6)
PET [yes vs. no]	-	-	0.98 (0.26, 3.7)

Predictor	VNS Implantation	RNS Implantation	Corpus Callosotomy
SPECT [yes vs. no]	0.86 (0.36, 2.04)	1.52 (0.68, 3.39)	-

Bold font indicates a statistically significant value ($p \leq 0.05$)

eTable 4: Incidence rate ratio (IRR) estimates and 95% confidence intervals for volume (count component) of palliative treatment models. Some independent variables were excluded by the model selection process using the AIC criteria (indicated with “-”), and some were manually removed due to imbalance between categories (indicated as “Excluded”).

Predictor	VNS Implantation	RNS Implantation	Corpus Callosotomy
Org. accreditation level [level 3 vs. 4]	0.85 (0.74, 0.97)	Excluded	Excluded
Respondent demographic [pediatric vs. adult]	1.07 (0.99, 1.17)	0.41 (0.29, 0.57)	4.17 (2.21, 7.89)
Institution type [private practice vs. academic]	-	0.76 (0.55, 1.06)	Excluded
Institution type [teaching affiliate vs. academic]	-	0.91 (0.69, 1.2)	Excluded
Region [Midwest vs. South]	1.18 (1.07, 1.31)	1.45 (1.1, 1.91)	-
Region [Northeast vs. South]	0.78 (0.69, 0.89)	1.12 (0.84, 1.49)	-
Region [West vs. South]	1.47 (1.33, 1.62)	1.91 (1.49, 2.44)	-
Epileptologists with 2+ years fellowship	1.02 (1, 1.03)	1.1 (1.07, 1.13)	1.05 (0.99, 1.12)
Resections with electrocorticography, 10% increase	-	0.96 (0.93, 0.98)	0.98 (0.92, 1.04)
Image-guided robotics [yes vs. no]	1.09 (1, 1.19)	1.43 (1.15, 1.79)	1.41 (0.82, 2.4)
MEG [yes vs. no]	1.17 (1.06, 1.29)	0.81 (0.64, 1.04)	1.49 (1, 2.23)
PET [yes vs. no]	-	-	0.43 (0.24, 0.78)

SPECT [yes vs. no]	1.2 (1.07, 1.35)	0.63 (0.49, 0.81)	-
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Bold font indicates a statistically significant value ($p \leq 0.05$)