**Supporting Information**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **First author** | **Year** | **SF** | **NF** | **SF, Ipsi** | **NSF, Ipsi** | **SF, Bil** | **NSF, Bil** | **OR** |
| Radhakrishnan | 1998 | 134 | 41 | 99 | 18 | 35 | 23 | **3.62** |
| Jeong | 1999 | 78 | 15 | 55 | 8 | 23 | 7 | **2.09** |
| Aull-Watschinger\* | 2008 | 95 | 40 | 73 | 24 | 22 | 16 | **2.21** |
| Hennessy# | 2001 | 78 | 38 | 65 | 25 | 13 | 13 | **2.59** |
|  |  |  | **Sum** | 292 | 75 | 93 | 59 | **2.47** |

**Table 1: Data extracted from four cited papers.** Each paper reported raw numbers (or percentages that could be converted to numbers for 4 categories: Seizure-free (SF) and ipsilateral inter-ictal discharges (Ipsi), Seizure-Free and bilateral inter-ictal discharges (Bil), Not seizure-free (NSF) and ipsilateral inter-ictal discharges, and Not seizure-free and bilateral ictal-ictal discharges. We used the raw numbers to compute the odds-ratio (OR). \*OR reported as 2.56 in the manuscript, but number of patients and percentage matches data above. #The number of bilateral IED absent assumed to be 26, not 25, given 50% seizure free is not possible with 25 patients.

**Appendix A: MATLAB code to estimate power to detect 80% vs. 61% seizure-free with 56 patients.**

disp('Kang et al 2021 - 56 patients N1 vs. N2')

n1=46; n2=10;

disp([n1 n2])

disp(' ')

disp('4 cited articles - bilateral IED OR 2.5 ')

a=292/(292+75);

b=93/(93+59);

disp('Percent Seizure Free, unilateral vs. bilateral IED:')

disp([a b]\*100)

numRep=100000;

x=binornd(n1,a,numRep,1);

y=binornd(n2,b,numRep,1);

tic

for i=1:numRep

if(mod(i,1000)==0)

disp(i)

end

z=[x(i) n1-x(i); y(i) n2-y(i)];

[h pVal(i)]=fishertest(z);

end

toc

powerFisher=sum(pVal<=.05)/numRep

**Appendix B: MATLAB code to compute change in percent seizure-free with odds-ratio of 0.05 vs. odds-ratio of 0.40.**

%Calculate odds

disp('Percent Seizure Free, Unilateral IEDs')

preOdds=33/13;

prePerc=preOdds/(1+preOdds);

disp(prePerc\*100)

disp('Percent Seizure Free, Bilateral IED with OR=0.05')

postOdds1=preOdds\*.05;

postPerc1=postOdds1/(1+postOdds1);

disp(postPerc1\*100)

disp('Percent Seizure Free, Bilateral IED with OR=0.40')

postOdds2=preOdds\*.4;

postPerc2=postOdds2/(1+postOdds2);

disp(postPerc2\*100)