

Prevalence of Major Affective Disorders and Manic/Hypomanic Symptoms in Persons with Epilepsy: A Community Survey

David Blum MD¹, Michael Reed PhD², Robert Kusira PharmD¹, Alan Metz MD¹
¹GlaxoSmithKline Research Triangle Park, NC; ²Vedanta Research Associates, Chapel Hill, NC

BACKGROUND

The prevalence of depressive symptomatology in persons with epilepsy is common. Prior surveys of various methodology support this.

UK Community-Based survey by medical records and postal questionnaire revealed that seizure control correlated with anxiety, depression, impact of epilepsy, perceived stigma, and marital and employment status. These problems persisted even in those seizure-free.

A tertiary center survey of 175 outpatients indicated comorbidity of 58% of epilepsy with depression compared with 30% of matched controls. Suicide attempts 4 times more common in epilepsy.

Community Hospital-Based Survey of Temporal lobe epilepsy vs. normal and psychiatric controls revealed depression and anxiety in TLE, however less severe than psychiatric controls.

Comorbidity of bipolar symptomatology in epilepsy has not been assessed.

The Mood Disorders Questionnaire (MDQ) has been developed to assess bipolar symptoms in the general population by focusing on manic symptoms.

Diagnostic threshold on the MDQ is a positive response on seven of nine symptoms with co-occurrence of at least two symptoms. The symptoms must cause at least moderate functional impairment.

MDQ supports diagnosis of Bipolar Spectrum Disorder, including Type I, II or NOS.

Validity of the MDQ has been confirmed in 198 patients in a mood disorders clinic. Compared to a SCID interview, the MDQ had 0.73 sensitivity and 0.90 specificity.

DEMOGRAPHICS

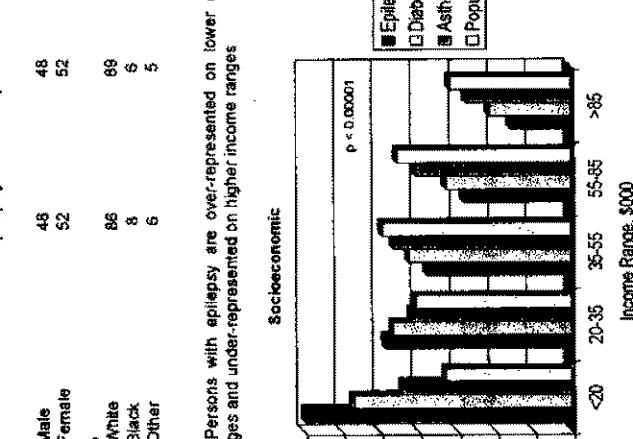


Figure 1. Persons with epilepsy are over-represented on lower end of income ranges and under-represented on higher income ranges

RESULTS

Figure 3. Self reported diagnosis of depression significantly more common in persons with epilepsy even when compared to persons with other chronic diseases

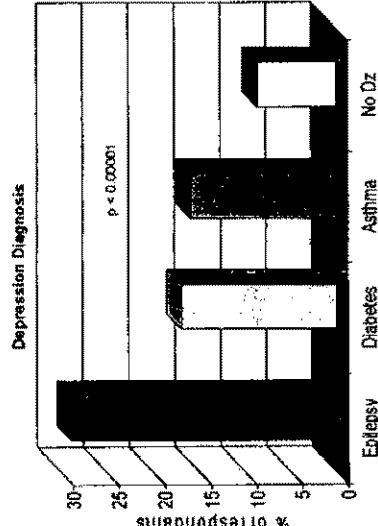


Figure 3. Self reported diagnosis of depression significantly more common in persons with epilepsy even when compared to persons with other chronic diseases

Figure 5. Significantly more persons with epilepsy met the diagnostic threshold on MDQ for bipolar disorder

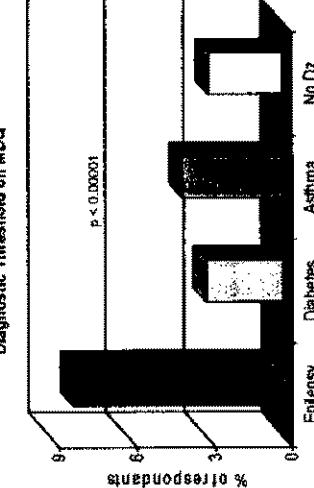


Figure 5. Significantly more persons with epilepsy met the diagnostic threshold on MDQ for bipolar disorder

SUMMARY

- Represents largest community-based survey of depression in epilepsy (N=2,282)
- Confirms socioeconomic impact of epilepsy and depression
- Suggests persons with epilepsy have diagnosis of:
- Depression 29%
- Bipolar 9.8%
- MDQ indicates bipolar likely present in 6.1% of persons with epilepsy (N=2,282)
- Higher rates for epilepsy than asthma, diabetes
- Follow-up survey currently underway

REFERENCES

- Hirschfeld RA, American Journal of Psychiatry. 2000; 157:11
- Fisher RS, Vickrey BG, Gibson P, Hermann B, Scherter A, Walker SG. The impact of epilepsy from the patient's perspective I: Descriptions and subjective perceptions. Epilepsy Res. 2000 Aug;41(1):39-51.
- Fisher RS, Vickrey BG, Gibson P, Hermann B, Scherter A, Walker SG. The impact of epilepsy from the patient's perspective II: Views about therapy and health care. Epilepsy Res. 2000 Aug;41(1):53-61.
- Jacoby A, Baker GA, Sheen N, Potts P, Chadwick DW. The clinical course of epilepsy and its psychosocial correlates: findings from a UK Community study. Epilepsia 1996 Feb;37(2):148-61.
- Robertson MM, Charlton S, Baker J. Depressive symptomatology in a general hospital sample of outpatients with temporal lobe epilepsy: a controlled study. Epilepsia 1994 Jul-Aug;35(4):771-7.

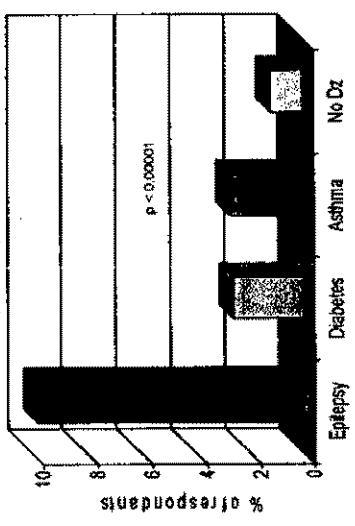


Figure 4. Self reported diagnosis of bipolar significantly more common in persons with epilepsy even when compared to persons with other chronic diseases

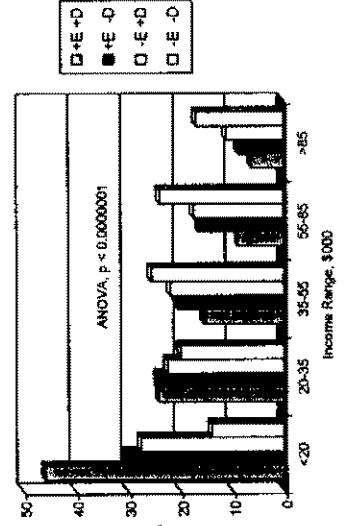


Figure 2. Persons with epilepsy and depression worse off than with either condition alone

- 150,996 US adults returned surveys
- Balanced with 2000 US Census data for:
- Age, gender, region, city size, household size
- A sub-sample of non-responders was resurveyed by telephone
- Epilepsy sample = 2,282 (1,928 >18 years)
- Survey Contents:
- Demographic questions
- Age, sex, race, income
- Medical Diagnosis items
- Epilepsy, depression, bipolar, asthma, diabetes
- Mood Disorders Questionnaire