

# Screening Adults for Depression and Suicidality in an Outpatient Burn Center

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# Introduction

In response to NIH recommendations and ABA verification standards, a protocol utilizing the Patient Health Ouestionnaire (PHO-9) was initiated to screen adult burn patients in an outpatient verified burn center for depression and suicide risk.

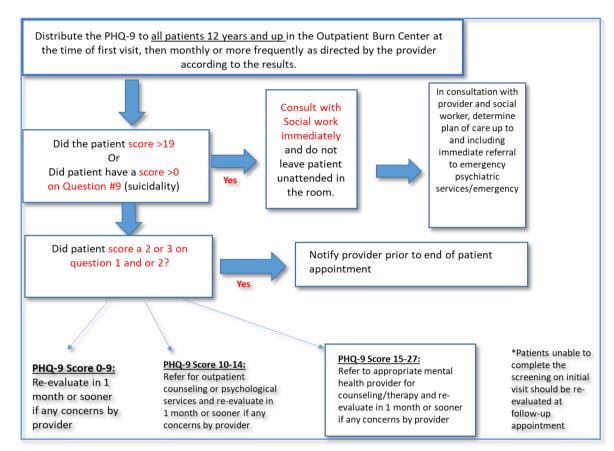


Figure 1. Screening Protocol Flow Chart

# **Study Purpose**

This project was completed as part of a QI initiative at the burn center to answer questions pertaining to:

- 1. Have established procedures been consistently implemented?
- 2. Does the PHQ-9 identify patients with depressive symptoms or suicide risk effectively in this patient population?
- Does the PHQ-9 identify patients with depressive symptoms or suicide risk that 3. were previously unrecognized?
- Did clinicians consistently document and complete additional assessment for 4. patients who "screened positive "?
- Does the severity of patient's injury correlate with elevated scores on this 5. screening measure?
- 6. What were the referral patterns for patients identified as positive on the screen?

# **Methods**

- Adult patients treated for burns at the Outpatient Burn Center over a one year period were identified from the electronic medical record (EMR)
- Patients who scored 10 or greater on the PHQ-9 or endorsed the suicide risk question (#9) were included in the retrospective chart review
- Additional information pertaining to demographics, PHQ-9 scores, mental health treatment and diagnosis, and burn injuries was also collected

# **Results**

There were 748 adults with an initial visit, 61% men and 39% women, ages 19-85. Of those patients, 572 had a PHQ-9 score documented in the EMR, demonstrating a 76% compliance rate with initiating this protocol.

## **PHO-9 Scores**

- Of the screened patients, 52 met criteria for **inclusion** by scoring 10 or greater or endorsing the suicide risk question
- 15.4% endorsed question #9, but scored <10
- 35% had a previous suicide attempt
- Of the identified charts, 80% included discussion/documentation of the PHQ-9 results in the initial visit

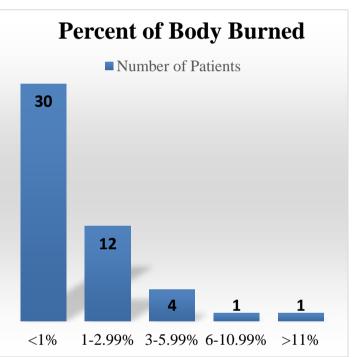
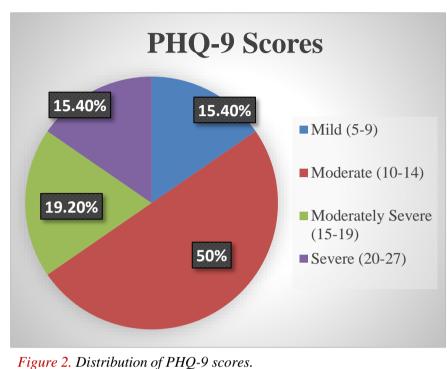


Figure 3. TBSA for identified patients. Four patients had no TBSA documented (n=48).

### **Patient Referrals**

- 52% of these patients were currently being treated for a mental health condition
- 19 of 52 patients were given a referral for psychiatry/psychology/mental health services
- Of the 25 patients not documented to be in services 9 patients were given a referral and 16 were not



#### **Reason for Injury**

- intentional self-injury

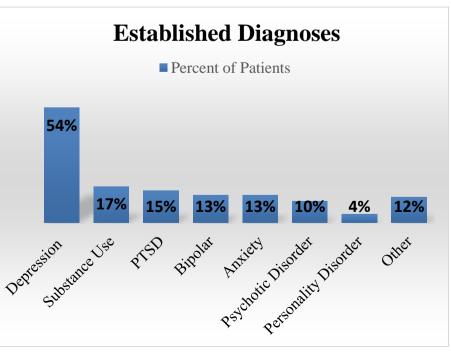


Figure 4. Established diagnoses documented for identified patients. Seventy-three percent had a psychiatric diagnosis documented and 23 patients had 2 or more diagnoses.

90% of injuries were documented as accidental 10% documented as frost bite or other None of the burns were documented as being related to

# **Conclusions and Recommendations**

- The results of this project highlight that compliance with administering and documenting the PHQ-9 was good, but could be improved
- PHQ-9 identified patients with and without preexisting mental health diagnoses
  - Referrals for follow-up services for patients not active in mental health treatments was relatively low
- Reviewing question #9 independent of total score is important, partly because several of these patients had a score below the protocol total score cut-off
- This protocol asked about previous suicide attempts, which could help with identifying patients at greater risk
- Screening for other mental health conditions that may hinder treatment compliance and recovery may be beneficial
- Burn severity did not correlate with elevated scores on PHQ-9
- Documentation of screening results was not consistent across providers
  - Standardizing the documentation process for these screenings may be beneficial
- Staff education and compliance are important to maintain this standard
- Screening for depression and suicide risk in adult burn patients is valuable and creates an opportunity to begin conversations about mental health, offer additional support, and make referrals for services

# Limitations

- Archival Data
- Different providers documentation
- Chart review – Evaluator error
- Patient self-report of mental health diagnoses and treatments
- Within group review, no comparison to patients who did not screen positive