

INTRODUCTION

- Functional heartburn (FH) and reflux hypersensitivity (RH) are two functional esophageal disorders that involve dysfunction of the gutbrain axis.
- Psychiatric disorders were previously reported to be associated with GERD, including anxiety and depression.
- Association of neuropsychiatric disorders with FH and RH remains scarce.

AIM

• Compare the distribution of psychiatric diseases among FH, RH and refractory GERD populations.

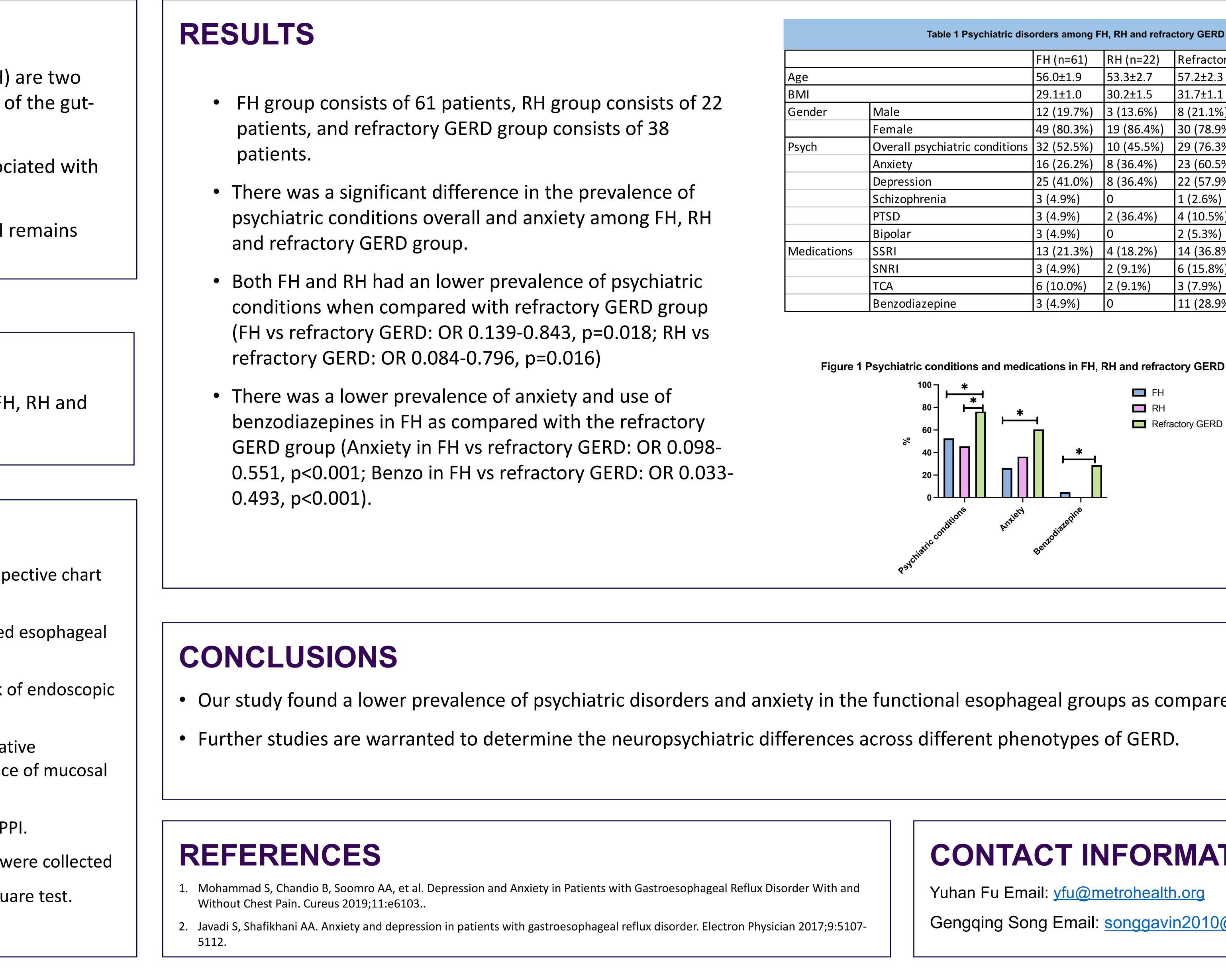
METHOD

- 774 Patients were identified through Epic SlicerDicer and retrospective chart review was performed
- Selection criteria: Diagnosed with GERD, taking PPIs and received esophageal pH monitoring from Jan 2001 to Oct 2021.
- FH patients: Negative esophageal pH monitor while off PPI, lack of endoscopic evidence of mucosal injury or major motility issues.
- RH patients: Positive symptom association with acid reflux, negative esophageal pH monitor while off PPI, lack of endoscopic evidence of mucosal injury or major motility issues.
- Refractory GERD patients: positive pH test while on twice daily PPI.
- Demographic information, psychiatric history, and medications were collected
- Data were analysed using ANOVA, Fisher's exact test and chi-square test.
- Odds ratio (OR) at 95% confidence interval was reported.

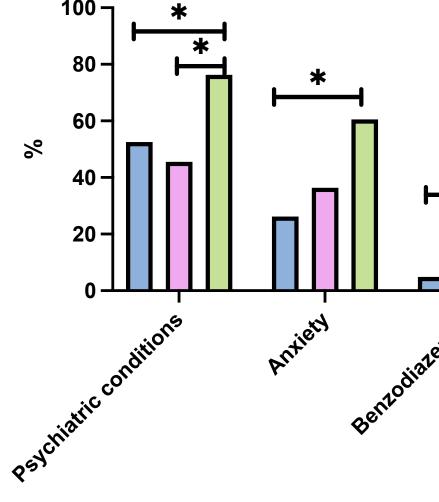
Comparison of the Prevalence of Psychiatric Disorders Among Refractory GERD, Functional Heartburn and Reflux Hypersensitivity

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| Table 1 Psychiatric disorders among FH, RH and refractory GERD | | | | | |
|--|--------------------------------|------------|------------|------------------------|---------|
| | | FH (n=61) | RH (n=22) | Refractory GERD (n=38) | р |
| Age | | 56.0±1.9 | 53.3±2.7 | 57.2±2.3 | 0.58 |
| BMI | | 29.1±1.0 | 30.2±1.5 | 31.7±1.1 | 0.27 |
| Gender | Male | 12 (19.7%) | 3 (13.6%) | 8 (21.1%) | 0.77 |
| | Female | 49 (80.3%) | 19 (86.4%) | 30 (78.9%) | |
| Psych | Overall psychiatric conditions | 32 (52.5%) | 10 (45.5%) | 29 (76.3%) | 0.02 |
| | Anxiety | 16 (26.2%) | 8 (36.4%) | 23 (60.5%) | 0.00 |
| | Depression | 25 (41.0%) | 8 (36.4%) | 22 (57.9%) | 0.17 |
| | Schizophrenia | 3 (4.9%) | 0 | 1 (2.6%) | 0.52 |
| | PTSD | 3 (4.9%) | 2 (36.4%) | 4 (10.5%) | 0.56 |
| | Bipolar | 3 (4.9%) | 0 | 2 (5.3%) | 0.56 |
| Medications | SSRI | 13 (21.3%) | 4 (18.2%) | 14 (36.8%) | 0.15 |
| | SNRI | 3 (4.9%) | 2 (9.1%) | 6 (15.8%) | 0.19 |
| | ТСА | 6 (10.0%) | 2 (9.1%) | 3 (7.9%) | 0.94 |
| | Benzodiazepine | 3 (4.9%) | 0 | 11 (28.9%) | < 0.001 |



• Our study found a lower prevalence of psychiatric disorders and anxiety in the functional esophageal groups as compared with refractory GERD group.





CONTACT INFORMATION

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