

SUPPLEMENTARY.

Table S1. Analysis of GAD-7 and HADS effectiveness as screening tools: literature review

Authors	Year	Group	Quantity	Scale	Result
Villarreal-Zegarra, et al. [1]	2023	Patients with anxiety and depressive disorders	1,347	GAD-7	Applicable for screening
Butcher, et al. [2]	2021	Male prisoners	1,205	GAD-7	Applicable for screening
Vogazianos, et al. [3]	2022	Pregnant and postpartum women	457	GAD-7	Applicable for screening
Manzar, et al. [4]	2021	Students	354	GAD-7	Applicable for screening
Bolgeo, et al. [5]	2023	Patients with ischemic heart disease	398	GAD-7	Applicable for screening
Martínez-Vázquez, et al. [6]	2022	Medical college students	170	GAD-7	Applicable for screening
Esser, et al. [7]	2018	Cancer patients	2,141	GAD-7 HADS-A	Applicable for screening
Kasyanov, et al. [8]	2022	RF population	5,116	HADS	Applicable for screening
Hartung, et al. [9]	2017	Cancer patients	2,141	HADS-D	Limited effectiveness
Garaiman, et al. [10]	2021	Patients with systemic sclerosis	316	HADS	Applicable for screening
Fernández-de-Las-Peñas, et al. [11]	2022	COVID-19 survivors	1,969	HADS	Applicable for screening

Note: GAD-7 — The Generalized Anxiety Disorder 7-item scale; HADS — Hospital Anxiety and Depression Scale.

References

- Villarreal-Zegarra D, Barrera-Begazo J, Otazú-Alfaro S, et al. Sensitivity and specificity of the Patient Health Questionnaire (PHQ-9, PHQ-8, PHQ-2) and General Anxiety Disorder scale (GAD-7, GAD-2) for depression and anxiety diagnosis: a cross-sectional study in a Peruvian hospital population. *BMJ Open*. 2023;13(9):e076193. doi: 10.1136/bmjopen-2023-076193
- Butcher E, Packham C, Williams M, et al. Screening male prisoners for depression and anxiety with the PHQ-9 and GAD-7 at NHS Healthcheck: patterns of symptoms and caseness threshold. *BMC Psychiatry*. 2021;21(1):446. doi: 10.1186/s12888-021-03453-2
- Vogazianos P, Motrico E, Domínguez-Salas S, et al. Validation of the generalized anxiety disorder screener (GAD-7) in Cypriot pregnant and postpartum women. *BMC Pregnancy Childbirth*. 2022;22(1):841. doi: 10.1186/s12884-022-05127-7
- Manzar MD, Salahuddin M, Alghadir A, et al. Psychometric properties of the Generalized Anxiety Disorder-7 Scale in Ethiopian university students. *Bull Menninger Clin*. 2021;85(4):405–427. doi: 10.1521/bumc.2021.85.4.405
- Bolgeo T, Di Matteo R, Simonelli N, et al. Psychometric properties and measurement invariance of the 7-item General Anxiety Disorder scale (GAD-7) in an Italian coronary heart disease population. *J Affect Disord*. 2023;334:213–219. doi: 10.1016/j.jad.2023.04.140
- Martínez-Vázquez S, Martínez-Galiano JM, Peinado-Molina RA, et al. Validation of General Anxiety Disorder (GAD-7) questionnaire in Spanish nursing students. *PeerJ*. 2022;10:e14296. doi: 10.7717/peerj.14296
- Esser P, Hartung TJ, Friedrich M, et al. The Generalized Anxiety Disorder Screener (GAD-7) and the anxiety module of the Hospital and Depression Scale (HADS-A) as screening tools for generalized anxiety disorder among cancer patients. *Psychooncology*. 2018;27(6):1509–1516. doi: 10.1002/pon.4681
- Kas'janov ED, Verbickaja EV, Rakit'ko AS, et al. [Validation of a DSM-5-based screening test using digital phenotyping in the Russian population]. *Zhurnal nevrologii i psikiatrii im. S. S. Korsakova*. 2022;122(6-2):64–70. In Russian. doi: 10.17116/jnevro202212206264
- Hartung TJ, Friedrich M, Johansen C, et al. The Hospital Anxiety and Depression Scale (HADS) and the 9-item Patient Health Questionnaire (PHQ-9) as screening instruments for depression in patients with cancer. *Cancer*. 2017;123(21):4236–4243. doi: 10.1002/cncr.30846
- Garaiman A, Mihai C, Dobrota R, et al. The Hospital Anxiety and Depression Scale in patients with systemic sclerosis: a psychometric and factor analysis in a monocentric cohort. *Clin Exp Rheumatol*. 2021;39 Suppl 131(4):34–42. doi: 10.55563/clinexprheumatol/qo1ehz
- Fernández-de-Las-Peñas C, Rodríguez-Jiménez J, Palacios-Ceña M, et al. Psychometric Properties of the Hospital Anxiety and Depression Scale (HADS) in Previously Hospitalized COVID-19 Patients. *Int J Environ Res Public Health*. 2022;19(15):9273. doi: 10.3390/ijerph19159273

ПРИЛОЖЕНИЕ.

Таблица S1. Анализ эффективности GAD-7 и HADS в качестве скрининговых инструментов: обзор литературы

Авторы	Год	Группа	Количество	Шкала	Результат
Villarreal-Zegarra D, et al. [1]	2023	Пациенты с тревожными и депрессивными расстройствами	1347	GAD-7	Применим для скрининга
Butcher E, et al. [2]	2021	Заклученные мужчины	1205	GAD-7	Применим для скрининга
Vogazianos P, et al. [3]	2022	Беременные и послеродовые женщины	457	GAD-7	Применим для скрининга
Manzar MD, et al. [4]	2021	Студенты	354	GAD-7	Применим для скрининга
Bolgeo T, et al. [5]	2023	Пациенты с ишемической болезнью сердца	398	GAD-7	Применим для скрининга
Martínez-Vázquez S, et al. [6]	2022	Студенты медицинского колледжа	170	GAD-7	Применим для скрининга
Esser P, et al. [7]	2018	Пациенты с онкологией	2141	GAD-7 HADS-A	Применим для скрининга
Касьянов Е.Д. и др. [8]	2022	Популяция РФ	5116	HADS	Применим для скрининга
Hartung T], et al. [9]	2017	Пациенты с онкологией	2141	HADS-D	Эффективность ограничена
Garaiman A, et al. [10]	2021	Пациенты с системным склерозом	316	HADS	Применим для скрининга
Fernández-de-Las-Peñas C, et al. [11]	2022	Люди, перенесшие COVID-19	1969	HADS	Применим для скрининга

Примечание: GAD-7 — «Шкала генерализованного тревожного расстройства»; HADS — «Госпитальная шкала тревоги и депрессии».

Список литературы

- Villarreal-Zegarra D, Barrera-Begazo J, Otazú-Alfaro S, et al. Sensitivity and specificity of the Patient Health Questionnaire (PHQ-9, PHQ-8, PHQ-2) and General Anxiety Disorder scale (GAD-7, GAD-2) for depression and anxiety diagnosis: a cross-sectional study in a Peruvian hospital population. *BMJ Open*. 2023;13(9):e076193. doi: 10.1136/bmjopen-2023-076193
- Butcher E, Packham C, Williams M, et al. Screening male prisoners for depression and anxiety with the PHQ-9 and GAD-7 at NHS Healthcheck: patterns of symptoms and caseness threshold. *BMC Psychiatry*. 2021;21(1):446. doi: 10.1186/s12888-021-03453-2
- Vogazianos P, Motrico E, Domínguez-Salas S, et al. Validation of the generalized anxiety disorder screener (GAD-7) in Cypriot pregnant and postpartum women. *BMC Pregnancy Childbirth*. 2022;22(1):841. doi: 10.1186/s12884-022-05127-7
- Manzar MD, Salahuddin M, Alghadir A, et al. Psychometric properties of the Generalized Anxiety Disorder-7 Scale in Ethiopian university students. *Bull Menninger Clin*. 2021;85(4):405–427. doi: 10.1521/bumc.2021.85.4.405
- Bolgeo T, Di Matteo R, Simonelli N, et al. Psychometric properties and measurement invariance of the 7-item General Anxiety Disorder scale (GAD-7) in an Italian coronary heart disease population. *J Affect Disord*. 2023;334:213–219. doi: 10.1016/j.jad.2023.04.140
- Martínez-Vázquez S, Martínez-Galiano JM, Peinado-Molina RA, et al. Validation of General Anxiety Disorder (GAD-7) questionnaire in Spanish nursing students. *PeerJ*. 2022;10:e14296. doi: 10.7717/peerj.14296
- Esser P, Hartung T], Friedrich M, et al. The Generalized Anxiety Disorder Screener (GAD-7) and the anxiety

- module of the Hospital and Depression Scale (HADS-A) as screening tools for generalized anxiety disorder among cancer patients. *Psychooncology*. 2018;27(6):1509–1516. doi: 10.1002/pon.4681
8. Kas'janov ED, Verbickaja EV, Rakit'ko AS, et al. [Validation of a DSM-5-based screening test using digital phenotyping in the Russian population]. *Zhurnal nevrologii i psikiatrii im. S.S. Korsakova*. 2022;122(6–2):64–70. In Russian. doi: 10.17116/jnevro202212206264
 9. Hartung TJ, Friedrich M, Johansen C, et al. The Hospital Anxiety and Depression Scale (HADS) and the 9-item Patient Health Questionnaire (PHQ-9) as screening instruments for depression in patients with cancer. *Cancer*. 2017;123(21):4236–4243. doi: 10.1002/cncr.30846
 10. Garaiman A, Mihai C, Dobrota R, et al. The Hospital Anxiety and Depression Scale in patients with systemic sclerosis: a psychometric and factor analysis in a monocentric cohort. *Clin Exp Rheumatol*. 2021;39 Suppl 131(4):34–42. doi: 10.55563/clinexprheumatol/qo1ehz
 11. Fernández-de-Las-Peñas C, Rodríguez-Jiménez J, Palacios-Ceña M, et al. Psychometric Properties of the Hospital Anxiety and Depression Scale (HADS) in Previously Hospitalized COVID-19 Patients. *Int J Environ Res Public Health*. 2022;19(15):9273. doi: 10.3390/ijerph19159273