ABSTRACT

Introduction Patients with generalised anxiety disorder (GAD) have concerns and needs about their health and the healthcare they receive. Patient decision aids (PDAs) are tools that assist patients in making health decisions, when there is uncertainty about treatment choice, incorporating their personal preferences and values about the available treatment options. PDAs can improve shared decision-making and lead to better treatment outcomes. The aim of this study is to evaluate the effectiveness of a web-based PDA for patients with GAD in primary care (PC).

Methods and analysis The general study design is comprised of two stages: (1) development of a web-based PDA for patients with GAD, derived from an evidence-based Clinical Practice Guideline and (2) assessment of the effectiveness of the PDA in a randomised controlled trial (RCT) design, in PC centres in Tenerife (Spain). This RCT will be carried out with 124 patients with GAD, comparing the PDA to a fact sheet with general information on mental health. Patients will review the PDA in one session accompanied by a researcher. Post-intervention measures will be administered immediately after the intervention and at 3-month follow-up. The primary outcome will be decisional conflict. Secondary outcomes will include knowledge about GAD and its treatment, treatment preference, concordance between treatment preference and choice, and decision quality (knowledge ≥60% and concordant decision).

Ethics and dissemination The project received ethics approval from the local committee at Nuestra Señora de la Candelaria (HUNSC) University Hospital in Santa Cruz de Tenerife (code: CHUNSC_2019_58). Informed consent will be obtained from each participant before randomisation. Results from the trial will be submitted for publication in international peer-reviewed scientific journals and will be disseminated through workshops and local and international conferences.

Trial registration number NCT04364958.

INTRODUCTION

Anxiety disorders (ADs) are some of the most prevalent mental health disorders, twice as common in women than men. They affect 61.5 million people in Europe, and findings from a recent prevalence study in Spain indicated that about 11% of adults are affected by an AD. ADs have an important negative impact on the health-related quality of life of patients as well as in their economies, due mostly to indirect costs.

In primary care (PC) settings, ADs are the most common mental disorders, and among them, the generalised anxiety disorder (GAD) is one of the most prevalent. However, due to the disorder’s complexity and its frequent association with other conditions such as depression, its clinical recognition and management is becoming more difficult. GAD is characterised by persistent, excessive and uncontrollable anxiety and worry about everyday life events, and it is also frequently associated with interpersonal difficulties.

This disorder displays periods of recurrence and remission, a variable course that can...
often result in functional and cognitive impairment and a reduction in health-related quality of life.11

Treatment options for GAD include pharmacotherapy (eg, selective serotonin reuptake inhibitors, selective serotonin–norepinephrine reuptake inhibitors, benzodiazepines) and psychological treatment (i.e., cognitive behavioural therapy, applied relaxation,13 metacognitive therapy, acceptance-based therapy or mindfulness).12,13 As well as in other mental disorders, a stepped-care model, in which therapies are applied sequentially depending on the severity of the disorder and the response to previous treatments, is recommended. The stepped-care model is used to organise the provision of services and to help people with GAD, their families and healthcare professionals to choose the most effective interventions for each case.11

Shared decision-making (SDM) is currently advocated as the gold standard of the interaction between patients and healthcare providers, both from an ethical (i.e., respecting patient’s autonomy) and a practical perspective. SDM is aimed at incorporating patients’ preferences and values regarding available treatment options into the decision-making process, avoiding professionals’ paternalism in their relationship and communication with patients. SDM should take place in all phases of care to facilitate evidence-based information about treatments and discussion of the possible options.14,15 The final aim of SDM is to help patients make decisions that are objectively informed and congruent with their own values regarding the treatments’ potential consequences.16

Patient decision aids (PtDAs) are one of the most used interventions to promote SDM between healthcare professionals and patients. These tools can be developed in different formats (e.g., booklet, video, software, web) and include evidence-based information about the target disease and the available treatment options, with quantitative empirical data about potential benefits and risks of complications/adverse effects. They also try to promote an explicit or implicit reflection in patients about their own values and preferences concerning such potential consequences of treatments.17 PtDAs can be used before the clinical encounter, preparing patients to discuss their concerns and preferences about the options or in interaction with the professional during the consultation. The last update of the Cochrane systematic review of PtDAs for treatment or diagnostic decisions15 showed, compared with control groups, a pooled 23% relative improvement in objective knowledge about the disorder and treatments and twice as many patients with accurate risk perceptions and decisions congruent with their own values, respectively. PtDAs also decrease decisional conflict (i.e., uncertainty about own knowledge and preferences, and about the course of action to take) and reduce the number of people who are passive in decision-making by 32%.15

Nevertheless, in the field of mental health and especially in GAD, the number of interventions to promote SDM is still limited.18–20 In the above-mentioned Cochrane review, none of the 105 randomised trials addressed patients with ADs. Several studies have shown that many mental health patients want to be involved in the decisions about their care21,22 and that clinical experts in specialised psychiatric care give value to interventions to promote SDM.23,24 Therefore, the development and assessment of PtDAs in the field of ADs could help to reduce this gap and help patients to participate in the decision-making process.

In recent decades, working groups such as the Cochrane Collaboration have developed strategies that link the recommendations of Clinical Practice Guidelines (CPGs) and PtDAs in order to improve clinical practice.25 The conclusions of a recent methodological report support the need to develop PtDAs based on CPGs, with the aim of improving the quality of the SDM process.26 Currently, The Evaluation Unit of the Canary Islands Health Service (SESCS) is coordinating the update of a CPG for the treatment of patient with GAD in PC27 for the Clinical Practice Guidelines Programme in the National Health System (NHS) of Spain. This programme, launched in 2006, is coordinated by GuíaSalud (www.guiasalud.es), an NHS organisation in which the 17 Spanish Communities and the Ministry of Health created as an instrument to improve the quality of healthcare in the NHS.

Derived from this evidence-based CPG, a PtDA for patients with GAD will be developed here, given that the preferences and values of patients with GAD across the care process are not usually explored,18 and they may experience difficulties deciding whether or not to use pharmacological medication, psychological therapy or both. Therefore, given the existing shortage of PtDAs for patients with GAD, the aims of this study are (1) to develop a PtDA for patients with GAD using internationally recommended procedures and (2) to assess the effectiveness of the PtDA in terms of improving the decisional process in patients with GAD.

METHODS/ANALYSIS

The protocol has been developed following the Standard Protocol Items: Recommendations for Interventional Trials (SPIRIT) 2013 statement28 (see online supplemental additional file 1). Any future protocol modification will be registered in the ClinicalTrials.gov database and communicated to the Scientific and Ethics Committee of the HUNSC (Tenerife, Spain).

Study design

The study design is comprised of two stages: (1) developing a web-based PtDA for patients with GAD based on the recommendations of a CPG and (2) assessing the effectiveness of this PtDA in a RCT design.

Following the methodological process of Elwyn et al,29 the development of the web-based PtDA will consist of the following phases:
Step 1: web-based PtDA from CPG recommendations (composed of five sub-phases)
1. Synthesis of the available evidence: the recommendations from the updated CPG for the treatment of patients with GAD will be used to develop the PtDA. Other existing PtDAs addressing patients with GAD will be also taken into consideration.
2. Creation of project management groups (PMGs): the PMG will be composed of an Expert Committee with six to eight participants from primary and specialised healthcare (i.e., family physicians, psychiatrists, nurses and psychologists) and four to five patients with GAD and their relatives and/or caregivers. Furthermore, a technical team (web designers and developers) and a scientific team (clinical experts and researchers) will be created. The group is at the heart of the development process and the people in this group have editorial control and make the final decisions on content specification, design and testing phases. The group will also undertake the early evaluation during prototype testing.
3. Development of the PtDA: the safety and effectiveness evidence of the different treatment options, based on the recommendations of the CPG, will be analysed and discussed by the scientific team to provide the main contents and a recommended structure. Presentation designs and technical issues will be discussed with the technical team. Finally, a first version of the PtDA will be developed according to the International Patients Decision Aid Standards (IPDAS).
4. Content review: All members of the Expert Committee will assess the first version of the PtDA. Presentation and content issues will be reviewed and refined by means of an iterative process. This review process will be carried out through virtual or face-to-face meetings. As a result of this process, a second version of the PtDA will be developed.
5. Field testing: ten patients with GAD (with all degrees of severity) will test the PtDA, evaluating its acceptability in terms of content (clarity, quantity and usefulness of information), format issues, structure and navigability. The scientific team will collect qualitative and quantitative information from field testing. After modifying these aspects highlighted by patients in order to improve the PtDA, it will be ready to move to step 2 (effectiveness assessment).

Step 2: assessment of the PtDA effectiveness

Design and setting
A parallel, multicentre RCT will be carried out in PC centres in Tenerife (Canary Islands, Spain). Centres will be randomly selected among all the PC centres in Tenerife, stratified by urban/rural. Participants will be randomly allocated to intervention (web-based PtDA) or control group (web-based fact sheet with general information on mental health). The study is expected to last 9 months (from the start of recruitment to the complete finalisation of the data).

Eligibility criteria
Inclusion criteria
Adult (≥18 years) with a confirmed diagnosis of GAD (ICD-10 codes: 300.02; F41.1) by a healthcare professional, with a score ≥8 in the GAD-7 with ability to speak and read Spanish and who agree to participate and sign the informed consent.

Exclusion criteria
Patients with a primary diagnosis other than GAD, a score <8 in the GAD-7 and those with significant physical or mental disability that prevents them from completing the study activities or those participating in other trials related to GAD treatment or education will be excluded.

Intervention
PtDA group
The web-based PtDA (shown on the computer) will include information about GAD symptoms, diagnosis, causes, benefits and risks associated with psychological and pharmacological treatments for GAD (based on the CPG–GAD). It will also include a values clarification exercise, in which patients will have to rate the importance attributed to the different aspects of treatments (e.g., mode of administration, benefits, risks, time to improvement, probability of relapse).

Fact sheet group
Patients in the control group will receive a web-based fact sheet (one page shown on the computer) with general information on mental health.

Outcomes measures
Primary outcome
The primary outcome will be the decisional conflict regarding the treatment for GAD, assessed with the Decisional Conflict Scale (DCS) immediately after reviewing the PtDA. The DCS evaluates the level of patient’s subjective knowledge, perceived support and uncertainty when they are confronted with a medical decision. It includes 16 items and five subscales: feeling informed, clear values about benefits or risks, support, uncertainty and effective decision. Scores are transformed to a 0–100 scale, with higher scores indicating more conflict. In previous studies addressed to other health conditions, the authors have obtained good internal consistency values (Cronbach’s alpha: 0.88–0.90).

Secondary outcomes
Knowledge about the disorder and treatment alternatives: due to the lack of published instruments to measure patients’ objective knowledge about GAD and its treatments, a new scale will be developed with a maximum of ten items, based on the contents of the PtDA. Its content will include types of pharmacological...
and psychological treatments, adverse effects of drugs recommended for GAD, continuation pharmacotherapy or time to improve with psychotherapy.

- Treatment preference: assessed with one item with four response alternatives: (pharmacological treatment, psychological treatment, combined pharmacological and psychological treatment or unsure).
- Actual treatment choice: patients’ actual treatment will be assessed at 3 months, with the same categories of treatment preference.
- Concordance between preferred (post-intervention) and chosen (3 months) treatment: assessed by a binary variable (concordant/non-concordant) derived from the congruence between preference and choice.
- Decision quality: assessed by a binary variable (yes/no) defined as a combination of adequate knowledge (≥60% of correct responses) and a choice concordant with preferences.

Adjustment variables

- Sociodemographical variables including age, sex, educational level (no studies, primary education, secondary education, university or equivalent studies), current occupation (active, unemployed, household work, sick leave, pensioner, retired) and marital status (married/partner, single, separated/divorced, widowed).
- Generalised anxiety disorder-7 (GAD-7). The questionnaire is a one-dimensional self-administered scale that assesses the presence of GAD symptoms, as listed in the DSM-IV. The total score may be categorised into four groups of severity: minimal (0–4), mild (5-9 points), moderate (10-14 points) and severe (14-20 points).
- Hospital Anxiety Depression Scale (HADS): this is a 14-item questionnaire composed of two subscales (HADA: anxiety and HAD-D: depression), of 7 items each, that are scored from 0 to 3. For both (anxiety and depression), the authors recommend a threshold of 8 points to detect possible cases of anxiety and depression and a score greater than 11 to indicate cases probable of anxiety and depression.
- Patient Assessment Measure (PAM).
- Control Preference Scale (CPS) to know patients’ preferred roles in treatment decision. It is comprised of five cards with each of them representing a different role in treatment decision-making using a statement and a caricature. These roles range from the patient making the treatment decisions, through the patient making the decisions jointly with the physician, to the physician making the decisions. The CPS implicates patients in making a series of paired comparisons to provide their total preference order over the five web cards. The patient can score on: active (active–active or active–collaborative), collaborative (collaborative–active or collaborative–passive) or passive (passive–collaborative or passive–passive).
- Previous treatment: pharmacological or psychological treatment used throughout the previous year (doses and sessions) and the services where the patient receives such treatments (public, private or both).

Adverse events

No adverse events associated with this intervention are expected to occur in any of the groups. However, after the completion of post-intervention measures, patients will be asked about any undesired psychological effect derived from their participation in the study, the application of the PtDA or the completion of questionnaires.

Participant timeline

Table 1 shows the details about schedule of enrolment, interventions and assessments. At baseline, in the telephone call to recruit patients, those who agree to participate will complete the primary outcome (DCS), the knowledge measure, treatment preference, GAD-7, PAM and HADS. Sociodemographical and clinical variables will also be assessed.

In the subsequent appointment in the health centre, patients will complete the CPS. They will then be allocated to the review of the PtDA/fact sheet, and after that the DCS, knowledge and preferred treatment will be assessed.

Three months after the intervention, patients will be phoned to complete the DCS, the knowledge scale and the GAD-7 again. The actual treatment choice will also be recorded. Table 1 on schedule of enrolment, interventions, and assessments (SPIRIT) checklist.

Sample size

Assuming type I and II errors of 0.05 and 0.20, respectively, a total of 124 patients (62 patients per group) are needed in order to detect a medium effect size (Cohen’s d=0.5) in the primary dependent variable (DCS). Assuming that 20% of patients are lost to follow-up, the final sample size increases to 156 patients (78 per group).

Recruitment and procedure

Patient’s recruitment will take place in different PC centres, from urban and rural areas in Tenerife (Canary Islands, Spain). The research team will contact the directors of the health centres by telephone to arrange one meeting with all the health professionals. In this session (lasting approximately 45 min), they will be informed by a researcher about the study objectives and the recruitment plan. Those interested in collaborating will sign the informed consent (see online supplemental additional file 2). These professionals will identify patients meeting eligibility criteria, from the electronic medical records, and phone them to ask for their verbal consent to provide their contact data to the research team. Patients who accept will be contacted by a researcher, who will provide the entire study information and apply the GAD-7 to
confirm a probable GAD case (score ≥8). Patients who agree to participate will complete the baseline assessment in the same phone call (or in a second one, if the assessment is too onerous for them), and an individual appointment of approximately 60 min at their PC reference centre will be arranged. At this meeting, patients will read the study information sheet, sign the informed consent and complete the CPS. The researcher will then open the sealed envelope with patient allocation. Those allocated to the intervention group will review the web-based PtDA, with the help of the researcher if necessary, and finally they will fill in the questionnaires assessing the outcome measures in the same web interface. Patients allocated to the control group will review a web-based fact sheet with general information on mental health, and then they will complete the same questionnaires. Three months later, participants will be contacted by phone and assessed again. During these 3 months, the PtDA will be accessible for patients in the intervention group (see figure 1).

Table 1 Schedule of enrolment, interventions and assessments (SPIRIT checklist)

| Timepoint | Study period | Before randomisation | Allocation | Post-allocation |
|-----------|--------------|----------------------|------------|-----------------|
| Enrolment: |              | Baseline telephone   | Baseline On-site | 0 | Post-intervention | Follow-up (3 months) |
| Eligibility screen | X | | | | | |
| Verbal informed consent | | | | | | |
| On-site informed consent | | X | | | | |
| Allocation | | | | X | | |
| Interventions: | | X | | | | |
| Web-based PtDA | | | | | | |
| Web-based fact sheet | | X | | | | |
| Assessments: | | X | | | | |
| Sociodemographical and clinical variables | | X | | | | |
| GAD-7 | X | | | | X | |
| DCS | X | | X | | X | |
| Knowledge | X | | | | X | |
| CPS | | X | | | | |
| PAM | | X | | | | |
| HADS | | X | | | | |
| Treatment preference | X | | | | | |
| Concordance between preference and choice | | | X | | | |
| Decision quality | | | | | X | |

CPS, Control Preference Scale; DCS, Decisional Conflict Scale; GAD-7, Generalised Anxiety Disorder-7; HADS, Hospital Anxiety and Depression Scale; PAM, Patient Activation Measure; PtDA, Patient Decisional Aid; SPIRIT, Standard Protocol Items: Recommendations for Intervventional Trials.

Data management

All information gathered will be stored with an ID code number to maintain anonymity and stored in an electronic database management system located on a secure server with password-controlled access provided for research data collection, according to the General Registry for the Protection of Personal Data (RGPD UE 679/2016) and Spanish Organic Law 3/2018, of December 5, on the Protection of Personal Data and Guarantee of Digital Rights. Databases will be designed to avoid downloading inappropriate values for every variable. The Research Ethics Committees, the representatives of the health authority and the personnel authorised by the promoter may only access to check personal data, clinical study
procedures and compliance with the rules of good clinical practice.

Statistical analysis

Descriptive statistics will be obtained for outcome and control variables. Analyses will be performed on an intention-to-treat basis, imputing missing values by means of multiple imputation (Markov Chain Monte Carlo method with 10 imputations per variable). The effect of the intervention on the primary outcome (DCS) and knowledge will be analysed by means of linear regression, adjusting for baseline scores, patient’s activation (PAM) and other variables which show significant differences at baseline (assessed with Student’s T-test and $\chi^2$ for continuous and categorical variables, respectively). The difference in the number of patients unsure about their treatment preference will be compared with the $\chi^2$ test.

Patients will be classified as concordant if their post-intervention treatment preference coincides with their actual choice at 3 months (patients unsure at post-intervention will be classified as non-concordant). The effect of the intervention in the number of concordant patients, as well as in those who made a quality decision (knowledge $\geq 60\%$ and concordant choice) will be analysed by means of logistic regression, adjusting for the same covariates as those used for the continuous outcomes. A sensitivity analysis will be carried out excluding patients unsure at post-intervention. Analyses will be performed with the STATA.15 statistical programme.

Patient and public involvement

Neither patients nor public representatives were involved in the development of this study design but they will be involved in the development and validation of the PtDA.

Challenges and limitations

The main challenge for the successful development of the study is the collaboration of PC professionals in the recruitment of participants. In this regard, the research team has considerable experience conducting studies in PC, and many of the potential participating centres have collaborated in these studies. Nonetheless, the current pandemic of COVID-19 could interfere or delay the recruitment or the application of the interventions in the PC centres, which could make an extension of the estimated duration of the study necessary. In case of extreme difficulty in applying the PtDA in-person, patients could review it online.

Another challenge is the potential overload of patients due to the various questionnaires applied; however, the selected instruments are relatively short, and the most onerous assessment is the baseline one, with approximately 60 items. If patients are overloaded, this assessment can be completed in a second telephone call. The application of the PtDA will be carried out by a researcher, thus avoiding problems related to professionals’ time constraints.

The study has several limitations. Diagnosis of GAD will not be confirmed with a structured interview, but they will be screened with the GAD-7. We do not expect too many patients will be lost at follow-up, since its duration is 3 months and patients will be contacted by telephone. If they refuse to complete the follow-up questionnaires, we will try to record at least their actual treatment choice. Nonetheless, multiple imputation will be used to minimise the risk of attrition bias. At follow-up, health behaviours will not be assessed (e.g., adherence, physical activity), and although the GAD-7 questionnaire will be included in the assessment, there will be no hypothesising on changes on health outcomes. The primary aim of PtDAs is to promote involvement in decision-making and quality of decisions, and the evidence about their effects on health behaviours and outcomes is currently scarce and mixed.

ETHICS AND DISSEMINATION

The project received ethics approval from the local committees of the HUNSC in Santa Cruz de Tenerife (code: CHUNSC_2019_58). Informed consent will be obtained from each participant before randomisation. Results from the trial will be submitted for publication in international peer-reviewed scientific journals and will be disseminated through workshops and local and international conferences.

TRIAL STATUS

This study has been registered at ClinicalTrials.gov (identifier NCT04364958 number). The recruitment of
patients will start in November 2020. The estimated end date of the recruitment will be August 2021.

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REFERENCES
1 WHO. Mental health in the workplace [online]. World Health Organization, 2017. https://www.who.int/mental_health/es/
2 Stein DJ, Lim CCW, Roest AM, et al. The cross-national epidemiology of social anxiety disorder: data from the world mental health survey initiative. BMC Med 2017;15:143.
3 Begum M, Lewison G, Wölbert E, et al. Mental health disorders research in Europe, 2001–2018. Evid Based Ment Health 2020;23:15–20.
4 Villagrassa B, Olaya B, Lopez-Anton R, et al. Prevalence of anxiety disorder among older adults in Spain: a meta-analysis. J Affect Disord 2019;246:408–17.
5 Rovira J, Albarracin G, Salvador L, et al. The cost of generalized anxiety disorder in primary care settings: results of the ANCORA study. Community Ment Health J 2012;48:372–83.
6 Alonso J, Lepine J-P. ESEMeD/MHEDEA 2000 Scientific Committee. Overview of key data from the European study of the epidemiology of mental disorders (ESEMeD). J Clin Psychiatry 2007;68:3–9.
7 Metzler DH, Mahoney D, Freedy JR. Anxiety disorders in primary care. Prim Care 2016;43:245–61.
8 Bados A. Trastorno de ansiedad generalizada [online], 2017. Available: http://hdl.handle.net/2445/115724
9 Parmentier H, Garcia-Campayo J, Prieto R. Comprehensive review of generalized anxiety disorder in primary care in Europe. Curr Med Res Opin 2013;29:355–67.
10 American Psychiatric Association. Diagnostic and Statistical manual of mental disorders: DSM-V. 5th edn. Washington, DC: American Psychiatric Association, 2013.
11 National Institute for Health and Care Excellence (NICE). Generalised anxiety disorder and panic disorder in adults: management [online], 2019. Available: https://www.nice.org.uk/guidance/ng131/chapter/1-Guidanceforstepped-care-for-people-with-gad [Accessed 3 May 2020].
12 Dahlín M, Andersson G, Magnusson K, et al. Internet-delivered acceptance-based behaviour therapy for generalized anxiety disorder: a randomized controlled trial. Behav Res Ther 2016;77:86–95.
13 Hoge EA, Bui E, Marques L, et al. Randomized controlled trial of mindfulness meditation for generalized anxiety disorder. J Clin Psychiatry 2013;74:786–92.
14 Durand M-A, Stiel M, Boivin J, et al. Where is the theory? evaluating the theoretical frameworks described in decision support technologies. Patient Educ Couns 2008;71:125–35.
15 Stacey D, Légaré F, Lewis K, et al. Decision aids for people facing health treatment or screening decisions. Cochrane Database Syst Rev 2017;19.
16 Winn K, Oznane E, Sepucha K. Measuring patient-centered care: an updated systematic review of how studies define and report concordance between patients’ preferences and medical treatments. Patient Educ Couns 2015;98:811–21.
17 Coulter A, Kryworuchko J, Mullen PD, et al. Chapter A: using a systematic development process, in update of the International Patient Decision Aids Standards (IPDAS) Collaborations’ Background Document, Llewellyn-Thomas H, Volk RJ, editors, 2012: 1–16.
18 Hurtado MM, Villena A, Vega A, et al. ‘I have anxiety, but I have values and preferences’ Experiences of users with generalized anxiety disorder: a qualitative study. Int J Ment Health Nurs 2020;inm.12690.
19 Metz MJ, Veerbeek MA, Elfordall i, et al. [Shared decision making in mental health care; evaluation of the added value for patients and clinicians]. Tijdschr Psychiatr 2019;61:487–511.
20 Alguera-Lara V, Dowsey MM, Ride J, et al. Shared decision making in mental health: the importance for current clinical practice. Australas Psychiatry 2017;25:578–82.
21 Fisher A, Sharpe L, Anderson J, et al. Development and pilot of a decision-aid for patients with bipolar II disorder and their families making decisions about treatment options to prevent relapse. PLoS One 2018;13:e0200490.
22 Tlach L, Wüsten C, Daubmann A, et al. Information and decision-making needs among people with mental disorders: a systematic review of the literature. Health Expect 2015;18:1856–72.
23 Rodenburg-Vandenbussche S, Carlier I, van Vliet I, et al. Patients’ and clinicians’ perspectives on shared decision-making regarding treatment decisions for depression, anxiety disorders, and obsessive-compulsive disorder in specialized psychiatric care. J Eval Clin Pract 2020;26:645–58.
24 Samalin L, Gento J-B, Boyer L, et al. Shared decision-making: a systematic review focusing on mood disorders. Curr Psychiatry Rep 2018;20:23.
25 Almeida-Coello P, Oxman AD, Moberg J, et al. Grade evidence to decision (ETD) frameworks: a systematic and transparent approach to making well informed healthcare choices. 2: clinical practice guidelines. BMJ 2016;353:i2089.
26 Perestelo-Pérez L, Salcedo Fernández F, Toledo Chavarrí A, et al. Desarrollo de herramientas de ayuda para la toma de decisiones compartida derivadas de las recomendaciones de las guías de práctica clínica. Ministerio de Sanidad, Servicios Sociales e Igualdad. Servicio de Evaluación del Servicio Canario de la Salud. Informes de Evaluación de Tecnologías Sanitarias 2017.
27 Grupo de Trabajo de la Guía de Práctica Clínica para el Manejo de Pacientes con Trastornos de Ansiedad en Atención Primaria. Guía de Práctica Clínica para el Manejo de Pacientes con Trastornos de Ansiedad en Atención Primaria. Madrid: Plan Nacional para el SNS del MSC. Unidad de Evaluación de Tecnologías Sanitarias. Agencia Lain Entralgo: Guías de Práctica clínica en el SNS: UETS No 2006/10, 2008.
28 Chan A-W, Tetlazff JM, Altman DG, et al. Spirit 2013 statement: defining standard protocol items for clinical trials. Ann Intern Med 2013;158:200.
29 Elkins G, Krewiel I, Durand MA, et al. How to develop web-based decision support interventions for patients: a process map. Patient Educ Couns 2011;82:260–5.
30 Coulter A, Stilwell D, Kryworuchko J, et al. A systematic development process for patient decision aids. *BMC Med Inform Decis Mak* 2013;13:52.

31 World Health Organization. The ICD-10 classification of mental and behavioural disorders: clinical descriptions and diagnostic guidelines [online], 1992. Available: https://apps.who.int/iris/handle/10665/37958

32 Garcia-Campayo J, Zamorano E, Ruiz MA, et al. Cultural adaptation into Spanish of the generalized anxiety disorder-7 (GAD-7) scale as a screening tool. *Health Qual Life Outcomes* 2010;8:8.

33 Urrutia M, Campos S, O’Connor A. [Validation of a Spanish version of the Decisional Conflict Scale]. *Rev Med Chil* 2008;136:1439–47.

34 Perestelo-Pérez L, Rivero-Santana A, Sanchez-Afonso JA, et al. Effectiveness of a decision aid for patients with depression: a randomized controlled trial. *Health Expect* 2017;20:1096–105.

35 Perestelo-Pérez L, Rivero-Santana A, Boronat M, et al. Effect of the statin choice encounter decision aid in Spanish patients with type 2 diabetes: a randomized trial. *Patient Educ Couns* 2016;99:295–9.

36 Perestelo-Pérez L, Rivero-Santana A, Torres-Castaño A, et al. Effectiveness of a decision aid for promoting colorectal cancer screening in Spain: a randomized trial. *BMC Med Inform Decis Mak* 2019;19:9.

37 Spitzer RL, Kroenke K, Williams JBW, et al. A brief measure for assessing generalized anxiety disorder. *Arch Intern Med* 2006;166:1092.

38 Quintana JM, Padierna A, Esteban C, et al. Evaluation of the psychometric characteristics of the Spanish version of the hospital anxiety and depression scale. *Acta Psychiatr Scand* 2003;107:216–21.

39 Herrero MJ, Blanch J, Peri JM, et al. A validation study of the hospital anxiety and depression scale (HADS) in a Spanish population. *Gen Hosp Psychiatry* 2003;25:277–83.

40 Torol-Cantero MC, Cabrera-Perona V, Martín-Aragón M. Revisión de estudios de la Escala de Ansiedad Y Depresión Hospitalaria (had) en muestras españolas. *An Psicol* 2015;31:494.

41 Skolasky RL, Green AF, Scharfstein D, et al. Psychometric properties of the patient activation measure among multimorbid older adults. *Health Serv Res* 2011;46:457–78.

42 Moreno-Chico C, González-de Paz L, Monforte-Royo C, et al. Adaptation to European Spanish and psychometric properties of the patient activation measure 13 in patients with chronic diseases. *Fam Pract* 2017;34:827–34.

43 Degner LF, Sloan JA, Venkatash P. The control preferences scale. *Can J Nurs Res* 1997;29:21–43.

44 De Las Cuevas C, Peñate W. Validity of the control preferences scale in patients with emotional disorders. *Patient Prefer Adherence* 2016;10:2351–6.

45 Perestelo-Pérez L, Rivero-Santana A, Boronat M, et al. Effect of the statin choice encounter decision aid in Spanish patients with type 2 diabetes: a randomized trial. *Patient Educ Couns* 2016;99:295–9.