Use of psychotropic drugs in the treatment of fibromyalgia: a systematic review

Ana Vivian Ferreira da Costa, Larissa de Carvalho Bezerra, Juliane dos Anjos de Paula

Abstract

Introduction: The treatment of fibromyalgia is evolving, and more and more drugs are available on the market.

Objective: To verify the response, tolerability, and adverse events of the use of psychotropic drugs in the treatment of fibromyalgia.

Methods: A systematic review of articles on fibromyalgia and psychotropic medications were carried out, indexed in the MEDLINE database (PUBMED) with the MeSH terms: “fibromyalgia”, “psychotropic drugs,” and “treatment outcome”. Of the 89 studies identified, 23 met the eligibility criteria.

Results: It has been seen that some classes of psychotropic medications have significantly improved patients’ painful episodes, which have an important positive impact on quality of life. Thus, it was realized that the pharmacological treatment of psychiatric disorders associated with fibromyalgia improves the condition of the patient’s acceptance of the disease. Most medications had a good impact on the patient’s quality of life without major side effects. It is known that adverse events are proportional to the dose of psychotropics, so for each patient, it is necessary to individualize the conduct.

Conclusion: Antidepressants were the best-tolerated drug class, but antipsychotics, anticonvulsants, and other more recent drugs such as agomelatine were part of the study of the main drugs used in clinical practice.

Keywords: fibromyalgia, psychotropics, treatment outcome.
Authors summary

Why was this study done?
The association between fibromyalgia and psychiatric disorders has been increasingly studied, mainly due to the favorable therapeutic advances achieved with the use of psychotropic drugs. Thus, the study can help professionals working in this area to take assertive behaviors regarding the treatment of fibromyalgia and expand scientific research on this topic, indirectly improving the clinical treatment of patients with this pathology.

What did the researchers do and find?
This is a systematic review study conducted in accordance with the guidelines of the Preferred Reporting Items for Systematic (PRISMA). We analyzed 23 articles, and the medications used in the studies were: Acetyl-L-carnitine, duloxetine, quetiapine, milnacipran, pregabalin, mianserin (Lerivon®), mirzapapine, agomelatine. Increasingly, doctors and patients realize the need for multidisciplinary care for this clinical condition. In addition to antidepressants, it was seen that antipsychotics and anticonvulsants could also be used by patients to improve quality of life when used alone or in combination with serotonin or norepinephrine reuptake inhibitors.

What do these findings mean?
It has been seen that for successful treatment, antidepressants are well used, such as duloxetine and milnacipran, which comes to break with the outdated ideology that the gold standard medication in the treatment of fibromyalgia is amitriptyline. This study is an update for medical professionals of different specialties, mainly rheumatologists and psychiatrists so that they can better guide patients' morbidity as they use these medications to manage the patient with fibromyalgia.

INTRODUCTION

Fibromyalgia (FM) is a chronic medical condition characterized by generalized musculoskeletal pain that persists for at least 3 months, along with the presence of at least 11 of the 18 tender points on the exam. In addition, many patients also experience fatigue, mood disorders, headache, sleep disorders, and cognitive impairment.

This rheumatological condition is often debilitating because it has important symptoms of pain that are characterized by myalgia and muscle sensitivity and may be accompanied by asthenia, stiffness, anxiety, sleep disorders, and depression. The clinical condition is quite common and occurs in about 2% of the general population. The pathophysiology of fibromyalgia is still unknown; however, central monoaminergic neurotransmission plays an important role in its etiology.

In states of pathological pain, pain inhibitory mechanisms may be dysfunctional, contributing to central sensitization and spinal and supraspinal hyperexcitability, generating uninterrupted transmission of neuronal pathways, and manifesting as persistent pain.

The association between fibromyalgia and psychiatric disorders has been increasingly studied. In recent years, the psychiatrist has become more in demand with regard to his treatment, mainly due to the therapeutic advances achieved with psychotropic drugs, having, therefore, a more favorable treatment outcome.

Thus, the objective of this study is to verify the response, tolerability, and adverse events of the use of psychotropic drugs in the treatment of fibromyalgia.

METHODS

A systematic review of articles on the use of psychotropics in fibromyalgia published in the chosen electronic databases was carried out. A literature search was conducted online using the MEDLINE database (via PUBMED) in September 2020, with no time limitation. Initially, the terms searched in the MEDLINE database were:

- a) #1 “fibromyalgia” (MeSH Terms);
- b) #2 “psychotropic drugs” (MeSH Terms);
- c) #3 “treatment outcome” (MeSH Terms).

Descriptors were written in quotation marks. The following searches were carried out #1 AND #2 AND #3.

The research and the articles captured were reviewed three times on three occasions to ensure an adequate sample. The analysis of the articles took place after determining their relevance for the study. The PRISMA protocol was used for systematic literature review. The following inclusion criteria were obeyed: a) article whose titles refer to the topic addressed; b) studies dealing with psychotropic medications and fibromyalgia; c) original online articles accessible to the full text; d) prospective (cohort) or retrospective (case-control), observational (analytical or descriptive, except for case reports), experimental randomized clinical trials) or quasi-experimental studies (open trials). Exclusion criteria were: a) other projects, such as case studies, case series, literature review, and comments; b) non-original studies, including editorials, reviews, prefaces, and letters to the editor. The work methodology was described in figure 1.

![Figure 1](www.jhgd.com.br)
Then each study was read in its entirety, and the data were extracted and placed in Table 1 that includes authors, year of publication, description of the study, sample, main study findings. Some of the studies did not deal exclusively with fibromyalgia but also with psychiatric disorders such as depression.

### RESULTS

**Table 1:** Authors, year of publication, description of the study, sample, main findings of the study

<table>
<thead>
<tr>
<th>Author (Year)</th>
<th>Study design</th>
<th>Sample</th>
<th>Main findings</th>
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<tbody>
<tr>
<td>Mease et al.(^1) (2010)</td>
<td>Experimental Study (Randomized Clinical Trial)</td>
<td>Study 1: 278 patients entered the study extension phase: Groups with dose variation from placebo to 120mg of duloxetine. Study 2: 204 patients entered the study extension phase: groups with dose variation from placebo to 120mg of duloxetine.</td>
<td>In general, duloxetine showed favorable safety and tolerability during the 6-month to 2-year extension phases of studies of patients with fibromyalgia.</td>
</tr>
<tr>
<td>Arnold et al.(^2) (2005)</td>
<td>Experimental Study (Randomized Clinical Trial)</td>
<td>354 selected women, n = 118 used duloxetine 60mg/day, n = 116 used 120mg/day and n = 120 used placebo.</td>
<td>Both duloxetine at a dose of 60 mg/day and 120 mg/day were effective and safe in the treatment of fibromyalgia in patients with or without a major depressive disorder. (1.44 (95% \text{ CI}:2.16-0.72))</td>
</tr>
<tr>
<td>Samborski, Lezanska-Szpera and Rybakowski(^3) (2004)</td>
<td>Quase-experimental study (Open Essay)</td>
<td>26 FM patients were treated with mirtazapine: 15mg in the first week and 30mg/day in the following weeks.</td>
<td>The study suggests that mirtazapine, 15-30 mg daily, is effective in reducing pain intensity, sleep disorders, and fatigue.</td>
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<tr>
<td>Bruno et al.(^4) (2013)</td>
<td>Experimental Study (Randomized Clinical Trial)</td>
<td>15 female FM patients using Agomelatine 25mg daily.</td>
<td>Agomelatine significantly improved depression, anxiety, and pain in patients with FM.</td>
</tr>
<tr>
<td>Leombruni et al.(^6) (2015)</td>
<td>Experimental Study (Randomized Clinical Trial)</td>
<td>65 female patients diagnosed with FM were divided into two groups. One received duloxetine and the other acetyl-L-carnitine.</td>
<td>It confirms the efficacy of duloxetine and suggests that acetyl L-carnitine is also effective in improving depressive symptoms, pain, and quality of life in patients with FM.</td>
</tr>
<tr>
<td>Matthey et al.(^7) (2013)</td>
<td>Experimental Study (Randomized Clinical Trial)</td>
<td>80 women were randomized and used milnacipran (n = 40) and placebo (n = 40).</td>
<td>Patients using milnacipran reported a significant reduction in pain and improvement in dose-dependent dependent quality of life. (7.3 (95% \text{ IC}: 2.6 – 11.9)).</td>
</tr>
<tr>
<td>Potvin et al.(^8) (2012)</td>
<td>Experimental Study (Randomized Clinical Trial)</td>
<td>51 female patients with FM were randomized to quetiapine (n = 25) or placebo (n = 26).</td>
<td>In contrast to the positive effects of quetiapine on sleep disorders, we did not find any benefits from quetiapine treatment on the physical symptoms of FM.</td>
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Continuation - Table 1: Authors, year of publication, description of the study, sample, main findings of the study.

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<td>Jensen et al. (2014)</td>
<td>Experimental Study (Randomized Clinical Trial)</td>
<td>92 fibromyalgia patients participated in a clinical trial with milnacipran. The study was a 12-week, double-blind, placebo-controlled study.</td>
<td>Stimulus-response assessments revealed specific antihyperalgesic effects in responders to milnacipran, which was also correlated with reduced clinical pain and increased posterior cingulate activation. $F (1, 24) = 6.5, P &lt;0.05$</td>
</tr>
<tr>
<td>Arnold et al. (2012)</td>
<td>Experimental Study (Randomized Clinical Trial)</td>
<td>1025 patients: used milnacipran (n = 516) or placebo (n = 509).</td>
<td>Milnacipran caused a reduction in painful symptoms in patients with depression regardless of severity. 87.2 (95% CI: 76.3 -95.2) in patients with mild depression, and 85.7 (95% CI: 76- 94.7) in patients with severe depression.</td>
</tr>
<tr>
<td>Arnold et al. (2011)</td>
<td>Experimental Study (Randomized Clinical Trial)</td>
<td>Mostly 530 female patients were randomized: duloxetine 60mg -120mg daily (n = 263) and placebo (n = 267).</td>
<td>Duloxetine treatment significantly improved the multiple dimensions of fatigue in patients with fibromyalgia.</td>
</tr>
<tr>
<td>García-Campayo et al. (2009)</td>
<td>Experimental Study (Randomized Clinical Trial)</td>
<td>180 patients without previous psychological and pharmacological treatment in 29 primary health care centers in the city of Zaragoza, Spain. The patients used psychological and pharmacological therapy: pregabalin (300-600 mg/day), with the addition of duloxetine (60-120 mg/day) when there is comorbid depression).</td>
<td>The effectiveness of pharmacology and psychology in the symptoms of fibromyalgia has been demonstrated, despite the effect of size being quite limited.</td>
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<tr>
<td>Gendreau et al. (2005)</td>
<td>Experimental Study (Randomized Clinical Trial)</td>
<td>125 randomized patients received milnacipran in a single dose (n = 46), milnacipran twice a day (n = 51) maximum 191mg and placebo (n = 28).</td>
<td>Response rates for patients who received milnacipran were the same in those without depression.</td>
</tr>
<tr>
<td>McIntyre et al. (2014)</td>
<td>Experimental Study (Randomized Clinical Trial)</td>
<td>120 non-psychotic adults of both sexes used prolonged-release quetiapine. 38 out of 61 patients in the quetiapine XR group and 34 out of 59 patients in the placebo group.</td>
<td>Depression, pain, and quality of life significantly improve with quetiapine XR compared to placebo in patients with a dual diagnosis of MDD and fibromyalgia. 0.4 (95% CI: 0.7 -0.1) [P = 0.019]</td>
</tr>
<tr>
<td>Moore et al. (2013)</td>
<td>Experimental Study (Randomized Clinical Trial)</td>
<td>4349 patients were randomized and used duloxetine in the osteoarthritis group (n = 1011), FM (n = 1332), chronic low back pain (n = 982), diabetic neuropathy (n = 1024).</td>
<td>Most patients had more than 50% improvement in the pain reporting response. NNT 9.3 (95% CI: 6.6-16).</td>
</tr>
</tbody>
</table>
Heymann, Helfenstein and Feldman \(^{16}\) (2001)  
**Experimental Study (Randomized Clinical Trial)**  
118 patients with fibromyalgia were randomly divided into three groups, amitriptyline (n = 40), nortriptyline (n = 38), and placebo (n = 40), and 25 mg of treatment was administered blindly at bedtime for 8 weeks.  
After 8 weeks, the three groups improved in all parameters, including the number of contest points (NTP), FIQ score, and overall improvement as reported by patients on a verbal scale (VSGI): 36.5% of the amitriptyline group, 26.7% of nortriptyline, and 24% of the placebo group.

Kim, Landon and Solomon \(^{17}\) (2013)  
**Prospective study (Cohort)**  
74,378 patients diagnosed with FM started: amitriptyline (n = 13,404), duloxetine (n = 18,420), gabapentin (n = 23,268), pregabalin (n = 19,286).  
Depression 2.14 (95% CI: 2.02-2.23) and anxiety 1.32 (95% CI: 1.25-1.40) were significant factors in initiating duloxetine compared to gabapentin.

Tabeeva et al. \(^{18}\) (1998)  
**Prospective study (Cohort)**  
The administration of mianserin (Lerivon®) or ibuprofen (Nurofen®) promoted an increase in pain thresholds. There is a need for complex therapy for patients with FM, including the administration of antidepressants and analgesics in the NSAID group.

Freedenfeld et al. \(^{19}\) (2006)  
**Retrospective study (Case-control)**  
The medical records of 51 FM patients treated with olanzapine.  
In general, olanzapine may, in certain patients, improve symptoms associated with fibromyalgia (anxiety and sleep disorders). P<0.05

Rivera et al. \(^{20}\) (2012)  
**Prospective study (Cohort)**  
232 patients, mostly female, with the introduction of anticonvulsants or antidepressants.  
The introduction of anticonvulsants or antidepressants, alone or in combination, produces a significant clinical improvement in patients with FM. \(-0.68 (95\% \text{ CI: } -1.16; -0.19)\)

Calandre et al. \(^{21}\) (2011)  
**Quasi-experimental study (Open Essay)**  
66 patients received trazodone (1st phase), and 41 patients agreed to receive associated pregabalin (2nd phase).  
Treatment with trazodone significantly improved the overall severity of fibromyalgia, depression, as well as the interference of pain in activities of daily living. Effect on pain associated with pregabalin. P <0.0001
Continuation - Table 1: Authors, year of publication, description of the study, sample, main findings of the study.

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<tr>
<td>Calandre et al.</td>
<td>Quase-experimental study</td>
<td>90 FM patients were randomized to receive quetiapine XR (n = 45) at a dose of 50 to 300 mg/day or amitriptyline (n = 45) at a dose of 10 to 75 mg/day for a period of 16 weeks.</td>
<td>The results indicate that quetiapine XR was unable to provide similar efficacy to amitriptyline and is poorly tolerated.</td>
</tr>
<tr>
<td>Dwight et al. (1998)</td>
<td>Quase-experimental study</td>
<td>15 patients with depressive disorders who completed 8 weeks of an open trial using Venlafaxine.</td>
<td>Six (55%) of 11 participants experienced a &gt; or = 50% reduction in fibromyalgia symptoms.</td>
</tr>
<tr>
<td>Rico-Villademoros et al. (2012)</td>
<td>Quase-experimental study</td>
<td>Amisulpride was added to 40 patients who met the ACR criteria for fibromyalgia and a score greater than 4 on the Fibromyalgia Impact Questionnaire.</td>
<td>Despite its promising results in some chronic painful conditions and a related illness, such as chronic fatigue syndrome, amisulpride does not appear to offer any benefit to patients with fibromyalgia.</td>
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</table>

## DISCUSSION

Of the 23 selected articles, 13 are experimental studies (randomized clinical trials), three are prospective studies (cohort), a retrospective study (case-control), and six quasi-experimental studies (open trials). Of the randomized clinical trials, five used only female individuals as a sample. Eight used a sample of both sexes. However, the prevalence of the sample was higher for females. It was noticed that there is no uniformity between clinical trials when it comes to the age group of the sample. Most of the randomized clinical studies did not specify the race of the patients; however, four articles cited that almost all of the sample was of Caucasian individuals.

The psychotropic medications used in these studies were: Acetyl-L-carnitine, duloxetine, quetiapine, milnacipran, pregabalin, amitriptyline, nor- triptyline. Only one article cited acetyl-L-carnitine as a promising medication in the treatment of FM, while six articles tested duloxetine as an effective drug in FM. Two studied quetiapine. Four tested the effectiveness of milnacipran. Only 1 cited pregabalin as the medication used in the sample, and one used amitriptyline and nor-triptiline.

Regarding longitudinal studies, only two articles do not specify gender. Two estimated mean age of 44 years and 47.7 (standard deviation ± 8.6 years). None of these four studies made reference to a specific breed. The medications used were amitriptyline, duloxetine, gabapentin, and pregabalin. Pregabalin in combination with trazodone, olanzapine, and tetracyclic antidepressant mianserin (Lerivon®).

Among the open studies, five of them refer to both sexes when choosing the sample. Four studies specified the age group of people over 18 years of age. The race of the sample was not mentioned in any of the four articles, and the medications studied were quite different: quetiapine XR and amitriptyline, mirtazapine, agomelatina, trazodone and pregabalin, venlafaxine, amisulprida.

### Randomized clinical trials

#### Female or both sexes taking Duloxetine

Leombruni et al. used Acetyl-L-carnitine and duloxetine, demonstrating the therapeutic efficacy of both medications in controlling FM symptoms. Arnold et al. found that the use of duloxetine at a dose of 60mg in 12 weeks had a positive and independent impact on the intensity of pain and mood compared to placebo. Moore et al. demonstrated that the response rates with the use of duloxetine reached 28% in the second week after the beginning of the use when compared to the placebo, which reached a reduction of pain in the order of 18% after 6 weeks of use.

García-Campayo et al. stated that pharmacological interventions and psychotherapeutic treatments for fibromyalgia were effective, and catastrophization was considered one of the most important modulating variables in the experience of pain.

Mease et al. used the same dose of duloxetine in the study by García-Campayo, varying the dose from 60-120mg daily. Patients who used higher doses of the antidepressant had a higher dropout rate due to side effects, such as blurred vision, urinary retention, sedation, and weight gain. There was a sustained improvement in the average pain score in patients who remained on the 60mg dose a day or who increased the dose. Arnold et al. found that treatment with duloxetine significantly improved the multiple dimensions of fatigue, including pain, anxiety, depressed mood, stiffness, and sleep difficulties.

#### Female or both sexes using Quetiapine

McIntyre et al. showed that quetiapine was well tolerated at an average dose of 224mg per day, despite...
causing changes in the lipid profile (elevated triglycerides and reduced HDL) and weight gain when compared to placebo. However, these changes are consistent with the expected metabolic profile of the drug.

Potvin et al.8 also showed that quetiapine was effective on sleep disorders, revealing significant improvements in the items “rested”, “anxious,” and “depressive”. However, no benefits were found on the physical symptoms of FM. The adverse effects found in the patients were elevated triglycerides, decreased HDL, cholesterol, drowsiness, dry mouth, among others, some of them congruent with the findings in the study by McIntyre et al.14. In order for quetiapine to have an analgesic effect on the physical symptoms of FM, thus altering the outcome of tender points, the authors suggest that the dose should be high, varying from 150 to 300mg/day8.

Female or both sexes using Milnacipran

Milnacipran, a non-selective antidepressant for the reception of serotonin and norepinephrine, was used by Matthey et al.1 to treat the painful component of FM. It was observed that the medication reduces the pain and improves the quality of life in FM regardless of the emotional state of the patients. Arnold et al.10 showed that patients who received milnacipran (MNL) at a dose of 100mg per day had an improvement in mood and pain. In the study by Gendreau et al.13, the drug was also well-tolerated, with no serious adverse events. The study by Jensen et al.8 also claimed that MNL is correlated with the reduction of clinical pain.

Both sexes using Amitriptyline and Nortriptyline

Heymann, Helfebstein, and Feldman16 observed that patients who used 25 mg in the amitriptyline, nortriptyline, and placebo groups in 8 weeks had an improvement in FM symptoms. Improvement was seen in 36.5% in the amitriptyline group, 26.7% in the nortriptyline group, and 24% in the placebo group.

Longitudinal Studies

Kim, Landon, and Solomon17 showed that depression and anxiety were significant factors in initiating duloxetine compared to gabapentin. Abdominal pain, sleep disturbance, and inflammatory arthritis significantly increased the patient’s chance of being treated with pregabalin compared to gabapentin. These findings suggest that the majority of patients with FM and taking one of the four prescribed medications were using inadequate doses, thus demonstrating the need to improve the overall management of fibromyalgia with respect to patient education, titration of adequate dose for pharmacological treatments, and non-pharmacological management strategies, such as aerobic exercise.

Rivera et al.26 found that the administration of an antidepressant or an anticonvulsant improves the patient’s symptoms. However, when the two classes of medications are added at the same time (pregabalin and trazodone), the effect on improving FM symptoms increases by 50% when compared to the isolated use of the antidepressant and by up to 100% when compared to the isolated use of the anticonvulsant.

The retrospective study by Freednenfeld et al.19 found that olanzapine was effective in improving FM symptoms in patients who had limited success with other treatment modalities.

Tabeeva et al.18 showed a clinical effect in decreasing the intensity of the pain syndrome and autonomic manifestations, as well as improving nighttime sleep in the group that used the antidepressant mianserin (Lerivon®). The administration of mianserin (Lerivon®) or ibuprofen (Nurofen®) promoted an increase in pain thresholds (according to the flexor nociceptive reflex data).

Open Essay

Calandre et al.22 compared the efficacy and tolerability of prolonged quetiapine release (Seroquel XR®) and amitriptyline in the treatment of fibromyalgia. It was found throughout the study that quetiapine XR is poorly tolerated and does not provide similar efficacy to amitriptyline in patients with FM.

Bruno et al.9 showed that agomelatine was well tolerated, being effective in reducing pain, sleep disturbance, daytime fatigue, and depression despite not having a significant impact on neuropsychological characteristics (executive/cognitive symptoms).

The open study by Calandre et al.22 showed that treatment with trazodone significantly improved the overall severity of fibromyalgia, depression, and the impact of pain on activities of daily living, without demonstrating a direct effect on painful symptoms. Pregabalin played an additional role in improving physical pain when combined with trazodone.

Samborski, Lezanska-Szpera, and Rybakowski3 demonstrated that mirtazapine at a dose of 30mg per day is effective in reducing the intensity of pain, sleep disorders, fatigue, intensity of vegetative and functional symptoms, being the most robust effect of the medication on the quality of the sleep.

Dwight et al.23 used venlafaxine at a dose of 150 to 300mg. Visual analog individual scales of pain, fatigue, quality of sleep, sensation on waking, and morning stiffness showed significant improvement. However, this study had a very small sample, limiting its results.

Rico-Villademoros et al.24 have shown that amisulpride does not appear to offer any benefit to patients with fibromyalgia. Amisulpride was poorly tolerated by study participants.

The medications used in the studies were: Acetyl-L-carnitine, duloxetine, quetiapine, milnacipran, pregabalin, amisulpride, venlafaxine, mianserin(leviron®), mirtazapine, agomelatine. Most of the selected articles had clear information about the sample, type, and duration of the study but did not have definitive conclusions about the treatment outcomes with the studied medications. A large part of the studies had a female and caucasian sample, possibly because it was the group of patients most affected by the condition.

Clinical perspective

What’s new?

It has been seen that for successful treatment, antidepressants are well used, such as duloxetine and
milnacipran, which comes to break with the outdated ideology that the gold standard medication in the treatment of fibromyalgia is amitriptyline. In addition to antidepressants, it was seen that antipsychotics and anticonvulsants can also be used by patients to improve quality of life when used alone or in combination with serotonin or norepinephrine reuptake inhibitors.

What are the clinical implications?
The improvement in the quality of life of the patients in this study was directly linked to lower levels of pain. Most of the adverse effects were not an impediment to the continuation of the studies and were directly related to the increase in the dose of medications. Thus, more and more, doctors and patients realize the need for multidisciplinary care for fibromyalgia. The knowledge of the psychotropics used in the treatment, including the efficacy of different classes and the adverse effects found after their administration, are important for the management of the pathology, considering that most of the patients did not have serious side effects and had good tolerability.

CONCLUSION
Antidepressants were the best-tolerated drug class, but antipsychotics, anticonvulsants, and other more recent drugs such as agomelatine were part of the study of the main drugs used in clinical practice, with satisfactory clinical response and low risks of adverse effects.

REFERENCES


Resumo

Introdução: O tratamento da fibromialgia vem evoluindo, e cada vez mais fármacos estão disponíveis no mercado.

Objetivo: Verificar a resposta, tolerabilidade e eventos adversos do uso de psicofármacos no tratamento da fibromialgia.

Método: Foi realizada uma revisão sistemática de artigos sobre fibromialgia e medicações psicotrópicas, indexados no banco de dados MEDLINE (PUBMED) com os meSH terms: “fibromyalgia”, “psychotropic drugs” e “treatment outcome”. Dos 89 estudos identificados, 23 preencheram os critérios de elegibilidade.

Resultados: Foi visto que algumas classes de medicações psicotrópicas melhoraram significativamente os episódios dolorosos dos doentes o que causa impacto positivo importante sobre a qualidade de vida. Assim percebeu-se que o tratamento farmacológico dos transtornos psiquiátricos associados à fibromialgia faz melhorar a condição da aceitação da doença pelo paciente. A maioria das medicações causou um bom impacto na qualidade de vida do doente sem grandes efeitos colaterais. Sabe-se que os eventos adversos são proporcionais a dose dos psicotrópicos, logo para cada paciente tem-se que individualizar a conduta.

Conclusão: Antidepressivos foram à classe medicamentosa mais bem tolerada, mas antipsicóticos, anticonvulsivantes e outros medicamentos mais recentes como a agomelatina fizeram parte do estudo das principais drogas usadas na prática clínica.

Palavras-chave: fibromialgia, psicotrópicos, resultado do tratamento.