Self-Efficacy-an Important Arthritis Pain Correlate and Possible Treatment Factor
General Review and Commentary

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Background

Self-efficacy, a well-established psychological construct denoting an individual’s confidence to successfully carry out a specific activity or behavior was initially discussed in the 1970 as a potential disease mediator. This brief focuses on the salience of the link between having adequate confidence to deal with arthritis pain and its relationship to the pain experience, which is normally an unpleasant one and the most profound manifestation of arthritis. Originally propounded by Dr. Albert Bandura, the psychological variable of self-efficacy was proposed to explain the discrepancy between having knowledge about a skill and the actual performance of this skill. It was also predicted to influence motivation levels that might mediate the capacity and willingness to elicit behaviors that promote health despite disconfirming experiences [1-4]. Moreover, Bandura’s research depicted how self-efficacy judgments might determine the extent to which a person will or will not perform the adaptations needed to deal with chronic illnesses [2].

The finding that the degree of self-efficacy tended to predict how much effort might be expended on a task-and for how long-in the face of obstacles and negative situations, such as pain, was a further especially insightful research observation, especially in the context of arthritis care [4]. In 1997, Bandura [4] argued these personal beliefs were fundamental to many desirable health related behaviors and practices, in the context of influencing health outcomes among people with chronic illnesses such as arthritis, a term referring to over one hundred forms of pain-provoking joint and muscle-related disorders that continue to pose an immense burden on both the affected individual, as well as society [5].

Indeed, with no prevailing cure for any form of arthritis, the importance of any understandings about the disease, especially understandings about modifiable factors that might be harnessed to reduce or minimize disability and maximize independence and life quality of the affected individual cannot be underestimated in this regard. In particular, given the link between a variety of human behaviors and several prevalent disease consequences of arthritis [6] such as pain, and between how people cope with chronic pain and disability [7], a key role for continuing to examine the role of self-efficacy in the context of efforts to reduce arthritis disability and optimize its outcomes has emerged [8].

But is there sufficient contemporary evidence to support the specific idea that self-efficacy perceptions for managing arthritis pain is a significant determinant of the severity of any prevailing arthritis pain, per se, and if so, what efforts should be forthcoming to more ably assist, enhance or promote the wellbeing of the arthritis client in this regard, other than efforts to directly.

To address these questions, this brief overview focuses on some relevant past and current research concerning the link between behavior specific arthritis self-efficacy beliefs and pain, the most important feature of arthritis. It also reviews selected processes for enhancing self-efficacy directly, as well as vicariously in the context of efforts to minimize arthritis pain.

In short, the present overview specifically examines:

i. If there evidence of a consistent association between the magnitude of one’s arthritis self-efficacy beliefs and arthritis pain, and/or between the extent of pain and the subject's confidence beliefs for managing pain.

ii. If it is possible to increase arthritis pain self-efficacy and if so, what approaches other than isolated pain relieving interventions appear most promising.

Methods

All relevant publications in the PUBMED data base covering the years January 1980-August 2017 were sought. To be included, only English language publications concerning arthritis...
disability and pain self-efficacy were deemed acceptable, with few exceptions. The specific studies retrieved to address the study question were categorized as either descriptive correlation or prospective studies. Management approaches were examined separately. Some of the author’s observations are added to solidify the arguments. The key search terms used were ‘arthritis’ and ‘self-efficacy’ or ‘pain self-efficacy’. Studies detailing instrumentation processes related to the topic were excluded. Studies that examined other forms of self-efficacy, rather than pain self-efficacy, as well as those that did not assess pain eg [9-12] were generally excluded, as were general self-efficacy studies eg, Brembo et al. [13].

Results

Among the 1135 articles housing the key words, 665 dealt specifically with pain self-efficacy topics, with 243 of these being published in the last 5 years. Many listings however, bore no relationship to the present questions of interest, and largely included efficacy studies and among those that matched the search criteria there were more correlation than prospective studies. Bearing in mind other data bases or key search terms may house or yield additional data and it is possible some works were overlooked, the majority of currently reported studies appear highly representative of this topic.

Correlation studies

Among the fair numbers of related cross-sectional studies that have examined some aspect of pain related self efficacy, the findings of these depicted in Table 1 imply a possible important relationship between arthritis pain self-efficacy and the extent of prevailing pain does exist. This implied relationship is an inverse one between pain self-efficacy and pain experiences, and tends to prevail across different forms of this condition, even if the study designs differ and are not robust [14], negative studies may be missing or unpublished, and assessment approaches and samples studied preclude synthesis [15].

Table 1: Studies demonstrating positive relationships between self-efficacy levels and pain regardless of sample or self-efficacy instrument.

<table>
<thead>
<tr>
<th>Study</th>
<th>Sample</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ahistrand et al. [23]</td>
<td>737 persons with RA</td>
<td>Pain acceptance and SE mediated participation in valued life activities</td>
</tr>
<tr>
<td>Adegoke et al. [58]</td>
<td>51 cases with knee OA</td>
<td>Pain SE correlated with performance</td>
</tr>
<tr>
<td>Barlow, Cullen, &amp; Rowe [24]</td>
<td>82 RA cases</td>
<td>Lower arthritis SE scores predicted pain</td>
</tr>
<tr>
<td>Blamey et al. [19]</td>
<td>218 attendees rheumatology clinic</td>
<td>Low SE was associated with greater pain; SE and analgesic use were negatively related</td>
</tr>
<tr>
<td>Buescher et al. [25]</td>
<td>72 RA cases</td>
<td>Patient pain behaviors were related to SE</td>
</tr>
<tr>
<td>Dodan et al. [26]</td>
<td>83 OA cases</td>
<td>SE was moderate, and affected pain level</td>
</tr>
<tr>
<td>Helminen et al. [27]</td>
<td>111 knee OA cases</td>
<td>Pain SE predicted better function (RAND-36)</td>
</tr>
<tr>
<td>Keefe et al. [28]</td>
<td>40 knee OA cases</td>
<td>Pain coping was related to enhanced SE</td>
</tr>
<tr>
<td>Lefebvre et al. [29]</td>
<td>128 RA cases</td>
<td>SE ratings were related to daily pain ratings</td>
</tr>
<tr>
<td>Packham et al. [30]</td>
<td>246 adults with long-standing JIA</td>
<td>Pain SE and pain were inversely correlated. Pain SE was weakly related to inflammation (p&lt;.005)</td>
</tr>
<tr>
<td>Pells et al. [6]</td>
<td>174 cases of overweight adults with knee OA</td>
<td>SE for pain accounted for 14% variance in pain</td>
</tr>
<tr>
<td>Porter et al. [31]</td>
<td>38 patients with OA</td>
<td>Among patients - higher SE for pain communication was associated with lower pain</td>
</tr>
<tr>
<td>Sinkallio et al. [32]</td>
<td>111 knee OA cases</td>
<td>Both pain SE and negatively charged emotion and expectations toward pain are important factors when dealing with knee OA patients.</td>
</tr>
<tr>
<td>Somers et al. [33]</td>
<td>263 arthritis cases</td>
<td>SE for pain control and function accounted for 32-42% of disease severity’s effect on their respective outcomes</td>
</tr>
<tr>
<td>Schultz et al. [34]</td>
<td>1018 elderly OA patients</td>
<td>SE partially mediated the relationship between pain intensity and pain-associated disability</td>
</tr>
<tr>
<td>Wallis et al. [35]</td>
<td>20 adults with severe OA</td>
<td>Failure to improve SE was associated with lack of improvements in pain and activity limitations</td>
</tr>
</tbody>
</table>

Indeed, while not all authors would agree in this respect eg [15-18], among those that support the view that pain related self-efficacy and pain are related in some way include Blamey et al. [19]. who found having low self-efficacy for taking care of, or for handling pain, not only correlated with increases in pain, but also with depression, anxiety levels, regular use of analgesics,
fatigue and greater physical impairment. Self-efficacy scores also correlated with reported pain ratings [20], psychological thriving [21], and general perceptions about functional ability [22] among people with arthritis, regardless of level of physical function. Other findings shown in Table 1 indicate similar trends.

Consequently it seems plausible to infer that in addition to attempts to reduce pain directly, efforts to optimize self-efficacy for managing pain or both are likely to yield more favorable outcomes in the context of an arthritic condition, than not, despite the paucity of data, and considerable limitations in this body of cross sectional related literature[23-35].

**Prospective studies linking pain self efficacy to arthritis outcomes**

While there are few prospective studies that have shown parallel trends between self-efficacy measurement scores and pain among arthritis patients, Holman, Mazonson & Lorig [36], found arthritis patients who demonstrated long term post-intervention self-efficacy improvements for managing pain, also demonstrated consistent significant early and sustained clinical improvements that seemed closely linked to changes in the participant’s self-efficacy scores for pain and managing fatigue. Strong support for self-efficacy as a salient outcome predictor was later observed by Lorig, Mazonson & Holman [37], as well as several independent researchers, for example, Yip et al. [38].

In accord with study results of Braden et al. [39] and Lorig & Holman [40], Allegrante et al. [41] who conducted a self-efficacy theory approach to enhancing short-term outcomes for persons with disabling knee osteoarthritis. This group found the interventions reduced pain levels, and improved arthritis self-efficacy for managing pain, even though a one-year follow-up study [42] showed a much diminished carry-over effect.

Taal et al. [43] who attempted to help arthritis participants adjust to their exercise, rest and medication regimens, plus the cyclic nature of the disease, reported significant positive post-intervention improvements in functional disability, and self-efficacy for overall function and knowledge. Although pain self-efficacy was not examined directly, these positive results, still evident 14 months after implementation, denoted a possible reduction in pain severity or an improved ability to cope with pain.

In another study, after combining the principles of self-management, adult learning, case management and self-efficacy enhancement in an interdisciplinary program that integrated group and individualized treatment, Alderson et al. [44] reported significant increases in self-efficacy among 57 persons diagnosed as having arthritis who participated in such a program. These improvements were noted immediately following the program, and were sustained for up to six-months after the program. Disability and pain also decreased over the follow-up period.

Similarly Brekke et al. [45] who conducted a longitudinal observational study of 306 patients with rheumatoid arthritis over a five year period showed that changes in self-efficacy regarding pain as well as other symptoms, were positively related to changes in perceived health status. This study also revealed that high levels of self-efficacy at baseline were positively related to improved pain perception after five years, and that mental distress at baseline was related to reduce self-efficacy after five years [45-50] (Table 2).

**Table 2: Selected findings concerning arthritis pain self-efficacy (SE) in prospective intervention studies.**

<table>
<thead>
<tr>
<th>Authors</th>
<th>Methods</th>
<th>Key Self-efficacy Related Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brekke et al. [45]</td>
<td>815 patients with RA</td>
<td>Baseline SE levels for pain and other symptoms seemed to influence 2-year changes in these health status measures</td>
</tr>
<tr>
<td>Knittle et al. [46]</td>
<td>271 cases RA were randomly selected to receive a questionnaire assessing pain, a 4-item goal efficacy subscale of the Self-Regulation Skills Battery in relation to that self-set physical activity goals, physical activity, life quality; 129 did a follow-up questionnaire; 109 remained in final sample</td>
<td>The first mediation model revealed significant indirect effects of SE on arthritis pain, through the achievement of physical activity goals It was concluded that higher levels of SE for physical activity increase the likelihood patients will achieve their physical activity goals</td>
</tr>
<tr>
<td>Lamb et al. [47]</td>
<td>Chronic Disease Management Program for 121 cases with severe OA</td>
<td>Pain and function SE increased among other factors</td>
</tr>
<tr>
<td>Skou et al. [48]</td>
<td>Education and exercise were carried out for 12 sessions for adults with hip or knee pain</td>
<td>Change in SE from baseline to three months (Beta = -0.369) and 30-second chair stand test (Beta = -0.251) and SE at three months (Beta = -0.492) were predictors of one-year improvement in pain (p &lt; 0.05)</td>
</tr>
<tr>
<td>Sperber et al. [49]</td>
<td>Older adults with arthritis followed for 20 wk</td>
<td>Pain and depression changes were associated with arthritis SE change (β = -.20 and -.21)</td>
</tr>
</tbody>
</table>
Self-efficacy enhancing approaches

Among a wide array of methods that may favourably impact arthritis pain self-efficacy, aquatic programs [50], cognitive behavioural self-help interventions [51], exercise and dietary weight loss approaches [52], exercise and education [53], online cognitive-behavioural self-management group therapy with weekly telephone support [54], tai-chi [55] and yoga [56] have been shown to be efficacious.

As well, self-management programs, combined with adaptive pain coping skills training interventions and social emotional support to strengthen self-efficacy expectations [57] have been found to enhance self-efficacy cognitions, plus the physical and psychological status of individuals with arthritis [28]. Educating spouses, significant family members and care-givers may also impact upon a patient’s expectancies about their ability to control arthritis-related symptoms, such as pain and functional limitation in a positive way [58].

According to Bandura [1,4] and Strecher et al. [59], clinicians interested in heightening a patient’s pains self-efficacy should attempt to:

i. Identify and reinforce the patient’s past and present successes/ accomplishments in dealing with pain.

ii. Direct the patient to observe the successful pain control related behaviors of others.

iii. Provide positive feedback for the patient’s efforts and/ or encourage people in the patient’s social network to do this as well.

iv. Help patients to correctly interpret how and what they are feeling.

In particular, given that Jia et al. [60] found pain belief content to be a significant moderator in controlling pain, perhaps identifying the specific belief of the individual and targeted this will prove especially helpful. As outlined by Marks et al. [15], there are several sub-domains within the most well-established self-efficacy tool for assessing arthritis self-efficacy, which do not yield consistent within-subject responses, and because these and their item or sub dimensions do not necessarily correlate perfectly, it might be especially helpful to pinpoint aspects of self-efficacy that need to be improved versus those that are adequate.

In addition, because self-efficacy is strengthened by actually performing the task in question, rather than just discussing this [61], helping the novice patient to carry out the actual task requirements in a step by step fashion is advocated. In addition, keeping adequate records, and offering positive reinforcement and encouragement as the new skill is learned is potentially of high import outlined by Alderson et al. [44].

Resnick [62] who conducted research to better understand the factors that influence efficacy beliefs identified 11 major themes that might be useful in a rehabilitation plan including; fostering motivation and verbal encouragement, providing exposure to positive role models, having patients deal effectively with past experiences as well as current aversive physical sensations.

Additional research reveals that for purposes of enhancing pain self-efficacy:

a. The clinician should assess the extent of pain experienced by a patient during a demanding activity.

b. They should train the individual in pain reduction skills through relaxation, distraction or imagery.

c. They should have the patient repeat the demanding activity while applying the acquired pain reduction skills and monitor the improvements in pain that result [63].

Educating patients to better manage pain, cope with disease flares and any disease progression, as well as helping them to understand why and how emotional reactions can affect their disease status may be of additional value [24]. Moreover, structuring treatments in such a way that mastery experiences and positive feedback are maximized is indicated [64].

In addition, to ensure sustainability of results [65], coping skills training and related educational interventions, plus building and maintaining a sound patient-therapist relationship that permits mutual inquiry, information-giving, and the negotiation of activity goals important to the patient may be helpful. Identifying barriers to desired goals and solutions for overcoming these, setting short-term, rather than long-term goals for some desired achievement [66,67], implementing a series of modest progressive behavioral changes, each over short time periods, may likewise improve the ability of the individual to make successive changes that can reduce pain [68].

Breaking goals into achievable steps, starting with a task that will be easy to undertake and will most likely be successful, plus practicing these in different venues may further facilitate the success of any pain self-efficacy enhancing intervention approach [69]. However, because an individual is less likely to perform an activity they feel less than confident of, a discussion about how to overcome any perceived barriers in this respect may be required [70].

Benefits likely to accrue as a consequence of a well-designed tailored set of intervention strategies to enhance pain management self-efficacy are depicted in Figure 1.

Discussion

Self-efficacy, denoting an individual’s perception of confidence to deal with negative situations or carry out desirable behaviors, which has been studied for more than 50 years, appears to be an important determinant of the overall pain experience of the arthritic patient [71] Commonly measured using a self-reported rating on a 0-10 or 10-100 scale, a small number of prospective
studies that specifically assessed aspects of pain self-efficacy appear to confirm that regardless of numbers of affected joints, joint sites, or arthritis diagnosis, continuing to explore the role that self-efficacy perceptions play in the arthritis-pain cycle may have important clinical implications, regardless of disease stage. In particular, bolstering a patient's pain self-efficacy may not only help to reduce pain directly, but may help patients to maintain an optimal level of physical function, despite the progressive nature of most of these arthritic diseases [eg., 72], even if general self-efficacy is found unrelated to pain disability [34].

Although it is unclear what specific approach is likely to prove optimal in heightening an individual’s arthritis patient’s pain self-efficacy level, sufficient research indicates the clinician should select the intervention method(s) that will most closely achieve the desired outcomes for a given individual, and concentrate on those patients whose self-efficacy is found to be low to moderate, rather than satisfactory [73]. Given that theory based interventions are in general, more efficacious in the long-term than those that are a theoretical, careful application of the steps enumerated in this brief for directly enhancing self-efficacy may produce more far reaching results than relying on vicarious self-efficacy improvements that emanate from the application of a variety of physical modalities and others.

To reduce pain, as outlined in Figure 1, the desired strategies must be carefully construed and implemented on the basis of a sound comprehensive assessment of the clinical status of the patient, including recognition of the impact of age, mental health status, actual pain levels, and general capacity towards self generated pain control efforts. Keeping adequate progress notes may help to detect patterns of import to guide further treatment suggestions both for the patient in question, as well as future patients, as may detailed personal journals that focus on the patients’ daily activities, and nature of any pain flare up. These activities could also be extended to include any emotional, mental, social, and work related issues that might enable a pattern to emerge. Based on available data, it can be anticipated that patients will probably suffer less, and begin to feel more in control, while reducing their dependence on pharmaceutical drugs. Even if surgery is contemplated, the ability to confidently deal with post-operative pain situations will possible assist in furthering the well-being of the patient.

Since there is presently no cure for any form of arthritis, and the literature is increasingly turning to cognitive factors that mediate or moderate arthritis symptoms and disease severity, it appears research to specifically differentiate those forms of arthritis or stages of arthritis that may be most favorably influenced by well designed pain self-efficacy enhancing interventions may prove highly beneficial. Comparative studies to examine whether self-efficacy theory based approaches to reduce pain do so to a greater extent than educational or other therapeutic interventions alone, which has not been well examined, also deserves evaluation. Similarly, because results presently observed in the available arthritis studies may have inadvertently have underestimated the precise nature of the factors that undermine a particular patient's pain
related coping confidence, or have been too short in duration to permit significant and desirable changes to emerge, more contemporary behavior specific approaches to assessing this variable, along with objective pain and performance measures, plus the implementation of diverse interventions over extended time periods also deserves attention.

In the interim, short-term self-efficacy enhancing interventions may still yield significant early and sustained treatment benefits including the ability to manage arthritis pain [70]. Importantly, these observed improvements are likely to be commensurate with those obtained by arthritis medications, while reducing utilization of, and dependency upon, health care services [40]. However, it is possible that important benefits that could be derived will be overlooked if the clinician as well as the researcher continue to examine the concept of pain self-efficacy solely as an aggregate psychological factor, rather than also examining item responses, or assessing pain relative to aspects of behavior that are not directly pain related.

In the following example of the magnitude of self-efficacy perceptions with respect to pain and other symptoms management scores as outlined by Lorig et al. [74], where a 10 represents low confidence or certainty and 100 represents high confidence or certainty for 5 and 6 subscale items is depicted alongside other variables over time. The single sample was an elderly community dweller with mild to moderate knee osteoarthritis undergoing an exercise intervention program. As shown below, the aggregate scores on the pain self-efficacy scale are depicted over time, and comprise 5 items that examine:

i. Certainty about one’s ability to decrease pain substantively.
ii. Certainty about one’s ability to continue activity.
iii. Certainty about one’s ability to control pain to be able to sleep.
iv. Certainty about one’s use of methods other than medication to relieve pain.
v. Certainty of benefits for making large pain reduction with methods other than medication.

In this example, we may note firstly that the self-efficacy average score for managing pain is clearly in the low range, and less profound than that expressed for the subject’s self-efficacy perceptions regarding the ability to function, suggesting that pain self-efficacy is not only an important highly important correlate in its own right in this particular case, but that different self-efficacy domains and dimensions cannot be used interchangeably to infer another. Moreover, even though a comprehensive intervention program, including exercise, was diligently delivered and pursued for more than three months, and function was heightened considerably, neither pain nor self-efficacy for managing pain, or function was heightened. In addition, certain item scores on the pain self-efficacy scale were lower post-treatment, even though others improved or were maintained.

In terms of the application of this data, a similar analysis could be made on a case by case basis at the outset for any individual client, as well as at the closure of treatment. This approach might not only indicate where no specific intervention is required, but might also depict other dimensions of pain related perceptions where self-efficacy is less than optimal and might hence warrant interventions that are more targeted and dimension specific than generic. Such an approach might also foster a better understanding of intervention results and what else in needed to assist the patient to progress optimally in the realm of pain control, as well as health status, rather than to regress [75-78] (Table 3).

Table 3: "Case Example Showing Pain Scores and Confidence to Manage Knee Osteoarthritis Symptoms that appear to be independently associated with Pain, but not with Functional Ability.

<table>
<thead>
<tr>
<th>Variable Assessed</th>
<th>Baseline</th>
<th>3 months</th>
<th>Trend</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fast walking velocity</td>
<td>65.3 m.min⁻¹</td>
<td>59.1 m.min⁻¹</td>
<td>-</td>
</tr>
<tr>
<td>6 min walk distance</td>
<td>417 m</td>
<td>422 m</td>
<td>+</td>
</tr>
<tr>
<td>Reported walking distance per day</td>
<td>7 blocks</td>
<td>11 blocks</td>
<td>+</td>
</tr>
<tr>
<td>Perceived exertion (0-15)</td>
<td>13</td>
<td>12</td>
<td>+</td>
</tr>
<tr>
<td>VAS pain measure (0-10)</td>
<td>6</td>
<td>7</td>
<td>-</td>
</tr>
<tr>
<td>CES-D Depression Score</td>
<td>15</td>
<td>17</td>
<td>-</td>
</tr>
<tr>
<td>*Pain Self Efficacy</td>
<td>38</td>
<td>36</td>
<td>-</td>
</tr>
<tr>
<td>Item 1</td>
<td>10</td>
<td>40</td>
<td>+</td>
</tr>
<tr>
<td>Item 2</td>
<td>50</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Item 3</td>
<td>30</td>
<td>10</td>
<td>-</td>
</tr>
<tr>
<td>Item 4</td>
<td>50</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>
**Other Self Efficacy Items include certainty about one’s ability:**

1. To control fatigue
2. To be active without aggravating condition
3. To be able to do something to help oneself feel better if feeling blue
4. To be able to manage pain compared to others with arthritis
5. To be able to manage symptoms so as to enjoy things of value
6. To be able to deal with frustration of arthritis

**Other Symptoms Self Efficacy Items include certainty about one’s ability:**

While some individuals with arthritis may clearly be sufficiently confident to cope with certain aspects of controlling their pain, they should still be examined closely at the outset to garner if they perceive they may be less than highly confident in their ability to undertake recommended self-management strategies and others. After that, ascertaining where the patient is less than optimally confident is specifically recommended in efforts to successfully increase their confidence and to help them adapt successfully to their condition in face its many deleterious and disabling consequences. Adequately assessing this variable, which is easy to measure and interpret, and thereafter intervening accordingly using self-efficacy theory, rather than less strategic approaches is especially indicated.

These theory-based strategies include but are not limited to:

i. Exposing the patient to salient role models who have succeeded in managing pain over the course of their disease.

ii. Taking a skills-based approach.

iii. Encouraging graduated behavioral and therapeutic practices.

iv. Encouraging salient reinterpretation of pain experiences.

v. Applying timely feedback, and practice opportunities.

vi. Promoting decision-making and problem-solving.

**Conclusion**

Self-efficacy for managing arthritis pain appears to be an important possible predictor or mediator of disease outcomes among people with various forms of arthritis. Linked to other problems that impact pain and disability, such as depression, and fear of movement, the assessment of pain self-efficacy and efforts to heighten this where deficient may serve as an important treatment target that has not been readily exploited to date, especially in the context of arthritic diseases other than rheumatoid arthritis [79, 80].

However, data do suggest that efforts to examine specific attributes of self-efficacy that underpin pain management and its control are more likely than generic approaches to assist arthritis patients in exercising better control over their disease, while lowering their sense of helplessness. In turn, those patients with high perceived self-efficacy scores are more likely to experience better health outcomes, especially in the realm of controlling excessive pain [75], regardless of intervention mode or disease stage.

viii. Providing frequent follow-up and consultation opportunities and an empathetic approach.

ix. Rewarding experiences of success and achievement of desired outcomes.

References


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