ORIGINAL RESEARCH

The challenges of pain management in primary care: a pan-European survey

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On behalf of OPENMinds Primary Care

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Correspondence: Martin Johnson Community Pain Medicine, Cardiff University, Cardiff, UK Tel +44 (0) 7775506109 Email martin.johnson58@me.com **Background:** The OPENMinds Primary Care group is a group of European primary care physicians (PCPs) with an interest in pain management, formed to improve the understanding and management of chronic pain in primary care.

Objective: A survey was conducted to assess the challenges of chronic nonmalignant pain (CNMP) management in primary care in Europe, focusing particularly on pain assessment, opioid therapy, and educational needs.

Methods: A questionnaire was developed for online use by PCPs in 13 European countries (Belgium, Denmark, France, Germany, Ireland, Italy, the Netherlands, Norway, Poland, Portugal, Spain, Sweden, and the UK).

Results: A total of 1309 PCPs completed the questionnaire, approximately 100 from each country. Most PCPs (84%) perceived CNMP to be one of the most challenging conditions to treat, yet a low priority within healthcare systems. Only 48% of PCPs used pain assessment tools, and 81% considered chronic pain and its impact on quality of life to be underassessed in primary care. PCPs were less confident about prescribing strong opioids for CNMP than for use in cancer pain. Most PCPs (84%) considered their initial training on CNMP was not comprehensive, with 89% recognizing a need for more education on the topic.

Conclusion: These findings reveal that PCPs in Europe find CNMP a challenge to treat. Areas to address with training include underuse of pain assessment tools and lack of confidence in use of opioid therapy. Guidelines on CNMP management in primary care would be welcomed. The insights gained should provide the basis for future initiatives to support primary care management of chronic pain.

Keywords: primary care physicians, chronic pain, opioid analgesics, Europe

Introduction

It is estimated that 70% of patients with chronic pain are managed in primary care.¹ Chronic pain is a key reason for consulting primary care physicians (PCPs), accounting for 22% of presenting conditions,² with over a third of adult appointments with a PCP involving a patient in chronic pain.³ Furthermore, patients with chronic pain consult their PCPs five times more frequently than patients without such pain.⁴ With such extensive and regular exposure to the needs of patients with chronic pain, it might be expected that PCPs would be highly confident and proficient in its management. However, at least 40% of patients with chronic pain treated in a routine practice setting do not achieve adequate pain relief.⁵ This suggests that chronic pain management presents a challenge to many physicians.⁶

Surveys of PCPs conducted in the USA report considerable frustration and dissatisfaction with the management of chronic pain.^{3,7} These and other surveys conducted

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in North America identified challenges, including a lack of confidence in chronic pain management, concerns about the use of opioid analgesia, and dissatisfaction with training.^{8,9} Similar challenges may face European PCPs.

With this in mind, the pan-European Opioids and Pain European Network of Minds (OPENMinds) Primary Care group (OMPC) was formed, to act synergistically with the already established OPENMinds group of leading European experts who specialize in the research and management of pain. The OMPC aims to explore initiatives that enhance pain management in primary care in Europe. The first initiative of the OMPC was a survey of PCPs to assess the challenges of chronic nonmalignant pain (CNMP) management in primary care in Europe, focusing particularly on pain assessment, opioid therapy, and educational needs. The findings should form an evidence base for future initiatives.

Materials and methods Questionnaire development

The OMPC group met in November 2010 and identified CNMP and opioid analgesia as particular problems encountered by PCPs. The OMPC Steering Committee developed a questionnaire on chronic pain (pain present for at least 3 months, several days per month, and present in the last month), as defined by the International Association for the Study of Pain (IASP).¹⁰ The questionnaire (see Supplementary material) was translated into European languages that were appropriate for the target countries. Back-translation was used to check for the validity of the terminology used.

Respondents

The research was conducted online to reach a large number of respondents from different countries in a timely and efficient manner. An online panel of more than 500,000 physicians across Europe was used. From this panel, a sample of approximately 100 PCPs was taken from each of 13 European countries (Belgium, Denmark, France, Germany, Ireland, Italy, the Netherlands, Norway, Poland, Portugal, Spain, Sweden, and the UK). The samples were selected to be nationally representative in terms of sex, age, and regional distribution. All respondents were PCPs (3–45 years of experience) spending at least 20 hours each week in direct patient care. Respondents received compensation (within accepted guidelines) for their participation. Fieldwork was undertaken in July 2011.

Statistical methods

Responses to each question were collated and analyzed for the total group and for subgroups defined by sex, years in practice, practice size, and country. Responses within subgroups were compared using one way analysis of variance (ANOVA), followed by the Bonferroni *t*-test for multiple comparisons or by the Student's *t*-test when comparing only two groups; a *P*-value < 0.05 was considered statistically significant.

Results

A total of 1309 PCPs completed the questionnaire (Table 1).

Does management of CNMP present a challenge to PCPs?

Patients with CNMP were seen as challenging to manage by 88% of PCPs, though this view was less likely among

| | Total | Males | Mean years in practice | Mean hours per week in direct patient care | Mean no patients seen per month | Single PCP practice | 2–5 PCPs in practice | ≥6 PCPs in practice | Part of large MDT |
|-----------------|-------|-----------|------------------------------|--|---------------------------------------|------------------------|-------------------------|---------------------|-------------------------|
| | | | | | | | | | |
| Total | 1309 | 949 (72%) | 19.7 | 40.5 | 441.5 | 391 (30%) | 638 (49%) | 223 (17%) | 57 (4%) |
| Belgium | 102 | 82 (80%) | 23.6 | 51.8 | 443.0 | 70 (69%) | 27 (26%) | 2 (2%) | 3 (3%) |
| Denmark | 101 | 78 (77%) | 18.9 | 40.3 | 409.3 | 33 (33%) | 63 (62%) | 4 (4%) | l (1%) |
| France | 100 | 78 (78%) | 19.9 | 51.2 | 453.4 | 44 (44%) | 45 (45%) | 3 (3%) | 8 (8%) |
| Germany | 100 | 64 (64%) | 18.8 | 46.9 | 520.6 | 57 (57%) | 41 (41%) | 0 | 2 (2%) |
| Ireland | 101 | 62 (61%) | 18.3 | 36.0 | 382.6 | 36 (36%) | 58 (57%) | 7 (7%) | 0 |
| Italy | 100 | 82 (82%) | 24.6 | 34.9 | 390.6 | 59 (59%) | 29 (29%) | 7 (7%) | 5 (5%) |
| The Netherlands | 100 | 77 (77%) | 19.8 | 38.6 | 529.9 | 28 (28%) | 64 (64%) | 6 (6%) | 2 (2%) |
| Norway | 100 | 72 (72%) | 16.9 | 35.0 | 331.6 | 13 (13%) | 65 (65%) | 18 (18%) | 4 (4%) |
| Poland | 100 | 61 (61%) | 16.7 | 38.0 | 589.4 | 24 (24%) | 71 (71%) | l (1%) | 4 (4%) |
| Portugal | 100 | 60 (60%) | 22.3 | 42.9 | 399.3 | 9 (9%) | 30 (30%) | 50 (50%) | (%) |
| Spain | 101 | 81 (80%) | 21.1 | 37.6 | 575.2 | (%) | 32 (32%) | 50 (50%) | 8 (8%) |
| Sweden | 100 | 68 (68%) | 18.3 | 35.0 | 242.3 | 2 (2%) | 52 (52%) | 42 (42%) | 4 (4%) |
| UK | 104 | 84 (81%) | 16.7 | 38.0 | 470.5 | 5 (5%) | 61 (59%) | 33 (32%) | 5 (5%) |

Table I Demographic characteristics of PCPs participating in the survey

Abbreviations: MDT, multidisciplinary team; PCP, primary care physician.

the minority (n = 57) stating that they worked within a large multidisciplinary team (definition not given) compared with other practices (77% vs 87%-90%), and in those from Portugal (81% vs \geq 91% of respondents in the UK, Sweden, and Ireland). On average, the PCPs surveyed perceived CNMP to be a low priority within the healthcare system, despite the challenges it poses (Figure 1). Regardless of sex, length of experience, and practice size, 79% of PCPs stated that the management of CNMP should be higher on the government health agenda; this view was particularly prevalent in Italy, France, Poland, Spain, and Portugal (88%–91%) compared with the Netherlands and Denmark (\leq 55%). Nearly three-quarters of respondents (74%) stated that chronic pain should be considered a disease in its own right (ranging from 56% of those in Denmark to 94% of those in Italy), though 57% considered that chronic pain is more a symptom than a condition (ranging from 42% in Germany and 43% in Italy to 70% in the Netherlands and 71% in Sweden).

Pain assessment

Fewer than half (48%) of the PCPs used pain assessment tools (Table 2); this was significantly lower among those practicing for \geq 31 years (31%) compared with physicians in practice for 6–20 years (52%–60%) (P < 0.05). Pain assessment tools were used by 70% of doctors stating that they worked in a large multidisciplinary team (not defined), compared with 43%–49% of practitioners in other practices (P < 0.05). Among respondents using assessment tools (n = 628), the most commonly used were visual analogue scales (mentioned by 64%) and numerical rating scales (51%). Although the majority (83%) of those using assessment tools recorded the results in the patients' notes, this corresponded to just 40% of all PCPs surveyed.



Figure I PCP perceptions of CNMP compared with other chronic conditions. Abbreviations: CNMP, chronic nonmalignant pain; PCP, primary care physician.

Table 2 Use of assessment tools

| Country | N | % PCPs | % PCPs using tools but | | |
|-----------------|------|-------------|------------------------|--|--|
| | | using tools | not recording in notes | | |
| Total | 1309 | 48 | 17 | | |
| Belgium | 102 | 42 | 23 | | |
| Denmark | 101 | 36 | 19 | | |
| France | 100 | 60 | 15 | | |
| Germany | 100 | 59 | 12 | | |
| Ireland | 101 | 37 | 8 | | |
| Italy | 100 | 39 | 28 | | |
| The Netherlands | 100 | 42 | 10 | | |
| Norway | 100 | 63 | 5 | | |
| Poland | 100 | 65 | 22 | | |
| Portugal | 100 | 48 | 38 | | |
| Spain | 101 | 52 | 11 | | |
| Sweden | 100 | 56 | 16 | | |
| UK | 104 | 26 | 22 | | |

Abbreviation: PCP, primary care physician.

Among those not using assessment tools, the main reason given was lack of knowledge (26%); this was a greater problem for those with many years of practice (40% of those in practice for \geq 31 years vs 12% for \leq 5 years). Other reasons given included the view that tools were not useful (18%), the lack of time (16%), the preference "to just talk with the patient" (13%), and the view that these were too impersonal (12%).

Overall, 81% of PCPs surveyed believed that chronic pain and its impact on quality of life is underassessed in primary care. Fewer than half (49%) of the PCPs reported having adequate time in their consultations with patients to discuss pain and its management, and only 64% felt they had adequate tools for the diagnosis and management of CNMP.

Opioids

Of the patients with CNMP seen by the respondents, 40% were managed without use of opioids, 40% used weak opioids only (commonly used for the management of mild to moderate pain), 11% used strong opioids only (commonly used for the management of moderately severe to severe pain), and 9% used both strong and weak opioids. PCPs were generally confident about prescribing opioids for cancer pain but less confident about opioid use in CNMP (Figure 2). Confidence was particularly low in Norway, Sweden, and Poland, with 46%, 43%, and 37%, respectively, reporting a lack of confidence in the use of strong opioids for CNMP compared with $\leq 20\%$ in the UK, the Netherlands, France, and Italy. Among the 304 PCPs who were very confident using strong opioids for CNMP, the most common reasons given were experience (mentioned by 34%) and available treatments (33% overall,



Figure 2 Proportion of PCPs (% [n = 1305]) reporting confidence in prescribing opioids for chronic pain.

Abbreviation: PCP, primary care physician.

with 70% in practitioners with ≤ 5 years of experience vs 22%–40% in those practicing for longer). Among the 92 PCPs who were not confident at all about using strong opioids in CNMP, the main reasons given were concerns about addiction or abuse (35%) and adverse events (22%).

The majority of PCPs (86%) reported that constipation was the side effect of strong opioids most commonly raised as an issue by patients (Figure 3); there was significantly lower reported concern about constipation in Portugal (56%) than in all other countries (P < 0.05).

Educational needs

Overall, 84% of PCPs reported that their initial training in CNMP management was not comprehensive. More respondents from the UK, Belgium, Poland, and the Netherlands were dissatisfied with their initial training (88%–91%) than those in France, Germany, and Ireland (72%–78%). During the preceding year, 75% of respondents had received formal training and education on CNMP management, with a lower proportion in Sweden (42%) than in all other countries and \geq 92% in Italy, Spain, and Poland. This training was for an average of 10 hours and was significantly lower (\leq 5 hours) in

UK, France, Sweden, Belgium, the Netherlands, and Ireland compared with ≥ 20 hours in Italy and Spain (P < 0.05). The main reason given by the 332 respondents who had not received such training during the last year was lack of time (mentioned by 70%). Most PCPs (89%) surveyed perceived a need for more education on CNMP management.

Guidelines for pain management appear to be used more commonly for cancer pain than for CNMP (Figure 4). There are no universal guidelines for the management of CNMP, though 72% of respondents reported that these were required. This view was significantly more prevalent in women (76% vs 70% in men) (P < 0.05), recently qualified doctors (79%–83% of PCPs with ≤ 10 years experience vs 63%–67% of PCPs with ≥ 26 years experience), and those working with other PCPs and in multidisciplinary teams (73%–84% vs 62% of single practitioners). There were also considerable differences between countries, ranging from 96% and 91% in Spain and Poland, respectively, to 57% in France and Italy.

Discussion

This large survey showed that PCPs in Europe, like their counterparts in North America, find the primary care management of CNMP a considerable challenge.^{3,5,7,9} Fewer than half of the PCPs across Europe used pain assessment tools, and the majority of respondents recognized that chronic pain and its impact on quality of life are under-assessed in primary care. There was some lack of confidence in prescribing strong opioids for CNMP. Overall, 89% of PCPs perceived a need for more education on chronic pain, and there was considerable demand for clinical guidelines focused on the management of CNMP.

The study has a number of limitations. Because of the online-survey format, respondents were self-selected, though



Figure 3 Side-effects of strong opioids reported by PCPs as most commonly raised by patients. Abbreviation: PCP, primary care physician.





Figure 4 Proportion of PCPs (% $\left[n=1305\right]\right)$ reporting use of guidelines for chronic pain.

Abbreviation: PCP, primary care physician.

representative of the PCP population within each country. Respondents were drawn from 13 countries, each with its own healthcare system, so there was considerable heterogeneity in terms of the size of primary care practices and the number of patients seen by each physician, although this approach ensured the results reflected the broad European situation. It should be noted that the overall findings of this survey were consistent with those of other approaches (eg, postal surveys, discussion groups) used in other surveys of PCPs.^{8,9,11} As with other surveys, time and size constraints of the study meant that related topics (eg, attitudes towards nonpharmacological management of pain) could not be considered.

The survey found a lack of clear guidelines for the assessment and management of CNMP (or lack of awareness of such guidelines). Although CNMP was seen by the majority of PCPs as a condition in its own right, guidelines on pain management may be fragmented - there are multiple guidelines for specific conditions (eg, headache, musculoskeletal conditions) that have chronic pain as a symptom. The numerous gaps in evidence may contribute to the lack of appropriate guidelines, and there is a need for further research in the management of CNMP.12 A recent review of the evidence available to guide the management of chronic pain in primary care, and other surveys of PCPs, also identified a lack of CNMP guidelines for the primary care setting.^{11,13} There appears to be an important potential role for professional organizations in developing and disseminating European guidelines for the management of CNMP in primary care.

Despite the recognized importance of formal evaluation to guide treatment and assess response,¹⁴ the survey found that over half the PCPs did not use tools to assess CNMP, primarily due to lack of knowledge, particularly amongst PCPs who have been in practice for many years. This situation could be addressed by improved education. There may also be a need for improved assessment tools, consistent with findings from PCPs in the USA.¹⁵ In another survey, PCPs reported a mean of 2.3 minutes spent on discussions about pain during their consultations with elderly patients and concluded that time constraints adversely affected pain management,¹⁶ suggesting that assessment tools should be quick and easy to use.

While short-term studies have established the clinical effectiveness of opioids for CNMP, evidence on long-term use remains limited.¹² The survey found that 40% of the patients seen by the PCPs did not use any opioids for the management of CNMP, while one in five (20%) were managed using strong opioids (presumably for moderately severe to severe

pain). Although almost two-thirds of respondents (64%) were fairly or very confident in the use of strong opioids for CNMP, more than a quarter of respondents (27%) showed some lack of confidence. Similar findings have been reported in other studies,^{3,5,15} including one US study that found 71% of PCPs felt moderately or strongly confident of their ability to treat chronic pain.⁷

The pan-European survey reported here and others have found PCPs are concerned about the potential for opioid addiction or misuse.^{17,18} A study of PCPs in the USA found that although most respondents believed it lawful and appropriate to use opioids for cancer pain, fewer than half held this view for CNMP;⁹ that study and others found widespread concerns that PCPs using such treatment could become the subject of investigation.^{8,19,20} Such US experiences and concerns may influence European PCPs.

The survey suggested some concern among PCPs about the potential for side effects from opioids. In a survey of PCPs in Canada, 42% reported that patients using opioids for CNMP had experienced at least one adverse event during the preceding year.⁸ According to the present study, constipation is the side effect of strong opioids most commonly raised as an issue by patients, consistent with other studies showing the high frequency of opioid-related bowel dysfunction in patients receiving treatment for chronic pain.^{21–23} The OMPC may be able to address the need for education to improve patient selection for opioid treatment and subsequent monitoring, and to disseminate information about minimizing opioid-related bowel dysfunction.

The survey found dissatisfaction with education on CNMP management, consistent with the findings of other studies. Despite pain being a common reason for primary care consultation,^{18,24} education about pain represents less than 1% of university-based teaching for healthcare professionals.²⁵ In a study of medical undergraduates, most held negative views about pain management, particularly regarding chronic pain;²⁴ medical students also experience considerable anxiety about encounters with patients suffering from chronic pain.²⁶ Training on pain should address interviewing skills as well as knowledge of pain mechanisms.²⁷

Conclusion

This large survey conducted in 13 European countries has shown that PCPs find CNMP a challenge to treat. Training in the use of assessment tools and the appropriate prescription of strong opioids, and the development of guidelines on primary care CNMP management would be welcomed by European PCPs. These findings should provide the basis for future initiatives by the OMPC and other organizations to support primary care management of chronic pain in Europe.

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Supplementary material OPENMinds Primary Care questionnaire

Section I:Assessment

- Q1. How many patients do you see in an average month?
- Q2. Out of these patients, how many would suffer from non-malignant chronic pain in an average month?
- Q3. Out of these non-malignant chronic pain patients, how many on average would be new patients and how many would be follow-up patients?
- Q4. When managing your patients with chronic nonmalignant pain do you use any assessment scales/ tools?
- Q5. As standard practice which assessment scales/tools do you use to assess pain in patients with non-malignant chronic pain?
- Q6. Why do you not use any assessment scales/tools to assess pain in patients with non-malignant chronic pain?
- Q7. Do you record the results of the assessment scales/ tools in the patients' medical records?
- Q8. Do you have access to a pain clinic to refer nonmalignant chronic pain patients to?
- Q9. How many patients do you refer to a pain clinic in an average year?
- Q10. What are your three most common reasons for referring these patients to a pain clinic? Please rank these three reasons in terms of how common they are.
- Q11. Which of the following best describes your approach for following up with patients that you initiate on pain medication for the management of non-malignant chronic pain?

I ask the patient to return or seek advice if they do not respond to the treatment

I schedule a routine follow-up irrespective of the patient's response to the therapy I do not schedule a follow-up Other – please specify

Q12. Which of the following best describes your approach for following up with patients that are receiving ongoing pain medication for the management of nonmalignant chronic pain?

I ask the patient to return or seek advice if they do not respond to the treatment

I schedule a routine follow-up irrespective of the patient's response to the therapy

I do not schedule a follow-up Other – please specify

Section 2: Education and guidelines

- Q13. To what extent do you refer to guidelines for the management of patients with non-malignant chronic pain and for the management of patients with malignant pain?
- Q14. Which guidelines for the management of patients with non-malignant chronic pain do you refer to?
- Q15. To what extent do you think specific guidelines are required for the management of non-malignant chronic pain and for the management of malignant pain?
- Q16. Please now think about the training you received during your medical course (pre-graduation). How comprehensive, if at all, was the training you received specific to the management of non-malignant chronic pain?
- Q17. In the past year, how many hours have you spent on formal training (including accredited training) and education specific to non-malignant chronic pain?
- Q18. What would be your preferred formats of learning for non-malignant chronic pain today?
- Q19. To what extent do you agree or disagree that more education is required in the area of non-malignant chronic pain management for primary care physicians?
- Q20. What has prevented you from undertaking additional training or education in the area of non-malignant chronic pain management?
- Q21. What would motivate you to undertake additional training or education in the area of non-malignant chronic pain management?

Section 3: Policy

Q22. To what extent do you agree or disagree with each of the following statements?

Non-malignant chronic pain is one of the most challenging conditions to treat

Patients with non-malignant chronic pain are more challenging to manage than the typical patient

I have adequate tools to diagnose and manage patients with non-malignant chronic pain

I have adequate time in my consultations to discuss non-malignant chronic pain with patients

The management of non-malignant chronic pain should be higher on the government's health agenda

Chronic pain should be considered as a disease in its own right

Chronic pain is more of a symptom than a condition Chronic pain and its impact on quality of life tends to be under-assessed in primary care

Apart from the duration of pain, there are no differences between chronic pain and acute pain

Q23. Which one of the following statements do you most agree with?

Chronic pain is definitely a medical symptom Chronic pain is more a medical symptom than a psychological symptom

Chronic pain is a medical and psychological symptom

Chronic pain is more a psychological symptom than a medical symptom

Chronic pain is definitely a psychological symptom

Q24. In your opinion, how much of a challenge is posed by each of the following in terms of treatment?

Non-malignant chronic pain Respiratory disorders Cardiovascular diseases Mental illness Cancers Diabetes

- Q25. In your opinion, how much of a priority are each of the following conditions within the healthcare system?
 - Non-malignant chronic pain Respiratory disorders Cardiovascular diseases Mental illness Cancers Diabetes

Section 4: Opioid usage

- Q26. Are special prescription forms needed to prescribe weak and/or strong opioids?
- Q27. How easy or difficult is it for you to write weak and/or strong opioids prescriptions using these forms?
- Q28. Please rank opioids in terms of their strength/ potency.
- Q29. How many of the patients with non-malignant chronic pain that you see in a typical month are managed with opioids?

- Q30. How confident, if at all, are you in prescribing opioids for non-malignant chronic pain patients and for malignant pain patients?
- Q31. Why do you say that you have this confidence in prescribing strong opioids for non-malignant chronic pain patients?
- Q32. Which of the following best describes your approach for following up with patients that you initiate on strong opioids for management of non-malignant chronic pain?

I ask the patient to return or seek advice if they do not respond to the treatment I schedule a routine follow-up irrespective of the patient's response to the therapy

I do not schedule a follow-up

I do not initiate strong opioids

Other - please specify

Q33. Which of the following are your key reasons for not initiating the prescription of strong opioids to patients for the management of non-malignant chronic pain?

Patients' pain is not severe enough Difficulty identifying appropriate patients Concerns over dependency/addiction Price Lack of reimbursement Lack of guidelines It is not available by law Side effects Patients don't want to be treated with strong opioids Lack of confidence/understanding of strong opioids Controlled drug status Other – please specify None of the above

Q34. To what extent, if at all, does each of the following influence your decision to prescribe strong opioids to a patient?

Patient's ability to drive while taking strong opioids Patient's ability to work Patient's ability to perform household tasks Patient's ability to look after children and/or family I do not prescribe strong opioids

Q35. How frequently, on average, would you ask these patients on strong opioids to return for a routine follow-up after initiating them on the treatment?

- Q36. What are the 3 most important factors you take into account when initiating a patient on strong opioid therapy for management of non-malignant chronic pain? Please rank these three factors in terms of how important they are.
- Q37. How important, if at all, are the following when considering initiating treatment of strong opioid therapy for management of non-malignant chronic pain?

Reduction in pain (efficacy) Improvement in functioning Side effects Quality of life

Q38. Which one of the following would you say is the most important factor when considering initiating treatment of a patient on strong opioid therapy for management of non-malignant chronic pain, above all others?

> Reduction in pain (efficacy) Improvement in functioning Side effects Quality of life

- Q39. Which three side effects do patients prescribed strong opioids most commonly raise as an issue?
- Q40. Please rank these three side effects you have selected, in terms of how frequently they are raised as an issue by patients.
- Q41. And finally, in your opinion please rank these three side effects you have selected, in terms of how difficult they are to treat.
- Q42. In light of the topics covered today, what else would you like to add?

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