

# The extent and nature of opioid analgesic dependence in primary care



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# Aims

- To briefly summarise understanding of current context of opioid analgesic dependence and its scale.
- To describe the design and findings of a recent descriptive mixed methods primary care study of opioid analgesic dependence (OAD) in England.
- To update on final project stages and implications.

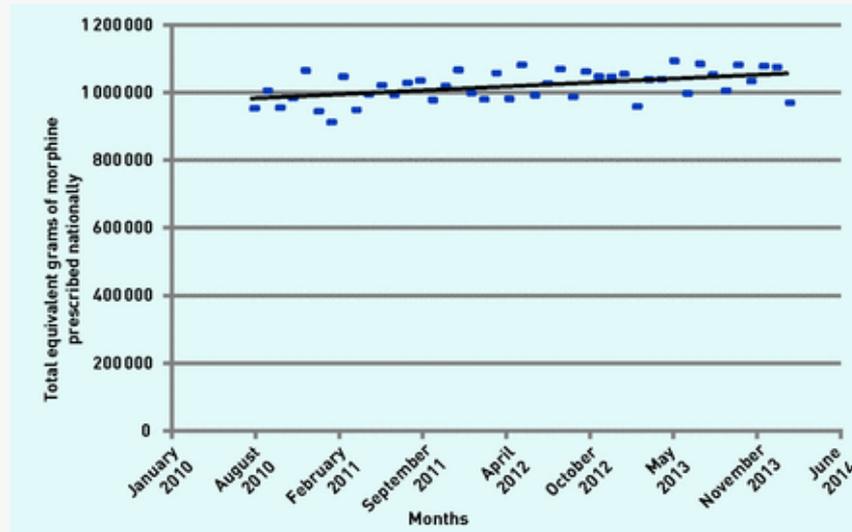
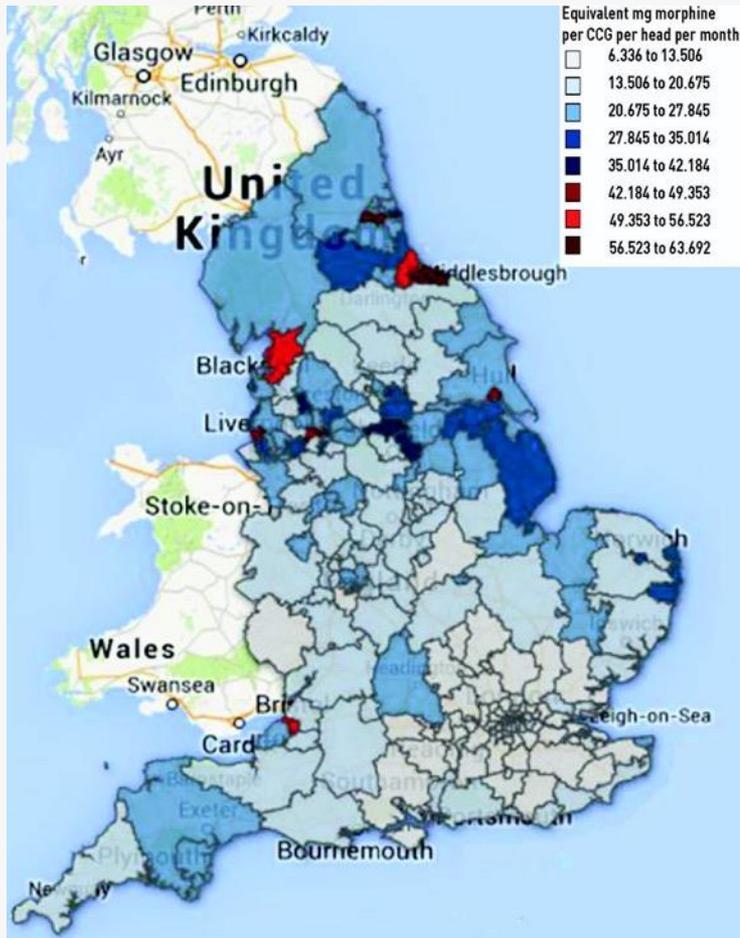


# Background

- Prescribing of opioid analgesic medicines is increasing in the UK and globally, along with dependence/addiction concerns<sup>1</sup>.
- Opioids indicated for acute pain but are not recommended in *chronic* conditions and may be inappropriately prescribed.<sup>2</sup>
- Implicated medicines include weak opioids such as codeine (often co-formulated), and stronger ones such as morphine, buprenorphine, fentanyl and tramadol.
- 8-12% of non-cancer patients taking opioid may be addicted<sup>3</sup> and dependence prevalence estimated at 0-24%<sup>4</sup>
- Qualitative studies suggest tension & uncertainty for opioid patients and doctors<sup>5</sup>, and a respectable addiction with overlapping social, personal and addict identities<sup>6</sup>.



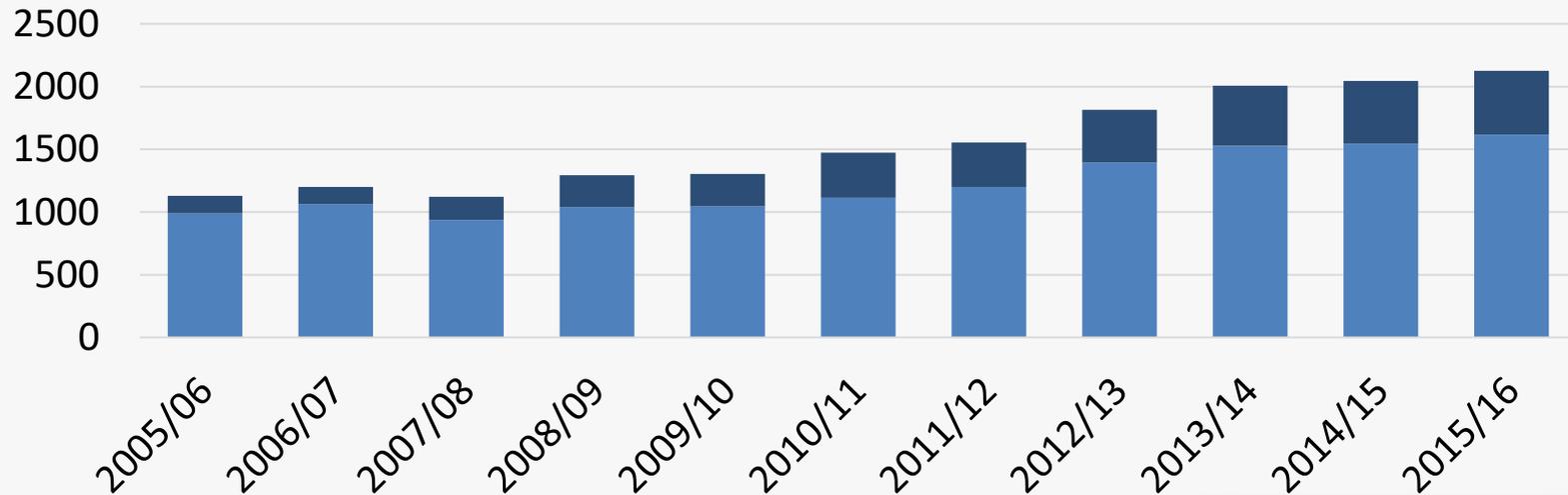
# UK Opioid Prescribing Trends



Mordecai et al (2018)  
 Patterns of regional variation of opioid prescribing in primary care in England: a retrospective observational study<sup>7</sup>

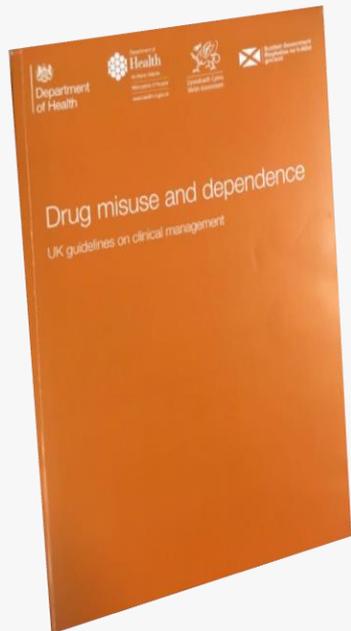


# Dependence Treatment



■ Prescribed opioids ■ Over the Counter Opiates

- Increasing client presentations at formal treatment services in England (NDTMS).<sup>8</sup>
- Opioid analgesic dependence in UK treatment guidance but “given the limits of the research base, clinicians [must] make decisions on a case by case basis.”<sup>9</sup>, p.206

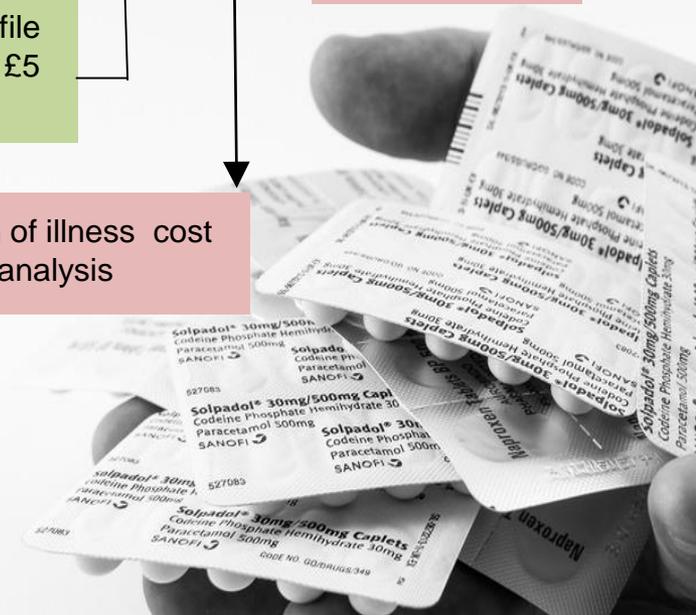
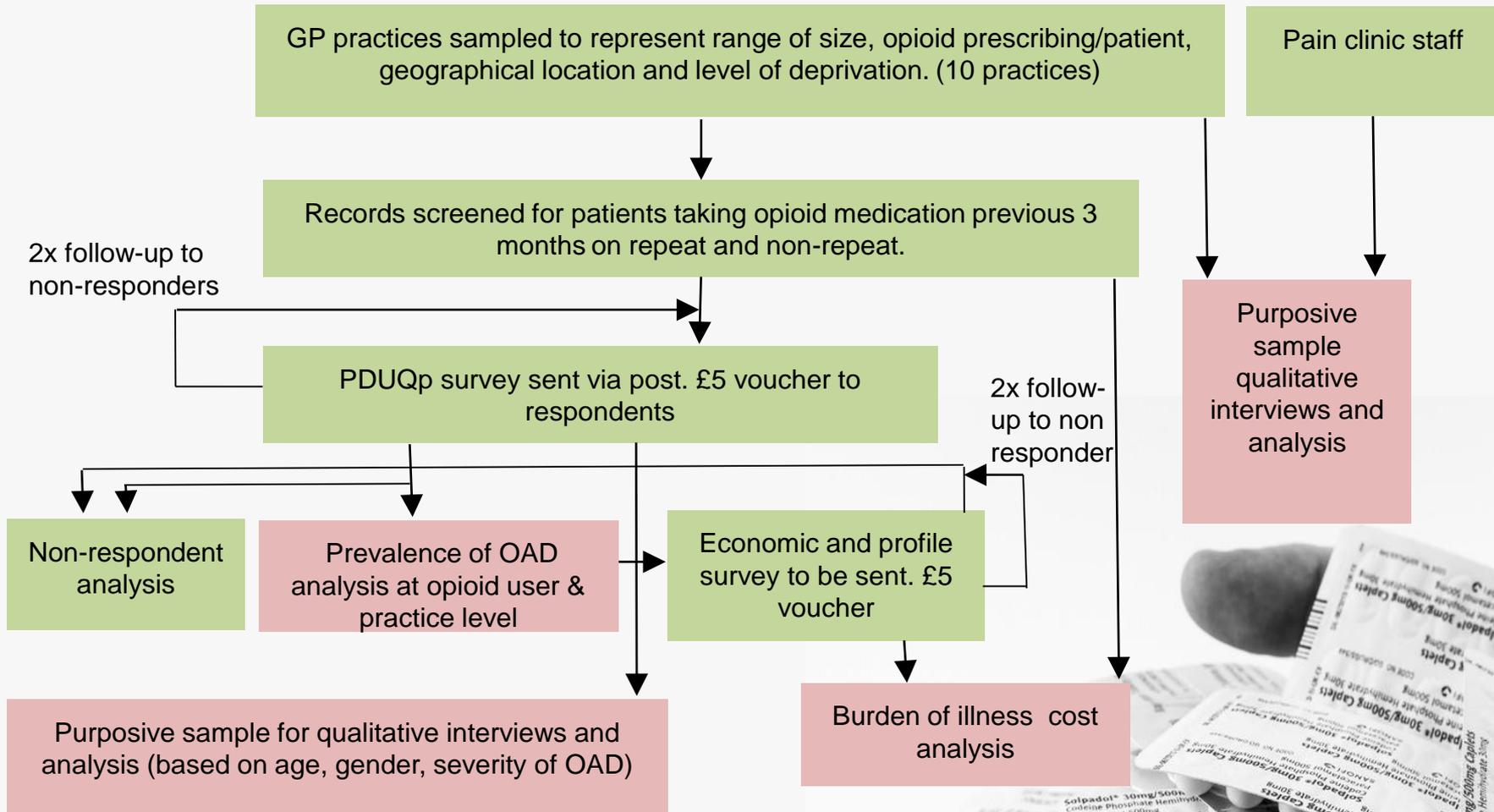


# OAD Study Methods

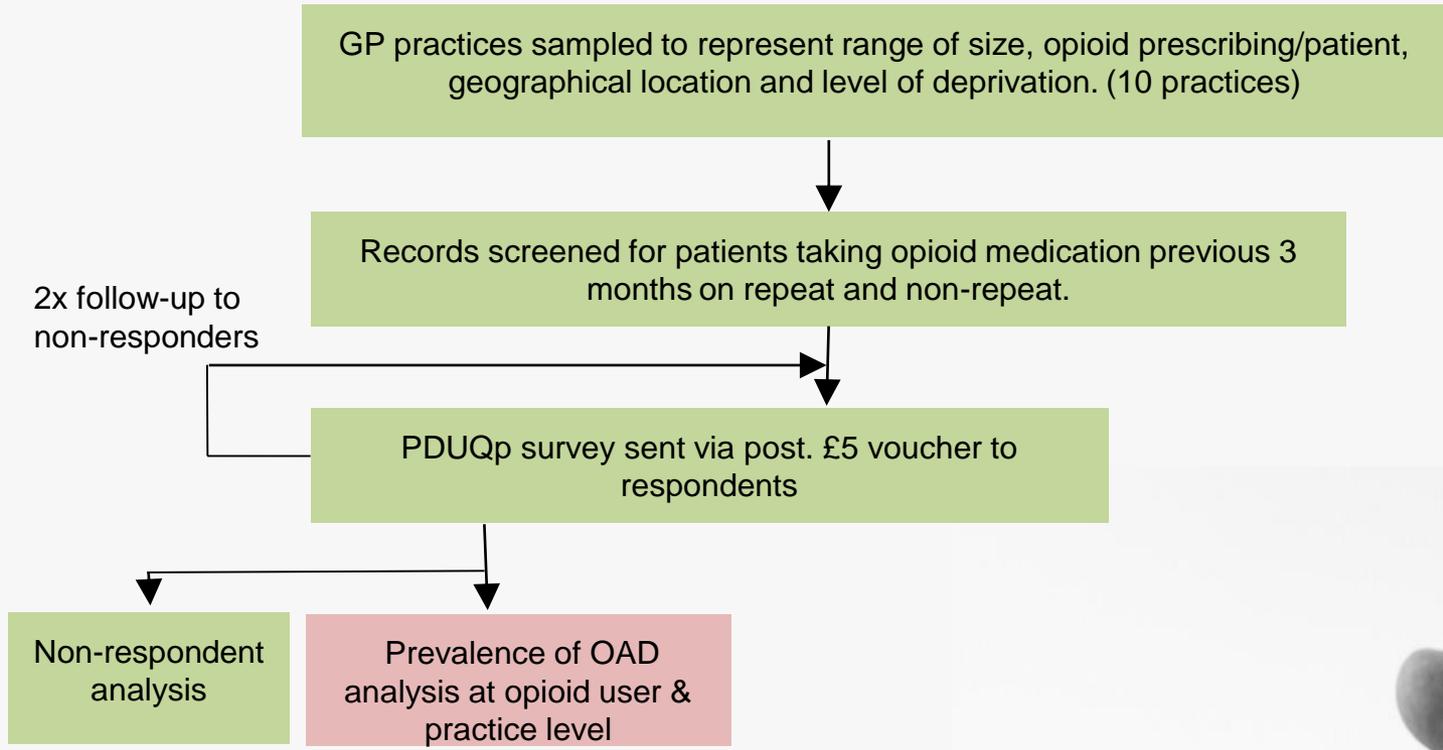
- Multi-stage cluster sample of 10 GP practices identified across England via the NIHR Clinical Research Network. Patient deprivation, age and ethnicity assessed to ensure the final sample was broadly representative of that for England overall.
- Patient records (SystemOne/EMIS) screened for any opioid analgesic Rx in previous 3 month period during summer 2017.
- Dependence assessed using Compton *et al*'s Prescription Drug Use Questionnaire (patient) PDUQp<sup>10</sup> (piloted with university staff initially) and deployed via a postal survey with 2 reminders.
- PDUQp is 31 item and is scored out of 30 with 10 or more being categorised as dependent.
- 5 question Severity of Dependence (0-15) scale also included.



# Methods (full project)



# Methods (this presentation)



# Overview of Phase 1 Findings



- 96431 patient record screened.
- 3764 eligible and sent survey.
- 823 responses (21.9% response rate).
- GP practices: 4600 to 19000, IMD 2015 7.4-34.2%, white ethnicity 58.6-98.7%, 65+ age 4.9-30.4%.
- Non-responder analysis suggested no statistically significant difference by gender but a modest age difference.



# Demographics

|                                   |                                 | n= (%)     |
|-----------------------------------|---------------------------------|------------|
| <b>Age</b>                        | Mean 63.3 (SD 14.3)             | 790        |
| <b>Gender</b>                     | Male                            | 302 (36.7) |
|                                   | Female                          | 509 (61.8) |
| <b>Highest Level of Education</b> | No formal qualification         | 122 (14.8) |
|                                   | High school or secondary school | 310 (37.7) |
|                                   | College                         | 235 (28.6) |
| <b>Employment</b>                 | UGT or PGT university degree    | 140 (13.4) |
|                                   | Full-time employment            | 133 (16.2) |
|                                   | Part-time employment            | 84 (10.2)  |
|                                   | Retired from work               | 397 (48.2) |
| <b>Ethnic Group</b>               | Long-term sick or disabled      | 152 (18.5) |
|                                   | African-Caribbean               | 8 (1.0)    |
|                                   | Asian                           | 7 (0.9)    |
|                                   | Other                           | 39 (4.7)   |
| <b>General Health</b>             | White British                   | 759 (92.2) |
|                                   | Good or very good               | 315 (38.3) |
|                                   | Fair                            | 311 (37.8) |
| <b>Ever drink alcohol?</b>        | Bad or Very bad                 | 182 (22.1) |
|                                   | Yes                             | 467 (56.7) |
| <b>Smoking status</b>             | No                              | 366 (40.8) |
|                                   | Current smoker                  | 114 (13.9) |
|                                   | Never smoked                    | 330 (40.1) |
|                                   | Ex-smoker                       | 363 (44.1) |



# Opioid Dependence Prevalence

| GP site      | n=         | PDUQp $\geq 10^*$ | Prevalence (95% CI)      |
|--------------|------------|-------------------|--------------------------|
| M            | 94         | 4                 | 4.3 (1.7, 10.4)          |
| R            | 180        | 20                | 11.1 (7.3, 16.3)         |
| W            | 89         | 10                | 11.2 (6.2, 19.5)         |
| H            | 60         | 8                 | 13.3 (6.9, 24.1)         |
| E            | 44         | 7                 | 15.9 (7.9, 29.4)         |
| Q            | 101        | 17                | 16.8 (10.8, 25.3)        |
| Pa           | 80         | 14                | 17.5 (10.7, 27.3)        |
| A            | 43         | 8                 | 18.6 (9.7, 32.6)         |
| Po           | 63         | 14                | 22.2 (13.7, 33.9)        |
| B            | 69         | 17                | 24.6 (14.5, 34.8)        |
| <b>Total</b> | <b>823</b> | <b>119</b>        | <b>14.5 (12.2, 17.0)</b> |

**\*Reported using 29 PDUQp items**



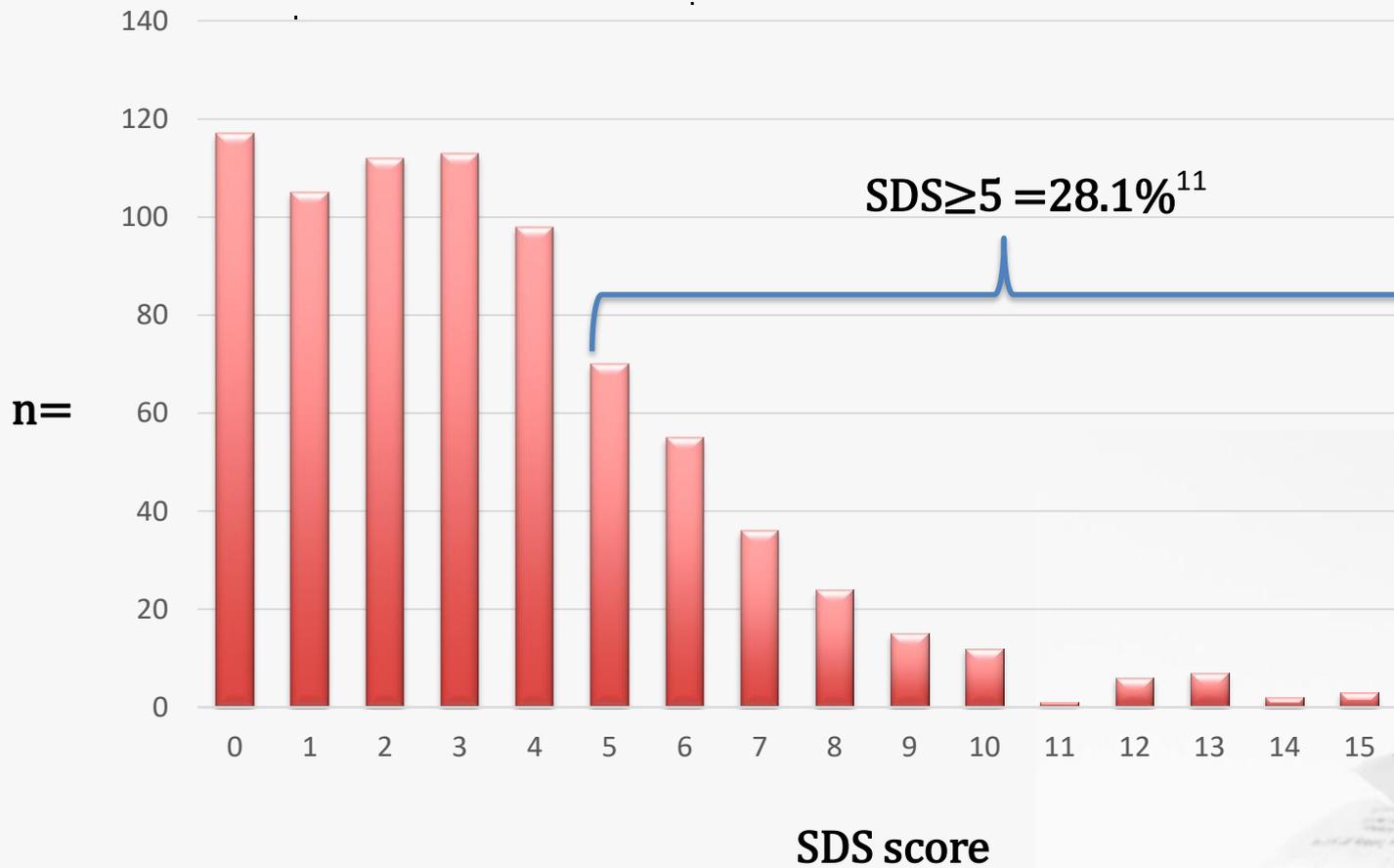
# Selected PDUQp Questions

| Selected PDUQp questions*  | Yes N=(%)  | No N=(%)   |
|--|------------|------------|
| More than one painful condition  | 513 (64.3) | 285 (35.7) |
| Disabled by pain   | 432 (54.4) | 362 (45.6) |
| Non-medication treatments used for pain problem?                         | 412 (51.1) | 395 (48.9) |
| Has pain been adequately treated over the past 6 months                  | 554 (69.3) | 246 (30.8) |
| Angry or mistrustful towards previous doctors                            | 144 (17.9) | 660 (82.1) |
| Pain medication from more than one source over the past 6 months         | 156 (19.3) | 653 (80.7) |
| Perception of being previously or currently addicted to pain medications | 111 (13.9) | 688 (86.1) |
| Told by doctor they were addicted to pain medications                    | 33 (4.1)   | 778 (95.9) |
| Increased the amount of pain medications you take over past 6 months     | 285 (35.3) | 523 (64.7) |
| Asked for more pain medications because prescription ran out early       | 123 (15.2) | 687 (84.8) |
| Perceives some pain medications work better and prefers them             | 510 (64.3) | 283 (35.7) |
| Doctor refused pain medications because of misuse fear                   | 15 (1.9)   | 795 (98.1) |
| Family or friends concerned about addiction to pain medication           | 60 (7.4)   | 750 (92.6) |
| Ever borrowed medications from friend or family member                   | 70 (8.7)   | 737 (91.2) |
| Alcohol or drug addiction problem  | 59 (7.3)   | 749 (92.7) |
| Taken partially or completely off pain medications to decrease tolerance | 82 (10.2)  | 722 (89.8) |

\* Paraphrased for presentation purposes

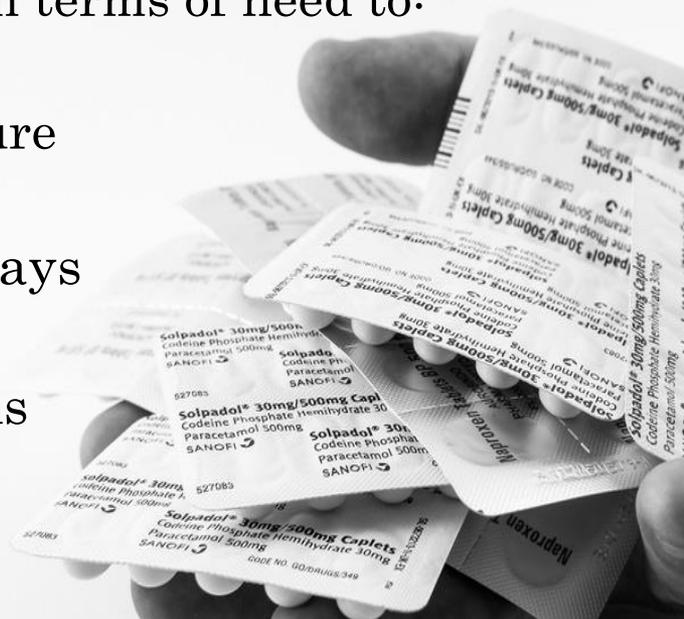


# Severity of Dependence



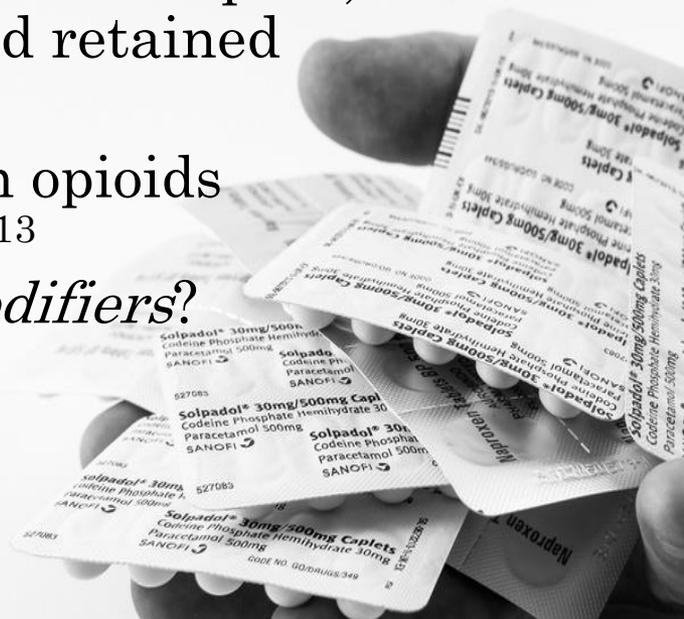
# Discussion & Conclusions

- At least 1 in 7 patients taking an opioid analgesic may be dependent, with considerable variation between practices.
- Most patients' pain not controlled and a third increased dose but only 1 in 10 patients' opioid medicines de-prescribed.
- More than 1 in 6 patients expressed negativity towards doctors.
- Further phase using PDUQp to be undertaken at additional 10-15 GP practices in England Nov-Dec 2018.
- Limitations of PDUQp, self-report, sample, response rate, anglophone only.
- Implications for patients, policy and practice in terms of need to:
  - review patients more actively
  - explore prescribing practice variation/culture
  - modify initial opioid prescribing
  - strengthen pain management care pathways
  - enhance communication
  - manage chronic pain patient expectations



# Reflections on exploring OAD

- GP practices not accustomed to undertaking even basic searches by drug groups such as opioid analgesics.<sup>12</sup>
- Salience and terminology for patients – ‘what’s an opioid?’
- Very low primary care response rates a threat to generalisability?
- Terminological variation is still deeply problematic.<sup>3</sup>
- Importance of qualitative insights and triangulating findings with patients interviews and themes of resentment of medicines, respect for doctors and resignation to pain, and control given up (passively to doctors) and retained (actively in medicine taking)
- Patients have complex relationships with opioids that don’t easily fit into one Pound et al<sup>13</sup> resisting medicines category - *active modifiers?*



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# The extent and nature of opioid analgesic dependence in primary care

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