The Royal College of General Practitioners (RCGP) is committed to providing a primary care workforce with the knowledge, skills and training to ensure we avoid problems with taking medicines, and acknowledges that some patients have developed problems with medications as a result of harmful prescribing.

In January 2013, the RCGP launched the Addiction to Medicines consensus statement, which strongly advocates care in the initiation of any drug that can lead to dependence.

This is the first in a series of factsheets designed to improve the effectiveness and safety of prescribing decisions and the importance of complying with regular medication reviews where the prescriber assesses the need and risk. The factsheets are also intended to support the identification and management of patients at risk.

The aims of this series of factsheets are to:

- increase awareness among healthcare professionals of the potential for misuse* of and dependence on certain classes of prescription and over-the-counter (OTC) medicines
- identify risk factors that may be associated with a greater risk of misuse or dependence
- explain how individuals who have developed problems with prescription and OTC medicines may be identified
- guide the treatment of individuals who misuse or become dependent on prescription or OTC medicines
- provide practical advice to prescribers to decrease the risk of patients becoming dependent on or misusing prescription and OTC medicines.

The factsheets contain links to further information and sources of advice for individuals affected by prescription and OTC medicines and their carers and cover the following areas:


Which medications may be used problematically or lead to dependence?

While we acknowledge that a wide range of medicines can be misused by the public and lead to some form of dependence – including painkillers, sedatives, anti-anxiety medications, antidepressants and laxatives – for the purpose of these factsheets we will be focussing on those most commonly associated with problematic use today:

- Opioids used to treat pain, such as tramadol, oxycodone and dihydrocodeine.
- Sedatives (or hypnotics) and anti-anxiety medications (anxiolytics), including benzodiazepines and Z-drugs (zaleplon, zolpidem and zopiclone).
- Stimulants, such as methylphenidate used to treat attention deficit hyperactivity disorder (ADHD) and certain sleep disorders.
- Anticonvulsants and mood stabilising drugs, such as gabapentin and pregabalin.

Problematic use of prescription-only (POM) and over-the-counter (OTC) medicines covers a range of presentations, including individuals who become dependent inadvertently. The risk and consequences vary widely and can lead to physical, psychological and social consequences for individuals, family members and local communities, affecting all age groups.

* Misuse refers to the use of a medication for a purpose that is not in agreement with legal or medical guidelines and includes taking medication where there is no recognised medical need, taking non-prescribed medication, excessive dosing or using via an unintended route of administration.
In this, the first of a series of factsheets from the RCGP, we:

- describe the extent of the problem in the UK
- identify those patients who are at particular risk of problematically using or becoming inadvertently dependent to medicines, where more caution and monitoring is therefore warranted with regards to prescribing and accessing over-the-counter medicines with a risk of misuse and dependence
- consider the definitions in common use in relation to medicines misuse and iatrogenic dependence.

What is the prevalence of POM and OTC drug misuse and associated dependence?

The extent of problematic use of POM and OTC drugs in the UK is unknown. The limited information we have comes from prescribing data from GP surgeries and that collated from drug and alcohol treatment services. Latest data from the Health & Social Care Information Centre indicate that:

- Between 2004 and 2012, the number of opioid prescriptions in England has more than doubled. It should be noted that the OTC availability of opioids in the UK means that there is greater potential for misuse and dependence than indicated by prescription data alone.
- However, the number of prescriptions for hypnotics and anxiolytics (regularly misused) has decreased slightly during this time, despite an increase in the total number of prescriptions in England. This may in part be attributed to proactive medicines management of these particular drugs in primary care, ensuring safe and evidence-based prescribing.

Public Health England collates data from drug and alcohol treatment services and reports through the National Drug Treatment Monitoring System. The data set includes information reported on the extent of misuse of OTCs or POMs among those seeking treatment:

- 12% (n=9920) of new clients reporting to drug treatment services in 2009–2010 reported problems in relation to POMs or OTC drugs; 17% of these individuals (n=1691) reported problems in relation to POMs or OTC drugs alone.

The data are likely to significantly underestimate the problem because:

- individuals who misuse medicines may be more likely to seek help from their GP and not access specialist substance misuse centres.

Who is particularly at risk of misusing and dependence to POMs or OTC drugs?

A number of factors are associated with an increased risk:

- Personal or family history of substance abuse.
- Age 16–45 years.
- Older people with complex physical and psychological needs complicated by pain.
- History of pre-adolescent sexual abuse.
- Certain psychological diseases (ADHD, obsessive–compulsive disorder, bipolar disorder, schizophrenia, depression).
- Exposure to peer pressure or a social environment where there is drug abuse.
- Easier access to prescription drugs, such as working in a healthcare setting.
- Lack of knowledge or understanding about POMs or OTC drugs by the prescriber.

Problematic use of prescription drugs in older adults is also a growing problem. Drug misuse in older adults is of particular concern because they are often taking multiple medications, putting them at risk of drug interactions. In addition, frailty, fluctuating health and long-term conditions also increase the risk of complications of drug misuse such as falls, overdose and toxicity.

It is vitally important to identify drug misuse as soon as possible as it is easier to tackle early on before dependence and more serious associated problems develop. The other factsheets in this series provide further information on how to prevent, identify and treat POM and OTC drug misuse and dependence.
Definitions
Here we use the International Classification of Diseases (ICD) definitions of the various types of drug misuse and dependence. For all these forms of problem drug use, the drug may be a POM or (OTC) medicine.

Dependence
Dependence is ‘a cluster of behavioural, cognitive, and physiological phenomena that develop after repeated substance use and that typically include a strong desire to take the drug, difficulties in controlling its use, persisting in its use despite harmful consequences, increased tolerance, and sometimes a physical withdrawal state’. Individuals may be dependent on a specific psychoactive substance (e.g., diazepam), a class of substances (e.g. opioid drugs), or a wider range of pharmacologically different psychoactive substances.

Harmful use
Harmful is defined as use causing damage to health. The damage may be physical (e.g., liver toxicity from ingesting excessive quantities of combination analgesics, or oversedation as a result of misuse of hypnotics, or other psychoactive substances) or mental (e.g. episodes of depressive disorder secondary to heavy consumption of hypnotics).

Iatrogenic dependence
Iatrogenic dependence can occur when patients inadvertently become dependent as a result of taking medically prescribed drugs for an existing condition. It is important to distinguish between patients who are misusing drugs from those whose underlying condition is not being adequately treated and who are thus seeking better symptom control. These challenges are examined further in Factsheet 2.

Please see the other factsheets in the series for further information:

Factsheet 2
Steps to avoid misuse of and dependence on prescription-only and over-the-counter medicines.

Factsheet 3
How are patients who are misusing or dependent on prescription-only or over-the-counter medicines identified?

Factsheet 4
How are the patients who misuse* and/or become dependent on prescription-only or over-the-counter medicines treated?

References

Glossary
ADHD: attention deficit hyperactivity disorder
CSM: Committee on Safety of Medicines
ICD: International Classification of Diseases
OTC: over-the-counter
POM: prescription-only medicine

Resources
Patients
Battle Against Tranquillisers – www.bataid.org
Benzo.org.uk – www.benzo.org.uk
CodeineFree – www.codeinefree.me.uk
Over-Counts Drugs Information Agency – http://over-count.weebly.com

Healthcare professionals
British National Formulary – www.bnf.org
Cooper R. ‘Respectable Addiction’ – A qualitative study of over the counter medicine abuse in the UK – www.pprt.org.uk
Physicians For Responsible Opioid Prescribing – www.supportprop.org/educational/index.html

The following individuals and organisations were involved in the development of the factsheets:
The Royal College of General Practitioners Substance Misuse and Associated Health unit
Public Health England
Substance Misuse Management in General Practice
Battle Against Tranquillisers
Real Science Communications provided editorial assistance for these factsheets, which was funded by RB Pharmaceuticals Ltd. The RCGP steering committee retained complete editorial control.