

#### Common Drugs Liable to Misuse

*Requested drugs are often benzodiazepines, analgesics and hypnotics.* In 2014/15, reports received included:

Benzodiazepines & Hypnotics	<ul> <li>Including Diazepam, Lorazepam, Temazepam and Nitrazepam.</li> <li>Hypnotics including Zopiclone.</li> </ul>	Diazepam and
Analgesics	<ul> <li>Including Co-Codamol, Codeine Phosphotate, Paracetamol, Solpadol, Tramadol, Dihydrocodeine and Oxycontin.</li> </ul>	Tramadol are the most commonly
Other Drugs	<ul> <li>Antidepressants including Amitriptyline and Fluxetine.</li> <li>Anticonvulsants including Lyrica/Pregabalin and Lamotrigine.</li> <li>Antihistamines including Cyclizine.</li> <li>Antipsychotics including Quetiapine.</li> </ul>	requested medications
In the last two years: 182 incidents of prescription fraud reported to Counter Fraud Service resulting in 102 criminal investigations	2014/2015 reports received by Counter Fraud Service by Trust area	9 Custodial sentences 1 Community Service Order 2 Court administered fines 9 Custodial sentences 4 Sanctions given for prescription fraud 4 Suspended prison sentences 6 Adult cautions order 4 Suspended prison sentences 6 Adult cautions fraud 4 Suspended prison sentences

#### Prescription Drugs Information from Drug Prevalence in Northern Ireland – 2014/15



### <u>Substitute Prescribing Treatment services</u> Patients receiving Substitute Prescribing Treatment services at 31st March 2014

### Western 70 Western 70 Southern 112 73% of patients were

52% of patients injected at the start of treatment compared with 10% at their last review closest to 31<sup>st</sup> March 2014

72% of patients used Heroin at the start of treatment. At their last review closest to 31<sup>st</sup> March 2014, 15% were using Heroin



48% of patients were prescribed Buprenorphine, while 46% were prescribed

687 individuals

were in

treatment across

**Northern Ireland** 

at 31 March



Patients receiving Substitute Prescribing Treatment services at 31st March 2014 by length of time in treatment by Service



One fifth of those receiving Substitute Prescribing Treatment had been in treatment for less than a year, while a quarter had been in treatment for one to two years and two-fifths had been in treatment for five or more years

#### Needle and Syringe Exchange services

Number of visits for needle and syringe exchange services by Trust of residency between 1<sup>st</sup> April 2013 and 31<sup>st</sup> March 2014



Almost half of those who were resident in the South Eastern Trust area (46%) attended pharmacies in the Belfast Trust area for needle and syringe exchange

> Almost two-fifths of visits made to needle and syringe exchange were for use for steroids only, while 28% were for use of opiates, however the substance was not recorded in a third of cases

Just over half of those who used the needle and syringe exchange (53%) were aged 31 and over, while 23% were aged 26-30 and 22% were aged 18-25 Pharmacies in the Belfast Trust area accounted for 45% of the visits for needle and syringe exchange, while a further 29% of attendances were to pharmacies in the Northern





#### Purchase of prescription medicines from unregulated sources online

Fake medicinal products are harmful and can even be FATAL Buying medicines online through unregulated Internet sites puts people's If an online supplier conceals its physical address, this is a warning sign that their products could be

### DANGEROUS

The WHO estimates that **50%** of medicines available from such websites are **COUNTERFEIT** 

**Operation Pangea VIII** (2015)

Over **230** agencies from **115** countries participated

A record **20.7 million** fake and illicit medicines seized

Including blood pressure medication, erectile dysfunction pills, cancer medication and nutritional supplements

### Information Sheet Overdoses & Emergencies

Date: 14/04/2014 Version: 1.0

Overdoses of depressant drugs often involve breathing difficulties, while overdoses of stimulant drugs can involve heart attacks or fits. Because of this, you may need to do different things to help someone. What you should do depends on their appearance and behaviour.



**Vomiting/feeling unwell:** vomiting is usually nature's way of telling you've had too much. If somebody is unwell, don't give them anything to eat and only let them drink water (never force them to drink anything). If after vomiting they want to sleep, let them but keep your eye on them. Make sure they are lying on their side (see the **recovery position** on next page.)



#### Bad trip/freak out/paranoia: if

somebody is having a frightening or disturbing drug experience or have become very paranoid, take them somewhere that is quiet where they feel safe (ideally a low stimulus environment and not a dance floor in a nightclub). Try to calm and reassure them (*"it will pass - the drugs will wear off"*). This can take hours, so be prepared to be patient. If they become panicky and you notice them breathing very fast, get them to control their breathing by slowing it down or breathing into a paper bag. If any of these disturbing experiences carry on after the drug has worn off, they need to speak to a doctor or drug service.



If they are having a 'fit': make sure the area is safe and there is nothing they could hurt themselves on. **Call an ambulance.** Be sure to inform the paramedics if the fit stops and starts, if it doesn't stop within a couple of minutes or if the person turns blue.



If they are overheating: cool them down by removing outer clothing; fan them; use a wet cloth on their skin\*; take them outside or somewhere cool. If they are conscious allow them to sip water or a non alcoholic drink. Call an ambulance.

\*Do not use very cold water, this can repel the superficial blood vessels deeper into the body and prevent heat loss. Even lukewarm water is fine as it mimics the temperature of sweat, the body's natural way to reduce temperature.



**Serotonin syndrome:** Serotonin syndrome can kill if it is not dealt with quickly by **calling for an ambulance.** Serotonin syndrome is a result of your body releasing too much of the neurotransmitter serotonin. It can be triggered by a number of different drugs. The most severe cases involve interactions of drugs that release serotonin, such as MDMA (ecstasy) and a range of other drugs known as 'serotonin re-uptake inhibitors'.

The main symptoms of serotonin syndrome are: rigid, jerky, twitchy unusual movements, often involving the legs shaking; fully dilated pupils; overheating; shivering; racing heart; the person appearing agitated and confused. If in doubt, ring for an ambulance.

It is important if they have rigid, jerky movements, not to hold people down because of the risk of muscle tissue breaking down (*rhabdomyolysis*). As with people who have been using *volatile substances* (solvents) it can also be risky to startle or frighten people as this can lead to heart failure.



If they have chest pains: sit them down in a calm environment and reassure them. Call an ambulance.



If they can't be woken: (by shaking their shoulders and calling their name), or you notice a blueness of the skin, including lips or fingernails (or greyish for darker complexions) or they have trouble breathing, call an ambulance.

**Check breathing:** try to assess the airway and then breathing. If there is no breathing or it is abnormal (e.g. death rattle, agonal breath) then **CPR** should be attempted.

Check there is nothing stuck in their throat (vomit etc), if there is remove it. For vomit turn the head to the side and let gravity do its job. If that doesn't work turn their far shoulder towards you so that their mouth points towards the ground for 5 secs. If neither work don't waste time, start CPR or they will die quickly.

**CPR:** this can be **chest compressions** alone. If you know how and feel able to, give 30 chest compressions followed by 2 **rescue breaths**. These compressions and rescue breaths are called 1 cycle of CPR and should be repeated.

If they are unconscious, but still breathing normally (at least 1 normal breath in a 10 second period) put them in the recovery position and call an ambulance.

see next page



"Look after people who have overdosed in the same way you would want them to look after you"

### Information Sheet Overdoses & Emergencies

Date: 14/04/2014 Version: 1.0

> If somebody is unconscious and then vomits while lying on their back, they can swallow their vomit and literally drown in it. That is why you should put an unconcious person in the recovery position and **call for an ambulance**.

#### **The Recovery Position**



Put the hand closest to you by the head (as if they were waving)



Put the arm furthest away from you across the chest, so that the back of the hand rests against the cheek

**Drug Watch** 



Hold the hand in place and lift up the knee furthest away from you, making sure the foot is planted firmly on the ground

#### Antidotes

Doctors and paramedics can administer an antidote to some types of overdoses caused by depressants. If it is an opiate (eg. heroin) overdose and there is **naloxone**\* available you should administer it as directed by its Patient Information Leaflet within the naloxone pack. It is perfectly legal for you to do so in an emergency, t

\*In some areas naloxone is given out as Prenoxad, a licensed product but still containing naloxone HCL (at 1mg/ml).



Turn them on their side by pushing down on their knee

#### Calling an ambulance

Never hesitate to call an ambulance. In most areas, the police are only called to overdoses if there is a death or an under 16 involved, or if there has been a previous incident of violence at the address given. In some areas the police may also attend if the caller states that the casualty is not breathing normally or not breathing at all. In this circumstance their priority is the preservation of life rather than law enforcement.

## Drugs and the Brain

A Beginner's Guide to Stimulants and Empathogens



Version: 1.3 Original version: 18/03/2014 Revision date: 03/04/2014

### Part 1: The lizard brain 1, 2

The brain controls almost everything we do: from our first breath in the morning to our dreams at night. Very little that we do, think or feel takes place without the brain being in charge.

Much of what the brain does happens on an automatic or *subconscious* level. For example, we blink many times a day without consciously thinking about it, but it is our brain that makes us do this (to clean, protect and moisten our eyeballs).

Buried deep within the human subsconcious brain (also called the lizard brain) are survival instincts:

- To eat (to stay alive)
- To reproduce (to continue the species)
- To respond to threats or aggression (to protect yourself, your family and what you own)



Image credits: see references section at the end of this document

There are certain areas in our brain whose job it is to make us feel good when we do these things, so when we eat, have sex or take exercise our body releases chemicals that make us feel happy or excited. These parts of the brain are connected in networks called **reward pathways** because they release **reward chemicals** when we do something that makes us more likely to survive.

The picture to the right shows two of the brain's reward pathways. There are many of these pathways in the brain; they are like phone or computer networks with information flying along wires.

Drugs that get you high use these reward pathways to make us feel good. They are like pirates taking over a ship: they hijack these parts of the brain and make them release lots of reward chemicals, which is why we feel high or stoned.



However, if we keep taking these drugs again and again they

can take over the reward pathways in the brain until all we want to do is to take the drug. Nothing else makes us feel good any more apart from getting high and this can become a habit.

Once you get to this stage:

- You might have cravings
- You start to want to take the drug more than doing anything else
- You find yourself keeping using even when you want to stop
- You become more moody and irritable when you can't get hold of it.

### Part 2: The reward pathways <sup>2, 3, 4, 6, 7</sup>

The brain is a big network made partly of **neurons** (nerve cells). It uses chemicals called **neurochemicals** (nerve chemicals) to send and receive signals between these neurons.



The picture to the right is a simple version of part of the brain's reward pathway that controls some of our moods and attitudes.

When this reward pathway is activated (for example by food, water or sex), information travels from the VTA to the Nucleus Accumbens and then up to the Prefrontal Cortex.



### The VTA uses an important chemical called **dopamine**

to send this information. Dopamine controls things like what is important to us, what gives us pleasure, how we feel, how we learn and what motivates us. Dopamine gets stimulated by many drugs and is part of what makes you feel high, and how much you feel you want or need a drug. It is often linked to stimulants, so amphetamine (speed) and cocaine are typical drugs that raise dopamine levels. As the levels of dopamine increase in the brain, other areas get stimulated, including the Prefrontal Cortex. The Prefrontal Cortex is very important, especially where drugs are concerned, as it controls a number of different functions, including:

- Behaviour (controlling your actions, acting in an appropriate way)
- Development of conscience (knowing right from wrong and doing the right thing)
- Decision making (gathering information before making a decision)
- Impulse control (being able to control your feelings)
- Focus (being able to stay on track with a project until it's finished)

People who have problems with the Prefrontal Cortex can experience:

- Short attention span
- Problems with impulse control (being impatient, 'kicking off')
- Poor organisation and planning skills
- Hyperactivity
- Emotional problems (such as shutting down, withdrawing from people)
- Misreading situations
- Being dishonest
- Problems with learning
- Short term memory problems
- Anxiety
- Serious mental health problems (such as psychosis)

Using drugs changes the way that this part of the brain grows, develops and works. Young people can develop problems with drugs more easily as the Prefrontal Cortex can still be growing and developing when people reach their early twenties.

#### Part 3: Neurochemicals 1, 2, 3, 4

Dopamine is a neurochemical that the brain uses to send messages to its different parts. Different neurochemicals control different parts of the brain.



Neurochemicals are like the various types of messages found in a phone network, for example phone calls, texts, emails or instant messages.

Here are some more examples of neurochemicals:

Neurochemical	What it does
Noradrenaline	How awake or aroused you feel, attention span and confidence.
Adrenaline	Similar to noradrenaline and also controls energy.
Dopamine	Motivation, wants, pleasure, love and the reward pathway. This is a big part of what makes you want to take more of a drug.
Serotonin	Memory, emotions, wakefulness, sleep, mood (depression), sexual activity and temperature. It is associated with euphoria (happy feelings).
GABA	Controls impulses, muscle relaxation and arousal and slows down the brain. Plays a big part in sleep and 'feeling good'.
Endorphin	The senses, especially pain, emotional and physical distress. A lot of the high you get from exercise comes from endorphins.
Histamine	Involved in sleep and waking patterns and inflammatory response (for example allergic reactions).

### Part 4: How a drug affects your mood <sup>1, 2, 7, 8, 9, 10, 15</sup>

When you do something that triggers the brain's reward pathway (for example, taking exercise), neurochemicals are released by the **transmitting neuron**.



Some of the neurochemicals land on the **receptors** on the receiving neuron, and this is what sends out feelings of pleasure to other parts of the brain. Most of the extra neurochemicals are absorbed back by travelling through the **reuptake transporter**, ready to be used again if necessary. Some neurochemicals do not get absorbed, and this is thought to play a part in **drug toxicity** (poisoning, or overdose).

We will now look at what happens when you take certain stimulant and empathogenic drugs.

### Cocaine

When you take cocaine it affects the neurons in two ways. Firstly it stimulates the transmitting neuron to send out lots of dopamine. It also blocks the dopamine reuptake transporter which means that the extra dopamine that has been released ends up flying around your brain, triggering and stimulating the dopamine receptors which is why you feel high.



If you keep on using stimulant drugs over and over again you can use up all your dopamine (this is called dopamine depletion). This can lead to problems including depression and other mental health issues, issues with learning, hyperactivity, cravings, dependency or addiction and problems releasing dopamine in the future.

### Amphetamine (speed)

Like cocaine, amphetamine increases the amount of dopamine in the neurons, but it works in a different way. The amphetamine molecule is similar in shape to dopamine and it can enter the transmitting neuron through its reuptake transporters. It then forces the dopamine molecules out through the transporters. This can be toxic, and can lead to life-threatening hyperthermia (overheating).



If you find yourself doing stimulant drugs too often you can become tired, run down, low in mood and possibly have mood swings and some paranoid thoughts. The best thing that you can do is to **take a break** and allow your body to recharge. Plenty of sleep and food can help your body and mind to recover.

### MDMA (ecstasy)

Although MDMA causes the release of dopamine, another neurochemical it stimulates is called **serotonin**. Serotonin is an important neurochemical that helps you to feel relaxed and controls mood, appetite and sleep. It is serotonin that gives MDMA a lot of its 'loved up' feeling and this is why ecstasy is called an **empathogen** (empathy is when you place yourself in someone else's shoes and feel what they are feeling).



When you take empathogens they release serotonin in your brain, but can leave your serotonin levels very low afterwards and can also lead to life-threatening hyperthermia. If you take more drugs to try to get that good feeling back you might find your body can't produce the high, a bit like trying to flush a toilet twice in a row!

Using up your stores of serotonin is partly the reason why you might feel down, angry, sad or upset a few days after taking empathogens. And it is not just low levels of serotonin that causes problems; very high levels can lead to a medical condition called Serotonin Syndrome which can be fatal (see page 13).

When you take MDMA it affects the neurons in two ways. Firstly it makes the transmitting neuron send out lots of serotonin. It also blocks the serotonin reuptake transporter, and it is this extra serotonin flooding the area between the neurons that leads to the 'loved up' feeling.



### Mephedrone (bubble, mkat)

Mephedrone is a powerful drug that greatly increases both dopamine and serotonin levels, and in animal studies caused about a 500% increase in dopamine and a 900% increase in serotonin. This makes it both a stimulant drug and an empathogen. As the effects of the drug start to wear off, serotonin levels drop quite quickly which is why people want to take more and more of the drug (this is called 'redosing').

As mephedrone is a relatively new drug we are not completely sure what it does in the brain. It acts mostly like amphetamine, but also affects serotonin levels.



### Serotonin syndrome<sup>16</sup>

This is a medical condition caused when your body releases too much serotonin. It can occur in a lot of different situations, one of these is when you take recreational drugs that effect your serotonin levels. It can kill you if not recognised and dealt with both quickly and effectively.

Symptoms include: agitation, anxiety, overheating, shivering, restlessness, twitching, high blood pressure, flushed skin, stomach noises, vomiting, diarrhea, dilated pupils and mental distress.

If someone you are with is showing some of these signs **call an ambulance immediately**.

While waiting for the ambulance do what you can to **cool the person down** and **calm them down**. It is dangerous to restrain people in this state.

For further information on Overdose & Emergencies see DrugWatch Information Sheet.

#### Part 5: How drug use can lead to dependency <sup>2, 3, 4, 5, 7</sup>

The drugs that have the strongest effect on your brain are stimulant drugs (like speed, cocaine and mephedrone) and opiate drugs (like heroin). The way you take a drug also affects how likely you are to become dependent. In general, the quicker and stronger the drugs affects you, the more your dopamine levels 'spike'. This is why injecting and smoking drugs can be more likely to lead to dependency than eating or swallowing them.

When you first start taking a drug you only need a relatively small amount to get you high. But if you keep on taking it your brain can get used to all the extra reward chemicals and you need to take more and

more to feel that same high. This is called **tolerance**.

Your brain gets used to these extreme levels of reward chemicals, and so normal activities that you used to enjoy (like exercise, eating a nice meal or spending time with your family) no longer make you feel happy.

You might find yourself feeling **bored** the whole time... unless you are taking drugs. This is because your brain is getting used to the extreme 'spikes' in reward chemicals.

When you aren't taking drugs the levels of these chemicals drop and your brain starts wanting more.



It sends out warning messages around the brain and these messages get sent out to different parts of the body. You can feel these in different ways, some people feel edgy, angry, anxious, stressed, tearful, shaky, sweaty or as if they have a knot in their stomach... these feelings are called **cravings**.

#### Part 6: Cravings 11, 12

Cravings can be very sneaky. They are the brain's way of trying to get you to take drugs so that it can balance out your reward chemicals. They often make you feel agitated, angry or stressed and it is very easy to believe that you are feeling upset with people when in fact it is just your brain wanting to get its happy chemicals back.

If you don't learn to **recognise your cravings** you can often behave in ways that might be out of character, for example getting into arguments with people and 'kicking off' for no reason. There are lots of reasons that people have cravings, and different people feel them in different ways. This is something that your drugs worker can help with, as we all react differently to cravings and have our own ways of coping with them.

Cravings can come in many forms: for example it can be as simple as thinking about drugs on Friday morning before you are due to go out that night, a very strong, tense, angry feeling if you can't get hold of any drugs when you were expecting them, the ache for more when your supplies are running low, or the tingle you might get in your stomach when you've been off drugs for a few days and think about them suddenly. These feelings are all caused by neurochemicals (mostly dopamine) being released in your brain.

Lots of things can make you crave drugs. These are called **triggers**. Triggers can be thoughts, feelings, sights, sounds, smells, places or situations. Examples could be: it's a hot day and you see a beer glass, or someone walks past you and you smell cannabis smoke.

When you use drugs regularly you train your brain to get a big reward when you take them. Think about how you feel when you are just about to buy drugs, and when you have just bought them. Your brain releases reward chemicals like dopamine even before you've taken the drug because you have trained it to know that it will soon get a big reward (see picture on the right).





When you have a craving your brain thinks it's going to get drugs, so it releases some reward chemicals. When it doesn't get the drugs it was expecting your levels of reward chemicals drop, and you can feel bad, stressed, frustrated, sick or angry.

If you don't learn to interrupt or control your cravings you can find them taking over your thoughts, and if you keep giving in to them it can become more and more difficult to resist taking drugs.

#### Part 7: What is dependency? <sup>5, 6, 13, 14</sup>

Being dependent on a drug is when you feel you *have* to take it, when you can't stop or cut down, and when you keep on using even when you know the drug is causing you problems.

If we think back to the reward system in the brain. Firstly you are motivated to do something for survival (for example, eat) and then your brain releases chemicals which are your reward. This ends the reward process.



When we take drugs we change the way this pathway works; taking drugs give us 'free' reward chemicals. This can cause problems as it can create a loop which can lead to dependency, when the drugs become the motivation and survival instinct.



Dependency is when drugs take control over your behaviour. It usually begins with casual or recreational use ('every now and then' or 'just at weekends') and ends when you feel you have to take them.

Some people can use drugs without problems, and others become dependent very easily. There are many reasons why this might happen: it might be something in your brain, something in your personality, something in your upbringing or maybe a combination of these things. At the moment, no one knows why.

### Part 8: Are drugs becoming a problem?<sup>17</sup>

Working this out isn't simple, and admitting it isn't easy because we all want to think we're in control. Below are some of the things that can suggest that your drug use is becoming a problem. If you have answered yes to three or more of the following questions in the past year it suggests your drug use might be becoming a problem and that it might help to speak to someone about it.

Do you need more to get high, or get the effect you wanted?
Do you have any signs of physical withdrawal, or do you find yourself thinking abouta lot when you don't have it?
Do you find yourself taking more in a session than you'd originally planned, or find yourself taking it for longer sessions?
Do you find yourself wanting to cut down or stop taking?
Do you spend a lot of time scoring or recovering from a session?
Have you stopped, or cut down activities such as school, college, training, work, hanging out with friends or family because of your use of?
Have you kept on using despite knowing that it is causing ongoing problems to your physical or mental health?
Has using caused you troubles with the law (police, YOT, probation)?

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Page 2 Pirate: Pyle, Howard; Johnson, Merle De Vore (ed) (1921) With the Buccaneers in Howard Pyle's Book of Pirates: Fiction, Fact & Fancy Concerning the Buccaneers & Marooners of the Spanish Main, New York, United States, and London, United Kingdom: Harper and Brothers, pp. Plate facing p. 76 Retrieved on 14 April 2010. Howard Pyle [Public Domain] Accessed online 24/01/2014 <u>http://commons.wikimedia.org/wiki/</u> File:Pyle\_pirates\_burying2.jpg

Page 3 *Neuron*: Purchased clip art, revised in Adobe Illustrator by Mark Adley.

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Page 14 *Cravings*: Masked man (2006) by Liftarn. Source <a href="http://openclipart.org/cchost/media/files/liftarn/1243">http://openclipart.org/cchost/media/files/liftarn/1243</a>. This file is from the Open Clip Art Library, which released it explicitly into the public domain. Accessed online 24/01/2014 <a href="http://commons.wikimedia.org/wiki/File:Masked\_man.svg">http://commons.wikimedia.org/wiki/File:Masked\_man.svg</a>

This guide was written and designed by Mark Adley, in collaboration with UK DrugWatch and N2L. Mark is a drugs worker in the North East of England and the creator of the **Drugs Wheel**, a new psychoactive substance awareness model (available at <u>www.thedrugswheel.com</u>) designed to illustrate the wide range of new substances that are available.



N2L (Never Too Late) is a confidential service for young people under 18 who live in North Tyneside and are experiencing difficulties in relation to the use of drugs and alcohol. Phone: (0191) 643 8802, Fax: (0191) 643 8801 Email: n2l@northtyneside.gov.uk



**UK DrugWatch** is an informal online professional information network established by a group of professionals working in the UK drugs sector. The aim of the group is to raise/establish standards for drug information, alerts and warnings. It is currently an unfunded, bottom-up initiative that works in the spirit of mutual co-operation. A list of current members, and a selection of drug briefings can be found <u>here</u>.



A special thanks to Colin Davidson, neurophysiologist from TicTac Communications, Ltd., for invaluable advice.

### Information Sheet Overdoses & Emergencies

Date: 14/04/2014 Version: 1.0

Overdoses of depressant drugs often involve breathing difficulties, while overdoses of stimulant drugs can involve heart attacks or fits. Because of this, you may need to do different things to help someone. What you should do depends on their appearance and behaviour.



**Vomiting/feeling unwell:** vomiting is usually nature's way of telling you've had too much. If somebody is unwell, don't give them anything to eat and only let them drink water (never force them to drink anything). If after vomiting they want to sleep, let them but keep your eye on them. Make sure they are lying on their side (see the **recovery position** on next page.)



#### Bad trip/freak out/paranoia: if

somebody is having a frightening or disturbing drug experience or have become very paranoid, take them somewhere that is quiet where they feel safe (ideally a low stimulus environment and not a dance floor in a nightclub). Try to calm and reassure them (*"it will pass - the drugs will wear off"*). This can take hours, so be prepared to be patient. If they become panicky and you notice them breathing very fast, get them to control their breathing by slowing it down or breathing into a paper bag. If any of these disturbing experiences carry on after the drug has worn off, they need to speak to a doctor or drug service.



If they are having a 'fit': make sure the area is safe and there is nothing they could hurt themselves on. **Call an ambulance.** Be sure to inform the paramedics if the fit stops and starts, if it doesn't stop within a couple of minutes or if the person turns blue.



If they are overheating: cool them down by removing outer clothing; fan them; use a wet cloth on their skin\*; take them outside or somewhere cool. If they are conscious allow them to sip water or a non alcoholic drink. Call an ambulance.

\*Do not use very cold water, this can repel the superficial blood vessels deeper into the body and prevent heat loss. Even lukewarm water is fine as it mimics the temperature of sweat, the body's natural way to reduce temperature.



**Serotonin syndrome:** Serotonin syndrome can kill if it is not dealt with quickly by **calling for an ambulance.** Serotonin syndrome is a result of your body releasing too much of the neurotransmitter serotonin. It can be triggered by a number of different drugs. The most severe cases involve interactions of drugs that release serotonin, such as MDMA (ecstasy) and a range of other drugs known as 'serotonin re-uptake inhibitors'.

The main symptoms of serotonin syndrome are: rigid, jerky, twitchy unusual movements, often involving the legs shaking; fully dilated pupils; overheating; shivering; racing heart; the person appearing agitated and confused. If in doubt, ring for an ambulance.

It is important if they have rigid, jerky movements, not to hold people down because of the risk of muscle tissue breaking down (*rhabdomyolysis*). As with people who have been using *volatile substances* (solvents) it can also be risky to startle or frighten people as this can lead to heart failure.



If they have chest pains: sit them down in a calm environment and reassure them. Call an ambulance.



If they can't be woken: (by shaking their shoulders and calling their name), or you notice a blueness of the skin, including lips or fingernails (or greyish for darker complexions) or they have trouble breathing, call an ambulance.

**Check breathing:** try to assess the airway and then breathing. If there is no breathing or it is abnormal (e.g. death rattle, agonal breath) then **CPR** should be attempted.

Check there is nothing stuck in their throat (vomit etc), if there is remove it. For vomit turn the head to the side and let gravity do its job. If that doesn't work turn their far shoulder towards you so that their mouth points towards the ground for 5 secs. If neither work don't waste time, start CPR or they will die quickly.

**CPR:** this can be **chest compressions** alone. If you know how and feel able to, give 30 chest compressions followed by 2 **rescue breaths**. These compressions and rescue breaths are called 1 cycle of CPR and should be repeated.

If they are unconscious, but still breathing normally (at least 1 normal breath in a 10 second period) put them in the recovery position and call an ambulance.

see next page



"Look after people who have overdosed in the same way you would want them to look after you"

### Information Sheet Overdoses & Emergencies

Date: 14/04/2014 Version: 1.0

> If somebody is unconscious and then vomits while lying on their back, they can swallow their vomit and literally drown in it. That is why you should put an unconcious person in the recovery position and **call for an ambulance**.

#### **The Recovery Position**



Put the hand closest to you by the head (as if they were waving)



Put the arm furthest away from you across the chest, so that the back of the hand rests against the cheek

**Drug Watch** 



Hold the hand in place and lift up the knee furthest away from you, making sure the foot is planted firmly on the ground

#### Antidotes

Doctors and paramedics can administer an antidote to some types of overdoses caused by depressants. If it is an opiate (eg. heroin) overdose and there is **naloxone**\* available you should administer it as directed by its Patient Information Leaflet within the naloxone pack. It is perfectly legal for you to do so in an emergency, t

\*In some areas naloxone is given out as Prenoxad, a licensed product but still containing naloxone HCL (at 1mg/ml).



Turn them on their side by pushing down on their knee

#### Calling an ambulance

Never hesitate to call an ambulance. In most areas, the police are only called to overdoses if there is a death or an under 16 involved, or if there has been a previous incident of violence at the address given. In some areas the police may also attend if the caller states that the casualty is not breathing normally or not breathing at all. In this circumstance their priority is the preservation of life rather than law enforcement.

	BHSCT	SEHSCT	SHSCT	WHSCT	NHSCT
NI Dacts Connections Service Public Information Campaigns Local inter-agency co- ordination Local Incident Responses GP Practices	Chair@Bdact.Info Connections@Bdact.Info 028 9590 1845	Chair@Sedact.Info Connections@Sedact.Info 0800 254 5123	Chair@Sdact.Info Connections@Sdact.Info 028 9043 5810	Chair@Wdact.Info Connections@Wdact.Info 0800 254 5123	Chair@Ndact.Info Connections@Ndact.Info 028 9043 5810
Primary healthcare for who	ole population				
Adult Services					
Step 2 Services Brief treatment for adults Support for Family Members	Addiction NI 219 Albertbridge Road BT9 6AZ Tel: 028 90731602 Email: enquiries@addictionni.c om	Dunlewey Addiction Services 247 Cavehill Road, Belfast BT15 5BS Tel: 028 9039 2547 Mob: 07708176225 Email: Rita.hashemipour@dunlew ey.org	GP referral	ASCERT 7A Dublin Road Omagh BT78 1ES Tel: 0800 2545 123 Email: info@ascert.biz	Extern NI 02825 689601
Community Addiction Team Medical and Psychological treatment for adults with addictions or complex needs	GP Referral only and through one point of referral	GP referral		GP referral	GP referral
Low Threshold Services Supports for chronic substance users	ExternNI 9-11 Brunswick Street Belfast BT027GE Tel: 02890330433 BHSCT Drug Outreach Team	Simon Community NI 259 Antrim Rd, Belfast BT15 2GZ Tel: (028) 9074 1222.	Extern NI Hydepark House 3 McKinney Road Newtownabbey BT36 4PE Tel: 02825689601	Depaul Ireland 23a John Street Londonderry BT48 6SY Tel: 028 7136 5259/ 02871260839 Email:depaul@depaulire land.org	Extern NI Hydepark House 3 McKinney Road Newtownabbey BT36 4PE Tel: 02825689601

	Glendinning House, 6 Murray Street Belfast BT01 6DP Tel: 028 9504 1433 or 028 9504 7301				
Regional Emergency Social Work Service Out of hours service about concerns for vulnerable adult or child	5pm to 9am week	days 24 hours at weekend	s and bank holidays Tel: 02	28 95 049 999	
Children, young peop	le and families				
Targeted Prevention Services Lifeskills and harm reduction group programmes for young people at-risk of substance misuse	YMCA Lisburn 28 Market Square Lisburn BT28 1AG Tel: 028 9267 0918	YMCA Lisburn 28 Market Square Lisburn BT28 1AG Tel: 028 9267 0918	Start360 Hildon House 30 - 34 Hill Street Belfast BT1 2LB Tel: 02890435810	ASCERT 7A Dublin Road Omagh BT78 1ES Tel: 0800 2545 123 Email: info@ascert.biz	ASCERT/Start360 1 Queens Ave Magherafelt BT45 6AD Tel: 0800 2545 123 Email: info@ascert.biz
Youth Treatment Services Community based interventions for young people using substance and their families	DAISY Service Start360/ASCERT Hildon House 30 - 34 Hill Street Belfast BT1 2LB Tel: 028 9043 5815 Email: info@daisy.uk.net	DAISY Service Start360/ASCERT Hildon House 30 - 34 Hill Street Belfast BT1 2LB Tel: 028 9043 5815 Email: info@daisy.uk.net	Dunlewey Addiction Services 247 Cavehill Road, Belfast BT15 5BS Tel: 028 9039 2547 Mob: 07841339910 Email: Niall.heron@dunlewey.org	DAISY Service ASCERT/Start360 7A Dublin Road Omagh BT78 1ES Tel: 0800 2545 123 Email: daisy@ascert.biz	DAISY Service ASCERT/Start360 1 Queens Ave Magherafelt BT45 6AD Tel: 0800 2545 123 Email: daisy@ascert.biz
Specialist Hidden Harm Services Young people impacted by parental substance misuse with complex needs	Barnardos Pharos Service 23 Windsor Avenue Belfast BT09 6EE Tel: 028 9066 3470	Barnardos Pharos Service 23 Windsor Avenue Belfast BT09 6EE Tel: 028 9066 3470	Barnardos Pharos Service 10 Church Street Banbridge BT324HZ Tel:02840623872	Voices Start360 2 Castle Street Londonderry BT48 6HQ Tel: 02871371162	Voices Start360 2-6 Wellington Street Ballymena BT43 6AE Tel: 028 2568 9356

<b>CAMHS</b> Child and Adolescent Mental Health Service for children and young people with mental health problems	028 9504 0365	028 9250 1265 Down and Lisburn 028 9182 5600 North Down and Ards	028 8771 3494 Dungannon 028 3839 2112 Portadown 028 3836 0680 Armagh 028 3083 5400 Newry	028 7186 5238 Derry 028 66344115 Enniskillen 028 8283 5990 Omagh	028 9442 4600 Alder House 028 9441 5700 Massereene House 028 2766 7250 Ballymoney
Gateway Teams First point of contact for concerns about a child's welfare	028 9050 7000	0300 1000 300	0800 7837 745	028 7131 4090	0300 1234 333
Regional Emergency Social Work Service Out of hours service about concerns for vulnerable adult or child	5pm to 9am week	days 24 hours at weekend	ls and bank holidays Tel: 02	28 95 049 999	
Other Supports					
Steps to Cope Service 11-18s Parental Alcohol Misuse. Face to Face or Web Self-Help	ASCERT, Barnardos, SEF Tel: 08002545123 Email: \$	ISCT, AFINET STC@ascert.biz Web: wwv	v.stepstocope.co.uk		
Alcohol and You Alcohol Brief Treatment Family Member Support		ASCERT, AddictionNI, SEHSCT Tel: 0802545123 Web: www.alcoholandyouni.co m			
Strengthening Families Programme Whole family group prevention programme	ASCERT 23 Bridge Street Lisburn BT281XZ Tel: 08002545123 Email: info@ascert.biz	ASCERT 23 Bridge Street Lisburn BT281XZ Tel: 08002545123 Email: info@ascert.biz	ASCERT 23 Bridge Street Lisburn BT281XZ Tel: 08002545123 Email: info@ascert.biz	Derry Healthy Cities Group: Lilac Villa, Gransha Park, Derry ~ Londonderry, BT47 6TG Tel: 028 7161138	ASCERT 23 Bridge Street Lisburn BT281XZ Tel: 08002545123 Email: info@ascert.biz

Alcoholics	7 Donegall Street Place, Belfast BT1 2FN National Helpline 0845 769 7555 Enquiries 028 9043 4848
Anonymous	
Support groups for	
alcoholics in recovery	
Al-Anon	Al-Anon Information Centre, Peace House, 224 Lisburn Road, Belfast BT9 6GE Northern Ireland
Support groups for	Tel: 02890 68 2368 (Helpline 10.00 am to 1.00 pm Mon - Fri; 6.00 pm to 11.00 pm Mon - Sun inclusive.)
family members	

# The Pain Toolkit The Pain ....is for people who live with persistent pain

A persistent pain problem can be difficult to understand and manage on an everyday basis.

The Pain Toolkit is a simple information booklet that could provide you with some handy tips and skills to support you along the way to manage your pain.

It is not meant to be the last word in pain selfmanagement but a handy guide to help you get started. All you need to be is willing to read it and take on board some of the suggestions.

Good luck!

Pete Moore

pete.moore@paintoolkit.org www.paintoolkit.org Twitter @paintoolkit2

Pete Moore who has persistent pain, asthma and osteoarthritis, has put these tools together with the help of friends, family and health care professionals.

Special acknowledgement to the Bradford Living with Pain Programme team.



**Tool 1** - Accept that you have persistent pain....and then begin to move on **Tool 2** - Get involved -building a support team **Tool 3** - Pacing **Tool 4** - Learn to prioritise and plan out your days **Tool 5** - Setting Goals/Action Plans

**Tool 6** - Being patient with yourself

**Tool 7** - Learn relaxation skills **Tool 8** - Stretching &

- Exercise
- **Tool 9** Keep a diary and track your progress
- **Tool 10** Have a set-back plan
- **Tool 11** Team Work
- Tool 12 is keeping it up...putting
- into daily practice the tools from 1-11.



# Do you feel trapped in a persistent pain cycle?

If so, ask yourself these three questions

- Do you do *more* on good days and *less* on bad days?
- Are you an over achiever doing more than you have 2. to?
- Are you a people pleaser? Do you have a problem 3. saying NO to others when you are asked to do things?

Could you see yourself in the persistent pain cycle and did you recognise yourself in the three questions above? If you did, then this Pain Toolkit could be for you, so please read on.

Persistent pain (sometimes called chronic or long-term) is:- Pain that continues for 3 months or more and may not respond to standard medical treatment. It can be disabling and frustrating for many people to manage. It can also affect relationships with your family, friends and work colleagues.

Sometimes people with persistent pain are told by healthcare professionals after assessment:

"I am afraid you have a chronic or longterm pain problem. You will have to learn to live with it."



To date, your healthcare professionals may have done all that they can to help you and may have used many of the tools available in their toolkit. However there are so many things that you can do to help self-manage your pain with the support of your health care professional, family, friends and work colleagues. All you need is to be willing to ask for help.

# Have you become a 'can't do' person?

A 'can't do' person is someone who has tried to carry out or take part in everyday tasks such as going to work, doing the house work, gardening, playing a sport, taking holidays, going to the cinema, eating out or taking part in family activities but has stopped or given them up because of their pain. When this happens it is usual for your confidence levels to reduce. Is this ringing any bells? If you TUESDAY MONDAY have reached this point you need to



Look familiar?

stop and take action.

By taking on board and practising the tools in the Pain Toolkit you could become a 'can do' person again but it could take time so please be patient with yourself.

# So is persistent pain a problem in the UK?

The short answer is yes, so you are not on your own.

Here are some alarming facts from the Chronic Pain Policy Coalition www.paincoalition.org.uk

- Over 14 million people live with persistent pain and of those almost one in four said pain had kept them from usual activities (including work) on at least 14 days in the last three months.
- Back pain alone is estimated to cost £12.3 billion per year.
- People with persistent pain were more likely to be anxious or depressed - 69% with severe pain reported concerns about their moods.

## Why do I need to manage my pain? After all I see my health care professional and aren't they supposed to do that for me?

Many people with persistent pain see their health care professional for treatment, help and support. But have you actually estimated just how many hours during the course of a year you spend with your health care professional?

It has been said that people with health conditions (including pain) may spend less than 3 hours a year on average in contact with a health care professional. For the remaining 8,733 hours of the year they are on their own. So the need to learn pain self- management skills and incorporate them in their everyday activities is very important. So as you can see, the need to become more involved in your own pain self-management is both necessary and important. It is certainly not all up to your doctor or health care professional to manage your pain. You have to play a vital part as well - it is all about teamwork.



Your next question may be "Well, how can I become more involved and how do I get started to?

Using different skills and tools can be helpful. It is like a motor mechanic who has many tools in his/her toolbox to repair and maintain cars. People with pain also need a selection of tools to help them successfully self-manage it.

It is best to have a variety of tools ready to use if, and when needed just like a good car mechanic. Of course, you may not need to use all the tools suggested in the Pain Toolkit, just the ones that help you self-manage better.

Self-managing persistent pain is not as hard as you may think—so let's get started and look at the first tool in your new pain self-management toolkit.

# The Pain Toolkit

**Tool 1 - Accept that you have** persistent pain....and then begin to move on



Acceptance is the first and the most important tool in your pain self-management toolkit.

Acceptance is not about giving up but recognising that you need to take more control with regards to how you can better selfmanage your pain.

Acceptance is also a bit like opening a door - a door that will open to allow you in to lots of self-managing opportunities. The key that you need to open this door is not as large as you think. All you have to do is to be willing to use it and try and do things differently.



# Tool 2 - Get involved - building a support team

Being successful in pain selfmanagement means getting both help and support from others. Ask your health care professional, friends,

family and work colleagues about working more together - becoming a team. Develop a pain self-management plan. Find out if there are other support groups in your community you could join which could provide you with more self-help management skills.

# Tool 3 - Pacing

Pacing daily activities is one of the key tools to self managing your pain. You need to begin to pace your work and also other everyday activities. Did you recognise yourself from the pain cycle? You tend to over do things, or rest too much and become inactive and lose fitness.

**Pacing in short is:** taking a break *before* you need it throughout the day. But how can you remember to pace yourself?

Remember the old saying..." How do you eat an elephant?"



Answer: **One bite at a time!** Pacing is carrying out activities one bite at a time, and not tackling all of them at once.

For examples of pacing daily activities see page 12.





# **Tool 4 - Learn to prioritise and plan out your** days

Prioritising and planning your days is an essential tool. Make a list of things you would like to do but remember to be flexible. It is a great way to set yourself a starting point.

# Examples:

- Monday a.m. vacuum the living room and have a couple of breaks so that I pace myself
- Monday p.m.- prepare food for evening meal sit down to do • this
- Tuesday a.m. go swimming meet friend for a coffee/tea -• practise some relaxation when I get home.
- Tuesday p.m. I write an activity plan for the next day.

# **Tool 5 - Setting Goals/Action Plans**

You may sometimes want to run before you can walk as that old saying goes. So to avoid this happening set yourself simple, realistic goals or action plans. Just as you need goal posts when playing football, or a finishing line when racing you need something to aim for yourself.



Perhaps, you could set yourself a simple, hourly, daily or weekly action plan. Always ask for help from your health care professional if you are not sure. You can also learn more about setting goals and action planning when you attend a Pain Toolkit workshop or self-management programme (SMP) Pain Toolkit workshop at www.paintoolkit.org/workshops.

# **Tool 6 - Being patient with yourself**

Take things steadily. It may take you a few weeks or months to see changes or improvements. When you start to feel good, you may want to catch up with activities that you may have let go of. Don't be tempted to over do it otherwise your chances of yet another set back could increase. A good saying is 'take things one day at a time'. And also....ask for help and support from others—its not a sign of weakness but a sign of strength!

# **Tool 7 - Learn relaxation skills**

Relaxation skills are very important for tense muscles in the body and for unwinding the mind.

Relaxation could be:

- Reading a book
- Listening to some music
- Gardening
- Meeting friends for a coffee/tea
- Going to the cinema or a restaurant
- Relaxation exercises (usually found on CD's from the library or downloads to you your MP3 or phone)
- Meditation
- Dancing
- Walking.

## **Coping or self-managing?**

Coping with persistent pain can be like playing a game of snakes and ladders - a game of luck. Being an overachiever you can tend to do more on good days (climb the ladder) and on bad days, do less and return to bed. (This is like sliding down the snake). Self-managing is taking positive, planned action which can reduce the 'luck' element in pain self-management.



# **Tool 8 - Stretching & Exercise**

Many people with pain fear exercise in case it causes more problems. However this is not true. Regular stretching and exercising actually decreases pain and discomfort. It prepares the body for other activities. It can strengthen weak muscles and you will also feel better for it. Remember to start slowly and build up or increase your

If you are in pain, remember that unfit and under used muscles feel *more* pain than toned ones. Talk with your physiotherapist or fitness coach about an individually tailored stretching and exercise programme that you can work on steadily and safely. This will help you build your confidence, muscle and joint strength. Remember that swimming (or just walking up and down in the pool) is also a low impact exercise and is good for you if you have joint problems.

# **Tool 9 - Keep a diary and track your progress**

Keeping a diary of your progress will help you to see how far you have come and note the successes you have achieved. This will help you to build on success. But it is also handy to note what didn't work so you can you learn from those experiences. We sometimes learn more from our errors and not from our successes.

Personally, I found keeping a diary showed me how well I was

doing in self-managing my pain.

It also highlighted things I was doing that that didn't work well, and so I was able to adapt how to deal with them more positively.





stretching and exercising. It is not as hard as you think.



Is it realistic to think you will never have a set-back?

The simple answer is NO! Developing a set-back plan is good pain self-management. Ask your healthcare provider if you need help in making one if you are not sure. Make a note of what triggered your set-back and what helped. This could be useful information if and when you experience another.

# Tool 11 - Team Work

Team work between you and your healthcare professional is vital. Imagine the Arsenal football team playing without a team plan.

Managing your pain is not a 'one way street' and it is unrealistic for your health care professional to totally solve it. You have an important part to play as well.

Together both you and your health care professional can set an action plan. This action plan could help you to both track your progress.

Action planning is taught when you attend a self-management programme.



# Tool 10 - Have a set-back plan

# **Tool 12 - is keeping it up...putting into daily practice the tools** from 1-11.

You may be asking yourself do I have to put these tools into daily practice? "What, every day"? The simple answer is Yes. Just as the person with diabetes has to take their treatment/medication and maintain their diet daily, your treatment is planning/prioritising, pacing, setting weekly or long-term goals/action plans, relaxation, exercise, generally keeping active and being in charge of your pain. Keeping it up is difficult for many people but it's not as hard as you think once you have set yourself a routine. Just like brushing your teeth, self-managing your pain will become a habit. Get others involved and make pain self-management fun.

## What three things have I learnt about managing my pain in the Pain Toolkit?



# Using the Internet

## Pete says...

Type in pain to a search engine and around 810,000,000 results will come up. Most will try and sell you something etc. Always discuss with your doctor or health care professional if you are going to try something. Remember, successful pain self-management is team work.

I found the Healthtalkonline site very useful. It gave me the opportunity to hear, see and read about how others live with their pain. I now know I'm not on my own. N.K. Somerset.

There seem to be a lot of websites that wanted to tell me that if I took this or did that, my pain would disappear. I now tend to only visit sites that use the org.uk, .nhs.uk, .gov.uk or ac.uk addresses. T.F. Essex



We also have a Pain Toolkit Store where you can buy books or CD's you think could help you to self-manage.

Please visit www.paintoolkit.org/store

## Pain Toolkit website

There is some really useful information on the Pain Toolkit site and yes, its all easy to understand.

I particularly like the www.paintoolkit.org/ educational link; as all the links are to You Tube.

# More about Pete Moore & Dr Frances Cole co- authors of the Pain Toolkit and the motivational bit....

Pete lives in Essex and is a keen promoter of self-management and other health conditions. Pete has written several pain self-management programmes and books.

He is often asked to provide educational seminars for health care professionals and patient groups in the UK and Europe.

# Pete is a member of the:

- British Pain Society ٠
- International Association Study of Pain (IASP) ٠

Follow Pete on @paintoolkit2

Pete says "Self-managing pain or a health problem is not as hard as you think and the best way to approach it is by taking small steps.

Be patient with yourself. We as they saying goes 'we want to walk before we can run'. Easy does it. You will get there.

Always ask for help and support from your health care professional, family, friends and work colleagues. In time you will become more confident and in control".



**Dr Frances Cole** is a GP and Pain Rehabilitation Specialist and Cognitive Behavioural Therapist in West Yorkshire UK.

She is a member of the British Pain Society and co-author of the self help guide "Overcoming Chronic Pain".

Dr Frances Cole

Special thanks to all the health care professionals and patient groups who support pain self-management.



Pete Moore

## Useful website links for more information and support

Arthritis Care www.arthritiscare.org.uk Arthritis Research Campaign www.arc.org.uk BackCare www.backcare.org.uk Mindfulness pain management www.breathworks-mindfulness.co.uk British Pain Society www.britishpainsociety.org Depression Alliance www.depressionalliance.org Exercise Works www.exercise-works.org Get a life www.getalifegetactive.com Healthtalkonline www.healthtalkonline.org Know your own health www.kyoh.org Fibromyalgia Association UK www.fibromyalgia-associationuk.org ME Association www.meassociation.org.uk Migraine Trust www.migrainetrust.org MIND confidential help and advice on www.mind.org.uk Multiple Sclerosis Society www.mssociety.org.uk National Rheumatoid Arthritis Society www.nras.org.uk NHS Direct www.nhsdirect.nhs.uk/en/About NHS Choices www.nhs.uk Overcoming mental health problems www.overcoming.co.uk Pain Toolkit www.paintoolkit.org Pain Concern www.painconcern.org.uk Pain Support www.painsupport.co.uk Pain Relief Foundation www.painrelieffoundation.org.uk Pain UK www.painuk.org Pelvic Pain Support Network www.pelvicpain.org.uk Rheumatoid Arthritis Society www.nras.org.uk Sheffield Persistent Pain www.sheffieldpersistentpain.com Stroke Association www.stroke.org.uk Shingles Support www.shinglessupport.org Trigeminal Neuralgia Association UK www.tna-uk.org.uk Your Health Your Way www.nhs.uk/yourhealth

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