Drug Related Deaths National and Local findings from 2018

Mark Whitfield Intelligence and Surveillance Manager Public Health Institute, LJMU



now	DRD figures from 2018 (national and local)	Mark Whitfield, PHI
10.30am	An overview of work around DRD in Blackpool	Jonathan Clegg, Lancashire Constabulary/Emily Jane Davis, Blackpool Council
11.00am	Break	
11.15am	Sharing the evidence on DRD in Derbyshire over an 8 year period	Martin Smith, Derbyshire Healthcare NHS Foundation Trust
11.40am	Drug-related deaths in the North East	Tom Le Ruez, Public Health South Tees
12.05am	COPD in Heroin Users	Becky Nightingale, Liverpool School of Tropical Medicine
12.30pm	Lunch	
1.30pm	Drug-Related deaths in the NW of England	Sue Barton-Johal, PHE
1.45pm	Discussion groups	
2.45pm	Return to main group for wider discussion	Sue Barton-Johal/Mark Whitfield
3.45pm	Closing remarks	Mark Whitfield





Drug related deaths in England and Wales, 2018

4,359

Number of drug related deaths in England and Wales in 2018

16%

Annual increase in drug related deaths from 2017

105.4

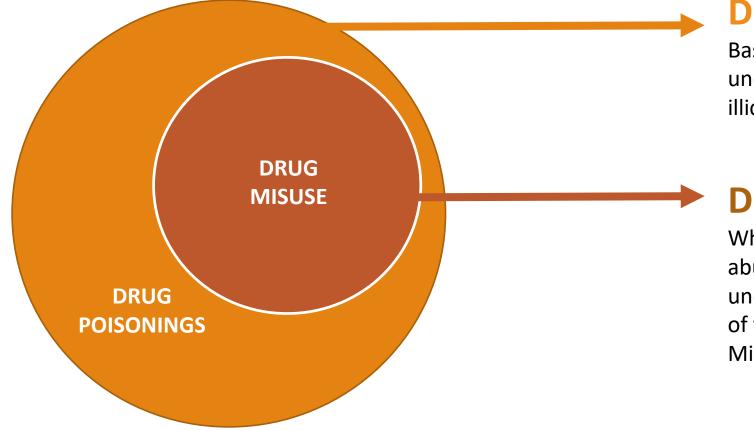
Male drug poisoning rate per million

47.5 Female drug poisoning rate per million

- Between 2017 and 2018, there were increases in the number of deaths involving a wide range of substances, though opiates continued to be the most frequently mentioned type of drug.
- Deaths involving cocaine doubled between 2015 and 2018 to their highest ever level, while the numbers involving new psychoactive substances (NPS) returned to their previous levels after halving in 2017.

Deaths related to drug poisoning in England and Wales : 2018 registrations Office for National Statistics





Drug Poisonings

Based on the ICD code assigned as the underlying cause of death –includes nonillicit substances

Drug misuse

Where either the underlying cause is drug abuse or drug dependence, or the underlying cause is drug poisoning <u>and</u> any of the substances controlled under the Misuse of Drugs Act 1971 are involved.

Deaths related to drug poisoning in England and Wales : 2018 registrations

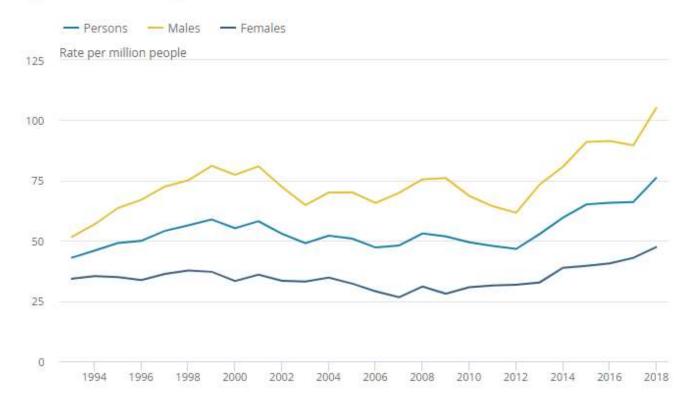




Figure 1: Rates of male deaths related to drug poisoning have

doubled since 1993

Age-standardised mortality rates for deaths related to drug poisoning, by sex, England and Wales, registered between 1993 to 2018



Deaths related to drug poisoning in England and Wales: 2018 registrations



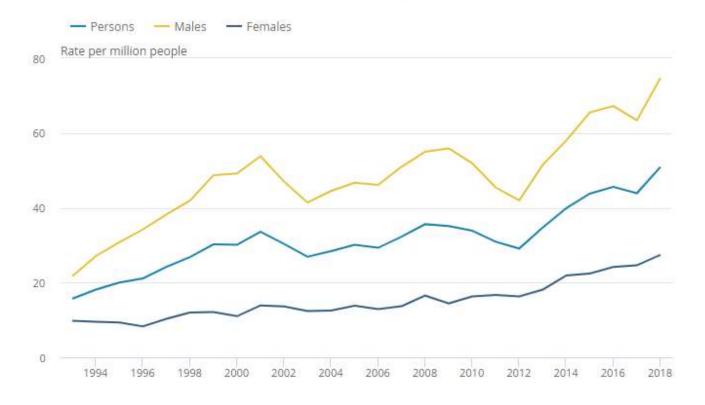
National Statistics

Office for

Figure 2: The rate of male drug misuse deaths is over two and a

half times greater than the female rate

Age-standardised mortality rates for deaths related to drug misuse, by sex, England and Wales, registered between 1993 to 2018



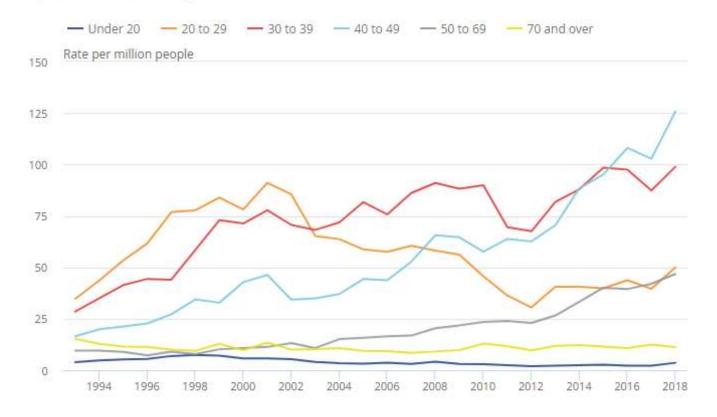
Deaths related to drug poisoning in England and Wales: 2018 registrations Office for National Statistics



Figure 3: Over the past decade, those aged between 30 to 49 years

have had the highest rate of drug misuse

Age-specific mortality rates for deaths related to drug misuse, by age group, England and Wales, registered between 1993 to 2018



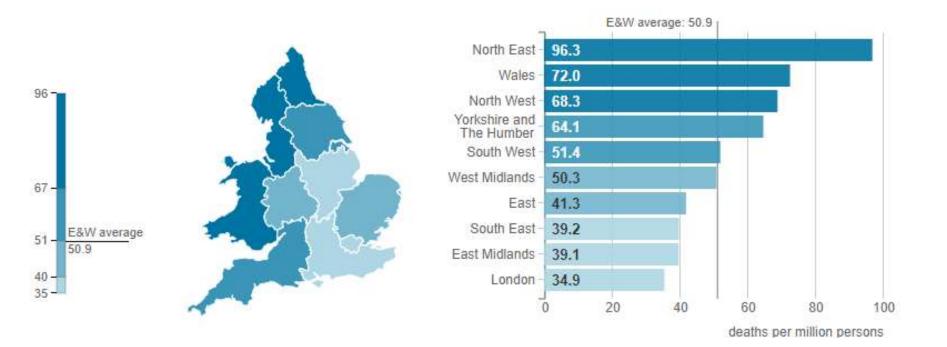
Deaths related to drug poisoning in England and Wales: 2018 registrations





Figure 4: Drug misuse has a marked North-South divide

Age-standardised mortality rate for deaths related to drug misuse, by country and region, registered in 2018



Deaths related to drug poisoning in England and Wales: 2018 registrations

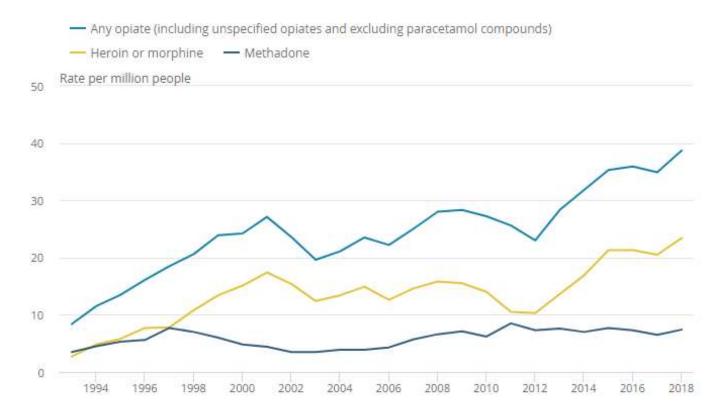




Figure 5: Deaths involving opiates increase to the highest ever

rate

Age-standardised mortality rates for deaths by all opiates, heroin or morphine, and methadone, England and Wales, registered 1993 to 2018



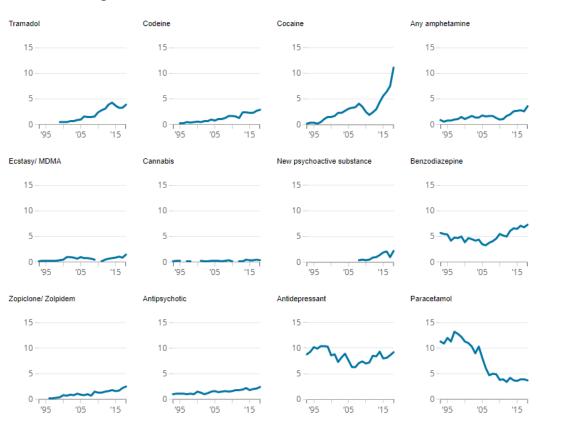
Deaths related to drug poisoning in England and Wales: 2018 registrations





Figure 6: Trends in drug poisoning deaths involving selected substances

Age-standardised mortality rates for selected substances, England and Wales, deaths registered between 1993 to 2018



Deaths related to drug poisoning in England and Wales: 2018 registrations Office for National Statistics



- Drug related death monitoring PHI commissioned to provide by LA public health.
- System began in Sefton in 2016.
- Operational in 8 of 9 Cheshire and Merseyside areas
- 14 panels met during 2019 so far
- Attendance at panels from housing, mental health services, hostels, hospices/palliative care, NHS England, Adult Social Care, Hospital Liaison Teams
- Annual summary reports for each area published in July 2019



A drug related death follows the ONS definition: *"A death where the underlying cause is poisoning, drug abuse or drug dependence and where any of the substances controlled under the Misuse of Drugs Act (1971) are involved"* – also includes toxicity from prescribed substances, NPS or alcohol. **Reported by the Coroner.**

However for the purposes of the monitoring system, all deaths in treatment are examined in order to establish whether a death might be considered to be drug *related* in a more general sense (effect of substance on mental or general physical health for instance). Alcohol is also included. **Reported by Treatment agencies (mainly).**



DRD reporting system



Online DRD system



Commissioner and relevant personnel from the area notified





ig Related Deaths 🕒 Update Record 🗙 Car	el	Requires action or updates 🗌 💼 Delete R
lain Details Education & Housing Det <mark>ail</mark> s of Death	Health & Medical Substance Misuse Service	Admin Coroner Information
Substance Misuse Service		
Date of last contact with substance misuse service	25/01/2018	
Nature of last contact	Contact while on caseload	
Additional detail of last contact	Last contact was with service nurse at an appoi	
Substance/Alcohol use history (pre current NDTMS	pisode)	
illicit heroin use prior to stating treatment with Mersey car	NHS drug service in Liverpool on 17.08.2015.	
Most recent alcohol AUDIT score		
Drug detoxification in the past 12 months	No	



Information from Drug and Alcohol Treatment Service



- Demographic information (age, postcode, etc.)
- Individual's occupation and employment status
- Any recent changes to accommodation
- Details of the death (if known)
- Mental health diagnosis at the time of death
- Contact with GP
- A&E admissions
- Details of contact with treatment service
- Overdoses or detoxes in recent years
- Care plan

Information from Coroner



- Demographic information (age, postcode, etc.)
- Details of death including if ambulance attended, persons present, attempt to resuscitate
- Toxicology
- Drugs implicated in death
- Had any drugs recently increased in dose
- Naloxone
- Recent change in circumstances
- Verdict



OTHER DATA SOURCES

- ✓ NDTMS records including any Treatment Outcome profiles
- ✓ NSP (Needle Exchange Programme) contacts
- ✓ Brief interventions from low threshold services
- ✓ DIP (Drug Intervention Programme) or criminal justice record
- ✓ Adult social care
- ✓ Housing services
- ✓ Other services involved in individual's care





Client: JE

Sex:

Age at death:

Place of birth:

Residential postcode: Date of death:

Demographic details **Relationship status:**

Number of children:

Ethnicity:

Date of registration of death:

Living situation at time of death:

Housing status at time of death:

Employment status at time of death:

Most recent	Most recent	Last contact with	Date of Death
episode start date	TOP date	service	
01/10/2013	03/11/2015	14/03/2016	01/04/2016

Male

44

L10

01/04/2016

Unknown

Unknown

Separated

Living alone

White Other

Unknown

Three

Substance Misuse Service History

14/
Cor
Her
AU
No
Uni
Yes
14/
Ref
One

14/03/2016 ontact while on caseload eroin (illicit), cocaine (freebase), methadone JDIT = 0 nknown es (unsupervised) 1/03/16 eferred by GP to Knowsley CMHT (Nov 2015) ne or more previous contacts with mental health services (community only services) within a psychiatric speciality but not subject to CPA

NDTMS details

Episode start date:	01/10/2013
Discharge date:	01/04/2016
Last TOP date:	03/11/2015
Main substance (at last TOP):	Opiates
Other substances (at last TOP):	Crack cocaine
Injecting status (at last assessment):	Previous

Coroner details

Place where drugs(s) used prior to death	Own home
Persons present at scene of overdose	No. Went to see his friend & told him he had recently injected heroin & crack cocaine.
Ambulance attendance	Yes
Recent significant events	Deceased & friend fell asleep when friend awoke deceased was unresponsive. Friend phoned for ambulance.
	Paramedics attended but could only verify that JE had passed away.
Coroner verdict	Narrative: 1a) Bromchopneumonia, 2) Hepatitis C Infection
Other medical history	Hepatitis C+, Anxiety with depression, chronic Gastritis
	Heroin & other street drug abuse.

Details of death

Education level:

Place of death:	Another person's home
Cause of death:	Bromchopneumonia and Hepatitis C Infection
Post mortem or inquest:	No
Reported to:	Drug Service/Delphi medical administrators and prescribers,
	Drug Service area manager
History of prison/YOT in last 12 months:	No

Long term sick or disabled

Council / housing association

Medical/Health Service History

Medical conditions at time of death:
Mental Health diagnosis at time of death:

GP details: Medications prescribed at time of death: COPD (date of diagnosis unknown) Depression, anxiety/phobia/panic disorder/OCD, drug dependence, drug misuse Dr Smith, Concourse House, Kirkby Methadone oral solution 80mls daily, Zopiclone 5 tablets per month; Mirtazapine; Pregabalin 225mgBD; Ranitidine

IMS contact

First intervention date:	03/11/2
Last intervention date:	24/03/2
Total number of interventions:	8
Intervention details:	Brief int self-este
Agencies involved:	Drug Sei – SES, G
Primary substance on assessment:	Heroin i

2015 2016

nterventions - engaged with mental health, improved teem, OD awareness; NSP transactions ervice Knowsley South, Drug Service Knowsley North Goldbergs Pharmacy illicit



DRD panel membership

Individual case level report generated quarterly for discussion around learning opportunities at panel



Treatment provider representative



Clinician (consultant prescriber) Local Authority Public Health commissioner



Social services and other relevant services



Relevant specialist guest(s)



PHI chairperson

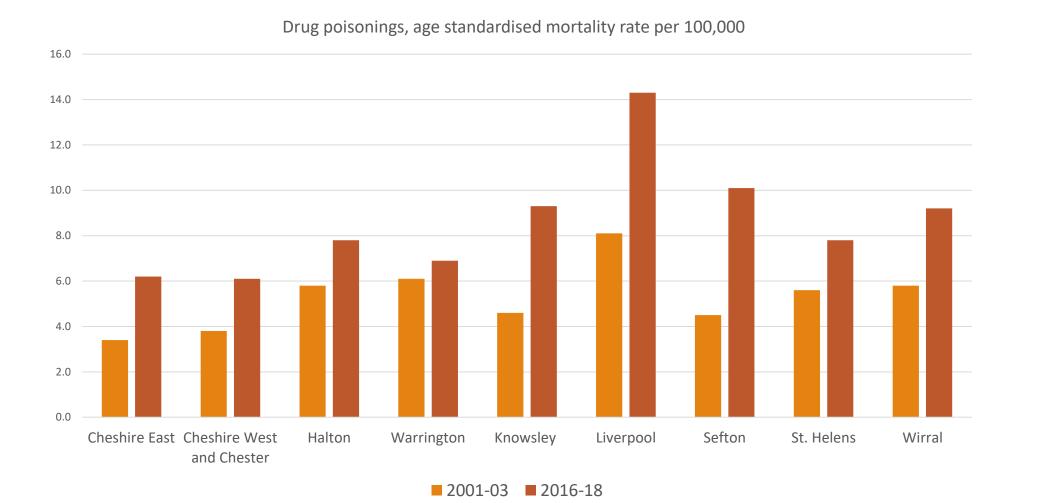




Main findings from 2018's data

- 295 deaths occurring in 2018 reported to the system
- Deaths are at their highest level locally since records/local surveillance system started, although in treatment deaths have risen at a slower rate
- Most deaths are individuals in treatment
- Individuals are dying later in treatment than out of it (for some groups)
- Alcohol appears in a significant number of toxicologies
- The number of deaths from cocaine toxicity and from alcohol toxicity are rising
- People are increasingly dying alone
- Injecting and continued use of illicit drugs is common

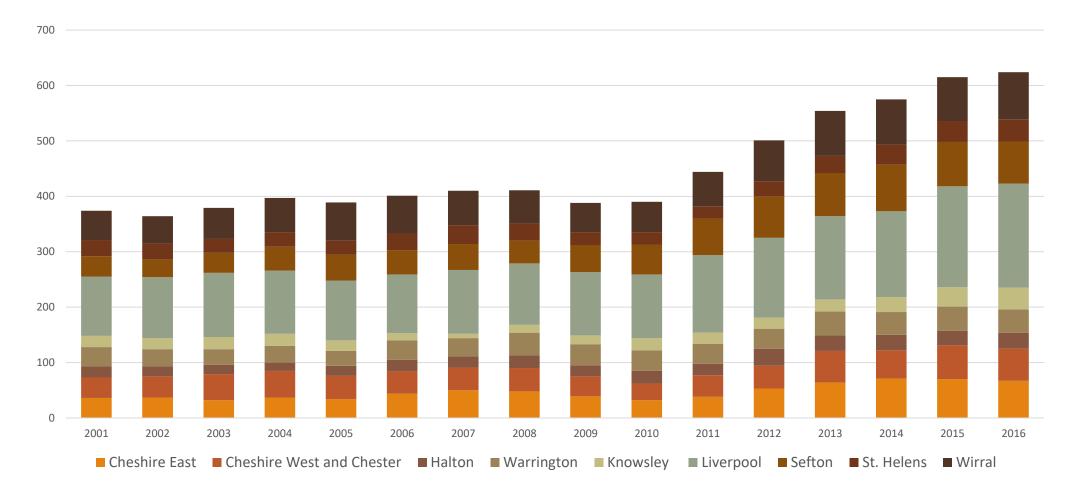




National Statistics

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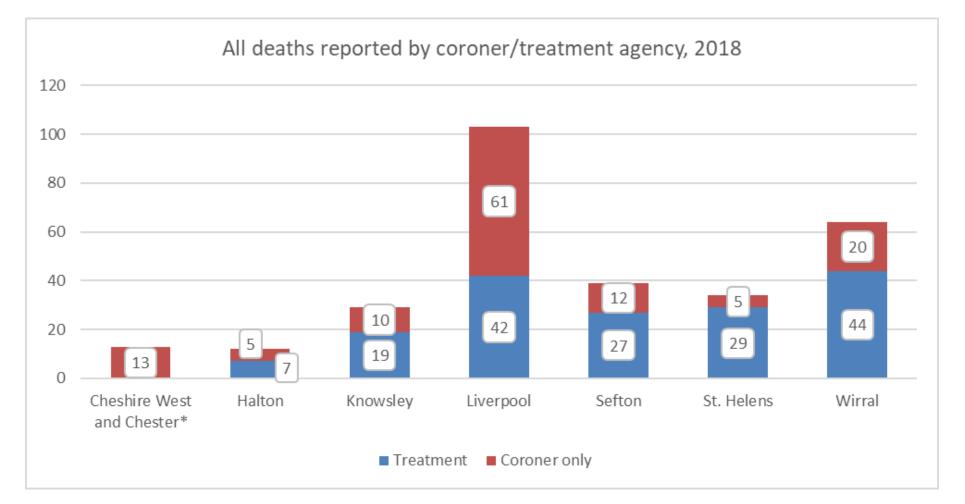
Number of deaths by local authority, Cheshire and Merseyside, 2001-2018







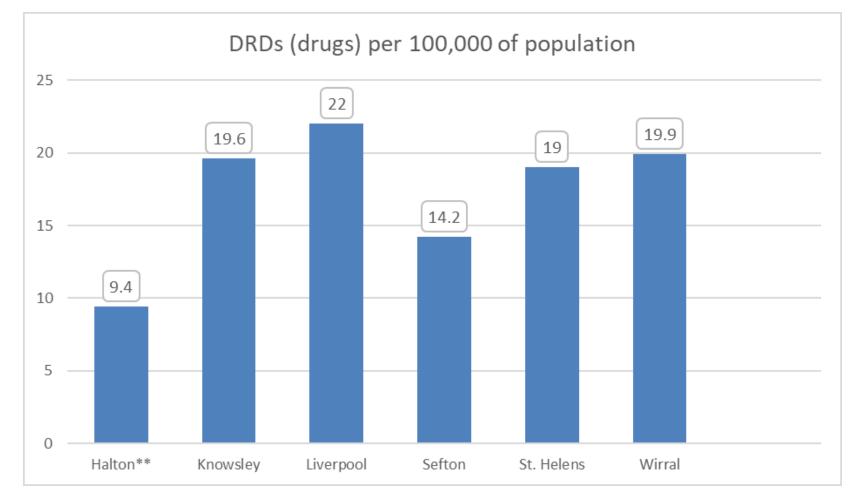
Number of deaths by local authority, coroner/treatment agency split, 2018



* Cheshire West and Chester data does not include in treatment deaths



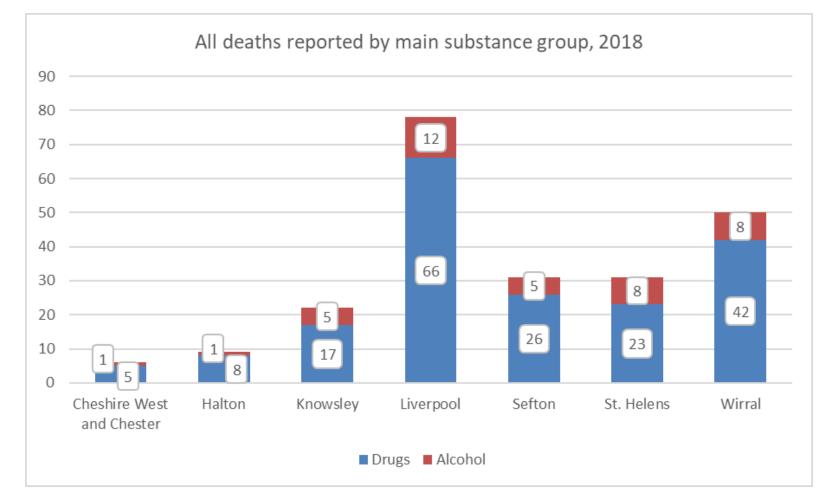
Number of deaths by local authority, per 100,000 of population, 2018



* Halton figure does not include coroner data for whole of 2018



Number of deaths by local authority, drugs/alcohol split, 2018



* Cheshire West and Chester data does not include in treatment deaths



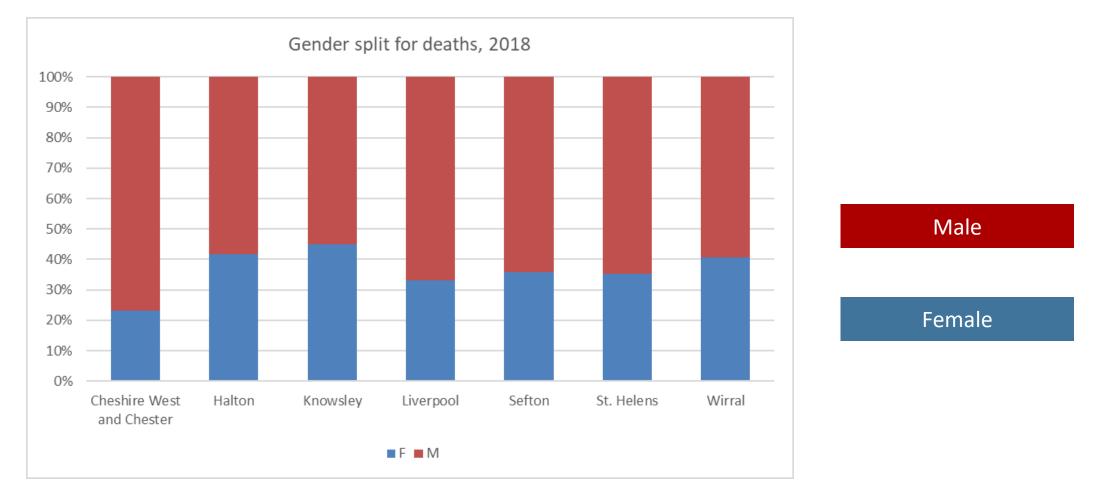
Average age of death by local authority, 2018

	Average age of death							
	Coroner o	only drugs	Coroner or	nly alcohol	In treatm	ent drugs	In treatme	ent alcohol
	Men	Women	Men	Women	Men	Women	Men	Women
Halton	45	61*			44	43	47*	36
Knowsley	49	41	55		51	48	52*	51
Liverpool	42	52	54	53	49	49	54	53
Sefton	39	29*	57*	47*	50	52	54	61
St. Helens	51	58		70*	50	48	48	55
Wirral	40	48	48	64*	50	48	50	46
Average	42	50	54	56	50	49	51	52

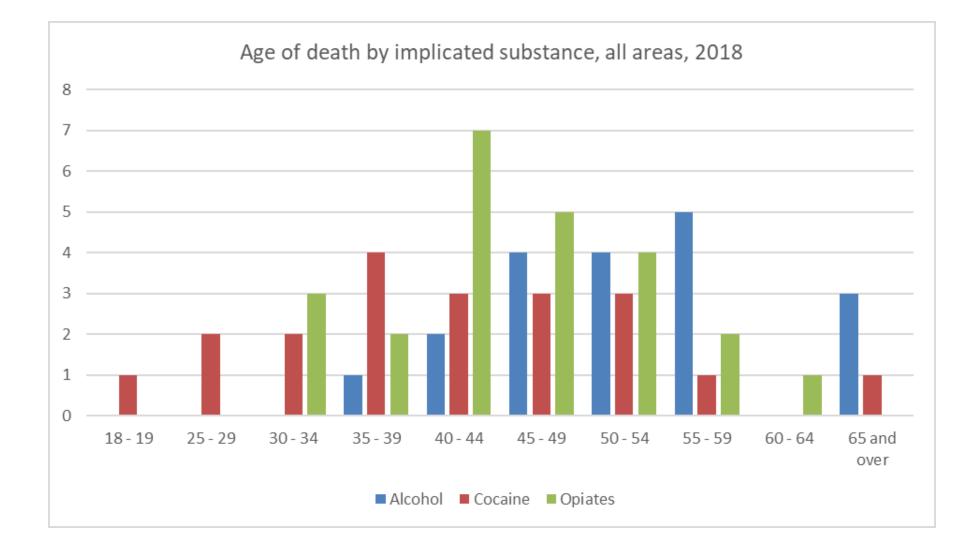
* denotes single case



Gender split of deaths by local authority, 2018







Age of death by implicated substance, all C&M areas, 2018



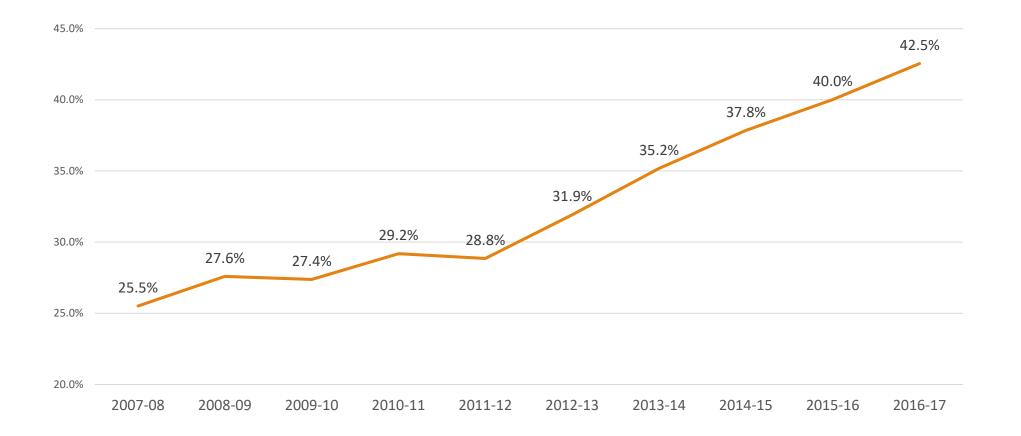
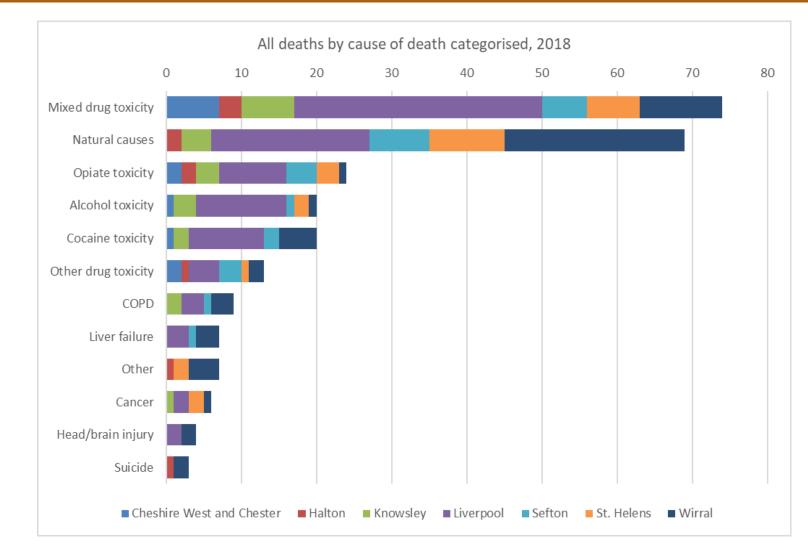


Figure 49 - Proportion of individuals in NSP cohorts aged 40 years or over





All deaths by cause of death, 2018



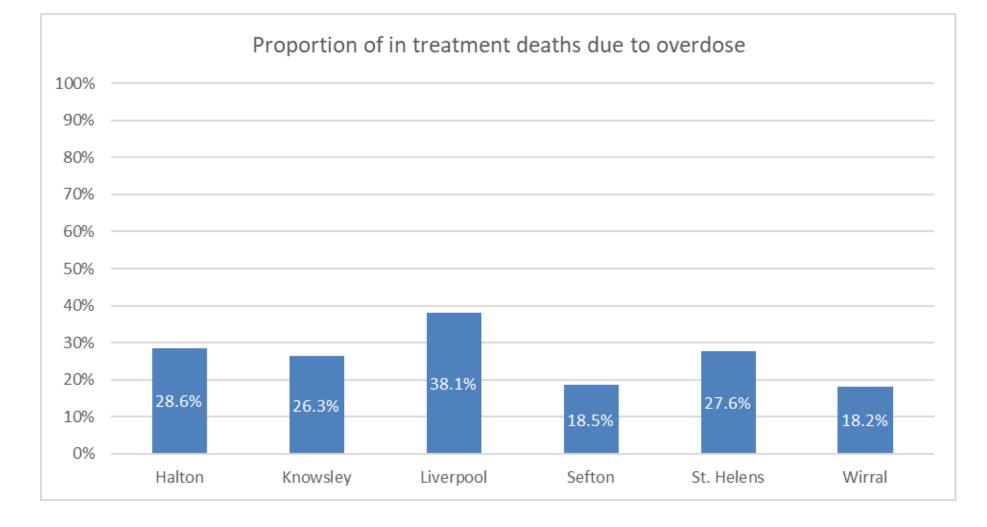
In treatment cause of death, Liverpool, 2018

Cause of death	Count
Natural causes	18
Mixed drug toxicity	12
Unknown	3
Opiate toxicity	2
COPD	2
Cancer	2
Alcohol toxicity	2
Head/brain injury	1

Coroner only cause of death, Liverpool, 2018

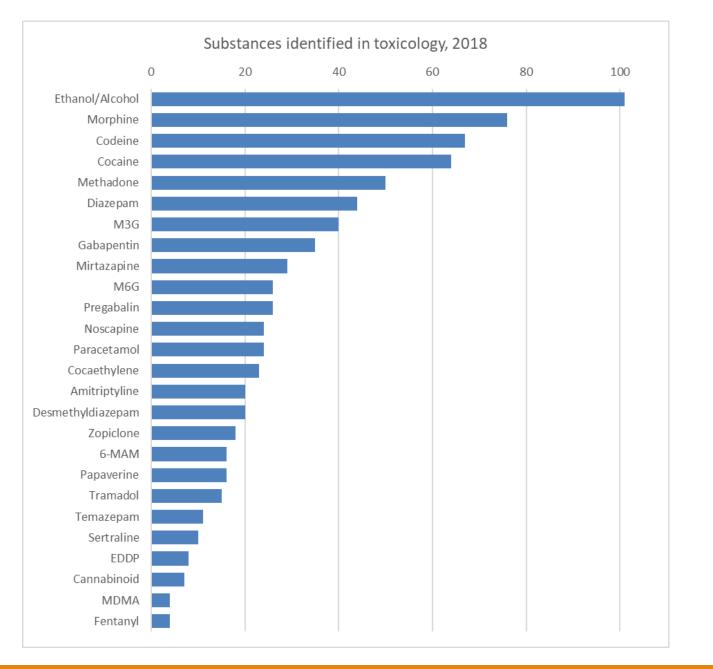
Cause of death	Count
Mixed drug toxicity	21
Cocaine toxicity	10
Alcohol toxicity	10
Opiate toxicity	7
Other drug toxicity	4
Natural causes	3
Liver failure	3
Head/brain injury	1
COPD	1
Other	1





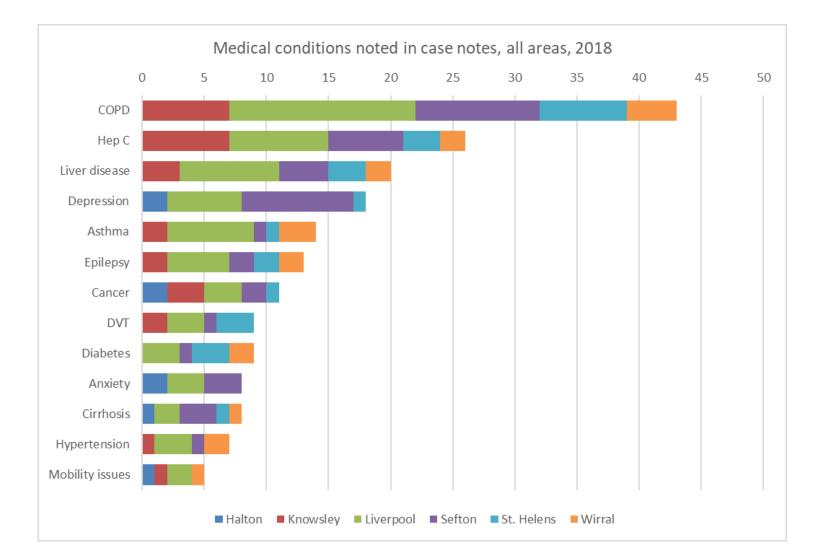
Proportion of deaths in treatment due to overdose, by local authority, 2018





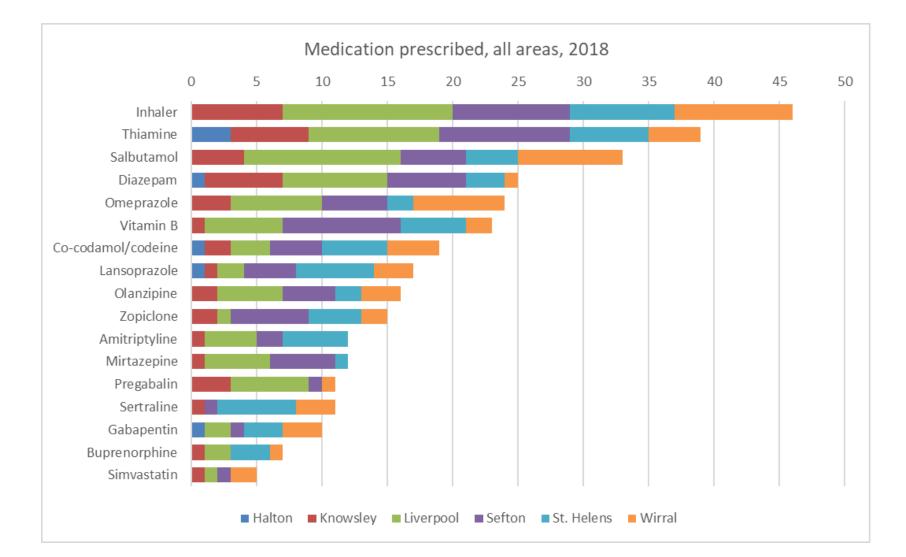
Substances identified in toxicology, all areas, 2018





Medical conditions of deceased, by local authority, 2018





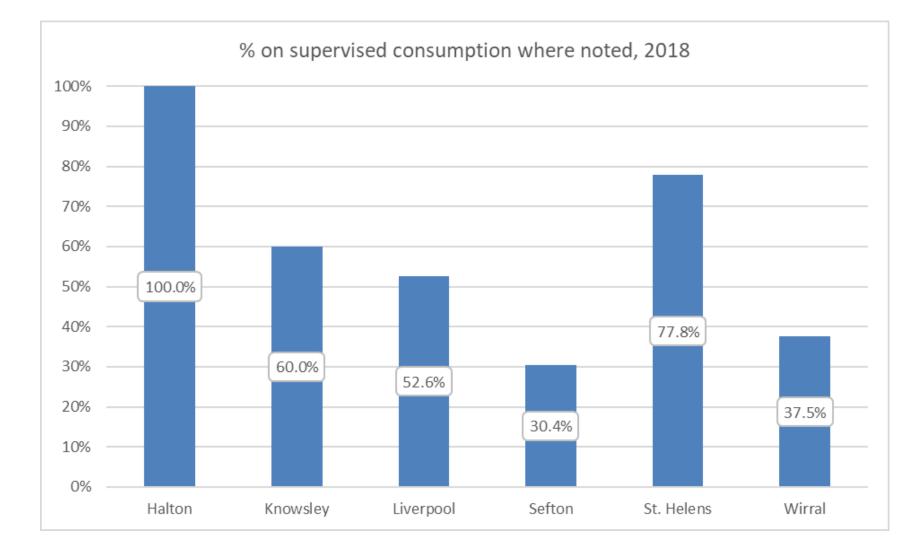
Medications prescribed prior to death for deceased, by local authority, 2018



Number of medications prescribed, by local authority, 2018

Number of meds prescribed	Average	Low	High	% with 6 or more meds prescribed
Halton	4.2	2	8	40.0%
Knowsley	5.2	2	13	31.6%
Liverpool	6.5	1	17	52.9%
Sefton	6.3	1	12	45.8%
St. Helens	4.7	1	10	39.1%
Wirral	6	1	21	48.0%

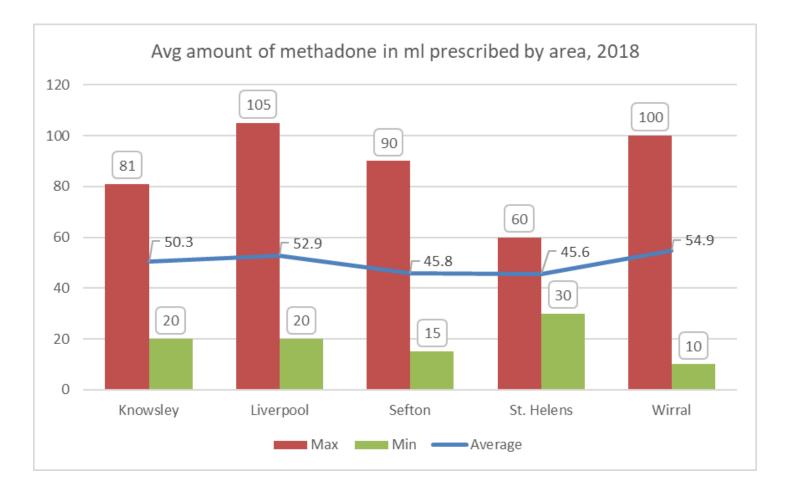




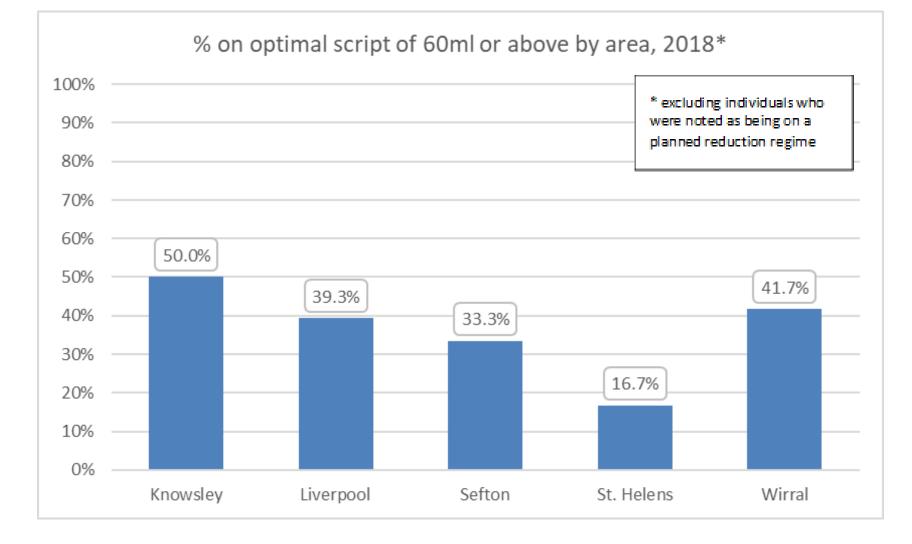
Percentage on supervised consumption, by local authority, 2018



Average amount of methadone prescribed in ml, by local authority, 2018

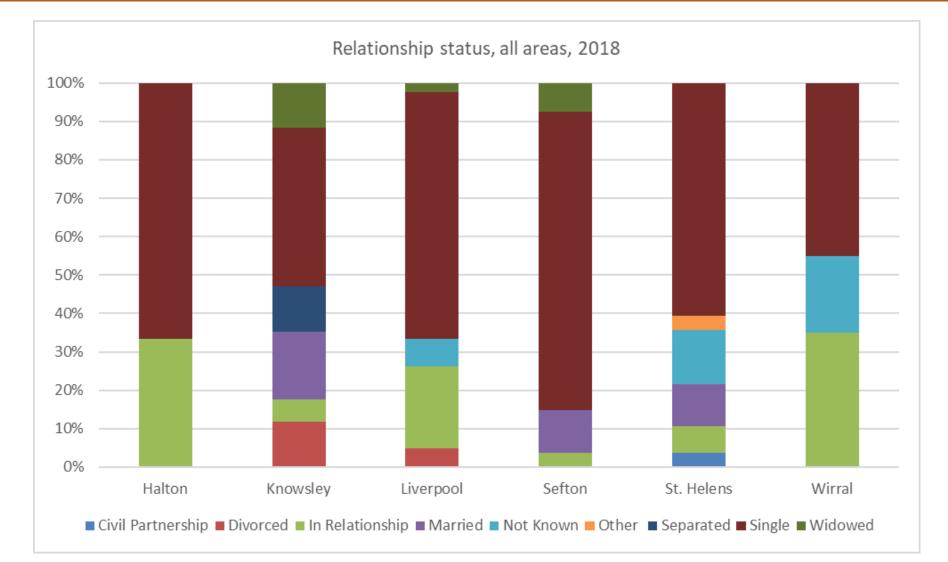






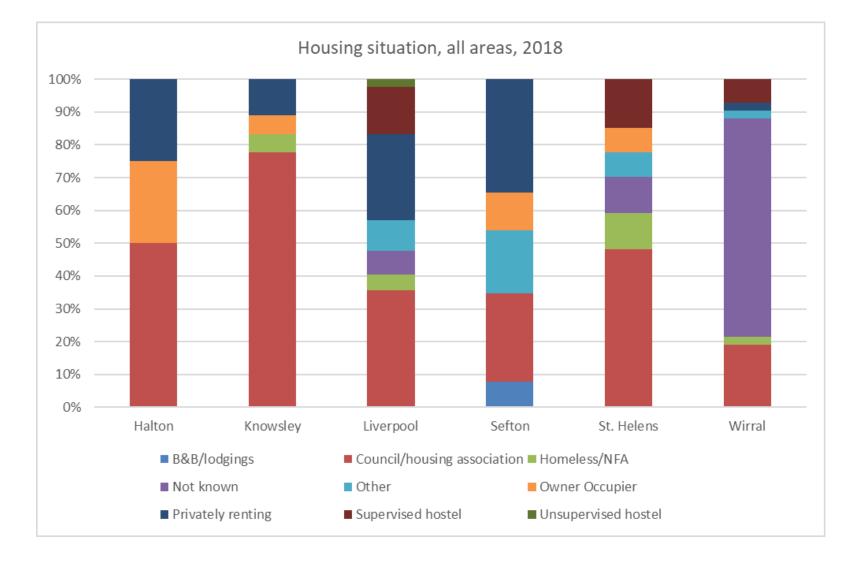
Percentage on optimal script of 60ml-120ml, by local authority, 2018





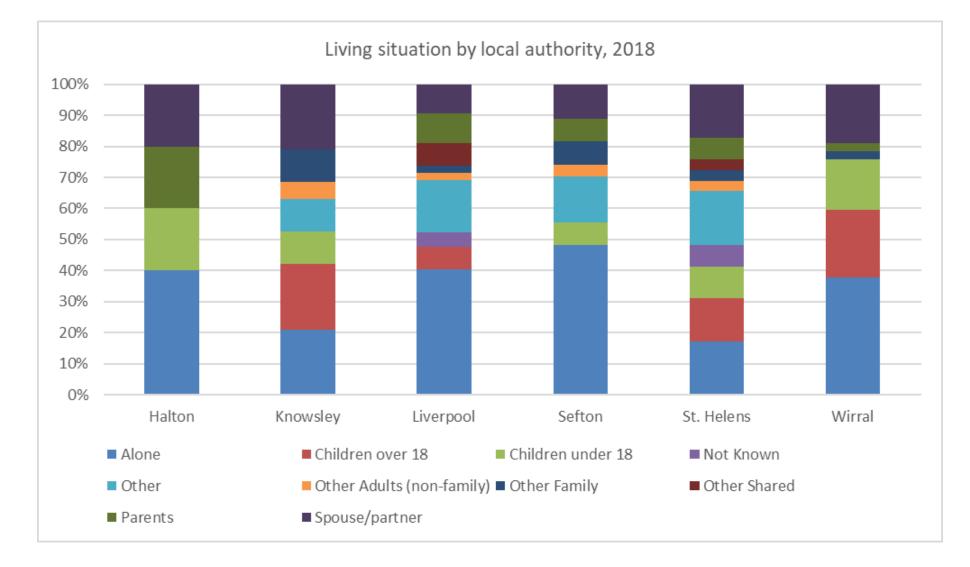
Relationship status of deceased, by local authority, 2018







Housing situation of deceased, by local authority, 2018



Living situation of deceased, by local authority, 2018



Case Study 1: BV - 29 year old male, homeless

Upon entry into treatment service following prison release, BV was in a relationship and often stayed between his mother and girlfriend's address.

Heroin, 6 x £10 bags daily, 3 x £10 bags of Crack cocaine every 2 days both injected. Drinking 4 cans of 8% lager and 2 cans of 7.5% cider daily. Occasionally used Pregabalin.

Low mood following bereavement. Client withdrew from services and reported moving out of area but would not engage in telephone conversations to check on wellbeing.

Safety concerns following a physical attack by a group of youths. Mr V was found by the grounds keeper of a local Church. Emergency services were called. Police commenced CPR, carried on by paramedics. Mr V was taken to hospital but was dead on arrival. A tent was located in the church grounds as well as personal effects, blood stained jeans & a drugs wrap.

Verdict: Drug related death / Cerebral thrombosis / Complications of Heroin use





Case Study 2: JA - 44 year old male, lived in hostel

Had long history of polysubstance use and was seen in the YMCA treatment clinic to assist with methadone treatment. Client socially isolated and staff reported he spent long periods of time in his room - was challenging to engage with at times and would often miss his methadone doses as he was reluctant to take this when he had used heroin, which he had started to smoke heroin daily. Reduced IV use due to lack of access to IV sites.

Three way discussions between GP practice team and treatment provider's nurse prescriber as how best to support his engagement with treatment and declining health.

Had severely ulcerated legs and breathing difficulties from COPD in the months prior to his death was given advice and information around the effects of smoking heroin on COPD. Prescribed 30mls of methadone but stopped presenting to treatment provider.

On day of death JA had taken crack cocaine earlier but a resident contacted YMCA staff to say that JA was struggling to breathe.

Verdict: Drug Related Death / Serious infection (SAB)/ injecting drug use/COPD

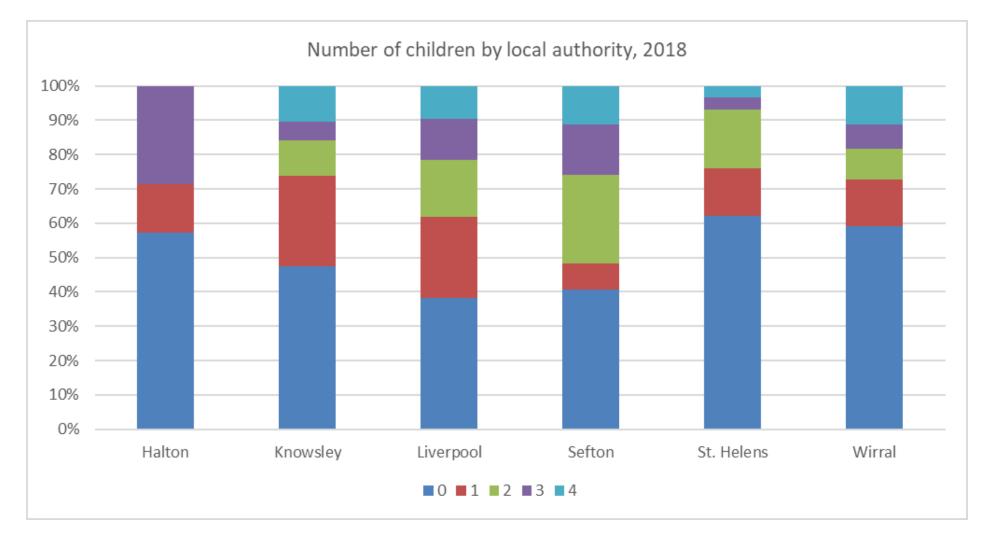




Proportion with non-matching injecting status IMS/ NDTMS records, by local authority, 2018

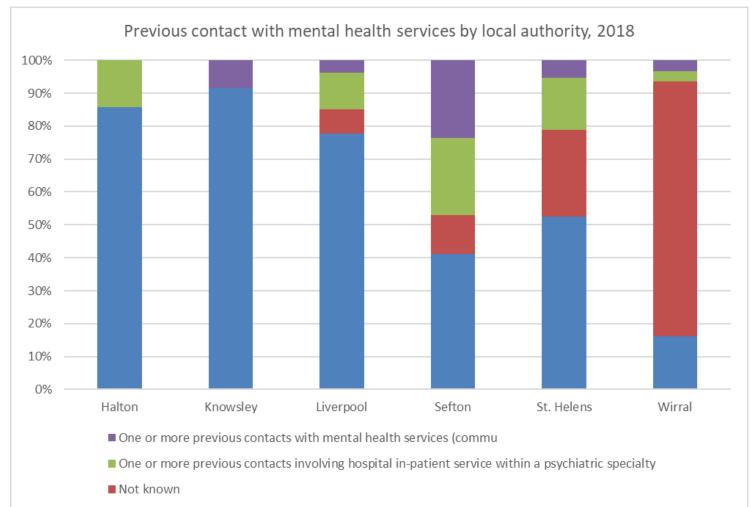
Cheshire West & Chester 14 36% 21% 0% 0% Halton 12 33% 8% 33% 8% 100% 0% Knowsley 29 24% 10% 69% 21% 67% 33% Liverpool 103 39% 12% 41% 25% 69% 31% Sefton 39 31% 8% 67% 23% 56% 44%		Total DRDs	Proportion with IMS	IMS current / last year	Proportion with NDTMS	Proportion with Both	Match	Don't match
Knowsley 29 24% 10% 69% 21% 67% 33% Liverpool 103 39% 12% 41% 25% 69% 31%	Cheshire West & Chester	14	36%	21%	0%	0%		
Liverpool 103 39% 12% 41% 25% 69% 31%	Halton	12	33%	8%	33%	8%	100%	0%
	Knowsley	29	24%	10%	69%	21%	67%	33%
Sefton 39 31% 8% 67% 23% 56% 44%	Liverpool	103	39%	12%	41%	25%	69%	31%
	Sefton	39	31%	8%	67%	23%	56%	44%
St. Helens 34 35% 12% 71% 35% 67% 33%	St. Helens	34	35%	12%	71%	35%	67%	33%
Wirral 64 41% 8% 66% 28% 56% 44%	Wirral	64	41%	8%	66%	28%	56%	44%
Total 295 36% 11% 54% 24% 64% 36%	Total	295	36%	11%	54%	24%	64%	36%





Number of children under 18 of deceased, by local authority, 2018

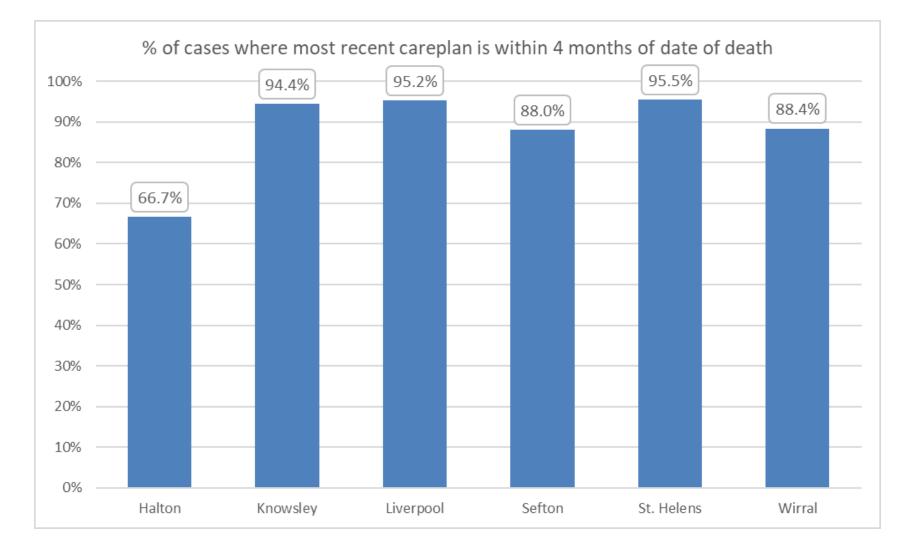




No known previous contact with mental health service

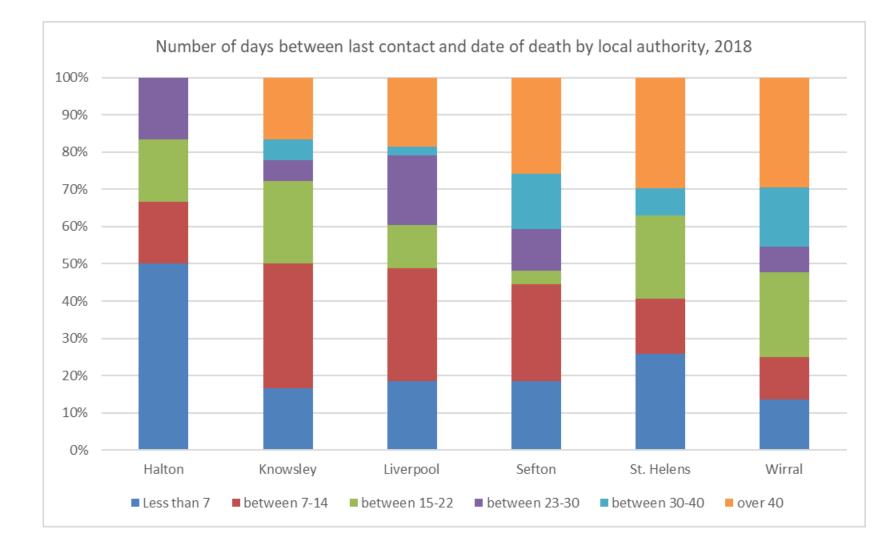
Previous contact with mental health services, by local authority, 2018





Percentage of cases where most recent careplan is within 4 months of date of death, by local authority, 2018





Number of days between last contact and date of death, by local authority, 2018



Previous overdose, and A&E admissions within last 2 years, by local authority, 2018

Overdose	% of people with previous overdo	Average number of OD	Highest number of OD
Halton	28.6%		2 2
Knowsley	31.6%	2.	3 4
Liverpool	16.7%	2.	1 5
Sefton	51.9%	6.	3 38
St. Helens	34.5%	1.	6 6
Wirral	9.1%		1 1

A&E admissions	% of people with A&E attendanc	e Average number of admissions	Highest number of admissions
Halton	28.69	6	1 1
Knowsley	47.49	6	4 17
Liverpool	40.59	6 1	.6 5
Sefton	48.19	6 4	.7 19
St. Helens	65.59	6 2	.1 12
Wirral	36.49	6 1	.1 2

maps



Data collection is good but some challenges with the system:

- Number of deaths sometimes difficult to cover in time available in panels
- Turning actions into evidenced change
- Coroners difficult to engage for panels
- Ability to link in other agencies is currently not utilised well
- Delay in inquest detail means sometimes deaths are reviewed twice



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