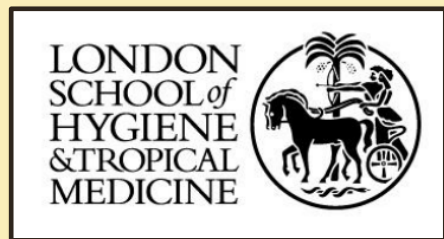


# Improving opioid substitution treatment in the acute hospital setting

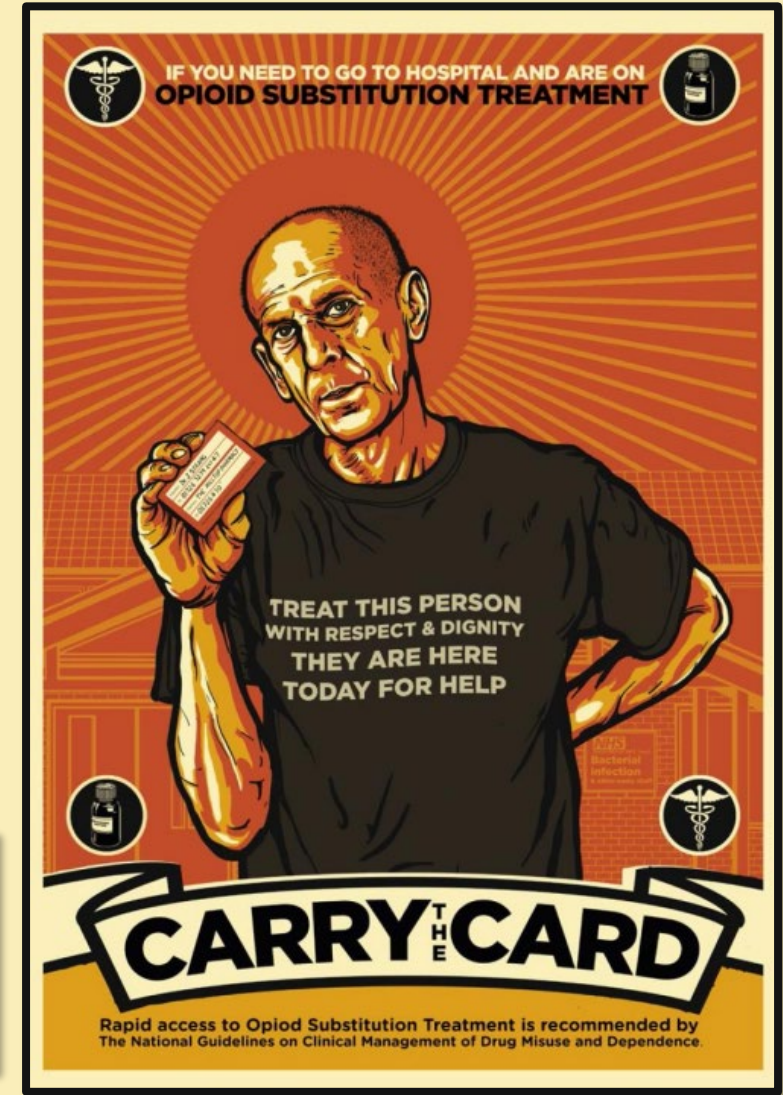
Prof Magdalena Harris, on behalf of the iHOST Study team

[magdalena.harris@lshtm.ac.uk](mailto:magdalena.harris@lshtm.ac.uk)

<https://www.lshtm.ac.uk/research/centres-projects-groups/ihost>



*Faculty of Addictions  
Psychiatry Annual Conference,  
27-28 April 2023, London*



# Disclosures and Acknowledgments

Niamh Eastwood works for Release, which has received a grant from Ethypharm. All other iHOST study team members, including Magdalena Harris, have no conflicts of interest to declare.

We thank all community members with lived experience of opioid use & injecting who have contributed to this research. Including:

- Participants of the NIHR Care and Prevent Study
- Release staff & community members for contribution to policy review
- Policy working group members with lived experience of OST/opioid use
- iHOST peer experts group & advisory board members



# Project impetus: Care & Prevent study findings



The **Care & Prevent study** explored SSTI prevention, risk & care among **455 PWID** in London (2017-20) [1]

## SELECT FINDINGS:

- High reported **lifetime prevalence of skin, soft tissue & venous infection (SSTVI): 68%** (310/455) [2]
- High proportion **hospitalised for SSTVI: 44%** (137/310): associated with care delay (54% >5 days, 28% >10 days)
- Fear & experience of **opioid withdrawal in hospital** a primary barrier to treatment presentation & completion

➤ **iHOST (improving hospital OST) a co-produced response to this problem: commenced March 2022**

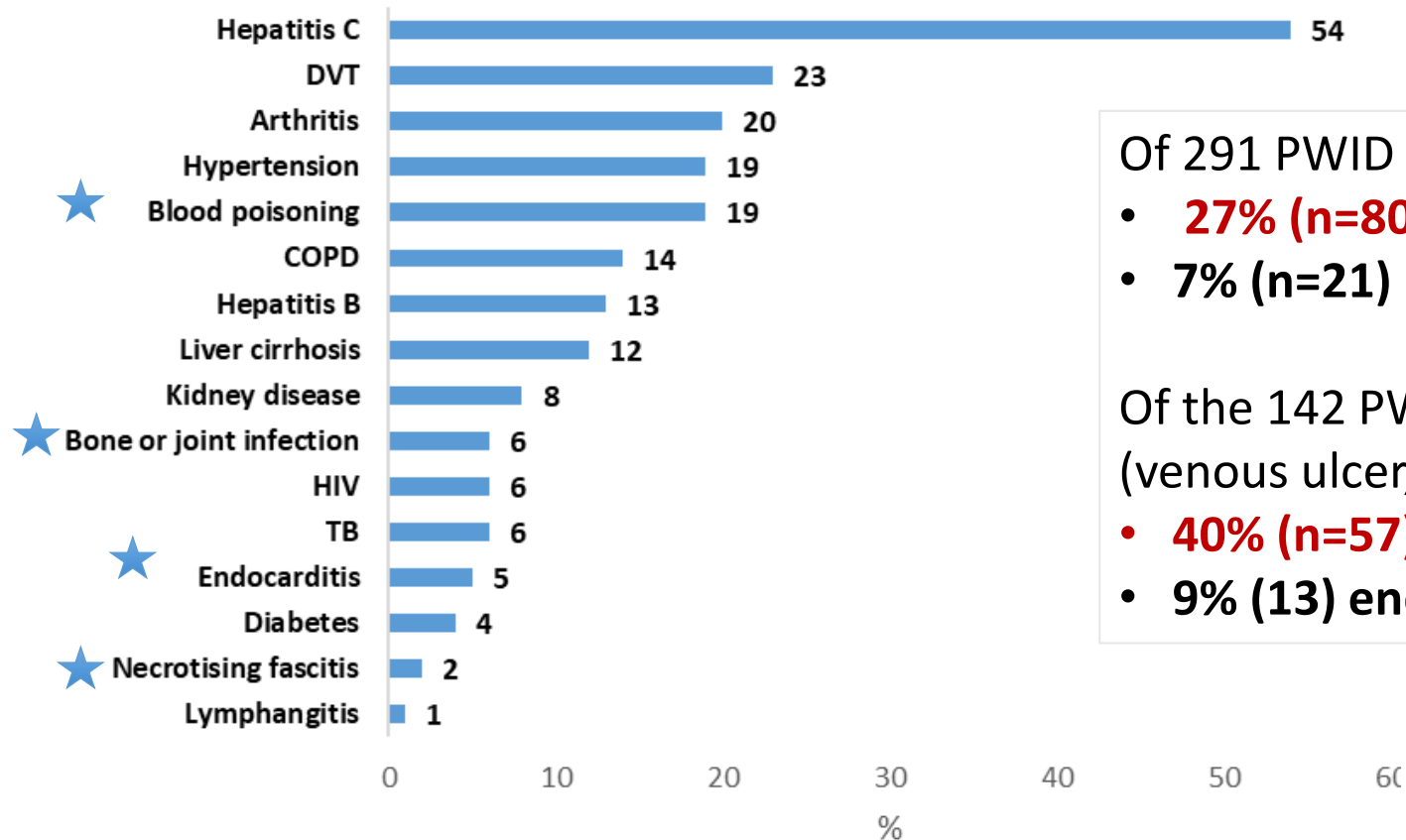
Today - ONE YEAR ON – I will share project impetus and progress, highlighting success in **policy change** 😊

		Men (341, 75%)	Women (114, 25%)	Total (n= 455)
<p>Care &amp; Prevent</p> <p>Survey</p> <p>Participants</p> <p>n=455</p> <p>2018-19</p>	Ethnicity: White British/white	248 (73%)	88 (77%)	336 (74%)
	Age, range (mean)	21 - 68 (46yrs)	22 - 67 (44yrs)	21 - 68 (46yrs)
	Injecting in past 12 months	224 (66%)	60 (53%)	273 (63%)
	Mainly injecting: heroin & crack (past 12 months)	182 (53% <b>61%</b> )	43 (38% <b>47%</b> )	225 (49% <b>58%</b> )
	heroin	129 (37% <b>29%</b> )	70 (61% <b>53%</b> )	199 (44% <b>34%</b> )
	Current OST	274 (80%)	86 (75%)	360 (79%)
	Current hostel/street homeless	163 (48%)	44 (39%)	207 (46%)
	<b>Ever street homeless</b>	277 (81%)	78 (68%)	<b>355 (78%)</b>
	<b>Ever SSTVI</b> (abscess, cellulitis, venous ulcer, venous disease)	231 (65%)	79 (69%)	<b>310 (68%)</b>
	<b>Hospitalised for SSTVI above</b>	96 (28%)	41 (36%)	<b>137 (30%)</b> <b>46% of 310</b>

# 46% of those with SSTVI hospitalised. What is going on?

- Time to seek medical advice associated with SSTVI severity: 54% (124) waited 5-9 days, **28% (83) 10+ days**
- SSTVI severity associated with hospitalisation. Systemic complications common.

## Diagnosed co-morbidities



Of 291 PWID with abscess or cellulitis:

- **27% (n=80) report sepsis**
- **7% (n=21) report endocarditis.**

Of the 142 PWID with history of vascular issue (venous ulcer, venous disease or DVT)

- **40% (n=57) report sepsis**
- **9% (13) endocarditis.**

★ = potential SSTI complication

# Qualitative data (n=37): additional insight

## Opioid withdrawal: barrier to treatment access & completion [1]

- Medical care avoided: *“It was that that really scared me more than anything, was being sick in hospital ... being sick [in withdrawal] is one of the scariest things in the world to be.”*
- Stockpiling drugs / money: *“As long as I didn’t have the money I wasn’t going to the hospital”*
- Scoring / preparing/ injecting illicit drugs in hospital: *“I was injecting in the PICC line while I was in hospital”*
- Self discharge due to withdrawal: *“They give you a dose of methadone in the hospital but you have to wait for the doctor to consent, so I’m waiting days .... So going out, sick as a dog, arm bandaged up, I have to go out and find some money.”*

# Interrogating context: hospital policies

- Hospital critical medicines lists: informed by the Delayed & Omitted Medicines tool
- We questioned the categorisation of drugs for substance dependence (webinars)

DRUG OR DRUG CLASS BY BNF CLASSIFICATION AND INDICATION (S) CONSIDERED	Potential risks as consequence of delay		
	Dose not given at the time prescribed	Dose not given within 2 hours of time prescribed	Dose omitted (i.e. not administered by the time of next scheduled dose)
4.10. Drugs used in substance dependence <i>For alcohol or opioid dependence</i>	Nil or negligible patient impact with nil or minor intervention required; no increase in length of stay	Nil or negligible patient impact with nil or minor intervention required; no increase in length of stay	Significant short-term patient impact with moderate intervention required; increase in length of hospital stay possible

- We requested substance dependence guidelines: 224 NHS hospital trusts.
- 101 relevant policies (86 Trusts): discrepancies in approach, barriers to timely OST, punitive language

*“Patients with a history of drug abuse often have unreasonably high expectations. Alleviation of all pain is not a goal.”*

**BMC Medicine**

Research article | [Open Access](#) | Published: 14 April 2022

**Barriers to management of opioid withdrawal in hospitals in England: a document analysis of hospital policies on the management of substance dependence**

[Magdalena Harris](#) , [Adam Holland](#), [Dan Lewer](#), [Michael Brown](#), [Niamh Eastwood](#), [Gary Sutton](#), [Ben Sansom](#), [Gabby Cruickshank](#), [Molly Bradbury](#), [Isabelle Guest](#) & [Jenny Scott](#)

*BMC Medicine* 20, Article number: 151 (2022) | [Cite this article](#)

# Working with people who inject drugs & policy makers

Specialist Pharmacy Service	Dose not given at the time prescribed	Dose not given within 2 hours of time prescribed	Dose omitted (i.e. not administered by the time of next scheduled dose)
<b>4.10 Drugs used in substance dependence</b> 4.10.1 Alcohol dependence Benzodiazepines prescribed for alcohol dependence and withdrawal	Significant or catastrophic long-term patient impact with ongoing intervention required; long increase in length of stay possible	Significant or catastrophic long-term patient impact with ongoing intervention required; long increase in length of stay possible	Significant or catastrophic long-term patient impact with ongoing intervention required; long increase in length of stay possible
<b>4.10 Drugs used in substance dependence</b> 4.10.3 Opioid dependence Opioids prescribed as substitution treatment in opioid dependence	Nil or negligible patient impact with <u>nil</u> or minor intervention <u>required</u> ; no increase in length of stay	Significant short-term patient impact with moderate intervention required; increase in length of hospital stay possible	Significant or catastrophic long-term patient impact with ongoing intervention required; long increase in length of stay possible
<b>4.10 Drugs used in substance dependence</b> (no BNF sub-code) Benzodiazepines prescribed for benzodiazepine dependence	Nil or negligible patient impact with <u>nil</u> or minor intervention <u>required</u> ; no increase in length of stay	Significant short-term patient impact with moderate intervention required; increase in length of hospital stay possible	Significant or catastrophic long-term patient impact with ongoing intervention required; long increase in length of stay possible

*“like a helping hand. Something that speeds up the time you get your Methadone in hospital.”*



## People who inject drugs

Workshops to understand what would help them feel safer in hospital – more able to present early and complete their treatment:

- Advocacy card
- Advocacy helpline

*“something to take to the hospital to say I’ve got a right to be treated with dignity”*



# iHOST (improving hospital OST): a co-produced response



AIM: To optimise opioid substitution treatment (OST) management in hospital settings to reduce delayed presentation, self-discharge and emergency readmission among people who use opioids.

## INTERVENTION:

1. 'My Meds' advocacy card
2. Advocacy OST helpline
3. Online staff training module
4. **'Best practice' hospital template**
5. iHOST 'champion'

## Primary outcome measures:

1. Discharge against medical advice (DAMA)
  2. Emergency hospital readmission within 28 days
- Primary outcomes will be measured through analysis of routinely collected clinical data at the intervention sites, using comparative data from the national Hospital Episode Statistics (HES) database.
  - A qualitative component will assess iHOST acceptability and identify local contextual factors that might impact uptake and outcomes

FUNDER: National Institute of Health Research (NIHR)

SITES & TIMELINE: (2022-25)

University College London Hospital: **iHOST development: March – Oct 2022 | Feasibility testing: Nov 2022 – April 2023**

St James's University Hospital, Leeds; Royal Stoke University Hospital: iHOST evaluation May 23 – June 2024

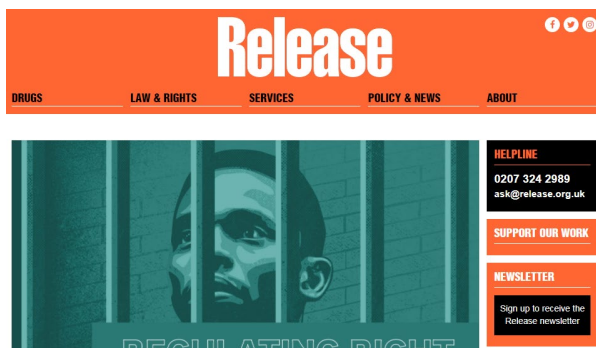
# Advocacy Card, training & helpline

The MY Meds card is credit card sized, double sided, and generic rather than personalised. **It aims to:**

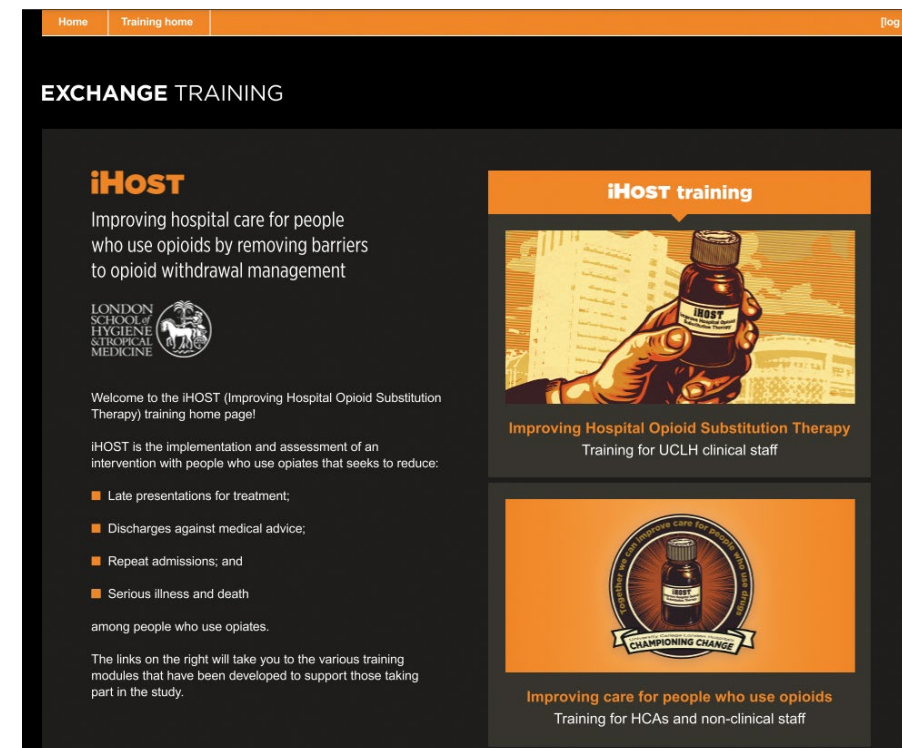
- Empower people on OST to feel safe to access hospital care and to disclose their medication requirements.
- Enable timely medicines reconciliation: prescriber and pharmacist contacts to be entered by the drug service.



E-learning module: a dedicated training package to support patient-centred care and communication, and enhance staff confidence in the specifics of OST dosing and management.



Helpline, operated by Release, will ensure that patients are supported to secure their community OST or be assessed and titrated while as quickly as possible, and in line with current clinical and policy guidance.



# Champion role

- Role description developed with our dedicated UCLH nurses
- Aim: to help ensure iHOST is transferable to and sustainable in other settings without intensive research team input.

## iHOST champion/s will:

- Be provided with enhanced training
- Encourage the adoption of iHOST
- Disseminate information regarding policy change & training availability
- Signpost to community drug teams and local pharmacies.

Akin to 'link' nurse role on wards.



# Policy template

- Our review of 101 NHS Trust policies highlights procedural barriers to timely OST provision, discrepancies in approach & divergence from national clinical guidelines.
- Need for standardised 'best practice' template across NHS trust ('postcode lottery')
- Informed by evidence review & expert stakeholder input – iHOST Working Group & Policy Oversight Group with representation from key stakeholder organizations, including Addiction Professionals
- People with lived experience of opioid dependency actively involved throughout.



# Stigma and risk

Policies emphasised risk of opioid overdose: negating risk of opioid withdrawal

*“Opioid withdrawal is not a life-threatening condition but opioid toxicity is”*

“Misuser”, “Abuser”, “Addict”  
“Sanctions”  
Maintaining “a degree of suspicion”  
Regular drug testing  
Supervised consumption  
Behavioural contracts

Many policies promoted stigmatising attitudes and approaches:

- Some instructed that a patient should be made to speak or swallow water to prove they were not holding OST in their mouth
- One maternity guideline stated that new mothers must be informed that if a test were positive, they might be discharged while their baby remains in hospital until fit for discharge
- Six advised observing the patient urinate
- Some advised restricting visitors and specified that patients should not be allowed to leave the ward

# Development of best practice policy

- Drawing on policy review, clinical evidence, consultations with hospital staff & people who use opioids
- Working group convened (clinicians, community members, prescribers etc): workshopped each policy point
- Oversight group convened: representatives from key stakeholder organisations: *Addiction Professionals, Royal College of Psychiatrists, British Pharmacological Society, College of Mental Health Pharmacy, Royal Pharmaceutical Society, Office for Health Improvement and Disparities.*

## UCLH Guidelines as a template: Issues addressed:

1. **Urine drug screen requirement** prior to any OST prescription in hospital (even where community Rx confirmed by local drug treatment service)
2. **Low initial methadone dose** (capped at 10mg, to be titrated 4hrly to 40mg max. day-one dose)
3. **No provision for takeaway OST/continuity of care** for patients with a community Rx who are discharged out-of-hours
4. **No provision for takeaway naloxone** to address high risk of fatal overdose in days following hospital discharge

UCLH

## Management of drug misusers

### UCLH Guideline Trust Wide

Author(s)	Ms Ravijot Saggu, Senior Clinical Pharmacist
Owner / Sponsor	Use of medicines committee
Review By Date	03/01/2023
Responsible Director	Dr Charles House, Medical Director
Monitoring Committee	Use of Medicines Committee
Target Audience	Trustwide
Related Trust Documents / Policies	Alcohol withdrawal guideline (link to be inserted when guidance published) Pathway to home (UCLH@Home)
Keywords	Methadone, Buprenorphine, Drug users
Number of Pages and Appendices	Total 13 pages including 2 appendices
Equalities Impact Assessment	Low

# University College London Hospital Guideline revision

## Key changes:

1. **Removed mandatory urinalysis pre-OST prescribing**
2. Amended OST initiation schedule (increased initial dose **10mg → 20mg**; max one day dose increased to 60mg under expert supervision)
3. **Introduced takeaway OST** for patients on community OST prescription (with drug treatment service approval)
4. **Introduced take-home naloxone**

Reviewed & approved by three UCLH guidelines committees

*“There were claps & cheers from the Acute Medical Unit staff when we introduced the changes. Claps & cheers!!”*

## Prevention and treatment of opioid withdrawal in hospital

[Link to guideline]

### DIAGNOSIS AND CAUSES

1. Establish opioid dependency
    - Community opioid substitution therapy (OST) Rx
    - Regular heroin use (frequency, amount, route)
    - History of opioid withdrawal symptoms
  2. Conduct physical examination
    - Opioid withdrawal symptoms using clinically validated scoring tool, e.g., COWS
    - Polysubstance use (NB: alcohol withdrawal is a medical emergency; see local guidance [\[LINK\]](#))
  3. For patients on community Rx:
    - Confirm medication, formulation, current dose, and whether consumption is supervised (community pharmacist/prescriber); confirm date of last consumption (pharmacist if supervised/patient if unsupervised)
- NB: Re-titrate OST if last consumption reported as 3+ days from date of hospital admission**

### REQUEST

- Monitor all patients for opioid toxicity four hours after each dose and then as per NEWS
- If RR < 12, oxygen saturation below target, or reduced level of consciousness: withhold OST
  - **If unresponsive: administer naloxone**

### ADVICE, REVIEWS & REFERRALS

- Inform Drug and Alcohol Liaison CNS of all patients prescribed OST in hospital
- Liaise with local drug treatment service for all patients prescribed OST in hospital
- See section on acute pain management (p.14)

### DISCHARGE

- Rx OST on day of discharge; Rx TTA naloxone
- For patients admitted on community Rx: Arrange continuation of prescription with CDTS
- For patients initiated on OST in hospital: Arrange urgent appointment with CDTS for day of discharge

MEDL GUIDELINE DETAILS  
Authors: MEDL Editor:  
Specialist: Pharmacist:  
CQC approval: Review date:

### TREAT

- **Rx naloxone PRN for all patients on OST**
- NB: Do not prescribe OST if contraindications: head injury, acute respiratory depression, coma (see BNF)

#### Continuing community Rx:

- Rx usual dose once daily (divided dosing BD if cautions, patient preference, or to enable pain management)
- [For patients on methadone]: monitor for symptoms of withdrawal; if withdrawal symptoms persist, prescribe 5-10mg methadone PRN; max. daily dose increase 10mg, max. weekly dose increase 30mg

#### Initiating/re-titrating methadone:

##### DAY ONE

- Rx 20mg starting dose methadone
- Monitor for symptoms of withdrawal 4-hourly
- Rx additional 10mg PRN methadone 4-hourly up to 40mg total day-one dose
- If withdrawal symptoms persist, prescribe up to 60mg total day-one dose **under expert supervision**

##### DAY TWO ONWARDS

- Convert total day-one dose into daily prescription and Rx in divided doses (BD)
- Monitor for withdrawal symptoms; if withdrawal symptoms persist:
  - Increase dose by up to 10mg PRN every other day (max. weekly dose increase of 30mg over day-one dose); if day-one dose ≤ 40mg, can increase dose by up to 10mg on day two

#### Initiating/re-titrating buprenorphine:

##### DAY ONE

- **NB: Only administer buprenorphine when withdrawal symptoms are present**
- Rx 4mg buprenorphine
- Monitor for withdrawal symptoms 4-hourly; if withdrawal symptoms persist, Rx additional 2mg PRN (up to 8mg total day-one dose)

##### DAY TWO ONWARDS

- Convert total day-one dose into daily prescription and Rx once daily
- Monitor for withdrawal symptoms; Rx additional 4mg dose 4-hourly if required, up to 16mg day-two dose

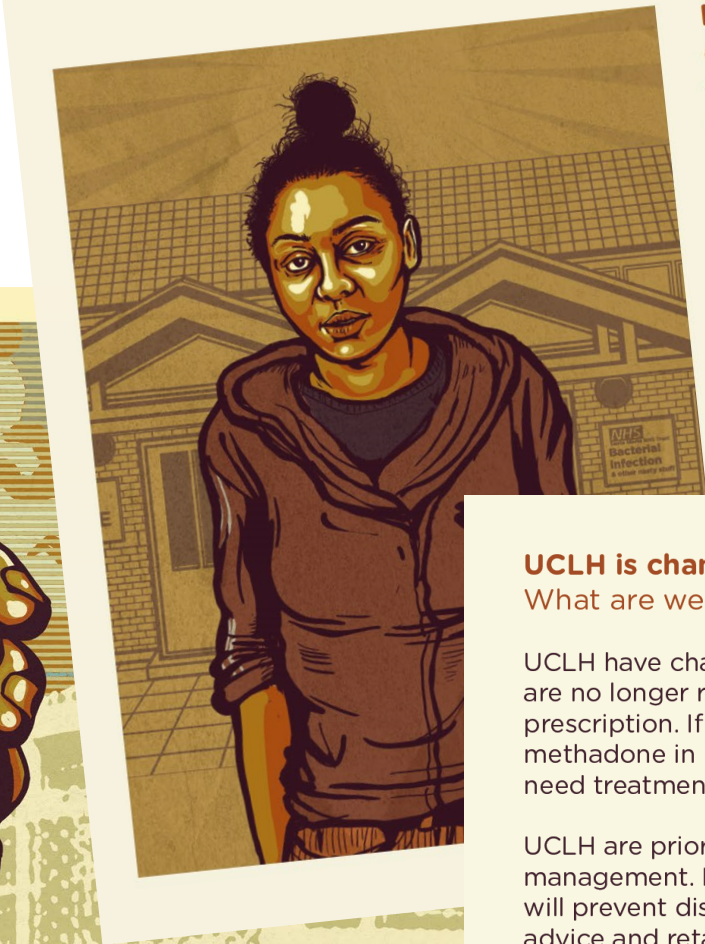
# UCLH launch! 15 Sept 2022



University College London Hospitals  
**CHAMPIONING CHANGE**



UCLH is leading a national NIHR-funded project: **improving Hospital Opioid Substitution Therapy (iHOST)**



**Delaying or failing to offer OST can contribute to decreased tolerance, thereby putting the patient at risk of fatal overdose upon discharge.**

*“They give you a dose of Methadone in the hospital but you have to wait for the doctor to consent, so I’m waiting days. By the time I wait for the doctor I’m sick as a dog, so I end up checking myself out to go and get drugs.”*

*“I went to the hospital three times but I weren’t on script, I weren’t on Methadone and they weren’t going to give me no Methadone I shouldn’t stay in the hospital because I’d be...”*

### UCLH is championing change!

What are we doing?

UCLH have changed policy. Urine drug tests are no longer required prior to methadone prescription. If we make it easier to get methadone in hospital more of those who need treatment will seek our help.

UCLH are prioritising opioid withdrawal management. Delivering high quality care will prevent discharge against medical advice and retain vulnerable people in care.

We have produced patient advocacy cards & helpline for people who use illicit opioids.

We are providing staff training to improve therapeutic relationships with people who use drugs; this will enable you to feel more confident in managing and preventing what can be challenging situations.

### Together we can improve care for people who use drugs

Watch out for:

Patient advocacy cards & helpline  
UCLH OST champions  
Staff training  
Policy change!



Delaying this person's essential medication (Opioid Substitution Therapy)

- Will make them unwell
- Increase the risk that they will leave against your advice
- Could increase their risk of harm or death.

Please treat this person with respect and dignity. They are here today for help.

Rapid access to OST is recommended by The National Guidelines on Clinical Management of Drug Misuse and Dependence.

**MY MEDS CARD**

# Driving principles

## MEANINGFUL COMMUNITY INVOLVEMENT

### PEER-LED/ PEER-OVERSIGHT

- Proposal informed by lived experience, research with people who use drugs & community consultation
- People with **current experience** of opioid use/OST on advisory board, policy working group & PPI lead
- Peer experts group: 4 men & 2 women (current OST/ opioid use) meet regularly to oversee project progress, provide feedback, co-produce **cultural safety framework & develop resources**



## TRANSFORMATIVE / SYSTEMIC CHANGE

### CULTURAL SAFETY PRINCIPLES

- Originating from NZ nursing practice, **cultural safety aims to reduce health care practices that cause patients to feel unsafe and powerless.**
- Requires providers to reflect on their own power & positioning, and how structural disadvantage and marginalisation can be reproduced in health care.
- It is the responsibility of the dominant health care culture to undertake process of change/ transformation to promote equitable health care access & outcomes.
- **What constitutes cultural safety is defined from the perspective of those receiving care in terms of what makes them feel safe or unsafe in a healthcare setting**
- Interactions with providers may be experienced by patients as unsafe despite the intentions of providers.

*A focus for the delivery of quality care through changes in thinking about power relationships and patients' rights*



# Cultural safety framework

*“When I had heart surgery, and I wasn’t fully under, I heard the surgeon say ‘Another bloody junkie’”*

*“You can’t even be comfortable disclosing your drug use at a drug service, never mind at a hospital!”*

**Respectful language:** *“I really appreciate when someone says ‘substance use’ rather than ‘substance misuse’”*

**Clear communication:** *“to have knowledge of what time the dose will come”*

**Foreground trust:** *“If I tell you I’m in pain, I’m in pain – not everything is drug-seeking behavior”*

**Patient choice:** *“make the offer’, ‘ask if I prefer split doses’*

**Discretion & confidentiality:** *“don’t announce to the whole ward that I am getting my methadone”*

**Dignified care:** *“She gave me methadone in a syringe ... [like] an animal at a vet, that’s what I felt”*

*“I feel like they, as medical professionals, they convince themselves they don’t have attitudes about who gets treated – they tell themselves that all the time to go to work every day – that they treat everyone equal - how to make them confront that?”*

# Next steps / discussion

iHOST implementation/evaluation @ James's Uni Hospital, Leeds & Royal Stoke Uni Hospital: May 23 – Jun 24

- Policy process complex but rewarding! Considerable interest from other hospitals
- Issue of ‘intervention spread’ (to share or not?)
- Evidence of policy impact at UCLH, less so regarding cards, helpline & champion role
- ‘Intervention spread’ (cards to other hospitals) /internal (workload) & external factors (service recommissioning)
  
- DAMA still happening – complexities informing self-discharge
- Cultural safety framework an ongoing iterative process – is this concept the best to think with?
- How best to inform practitioner self reflection & cultural change throughout NHS hospitals?

*“Is there something that makes themselves ask the question – are my prejudices rising to the top here? Is this based on fact what I’m thinking? Am I bringing my own morals or religion to this decision?”*

# In summary

- Fear and experience of opioid withdrawal in hospital is a barrier to timely presentation and treatment completion.
- Hospital policies can underpin and perpetuate stigma towards people who use drugs
- Reviewed NHS Trust policies were inconsistent throughout the UK, many included procedural barriers to timely withdrawal management.
- This is a modifiable issue!
- **Policy change is possible, and a positive first step toward improving hospital care for people who use drugs more broadly.**

Our guideline aims to:

1. **Default to trust:** counter discriminatory attitudes toward people who use drugs
2. **Re-orientate perceptions of risk:** apply a more balanced assessment of risk/benefit, where risk also includes the risks of not prescribing OST
3. **Remove harmful and stigmatizing language:** use person-first terminology
4. **Move toward parity with other patient groups:** consulting with people who use drugs as part of the policy development process



# Select references

Harris, M. *et al.* (2018) 'Care and Prevent': Rationale for investigating skin and soft tissue infections and AA amyloidosis among people who inject drugs in London. *Harm Reduction Journal*. 15(1):23

<https://pubmed.ncbi.nlm.nih.gov/29739408/>

Wright et al. (2020). Prevalence and severity of abscesses and cellulitis, and their associations with other health outcomes, in a community-based study of PWID in London. *PLOS One* 15(7):e0235350.

<https://pubmed.ncbi.nlm.nih.gov/32663203/>

Harris, M. (2020). Normalised pain and severe health care delay among people who inject drugs in London: Adapting cultural safety principles to promote care. *Social Science and Medicine*, 260:113183

<https://pubmed.ncbi.nlm.nih.gov/32682207/>

Harris M, Holland A. et al. (2022). Barriers to management of opioid withdrawal in hospitals in England: a document analysis of hospital policies on the management of substance dependence. *BMC Medicine* 20(151).

<https://bmcmmedicine.biomedcentral.com/articles/10.1186/s12916-022-02351-y>

If you go to hospital, delayed access to Opioid Substitution Treatment will make you unwell; increase the risk that you leave; worsen your condition and increase your risk of harm or death.

Delaying this person's essential medication (Opioid Substitution Therapy)

- Will make them unwell
- Increase the risk that they will leave against your advice
- Worsen their condition
- Increase their risk of harm or death.

Please treat this person with respect and dignity. They are here today for help.

Rapid access to OST is recommended by the National Guidelines on Clinical Management of Drug Misuse and Dependence.

IF YOU NEED TO GO TO HOSPITAL AND ARE ON OPIOID SUBSTITUTION TREATMENT

**CARRY THE CARD**

Rapid access to Opioid Substitution Treatment is recommended by The National Guidelines on Clinical Management of Drug Misuse and Dependence

[www.carrythecard.org.uk](http://www.carrythecard.org.uk)

# Acknowledgements



## **The IHOST team:**

Vivian Hope, Liverpool John Moores University; Jenny Scott, University of Bath; Michael Brown, University College London Hospital (UCLH); Alistair Story, UCLH; Adrian Noctor, UCLH; Andrew Haywood, University College London (UCL); Dan Lewer, UCL; Ann Marie Morris, Royal Stoke University Hospital; Penny Lewthwaite, St James University Hospital; Rosalind Gittins, Humankind; Niamh Eastwood, Release; Sedona Sweeney, LSHTM; Adam Holland, University of Bristol.

**The Care & Prevent study** participants, participating drug treatment services & Research Assistants:  
Rachael Braithwaite & Talen Wright

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