

# Learning from deaths and Physical Health interventions

A review of findings from an analysis of inpatient deaths, September 2019-September 2022

10<sup>th</sup> March 2023

Analysis

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# Aims and objectives

Overall aim –

To **reduce deaths on mental health inpatient wards** due to preventable physical health causes and **improve physical health outcomes** of ELFT mental health inpatients

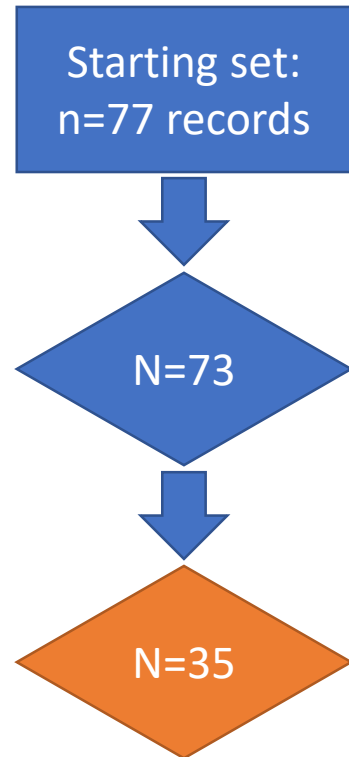
Objectives -

1. To assess the ***specific causes*** of deaths attributed to physical health, for the ELFT inpatient population, that occurred in the last **3 years** (from 1 September 2019 to 1 September 2022)
2. To make recommendations for prevention initiatives/interventions to improve physical health of mental health inpatients and reduce preventable physical health deaths on inpatient wards



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# Analysis approach



Starting extract from Datix – supplemented by data from SI reports, concise reviews, 48 hour reports etc – and input from the SI review and legal teams on definitive CoD

## **Exclusions at each step, and rationale for doing so:**

### Initial screening of records

- Duplicates removed (n=3)
- Extraneous records removed e.g. bystanders (n=1)

### Detailed analysis

- Deaths where definitive CoD either not available or inquest pending (n=18)
- Deaths where the incident occurred >7 days from discharge from ELFT ward (n=10)
- Deaths where definitive CoD not relevant to analysis (e.g. suicide) (n=10)

- Wide variations in documented CoD linked to physical health conditions among n=35 included cases
- **Underlying CoD\*** linked to:
  - Cardiovascular disease in n=15 cases (43%)
  - Type II diabetes in n=7 cases (20%)
  - Chronic respiratory disease in n=5 cases (14%)

COVID-19 was the documented CoD in n=4 cases (11%)

\* This was defined as a category 1b or 2 cause on the death certificate, rather than 1a.



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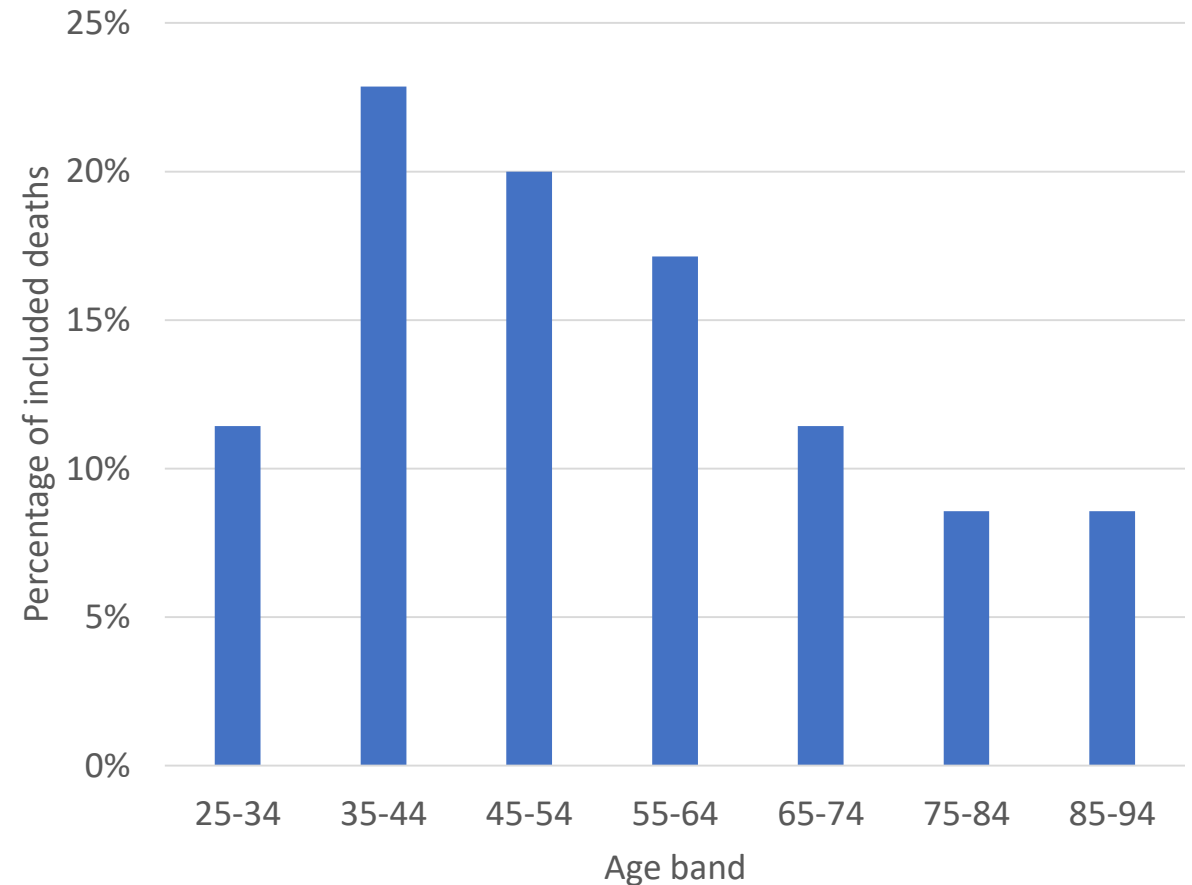
# Deaths among ELFT patients: broad overview

No clear trend in deaths over time discernible

Mortality profile for ELFT inpatients is **younger than would be expected in the general population**: median age at death = 54 years

The gender profile for deaths is slightly **skewed towards males**: 54%

**40% of deaths occurred among people of black or mixed and black ethnicity**: likely reflecting profile of inpatient admissions overall



# Co-morbidities and routine clinical care

- **Co-morbid disease in this population was common**, despite the young profile of the inpatient cohort:
  - 37% (n=13) had documented histories of cardiovascular disease
  - 34% had diabetes
  - 26% had chronic respiratory disease
  - 9% had cancer

**However**, investigations did not identify specific opportunities for improvement of routine care for these conditions among inpatients



# Risk factors for disease

- Risk factors for physical ill-health were common:
  - 43% of patients were either current smokers or had a past history of tobacco use
  - 43% had hypertension
  - 29% were currently excess alcohol consumers or had a past history of this
  - 29% either engaged in substance misuse around the time of death or had done so in the past
- Morbid obesity was **directly identified** as a contributory factor to poor outcomes following hospital admission in n=3 cases



Based on 2018-2020 data, people with SMI are nearly **5 times more likely to die prematurely** than those who do not have an SMI:

- 4 times more likely to die early due to cardiovascular disease than those who do not have an SMI
- Just over 6.5 times more likely to die early due to respiratory disease
- 6.5 times more likely to die early due to liver disease
- Just over 2 times more likely to die early due to cancer

Risk factors such as **tobacco use** are more prevalent in people with an SMI compared to the general population:

- In 2014/15, smoking prevalence in all adults (aged 18+) was 16.4%\* vs 40.5% among those with SMI

Source: Excess under 75 mortality rates in adults with serious mental illness 2018 to 2020 England, May 2022

[https://files.digital.nhs.uk/CC/287C9F/SMI\\_Excess\\_mortality\\_2018\\_20.pdf](https://files.digital.nhs.uk/CC/287C9F/SMI_Excess_mortality_2018_20.pdf) Accessed 7/2/2023

<https://www.gov.uk/government/publications/health-matters-smoking-and-mental-health/health-matters-smoking-and-mental-health>

\*this has fallen to 13.3% in 2021 (ONS 2021)



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# Common care issues identified

- Among those cases for which further investigations were carried out, the two most common care issues identified (relating to physical health) were:
- **Monitoring: identified as an area for learning in n=16 (46%) of the deaths** and spanned issues including:
  - Adherence to monitoring plans
  - The frequency of observations especially for patients on enhanced monitoring
  - Readiness of availability of monitoring equipment
- **CPR and resus problems: arising in n=6 (17%) of the deaths**, and spanned issues including:
  - The timeliness/speed of initiation of CPR for patients who had collapsed on the ward
  - Staff training/competency to perform CPR (BLS vs ILS training)
  - Ease of use of resus equipment

VTE Policy:

All Patients to have a screening risk for Venous thrombosis embolism within 14 hours of admission and VTE assessment carried out as required and recorded on RIO Patient electronic template under Physical Health. <https://www.nice.org.uk/guidance/qs201>

Nutrition and Fluid Management policy see Intranet



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Inpatient deaths at ELFT occurred predominantly among younger patients, and a disproportionate (relative to the general population) number occurred among those of black or black-mixed ethnicity;

Co-morbid health conditions and risk factors for disease were common – but no causal links to inpatient care of physical conditions identified through the analysis or SI review;

This cohort likely represent the extreme end of the risk spectrum for physical ill-health among ELFT patients - opportunities for population-wide prevention likely greater among moderate risk cohort;

Next steps could include:

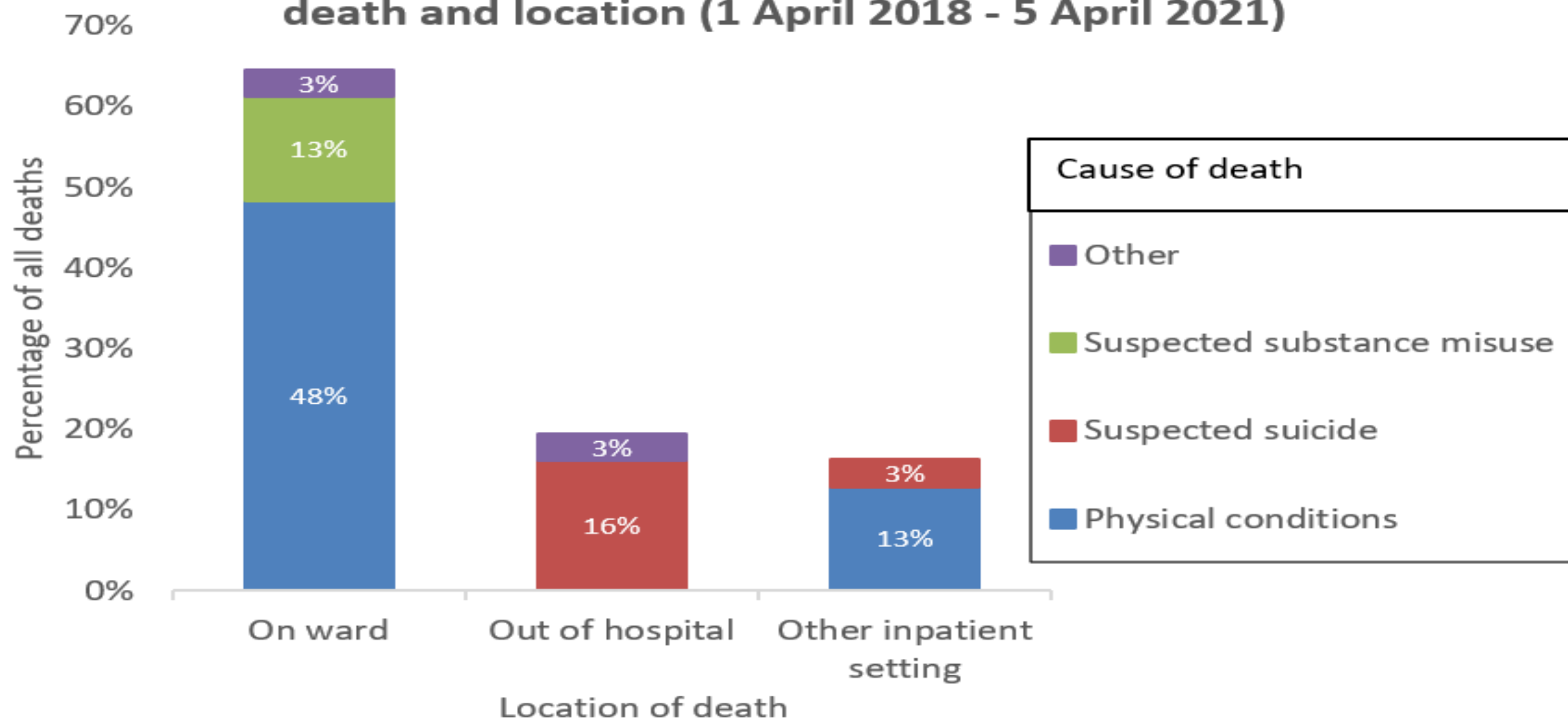
- Strengthened training and support for on-ward monitoring and CPR
- Strengthening primary and secondary prevention work: referrals to stop smoking service, action on healthier lifestyles (diet, physical exercise and substance misuse) as part of recovery

*There is also potential for early intervention to maintain and improve the physical health of people with severe mental illness and learn from deaths and 'Serious Incidents'*

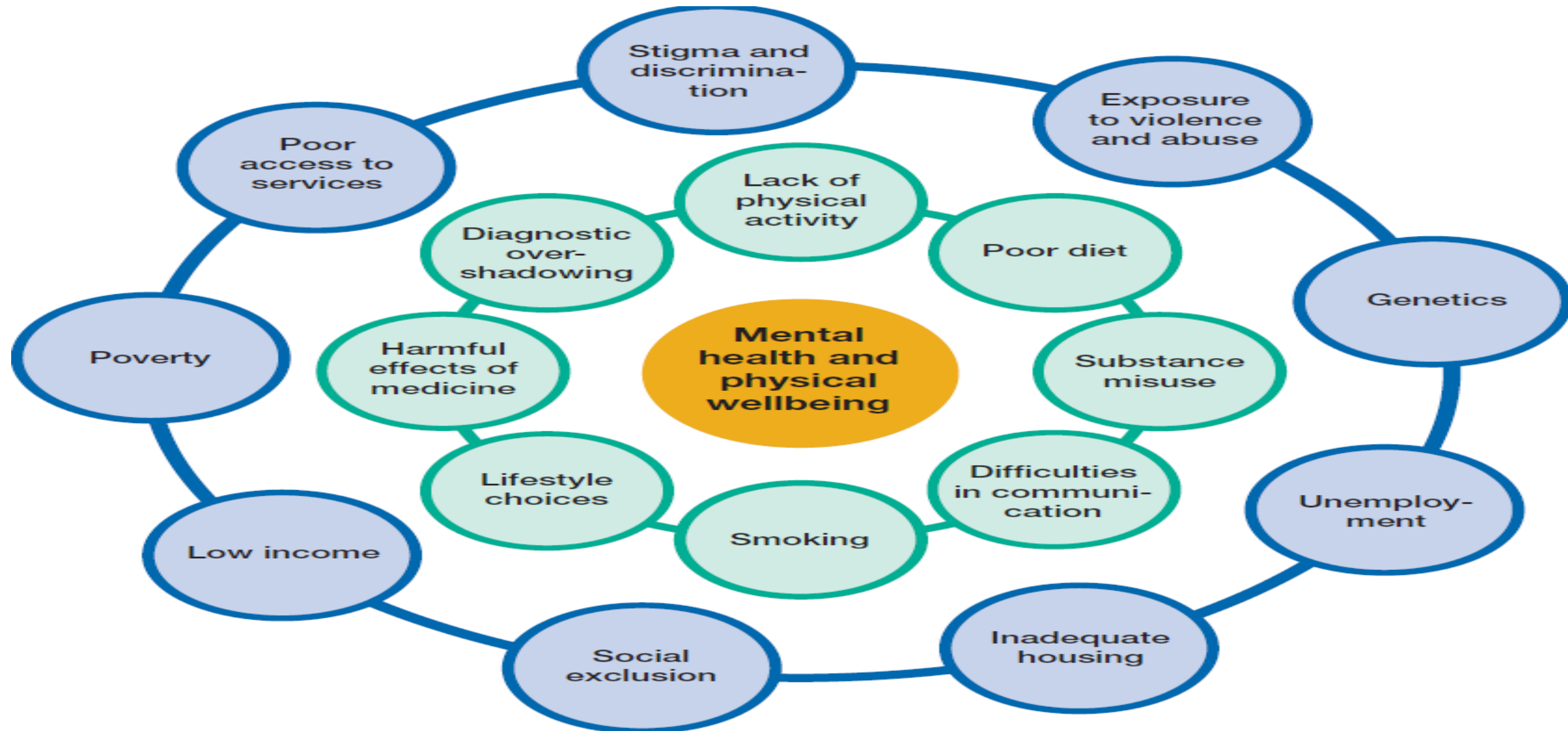
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- ❖ People with severe mental illness have a life expectancy up to 20 years lower than the general population
- ❖ Research has shown that mental health conditions with the greatest increases in risk for all-cause mortality in comparison with the general population are substance misuse, anorexia nervosa, and schizophrenia
- ❖ ***Previous analysis 1<sup>st</sup> April to 5<sup>th</sup> April 21 by ELFT Public Health Team. Showed similar results as below*** ELFT Physical conditions were the commonest cause of death (61%), followed by suspected suicide (19%) and suspected substance misuse (13%).
- ❖ 65% of the deaths occurred on the mental health ward, 19% occurred out of hospital (absent, on leave or within seven days of discharge) and 16% occurred elsewhere in hospital following a transfer to an acute hospital/ward.

## Percentage of mental health inpatient deaths by cause of death and location (1 April 2018 - 5 April 2021)



# Patient and environmental factors in Mental Health



## Assess

- Use a person centred approach to assess the individual's current physical health
- Listen to the person, their preferences and concerns
- Identify what is important to the person, how they live their life and what they want to change
- Acknowledge and address the individual's fears and anxieties
- Use an appropriate physical assessment tool

## Plan

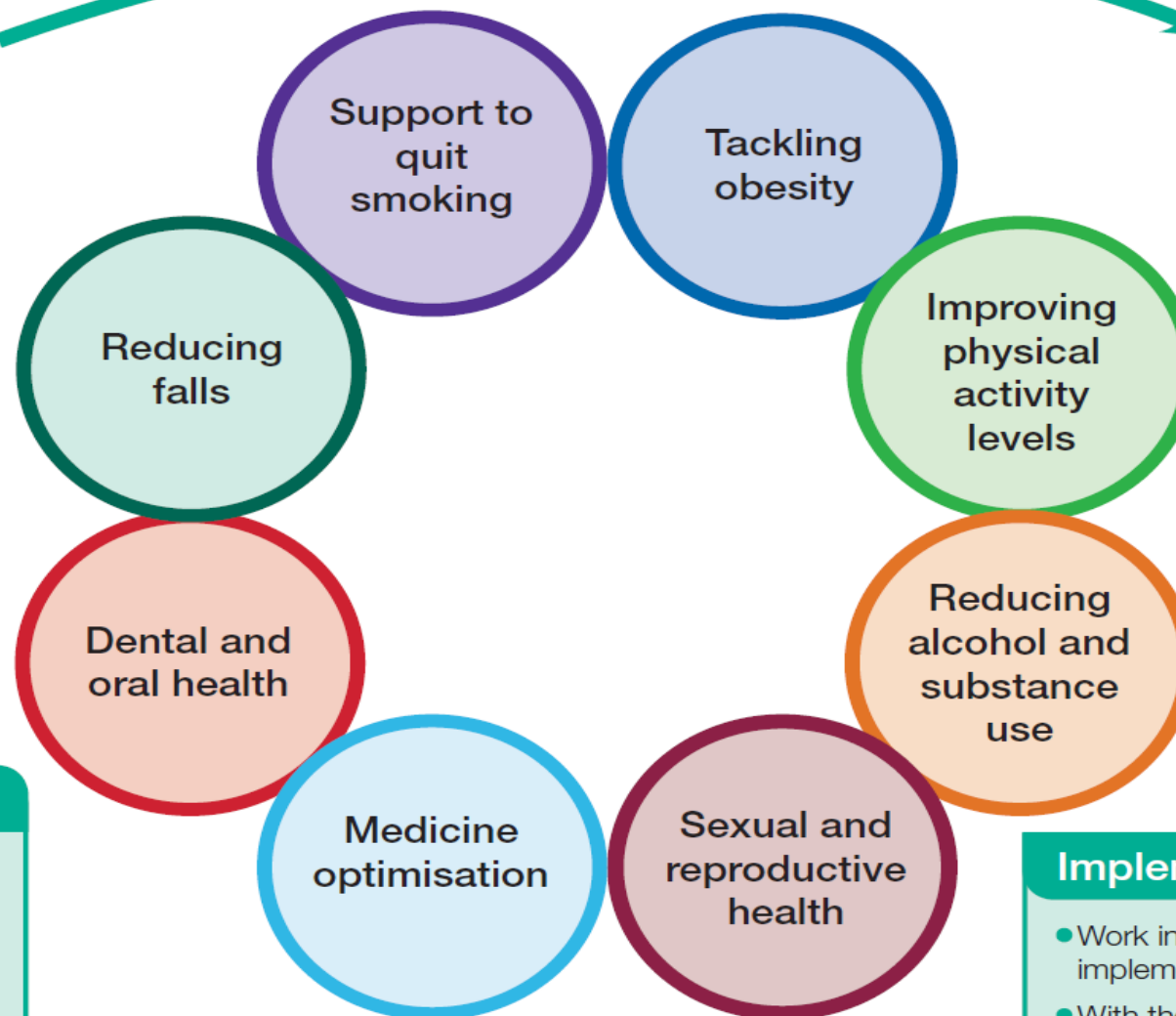
- Work with the individual to create a shared care plan for improving their physical health and wellbeing
- Identify key goals and aspirations, set dates and times that are realistic and manageable for achieving measurable outcomes
- Identify local health, social care and/or voluntary services that can provide particular types of support
- With the person's consent, work in partnership with other healthcare professionals to promote equal access to all appropriate healthcare
- Agree what will be in the care plan and give a copy to the individual

## Implement

- Work in a person centred, integrated, holistic way to implement the plan of care
- With the person's consent, involve carers and other healthcare professionals if appropriate
- Make sure the individual receives treatment for their physical health problems
- Use the activities to achieve change outlined under each action area

## Evaluate

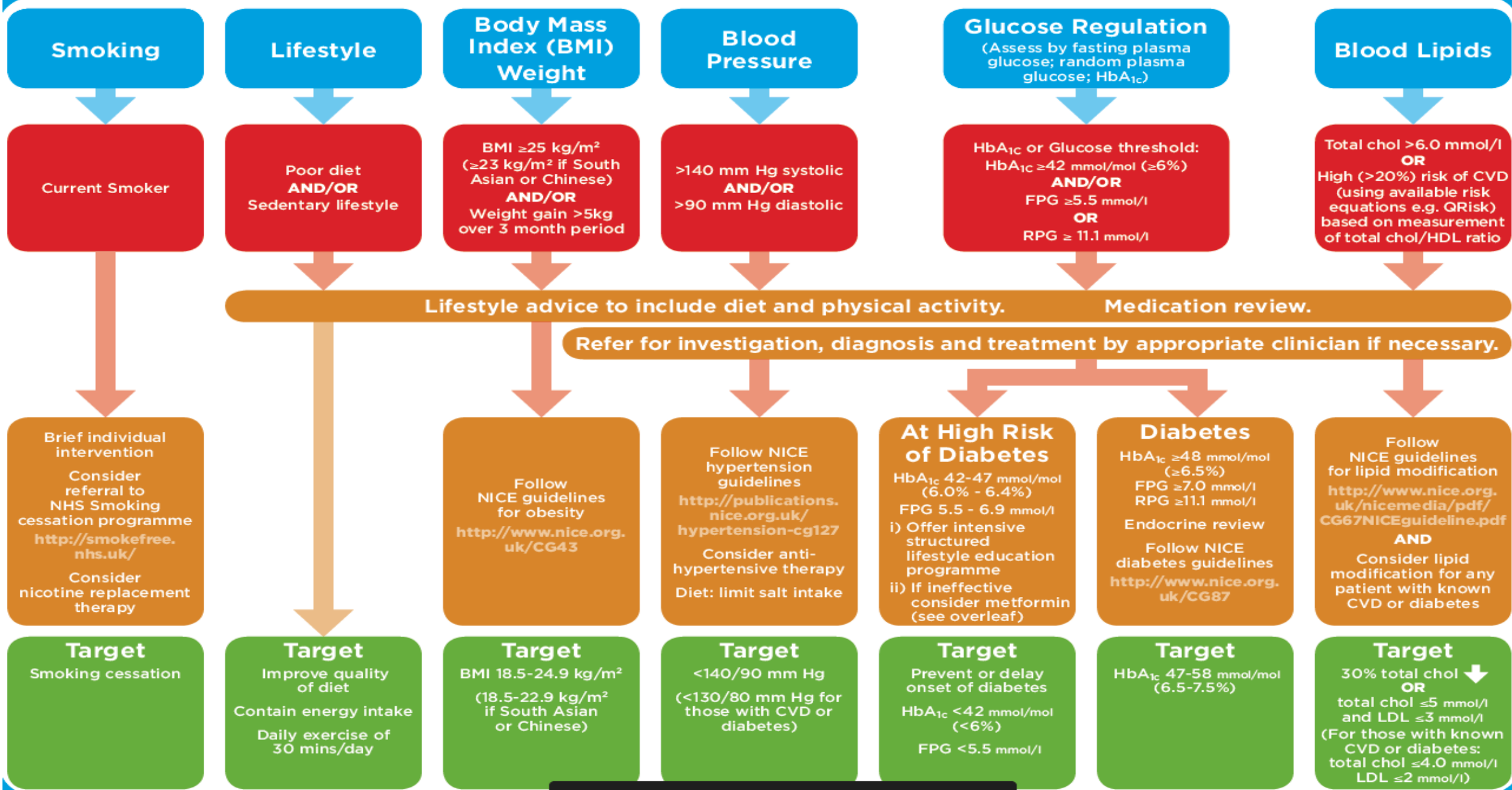
- Monitor and review progress with the individual and refine and adjust care plans if necessary
- Discuss and record outcomes of specific actions and interventions with the individual
- Gather evidence on the impact of any changes, for example by repeating assessment tool measures
- Review priorities and action areas and negotiate with the individual to update





# Positive Cardiometabolic Health Resource

An intervention framework for patients with psychosis on antipsychotic medication



**Resources;**

Physical Health policy link

<https://www.elft.nhs.uk/sites/default/files/Physical%20Healthcare%20Policy%2014.1.pdf>

Please also see Intranet for Nutrition, Venous Thrombosis Embolism, Resuscitation Medical Devices and Infection policies.

Please see **Rio electronic record** assessment tools for VTE , DNACPR and Vulnerability alerts, plus News 2 scoring , Diabetes monitoring, Nutrition monitoring /screening and Physical Health assessments.

<https://www.england.nhs.uk/mentalhealth/wp-content/uploads/sites/29/2016/05/serious-mental-hlth-toolkit-may16.pdf>

[https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\\_data/file/532253/JRA Physical Health revised.pdf](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/532253/JRA_Physical_Health_revised.pdf)

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Rio electronic patient record, NEWS 2, VTE, forms and referrals as appropriate.

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ELFT is an NHSE national pilot site for reducing smoking among mental health inpatients [elft.stopsmoking@nhs.net](mailto:elft.stopsmoking@nhs.net) and will now offer post discharge support.