

Myocardial infarction with ST-segment elevation: acute management

Clinical guideline

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[nice.org.uk/guidance/cg167](https://www.nice.org.uk/guidance/cg167)

Your responsibility

The recommendations in this guideline represent the view of NICE, arrived at after careful consideration of the evidence available. When exercising their judgement, professionals and practitioners are expected to take this guideline fully into account, alongside the individual needs, preferences and values of their patients or the people using their service. It is not mandatory to apply the recommendations, and the guideline does not override the responsibility to make decisions appropriate to the circumstances of the individual, in consultation with them and their families and carers or guardian.

Local commissioners and providers of healthcare have a responsibility to enable the guideline to be applied when individual professionals and people using services wish to use it. They should do so in the context of local and national priorities for funding and developing services, and in light of their duties to have due regard to the need to eliminate unlawful discrimination, to advance equality of opportunity and to reduce health inequalities. Nothing in this guideline should be interpreted in a way that would be inconsistent with complying with those duties.

Commissioners and providers have a responsibility to promote an environmentally sustainable health and care system and should assess and reduce the environmental impact of implementing NICE recommendations wherever possible.

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This guideline is the basis of QS68.

Introduction

ST-segment-elevation myocardial infarction (STEMI) occurs when a coronary artery becomes blocked by a blood clot, causing the heart muscle supplied by the artery to die. It belongs to a group of heart conditions known as acute coronary syndromes.

The incidence of STEMI has been declining over the past 20 years. It varies between regions and averages around 500 hospitalised episodes per million people each year in the UK. The London Ambulance Service attended 9657 cardiac arrests in 2011–12 for a population of around 8.2 million people (1177 per million people). Most of these will have been attributed to acute coronary syndromes, so the overall population prevalence of STEMI is likely to be in the region of 750–1250 per million people. Over the past 30 years, in-hospital mortality after acute coronary syndromes has fallen from around 20% to nearer 5%. This has been attributed to various factors, including improved drug therapy and speed of access to effective treatments.

Nearly half of potentially salvageable myocardium is lost within 1 hour of the coronary artery being occluded, and two-thirds are lost within 3 hours. Apart from resuscitation from any cardiac arrest, the highest priority in managing STEMI is to restore an adequate coronary blood flow as quickly as possible. In the 1980s and 1990s, the best way to restore flow was to administer a fibrinolytic drug.

The UK introduced a comprehensive system for delivering fibrinolysis after publication of the Department of Health's [National Service Framework for Coronary Heart Disease](#). However, fibrinolysis was not suitable for use in some people because of bleeding complications. In around 20–30% of people, fibrinolysis failed to result in coronary reperfusion, and in a few (1.0%) it caused haemorrhagic stroke. To improve outcomes, attention turned to mechanical techniques to restore coronary flow (for example, coronary angioplasty, thrombus extraction catheters and stenting), which are grouped under the overarching term primary percutaneous coronary intervention (primary PCI).

The [National Infarct Angioplasty Project](#) concluded that primary PCI is both feasible and cost effective, and that it should become the treatment of choice for STEMI, provided it could be delivered 'in a timely fashion'.

Primary PCI 'timeliness' is a key part of this guideline. This is addressed in detail, so commissioners and professionals delivering services for people with STEMI can plan their configuration in such a way that outcomes are optimal. This guideline also covers procedural primary PCI issues, the use of antiplatelet and antithrombin agents, and improving outcomes for the minority of people still receiving fibrinolysis.

The recommendations in this guideline relate only to people with a diagnosis of STEMI. [Chest pain of recent onset](#) (NICE clinical guideline 95) covers the diagnosis of STEMI and should be read in conjunction with this guideline. The guideline will assume that prescribers will use a drug's summary of product characteristics to inform decisions made with individual patients.

Patient-centred care

This guideline offers best practice advice on the care of adults (18 years or older) with spontaneous onset of myocardial infarction with ST-segment elevation (STEMI).

Patients and healthcare professionals have rights and responsibilities as set out in the [NHS Constitution for England](#) – all NICE guidance is written to reflect these. Treatment and care should take into account individual needs and preferences. Patients should have the opportunity to make informed decisions about their care and treatment, in partnership with their healthcare professionals. If someone does not have the capacity to make decisions, healthcare professionals should follow the [Department of Health's advice on consent](#), the [code of practice that accompanies the Mental Capacity Act](#) and the [supplementary code of practice on deprivation of liberty safeguards](#). In Wales, healthcare professionals should follow [advice on consent from the Welsh Government](#).

NICE has produced guidance on the components of good patient experience in adult NHS services. All healthcare professionals should follow the recommendations in [Patient experience in adult NHS services](#).

Key priorities for implementation

The following recommendations have been identified as priorities for implementation:

- Immediately assess eligibility (irrespective of age, ethnicity or sex) for coronary reperfusion therapy (either primary percutaneous coronary intervention [PCI] or fibrinolysis) in people with acute ST-elevation myocardial infarction (STEMI).
- Do not use level of consciousness after cardiac arrest caused by suspected acute STEMI to determine whether a person is eligible for coronary angiography (with follow-on primary PCI if indicated).
- Deliver coronary reperfusion therapy (either primary PCI or fibrinolysis) as quickly as possible for eligible people with acute STEMI.
- Offer coronary angiography, with follow-on primary PCI if indicated, as the preferred coronary reperfusion strategy for people with acute STEMI if:
 - presentation is within 12 hours of onset of symptoms and
 - primary PCI can be delivered within 120 minutes of the time when fibrinolysis could have been given.
- Offer fibrinolysis to people with acute STEMI presenting within 12 hours of onset of symptoms if primary PCI cannot be delivered within 120 minutes of the time when fibrinolysis could have been given.
- Consider coronary angiography, with follow-on primary PCI if indicated, for people with acute STEMI presenting more than 12 hours after the onset of symptoms if there is evidence of continuing myocardial ischaemia.
- Offer coronary angiography, with follow-on primary PCI if indicated, to people with acute STEMI and cardiogenic shock who present within 12 hours of the onset of symptoms of STEMI.
- Offer an electrocardiogram to people treated with fibrinolysis, 60–90 minutes after administration. For those who have residual ST-segment elevation suggesting failed coronary reperfusion:
 - offer immediate coronary angiography, with follow-on PCI if indicated
 - do not repeat fibrinolytic therapy.

- If a person has recurrent myocardial ischaemia after fibrinolysis, seek immediate specialist cardiological advice and, if appropriate, offer coronary angiography, with follow-on PCI if indicated.
- When commissioning primary PCI services for people with acute STEMI, be aware that outcomes are strongly related to how quickly primary PCI is delivered, and that they can be influenced by the number of procedures carried out by the primary PCI centre.

1 Recommendations

The following guidance is based on the best available evidence. The [full guideline](#) gives details of the methods and the evidence used to develop the guidance.

The wording used in the recommendations in this guideline (for example, words such as 'offer' and 'consider') denotes the certainty with which the recommendation is made (the strength of the recommendation). See [About this guideline](#) for details.

'Presentation' is used in this guideline to mean the time of first contact with healthcare services (either with the ambulance service or arrival at hospital if the person self-presents to the emergency department).

1.1 Recommendations

- 1.1.1 Immediately assess eligibility (irrespective of age, ethnicity or sex) for coronary reperfusion therapy (either primary percutaneous coronary intervention [PCI] or fibrinolysis) in people with acute ST-elevation myocardial infarction (STEMI).
- 1.1.2 Do not use level of consciousness after cardiac arrest caused by suspected acute STEMI to determine whether a person is eligible for coronary angiography (with follow-on primary PCI if indicated).
- 1.1.3 Deliver coronary reperfusion therapy (either primary PCI or fibrinolysis) as quickly as possible for eligible people with acute STEMI.
- 1.1.4 Offer coronary angiography, with follow-on primary PCI if indicated, as the preferred coronary reperfusion strategy for people with acute STEMI if:
 - presentation is within 12 hours of onset of symptoms and
 - primary PCI can be delivered within 120 minutes of the time when fibrinolysis could have been given.
- 1.1.5 Offer fibrinolysis to people with acute STEMI presenting within 12 hours of onset of symptoms if primary PCI cannot be delivered within 120 minutes of the time when fibrinolysis could have been given.
- 1.1.6 When treating people with fibrinolysis, give an antithrombin at the same time.

- 1.1.7 Offer medical therapy to people with acute STEMI who are ineligible for reperfusion therapy.
- 1.1.8 Consider coronary angiography, with follow-on primary PCI if indicated, for people with acute STEMI presenting more than 12 hours after the onset of symptoms if there is evidence of continuing myocardial ischaemia.
- 1.1.9 Do not offer routine glycoprotein IIb/IIIa inhibitors or fibrinolytic drugs before arrival at the catheter laboratory to people with acute STEMI for whom primary PCI is planned.
- 1.1.10 Offer coronary angiography, with follow-on primary PCI if indicated, to people with acute STEMI and cardiogenic shock who present within 12 hours of the onset of symptoms of STEMI.
- 1.1.11 Consider coronary angiography, with a view to coronary revascularisation if indicated, for people with acute STEMI who present more than 12 hours after the onset of symptoms and who have cardiogenic shock or go on to develop it.
- 1.1.12 Offer unfractionated heparin or low molecular weight heparin to people with acute STEMI who are undergoing primary PCI and have been treated with prasugrel or ticagrelor.
- 1.1.13 Consider thrombus aspiration during primary PCI for people with acute STEMI.
- 1.1.14 Do not routinely use mechanical thrombus extraction during primary PCI for people with acute STEMI.
- 1.1.15 Consider radial (in preference to femoral) arterial access for people undergoing coronary angiography (with follow-on primary PCI if indicated).
- 1.1.16 Offer an electrocardiogram to people treated with fibrinolysis, 60–90 minutes after administration. For those who have residual ST-segment elevation suggesting failed coronary reperfusion:
- offer immediate coronary angiography, with follow-on PCI if indicated
 - do not repeat fibrinolytic therapy.

- 1.1.17 If a person has recurrent myocardial ischaemia after fibrinolysis, seek immediate specialist cardiological advice and, if appropriate, offer coronary angiography, with follow-on PCI if indicated.
- 1.1.18 Consider coronary angiography during the same hospital admission for people who are clinically stable after successful fibrinolysis.
- 1.1.19 Offer people who have had an acute STEMI written and oral information, advice, support and treatment on related conditions and secondary prevention (including lifestyle advice), as relevant, in line with published NICE guidance (see table 1).

Table 1 Related NICE guidance for people who have had an acute STEMI

Topic	NICE guidance
Lifestyle issues	
Smoking cessation	Smoking cessation services Brief interventions and referral for smoking cessation
Diet, weight management and exercise	Four commonly used methods to increase physical activity
Related conditions	
Lipid modification and statin therapy	Identification and management of familial hypercholesterolaemia Lipid modification: cardiovascular risk assessment and the modification of blood lipids for the primary and secondary prevention of cardiovascular disease Statins for the prevention of cardiovascular events
Prevention, diagnosis and management of diabetes	Type 2 diabetes: the management of type 2 diabetes Type 1 diabetes: diagnosis and management of type 1 diabetes in children, young people and adults
Prevention, diagnosis and management of high blood pressure	Hypertension: clinical management of primary hypertension in adults

Hyperglycaemia management in acute coronary syndromes	Hyperglycaemia in acute coronary syndromes: management of hyperglycaemia in acute coronary syndromes
MI secondary prevention	MI – secondary prevention: secondary prevention in primary and secondary care for patients following a myocardial infarction
General guidance	
Patient experience	Patient experience in adult NHS services: improving the experience of care for people using adult NHS services
Medicines adherence	Medicines adherence: involving patients in decisions about prescribed medicines and supporting adherence

- 1.1.20 When commissioning primary PCI services for people with acute STEMI, be aware that outcomes are strongly related to how quickly primary PCI is delivered, and that they can be influenced by the number of procedures carried out by the primary PCI centre.

1.2 *Recommendations incorporated from NICE technology appraisal guidance*

This guideline incorporates NICE technology appraisal guidance 236 (TA236) on ticagrelor for the treatment of acute coronary syndromes and TA230 on bivalirudin for the treatment of STEMI within their current licensed indications. Guidance on prasugrel for the treatment of acute coronary syndromes has not been incorporated in this guideline because this technology appraisal is currently scheduled for update. For further information about this appraisal please see the [NICE website](#).

- 1.2.1 Ticagrelor in combination with low-dose aspirin is recommended for up to 12 months as a treatment option in people with STEMI – defined as ST elevation or new left bundle branch block on electrocardiogram – that cardiologists intend to treat with primary PCI. [This recommendation is adapted from [Ticagrelor for the treatment of acute coronary syndromes](#) (NICE technology appraisal guidance 236).]
- 1.2.2 Bivalirudin in combination with aspirin and clopidogrel is recommended for the treatment of adults with STEMI undergoing primary PCI. [This recommendation

is from Bivalirudin for the treatment of ST-segment-elevation myocardial infarction (NICE technology appraisal guidance 230).]

2 Research recommendations

The Guideline Development Group has made the following recommendations for research, based on its review of evidence, to improve NICE guidance and patient care in the future.

2.1 *Primary PCI and fibrinolysis in people with acute STEMI who present very early*

If a person with acute STEMI presents within 1 hour of the onset of symptoms, is it better for that person to be given fibrinolysis with a short call to needle time rather than to be transferred to a centre that carries out primary PCI for primary PCI with a delay of up to 120 minutes?

Why this is important

Fibrinolytic drugs are administered intravenously and can be given out of hospital by an ambulance crew or in the emergency department of a hospital. Benefit from fibrinolysis declines significantly with time from onset of symptoms. Primary PCI, on the other hand, requires transfer to an interventional cardiology service, which inevitably delays the start of reperfusion treatment. Regardless of the reperfusion method used, delays to treatment are associated with an increased risk of impaired left ventricular systolic function and death.

It is unclear whether people with acute STEMI with a very short presentation delay would benefit more from immediate fibrinolysis (usually pre-hospital for people who do not self-present to hospital emergency departments) compared with transfer to a centre that carries out primary PCI.

To answer this question, a randomised controlled trial of pre-hospital fibrinolysis versus primary PCI in people with acute STEMI who have a short presentation delay of 1 hour or less is needed. Primary end points would include cardiovascular and all-cause mortality and other major adverse cardiovascular events. The [STREAM study](#) has recruited people who present early (less than 3 hours from onset of symptoms), and those presenting very early (less than 1 hour) could be analysed as a subgroup. However, it is not known whether this cohort will be big enough to allow a statistically significant conclusion to be drawn.

2.2 *Primary PCI and fibrinolysis in people with acute STEMI who have a long anticipated transfer time for primary PCI*

In people with acute STEMI who present more than 1 hour after the onset of symptoms, is a primary PCI-related delay of 120–180 minutes associated with outcomes similar to, better or worse than pre-hospital administered fibrinolysis?

Why this is important

Primary PCI is the preferred coronary reperfusion therapy provided it can be delivered 'in a timely fashion'. It is suggested that primary PCI is the preferred reperfusion strategy for primary PCI-related delays of at least up to 2 hours. However, there is inadequate evidence to conclude whether primary PCI is still preferable at primary PCI-related time delays of more than 2 hours.

No specifically designed randomised controlled trial or observational study has addressed the issue of the extent to which primary PCI-related time delay (and other factors such as presentation delay and a person's risk profile) diminishes the advantages of primary PCI over fibrinolysis. For example, in more geographically remote areas, a short presentation delay together with an anticipated long primary PCI-related delay could favour a strategy of pre-hospital fibrinolysis.

To answer this question, a randomised controlled trial of pre-hospital fibrinolysis versus primary PCI in people with acute STEMI who have a primary PCI-related time delay of 2 hours or more is needed. Primary end points would include cardiovascular and all-cause mortality and other major adverse cardiovascular events.

2.3 *Radial arterial access primary PCI versus femoral arterial access primary PCI*

What is the clinical and cost effectiveness of radial arterial access compared with femoral arterial access for coronary angiography or primary PCI in people with acute STEMI managed by primary PCI?

Why this is important

There is no current evidence that demonstrates if there is a mortality difference between radial arterial access primary PCI compared with femoral arterial access primary PCI. It is unclear if operator experience has influenced current evidence. Operators may need additional training if 1 approach was shown to be superior. A randomised controlled trial comparing the 2 interventions

for longer-term outcomes of all-cause mortality and major adverse cardiovascular events would answer the question. The trial would need to address the impact of operator expertise on the clinical outcomes. In addition, the need for operator training could be informed by an observational study that looked at the effectiveness and impact on clinical outcomes of experienced radial operators primarily using the radial approach versus experienced femoral operators primarily using the femoral approach including closure devices. The study would need a sufficient number of participants to enable differences in outcomes to be detected.

2.4 *Culprit vessel primary PCI versus multivessel PCI*

Does multivessel PCI, at the time of presentation of people with acute STEMI, confer an advantage over a strategy of 'culprit vessel only' primary PCI, followed by further elective revascularisation driven by symptoms and evidence of ischaemia?

Why this is important

One-third of people presenting with STEMI have multivessel coronary artery disease at the time of presentation. Currently, there is uncertainty about whether to initially treat only the vessel likely to have caused the presentation or whether to treat all significant lesions. Most of the current evidence that examines 'culprit vessel only' primary PCI versus multivessel PCI in these people comes from studies that are underpowered or non-randomised. Answering this question would clarify the appropriate revascularisation strategy for this patient group. A randomised controlled trial powered to examine all-cause mortality and major adverse cardiovascular events with a 5-year follow-up would be the optimum design.

2.5 *Relationship between volume of procedures and clinical outcomes*

What is the relationship between hospital volume of primary PCI procedures and optimal outcomes in people with acute STEMI?

Why this is important

There is a suggestion that outcomes may be better in larger-volume primary PCI units, and some retrospective registries have reported data to support this. However, the quality of the data is poor and still leaves the question open. In the UK, primary PCI is provided by units that vary greatly in the number of cases per year. The development of services has been ad hoc and not designed specifically around the provision of primary PCI. If it was possible to conclusively show that people were or were not better off being treated in larger volume units, then it would have important implications for the national provision of primary PCI.

3 Other information

3.1 *Scope and how this guideline was developed*

NICE guidelines are developed in accordance with a [scope](#) that defines what the guideline will and will not cover.

How this guideline was developed

NICE commissioned the National Clinical Guideline Centre to develop this guideline. The Centre established a Guideline Development Group (see [section 4](#)), which reviewed the evidence and developed the recommendations.

The methods and processes for developing NICE clinical guidelines are described in [The guidelines manual](#).

3.2 *Related NICE guidance*

Details are correct at the time of publication of the guideline (July 2013). Further information is available on the [NICE website](#).

Published

General

- [Patient experience in adult NHS services](#). NICE clinical guidance 138 (2012).
- [Medicines adherence](#). NICE clinical guidance 76 (2009).

Condition-specific

- [Hyperglycaemia in acute coronary syndromes](#). NICE clinical guideline 130 (2011).
- [Ticagrelor for the treatment of acute coronary syndromes](#). NICE technology appraisal guidance 236 (2011).
- [Bivalirudin for the treatment of ST-segment-elevation myocardial infarction](#). NICE technology appraisal guidance 230 (2011).
- [Hypertension \(update\)](#). NICE clinical guideline 127 (2011).
- [Stable angina](#). NICE clinical guideline 126 (2011).

- [Off-pump coronary artery bypass grafting](#). NICE interventional procedure guidance 377 (2011).
- [Prevention of cardiovascular disease](#). NICE public health guidance 25 (2010).
- [Chest pain of recent onset](#). NICE clinical guideline 95 (2010).
- [Unstable angina and NSTEMI](#). NICE clinical guideline 94 (2010).
- [Clopidogrel and modified-release dipyridamole for the prevention of occlusive vascular events](#). NICE technology appraisal guidance 210 (2010).
- [Prasugrel for the treatment of acute coronary syndromes with percutaneous coronary intervention](#). NICE technology appraisal guidance 182 (2009).
- [Smoking cessation services](#). NICE public health guidance 10 (2008).
- [Familial hypercholesterolaemia](#). NICE clinical guideline 71 (2008).
- [Drug-eluting stents for the treatment of coronary artery disease](#). NICE technology appraisal guidance 152 (2008).
- [Cardiac resynchronisation therapy for the treatment of heart failure](#). NICE technology appraisal guidance 120 (2007).
- [Implantable cardioverter defibrillators \(ICDs\) for arrhythmias](#). NICE technology appraisal guidance 95 (2006).
- [Statins for the prevention of cardiovascular events](#). NICE technology appraisal guidance 94 (2006).
- [Brief interventions and referral for smoking cessation in primary care and other settings](#). NICE public health guidance 1 (2006).
- [Myocardial perfusion scintigraphy for the diagnosis and management of angina and myocardial infarction](#). NICE technology appraisal guidance 73 (2003).
- [Guidance on the use of coronary artery stents](#). NICE technology appraisal guidance 71 (2003).
- [Guidance on the use of drugs for early thrombolysis in the treatment of acute myocardial infarction](#). NICE technology appraisal guidance 52 (2002).
- [Guidance on the use of glycoprotein IIb/IIIa inhibitors in the treatment of acute coronary syndromes](#). NICE technology appraisal guidance 47 (2002).

Under development

NICE is developing the following guidance (details available from the [NICE website](#)):

- [Acute coronary syndrome – rivaroxaban](#). NICE technology appraisal guidance. Publication expected March 2015.
- [MI – secondary prevention \(update\)](#). NICE clinical guideline. Publication expected November 2013.
- [Prasugrel for the treatment of acute coronary syndromes with percutaneous coronary intervention \(update\)](#). NICE technology appraisal guidance. Publication expected August 2014.
- [Lipid modification \(update\)](#). NICE clinical guideline. Publication expected July 2014.

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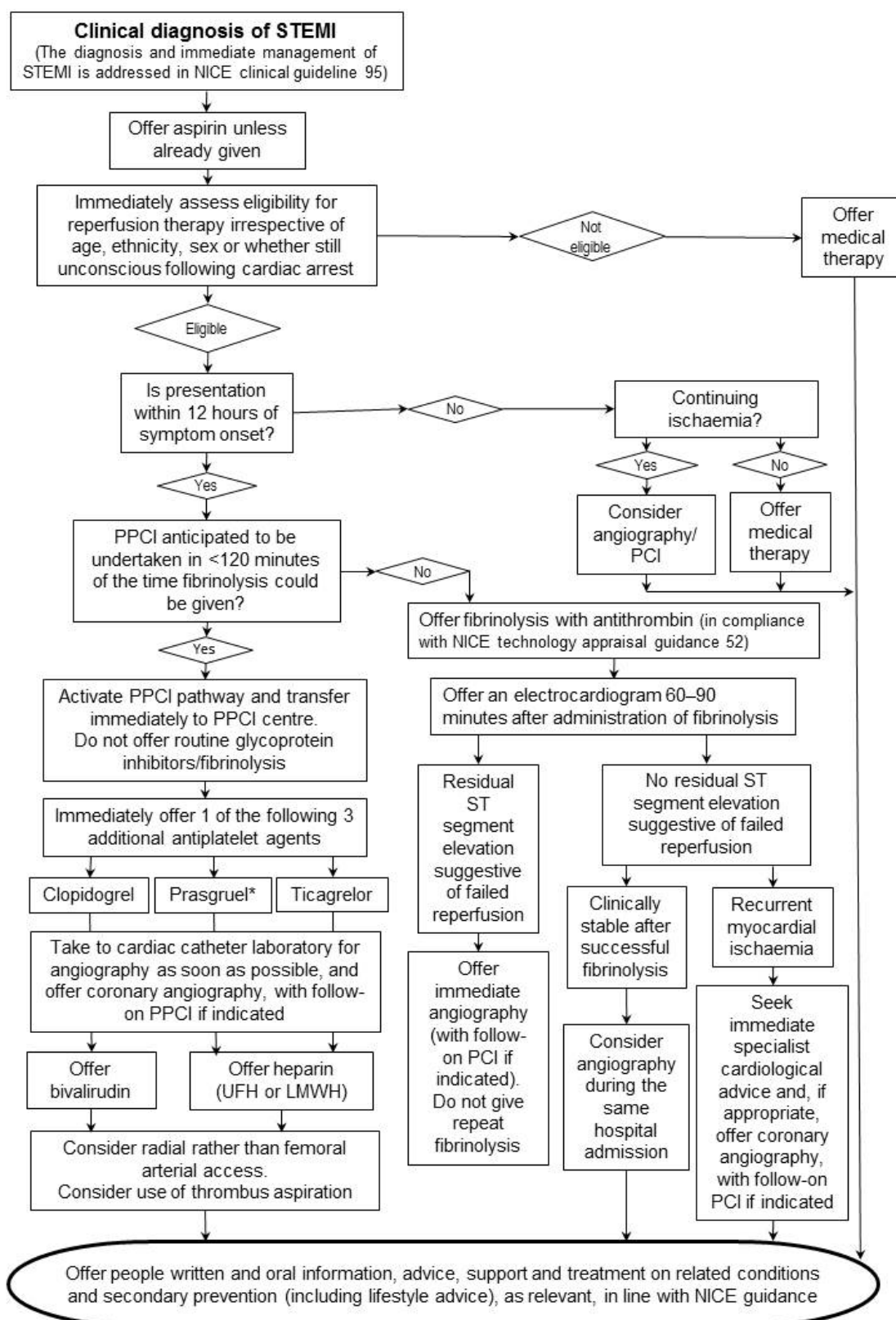
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Appendix A: Algorithm



LMWH, low molecular weight heparin; PCI, percutaneous coronary intervention; PPCI; primary percutaneous coronary intervention; UFH, unfractionated heparin

*At the time of publication prasugrel for the treatment of acute coronary syndromes with percutaneous coronary intervention (TA182) was referred to be updated.

About this guideline

NICE clinical guidelines are recommendations about the treatment and care of people with specific diseases and conditions in the NHS in England and Wales.

NICE guidelines are developed in accordance with a [scope](#) that defines what the guideline will and will not cover.

This guideline was developed by the National Clinical Guideline Centre, which is based at the Royal College of Physicians. The Centre worked with a Guideline Development Group, comprising healthcare professionals (including consultants, GPs and nurses), patients and carers, and technical staff, which reviewed the evidence and drafted the recommendations. The recommendations were finalised after public consultation.

The methods and processes for developing NICE clinical guidelines are described in [The guidelines manual](#).

Strength of recommendations

Some recommendations can be made with more certainty than others. The Guideline Development Group makes a recommendation based on the trade-off between the benefits and harms of an intervention, taking into account the quality of the underpinning evidence. For some interventions, the Guideline Development Group is confident that, given the information it has looked at, most patients would choose the intervention. The wording used in the recommendations in this guideline denotes the certainty with which the recommendation is made (the strength of the recommendation).

For all recommendations, NICE expects that there is discussion with the patient about the risks and benefits of the interventions, and their values and preferences. This discussion aims to help them to reach a fully informed decision (see also [Patient-centred care](#)).

Interventions that must (or must not) be used

We usually use 'must' or 'must not' only if there is a legal duty to apply the recommendation. Occasionally we use 'must' (or 'must not') if the consequences of not following the recommendation could be extremely serious or potentially life threatening.

Interventions that should (or should not) be used – a 'strong' recommendation

We use 'offer' (and similar words such as 'refer' or 'advise') when we are confident that, for the vast majority of patients, an intervention will do more good than harm, and be cost effective. We use similar forms of words (for example, 'Do not offer...') when we are confident that an intervention will not be of benefit for most patients.

Interventions that could be used

We use 'consider' when we are confident that an intervention will do more good than harm for most patients, and be cost effective, but other options may be similarly cost effective. The choice of intervention, and whether or not to have the intervention at all, is more likely to depend on the patient's values and preferences than for a strong recommendation, and so the healthcare professional should spend more time considering and discussing the options with the patient.

Other versions of this guideline

The full guideline, '[Myocardial infarction with ST-segment elevation](#)' contains details of the methods and evidence used to develop the guideline. It is published by the National Clinical Guideline Centre.

The recommendations from this guideline have been incorporated into a [NICE Pathway](#).

We have produced [information for the public](#) about this guideline.

Implementation

[Implementation tools and resources](#) to help you put the guideline into practice are also available.

Your responsibility

This guidance represents the view of NICE, which was arrived at after careful consideration of the evidence available. Healthcare professionals are expected to take it fully into account when exercising their clinical judgement. However, the guidance does not override the individual responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient, in consultation with the patient and/or guardian or carer, and informed by the summaries of product characteristics of any drugs.

Implementation of this guidance is the responsibility of local commissioners and/or providers. Commissioners and providers are reminded that it is their responsibility to implement the guidance, in their local context, in light of their duties to have due regard to the need to eliminate unlawful discrimination, advance equality of opportunity and foster good relations. Nothing in this guidance should be interpreted in a way that would be inconsistent with compliance with those duties.

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Accreditation

