

# NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE

## Health Technology Evaluation

### Aficamten for treating symptomatic obstructive hypertrophic cardiomyopathy [ID6575]

#### Final scope

##### Remit/evaluation objective

To appraise the clinical and cost effectiveness of aficamten within its marketing authorisation for treating symptomatic obstructive hypertrophic cardiomyopathy.

##### Background

Hypertrophic cardiomyopathy (HCM) is a genetic condition that is most often caused by a change or fault (or mutation) in one or more genes and is characterised by the thickening of the muscular wall of the heart (the myocardium). Thickening of the septum (the dividing wall between the left and the right side of the heart), resulting in reduced or restricted blood flow is classified as obstructive HCM. Most people with HCM may initially have few or no symptoms. However, the disease is progressive, and symptoms may develop or worsen at any age. Common symptoms of HCM include shortness of breath, chest pain, palpitations, light headedness, and fainting<sup>1</sup>. People with obstructive HCM can develop serious complications such as atrial fibrillation, heart failure, malignant ventricular arrhythmias, and sudden cardiac death<sup>2</sup>.

HCM is the most common genetic cardiovascular disease and has a prevalence of around 1 in 500 people in the general population. Most people with HCM have no symptoms or feel stable throughout their life<sup>1</sup>. The disease most commonly presents in the second or third decade of life but may present at any age. HCM is the most common cause of sudden unexpected death in childhood and in young athletes<sup>2</sup>.

Treatment approaches vary depending on symptoms and risk of sudden disease. People with HCM may need to make lifestyle changes, such as limiting their activity to adjust for their disease, if considered suitable by a specialist after individual evaluation. People with HCM may also have their condition monitored using echocardiographs. European Society of Cardiology (ESC) Guidelines on hypertrophic cardiomyopathy<sup>3</sup> recommend that people with symptomatic disease, predominately with left ventricular outflow tract obstruction, receive beta-blockers to reduce symptoms. If beta-blockers are ineffective or contraindicated, non-dihydropyridine calcium channel blockers (such as verapamil and diltiazem) are suitable alternatives. Disopyramide, alone or in combination with either beta-blockers or non-dihydropyridine calcium channel blockers, can also be considered. [NICE technology appraisal 913](#) recommends the use of mavacamten in adults who have a New York Heart Association (NYHA) class of 2 to 3 if it is an add-on to individually optimised standard care that includes beta-blockers, non-dihydropyridine calcium-channel blockers or disopyramide, unless these are contraindicated. If severe symptoms persist despite maximally tolerated medical therapy, people may be offered surgical myectomy or non-surgical reduction of the myocardial septum ([NICE interventional procedures guidance 40](#)). For people with obstructive HCM who progress to heart failure, the only ESC guideline recommended treatment options are those that manage left ventricular outflow obstruction. People with HCM, regardless of the

presence of obstruction, should undergo clinical risk assessment for sudden cardiac death risk. In cases where individuals are considered to be at high risk of arrhythmias and sudden cardiac death, implanted devices such as a pacemaker or an implantable cardioverter defibrillator may be used.

### **The technology**

Aficamten (brand name unknown, Cytokinetics UK) does not currently have a marketing authorisation in the UK for treating symptomatic obstructive hypertrophic cardiomyopathy. It has been studied in a clinical trial alongside established care compared with placebo plus standard care in people with symptomatic obstructive hypertrophic cardiomyopathy.

<b>Intervention(s)</b>	Aficamten
<b>Population(s)</b>	Adults with symptomatic, NYHA class 2 or 3, obstructive hypertrophic cardiomyopathy who are on individually optimised standard care
<b>Comparators</b>	Mavacamten in combination with standard care
<b>Outcomes</b>	<p>The outcome measures to be considered include:</p> <ul style="list-style-type: none"><li>• response rates</li><li>• mortality</li><li>• cardiovascular events</li><li>• cardiovascular related mortality</li><li>• exercise capacity</li><li>• oxygen consumption</li><li>• patient-reported symptom severity</li><li>• change in NYHA class</li><li>• change in left ventricular ejection fraction</li><li>• adverse effects of treatment</li><li>• health-related quality of life.</li></ul>

<b>Economic analysis</b>	<p>The reference case stipulates that the cost effectiveness of treatments should be expressed in terms of incremental cost per quality-adjusted life year.</p> <p>If the technology is likely to provide similar or greater health benefits at similar or lower cost than technologies recommended in published NICE technology appraisal guidance for the same indication, a cost-comparison may be carried out.</p> <p>The reference case stipulates that the time horizon for estimating clinical and cost effectiveness should be sufficiently long to reflect any differences in costs or outcomes between the technologies being compared.</p> <p>Costs will be considered from an NHS and Personal Social Services perspective.</p> <p>The availability of any commercial arrangements for the intervention, comparator and subsequent treatment technologies will be taken into account.</p>
<b>Other considerations</b>	<p>Guidance will only be issued in accordance with the marketing authorisation. Where the wording of the therapeutic indication does not include specific treatment combinations, guidance will be issued only in the context of the evidence that has underpinned the marketing authorisation granted by the regulator.</p>
<b>Related NICE recommendations</b>	<p><b>Related technology appraisals:</b></p> <p>Mavacamten for treating symptomatic obstructive hypertrophic cardiomyopathy (2023). <a href="#">NICE Technology Appraisal 913</a>.</p> <p>Implantable cardioverter defibrillators and cardiac resynchronisation therapy for arrhythmias and heart failure (2014). <a href="#">NICE Technology Appraisal 314</a>.</p> <p><b>Related NICE guidelines:</b></p> <p>Chronic heart failure in adults: diagnosis and management (2018). <a href="#">NICE guideline 106</a>.</p> <p><b>Related interventional procedures:</b></p> <p>Non-surgical reduction of the myocardial septum (2004). <a href="#">NICE interventional procedures guidance 40</a>.</p> <p><b>Related quality standards:</b></p> <p>Chronic heart failure in adults (2011). <a href="#">NICE quality standard 9</a>.</p>
<b>Related National Policy</b>	<p>NHS England <a href="#">2013/14 NHS Standard contract for cardiology: Inherited cardiac conditions</a> (All ages)</p> <p>The NHS Long Term Plan (2019) <a href="#">NHS Long Term Plan</a></p>

	NHS England (2023) <a href="#"><u>Manual for prescribed specialist services (2023/2024)</u></a>
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## References

1. [Hypertrophic cardiomyopathy](#). British Heart Foundation. Accessed September 2025.
2. [Cardiomyopathy](#). NHS. Accessed September 2025.
3. Arbelo E., Protonotarios A., Gimeno J.R., et al. (2023). [2023 ESC Guidelines for the management of cardiomyopathies: Developed by the task force on the management of cardiomyopathies of the European Society of Cardiology \(ESC\)](#). European Heart Journal 44(37) pg 3503-3626