

Clopidogrel

Clopidogrel (also known as [Plavix](#)) is an antiplatelet drug, which means that it prevents blood cells called platelets from sticking together (aggregating) and forming blood clots

A platelet [adenosine diphosphate receptor inhibitor](#).

Clopidogrel ([Plavix](#), [Bristol-Myers Squibb](#)/Sanofi-Aventis) is a prodrug requiring hepatic metabolism by [cytochrome P450](#) (CYP) isoenzymes to generate an active [metabolite](#) that is responsible for irreversible blocking of its target, the platelet [adenosine diphosphate \(ADP\) P2Y12](#) receptor. Numerous investigations have demonstrated a broad interindividual variability in clopidogrel-induced [antiplatelet](#) effects. Notably, patients with high on-treatment platelet reactivity (HPR) have an increased risk of recurrent ischemic events, including [stent thrombosis](#). Genetic and environmental factors modulating hepatic metabolism of clopidogrel have shown to significantly contribute to these findings.

Indications

Clopidogrel therapy is mandatory for six weeks after [stenting](#) to allow [endothelialization](#).

- [Prevention](#) of intra-procedural and short-term post-procedural (4–12 weeks) [thromboembolic events](#) related to [endovascular procedures](#) including
 - [Coil embolization](#) of wide-neck cerebral aneurysms where stent will be used
 - [Stent implantation](#) (with a second antiplatelet agent)
 - Therapeutic occlusion of large arteries (often with a second antiplatelet agent)
- Subacute management of procedural complications (alone or in combination with a second agent)
 - Parent artery coil herniations
 - Thrombus or clot on coil phenomena
 - In-stent thrombus (may be more effective than other agents).

Dosing

[Clopidogrel Dosing](#).

Reversal

[Platelet transfusion](#).

Effects of cigarette smoking on clopidogrel

see [Effects of cigarette smoking on clopidogrel](#).

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