

1.8.2 clean	Prasugrel
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VI.2 Elements for a public summary

VI.2.1 Overview of disease epidemiology

Acute coronary syndrome (ACS) is a condition in which patients have symptoms from a blockage of the blood vessels that supply oxygen to the heart. The most common symptom is chest pain, often spreading down the left arm or the jaw, and may seem more like pressure in the chest. Patient may also feel sick to their stomach and have sweating.

Men tend to be diagnosed more often than woman. Patients have an average age of approximately 65 in men and approximately 71 in women at the time of diagnosis.

Percentage of Patients with ACS

In European countries, approximately 26 to 60,6 adults per 10,000 have ACS. In non-European countries approximately 50 to 202 adults per 100,000 have ACS.

VI.2.2 Summary of treatment benefits

Since the first approval of prasugrel in 2009, it has been used by more than 2.1 million patients world-wide. Prasugrel is taken together with another platelet aggregation inhibitor to prevent atherothrombotic events (problems causes by blood clots and hardening of the arteries) in patients with ACS who are undergoing percutaneous coronary intervention (PCI). Acute coronary syndrome is a group of conditions that includes unstable angina (a severe type of chest pain) and heart attack. Percutaneous coronary intervention is an operation used to unblock narrowed coronary arteries (blood vessels in the heart).

In one main study, prasugrel, given as a 60-mg starting dose followed by 10-mg "maintenance" dose, was compared with clopidogrel (another inhibitor of platelet aggregation); both medicines were taken in combination with another platelet aggregation inhibitor. The study involved almost 14,000 adults with ACS who were about to undergo PCI. The main measure of effectiveness was reduction in the total number of cardiovascular (CV) deaths (deaths due to problems in the heart or blood vessels), heart attacks, or strokes. The patients were followed up for an average of 14.5 months.

Prasugrel was more effective than clopidogrel at reducing the total number of CV deaths, heart attacks, or strokes. At the end of the study, 9% of the patient taking prasugrel had died from CV causes or has a heart attack or stroke (643 out of 6813) compared with 11% of the patients taking clopidogrel (781 out of 6795).

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VI.2.3 Unknowns relating to treatment benefits

There is not much information about prasugrel use in children, women who are pregnant or breastfeeding, patients with other kinds of severe heart disease, or patients with advanced liver disease. Doctors should think carefully about whether prasugrel is needed in these patient populations because the benefit of taking prasugrel is unknown.

VI.2.4 Summary of safety concerns

Important identified risks

Risk	What is known	Preventability
Bleeding (haemorrhage)	Medication like prasugrel can	You should not take
including:	increase bleeding.	prasugrel if you have severe
- Bleeding in the skull		bleeding, a history of stroke,
(intracranial	The bleeding risk is greater in	or history of mini stroke.
haemorrhage) or	people who are 75 years of	,
stroke (blood flow to	age or older, people who	If you are 75 years of age or
a part of the brain	weigh less than 60 kg, and	older, you need to ask your
stops)	people who are taking other	doctor if the benefits of
- Bleeding in the	medications that may	prasugrel outweigh the risk
stomach or intestine	increase their risk of	pf prasugrel because of your
(gastrointestinal	bleeding. The risk of	agre. If your doctor does
haemorrhage)	bleeding is also greater for	prescribe prasugrel and you
- Bleeding in the eye	people with major injuries,	are 75 years of age or older,
(intraocular	recent surgery, a history of	then you should only be
haemorrhage)	bleeding in the stomach or	taking a 5-mg daily dose of
- Nosebleeds	intestine, and/or severe liver	prasugrel.
(epistaxis)	or kidney disease.	
- Bleeding related to	,	If you weigh less than 60 kg,
medicinal procedures		then you should only be
(percutaneous		taking a 5-mg daily dose.
coronary		
intervation-related		Because of this increased
haemorrgahe,		bleeding risk on prasugrel, it
coronary artery		should be stopped at least 7
bypass graft		days before any planned
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haemorrhage, and		surgery or dental procedure.
other procedure-		It is your immentant to tall
related		It is very important to tell your doctor if you are being
haemorrhage)		treated with clopidogrel (a
		medicine that keeps your
		blood from clotting),
		warfarin (a blood thinner), or
		not-steroidal anti-
		inflammatory drugs for pain
		and fever (such as ibuprofen
		naproxen, etoricoxib). If
		these medicines are taken
		with prasugrel, it can increase
		your risk of bleeding.
		If you have any other
		possible medical conditions
		that could cause increased
		bleeding, you should be sure
		to tell your doctor before
		your start taking prasugrel.
Prasugrel should be used as	Some doctors give patients	Prasugrel should be used as
directed on the drug label. It	prasugrel before learning if	directed on the drug label. It
is recommended that	they can be treated without	is recommended that
prasugrel is used only after	surgery for clogged blood vessels that provide oxygen	prasugrel is used only after a
doctor knows by X-rays that	to the heart. If this happens,	doctor knows by X-ray that
you can be treated without surgery for clogged blood	then the risk of bleeding may	you can be treated without
vessels that provide oxygen	be increased.	surgery for clogged blood
to your heart. If prasugrel is		vessels that provide oxygen to your heart. If prasugrel is
given before this time, there		givne before this time, the
could be greater risk of		risk of bleeding could be
bleeding.		higher.
Allergic reactions	Allergic reactions have been	You should not take
(hypersensitivity),	seen in patients who had	prasugrel in you are allergic
presenting hives or itchy	allergic reactions to other	to prasugrel or any
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welts on the skin or swelling	medications like prasugrel.	ingredients of prasugrel, or if
of the face including lips,		you are allergic to any
tongue, and throat that can		medications that are like
affect your breathing		prasugrel.
(angioedema)		
Low platelet count – platelets	Low platelet count has been	The risk of low platelet count
are a part of blood that help	seen in patients who take	with prasugrel can be
in blood-clotting	prasugrel or other	lessened by minimasing
(thrombocytopaenia)	medications like prasugrel.	bleeding risks as described
	This can cause people to	above in the section
	bleed more easily.	regarding bleeding.
Blood clots form in small	Thrombotic	There is no known was to
blood vessels throughout the	thrombocytopenic purpura	avoid TTP while taking
body	(TTP) has been seen with	prasugrel or medications like
(thrombotic	medications that are like	prasugrel. If you think that
thrombocytopaenic	prasugrel (clopidogrel and	you may have this condition,
purpura)	ticlopidine), and has been	you shoul tell your doctor
	seen very rarely with	immediately.
	prasugrel use.	· ·
	There small blood clots can	
	cause numerous small red	
	spots on the skin called	
	"petechiae". There small	
	blood clots can damage many	
	organs including kidneys,	
	heart, and brain.	
	neart, and orain.	

Important potential risks:

Risk	What is known (Including reason why it is considered a potential risk)	
Damage to the liver caused	None of the studies with prasugrel have shown that use of	
by taking prasugrel	prasugrel causes liver damage. However, because liver	
(drug-induced hepatic	damage is a risk with many medications, and because similar	
injury)	medications have caused changes in liver lab results, it is	
	considered a potential risk for prasugrel.	
Healthcare professional	Patients who have had a prior stroke or mini stroke are at an	

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decision to use prasugrel with	increased risk for bleeding in the skull (intracranial	
a history of stroke or mini	hemorrhage) or stroke (blood flow to a part of the brain	
stroke	stops) when using prasugrel.	
(potential off-label use in		
patients with prior		
TIA/stroke)		
Cancer of the colon or rectum	There have been patients treated with prasugrel who have	
(parts of the large intestine)	been diagnosed with cancer of the colon or rectum. Many of	
(colorectal cancer)	these cancers are found because the patient has some	
	bleeding from their colon or rectum while on prasugrel.	
	Bleeding like this can happen more frequently while on	
	prasugrel due to the expected effect of the drug. While it	
	seems like the bleeding risk on prasugrel is the reason for	
	finding these cancers, it is not known if prasugrel increases	
	the risk for cancer growth.	

Missing information

Risk		What is known
Use of prasugrel along	with blood thinners	Because prasugrel can cause bleeding, it
(concomitant use with fibrinolytics other		should not be used at the same time as blood
thienopyridines, warfarin) and/or		thinners or other medications that can cause
frequent use of anti-inflammatory		bleeding such as anti-inflammatory
medications (NSAIDs (non-ASA))		medications.
Use in children		Prasugrel should not be used in children below
(Use in paediatric population)		age 18 because it has not been studied.
Use in pregnant and breastfeeding women		No clinical study has been done in pregnant or
(Use in pregnancy and lactation)		breastfeeding women. Therefore, prasugrel
		should not be used in these patients.
Patient who do not have symptoms or		Prasugrel has not been studied in these
evidence of a heart attack treated by a		patients.
procedure to open clog	ged vessels	
(Use in subjects without clinical		
manifestation of ACS)		
Patients who have severe heart disease who		Prasugrel has not been studied in these
cannot be treated with a procedure or		patients.
surgery		
(Use in subjects with	severely	
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compromised cardiac status (cardiogenic shock, class IV CHF, refractory ventricular arrhythmia))	
Patients with severe liver disease	Prasugrel should not be used in patients with
(Use in subjects with severe hepatic	severe liver disease because they have a
impairment)	greater risk of bleeding.

VI.2.5 Summary of risk minimisation measures by safety concern

All medicines have a Summary of Product Characteristics (SmPC) which provides physicians, pharmacists and other health care professionals with details on how to use the medicine, the risks and recommendations for minimising them. An abbreviated version of this in lay language is provided in the form of the package leaflet (PL). The measures in these documents are known as routine risk minimisation measures.

The Summary of Product Characteristics and the Package leaflet for this product can be found at the agency's EPAR page.

This medicine has special conditions and restrictions for its safe and effective use (additional risk minimisation measures). Full details on these conditions and the key elements of any educational material can be found in Annex II of the product information which is published in agency's EPAR page; how they are implemented in each country however will depend upon agreement between the manufacturer and the national authorities.

These additional risk minimisation measures are for the following risks:

Bleeding (Haemorrhage) in patients \geq 75 years of age and patients weighing < 60 kg

Risk Minimisation Measure(s):

Additional actions taken to reduce bleeding events for patients 75 years of age or older and patients who weigh less than 60 kg are provided by teaching health care professionals (doctors and nurses) the right way to use prasugrel in these patients.

Objective and Rationale

To teach health care providers so that patients are treated with the best dose of medication for each patient.

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VI.2.6 Planned post authorisation development plan

Not applicable. No postauthorisation studies are planned.

VI.2.7 Summary of changes to the Risk Management Plan over time

Not applicable, this is the first Risk management plan.

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