

## **SUMMARY OF RISK MANAGEMENT PLAN FOR SOVALDI (SOFOSBUVIR)**

This is a summary of the risk management plan (RMP) for Sovaldi. The RMP details important risks of Sovaldi, how these risks can be minimized, and how more information will be obtained about Sovaldi's risks and uncertainties (missing information).

Sovaldi's summary of product characteristics (SmPC) and its package leaflet give essential information to healthcare professionals and patients on how Sovaldi should be used.

This summary of the RMP for Sovaldi should be read in the context of all this information including the assessment report of the evaluation and its plain-language summary, all which is part of the European Public Assessment Report (EPAR).

Important new concerns or changes to the current ones will be included in updates of Sovaldi's RMP.

### **I. The Medicine and What is it Used for**

Sovaldi is authorized for treatment of chronic hepatitis C (CHC) in adults and pediatric patients aged 3 years and above (see SmPCs for the full indication). It contains sofosbuvir (SOF) as the active substance and it is given orally.

Further information about the evaluation of Sovaldi's benefits can be found in Sovaldi's EPAR, including in its plain-language summary, available on the EMA website, under the medicine's webpage: <https://www.ema.europa.eu/en/medicines/human/EPAR/sovaldi>.

### **II. Risks Associated with the Medicine and Activities to Minimize or Further Characterize the Risks**

Important risks of Sovaldi, together with measures to minimize such risks and the proposed studies for learning more about Sovaldi's risks, are outlined below.

Measures to minimize the risks identified for medicinal products can be:

- Specific Information, such as warnings, precautions, and advice on correct use, in the package leaflet and SmPC addressed to patients and healthcare professionals;
- Important advice on the medicine's packaging;
- The authorized pack size — the amount of medicine in a pack is chosen so to ensure that the medicine is used correctly;
- The medicine's legal status — the way a medicine is supplied to the public (e.g. with or without prescription) can help to minimize its risks.

Together, these measures constitute routine risk minimization measures.

In addition to these measures, information about adverse reactions is collected continuously and regularly analyzed including periodic safety update report (PSUR) assessment so that immediate action can be taken as necessary. These measures constitute routine pharmacovigilance activities.

If important information that may affect the safe use of Sovaldi is not yet available, it is listed under ‘missing information’ below.

## II.A. List of Important Risks and Missing Information

Important risks of Sovaldi are risks that need special risk management activities to further investigate or minimize the risk, so that the medicinal product can be safely administered. Important risks can be regarded as identified or potential. Identified risks are concerns for which there is sufficient proof of a link with the use of Sovaldi. Potential risks are concerns for which an association with the use of this medicine is possible based on available data, but this association has not been established yet and needs further evaluation. Missing information refers to information on the safety of the medicinal product that is currently missing and needs to be collected (e.g. on the long-term use of the medicine).

**Table Part VI.1. List of Important Risks and Missing Information**

<b>Important Identified Risks</b>	Cardiac arrhythmia (bradycardia) when SOF-containing regimens are used concomitantly with amiodarone
	Hepatitis B virus (HBV) reactivation in HBV/hepatitis C virus (HCV) coinfecting patients
<b>Important Potential Risks</b>	None
<b>Missing Information</b>	None

## II.B. Summary of Important Risks

**Table Part VI.2. Summary of Important Risk(s) and Missing Information**

<b>Important Identified Risk</b>	<b>Cardiac arrhythmia (bradycardia) when SOF -containing regimens are used concomitantly with amiodarone</b>
<b>Evidence for linking the risk to the medicine</b>	Cases of severe bradycardia have been observed when SOF-containing regimens are used in combination with amiodarone
<b>Risk factors and risk groups</b>	Patients also taking beta blockers, or those with underlying cardiac comorbidities and/or advanced liver disease may be at increased risk for symptomatic bradycardia with coadministration of amiodarone.
<b>Risk Minimization Measure(s)</b>	Routine risk minimization measures: SmPC Sections 4.4, 4.5, and 4.8 Package leaflet (PL) Section 2 Additional risk minimization measures: None
<b>Important Identified Risk</b>	<b>HBV reactivation in HBV/HCV coinfecting patients</b>
<b>Evidence for linking the risk to the medicine</b>	Cases of HBV reactivation have been reported in patients coinfecting with HBV/HCV during or after treatment with direct acting antivirals (DAAs). HBV reactivation can potentially be life-threatening, as it could result in hepatitis, an increase in transaminase levels, an increase in bilirubin levels, hepatic failure and death.

<b>Risk factors and risk groups</b>	Due to the small number of cases of HBV reactivation with DAAs, risk factors have not been definitively established. However, some of the cases involving HBV reactivation with SOF-containing regimens involved patients who were immunocompromised (patients coinfecting with human immunodeficiency virus (HIV) or patients receiving immunosuppressants due to prior transplant). In addition, a case involving severe HBV reactivation had risk factors of non-alcoholic steatohepatitis (NASH) and Burkitt's lymphoma.
<b>Risk Minimization Measure(s)</b>	Routine risk minimization measures: SmPC Section 4.4 PL Section 2 Additional risk minimization measures: None
<b>Important Potential Risk</b>	None
<b>Missing information</b>	None

## **II.C. Post-authorization Development Plan**

### **II.C.1. Studies which are Conditions of the Marketing Authorization**

There are no studies which are conditions of the marketing authorization or a specific obligation of Sovaldi.

### **II.C.2. Other Studies in Post-Authorization Development Plan**

There are no studies required for Sovaldi.