

Pulmonary arterial hypertension (PAH) is a severe, progressive and fatal disease characterised by elevated pulmonary arterial pressure, leading to right heart failure and death²



APPROXIMATELY 1 IN 10 PATIENTS WITH SYSTEMIC SCLEROSIS (SSc) ARE ESTIMATED TO DEVELOP PAH³

PAH IS A LEADING CAUSE OF DEATH IN PATIENTS WITH SSc⁵

PAH ACCOUNTS FOR



PAH IS A SEVERE AND OFTEN FATAL COMPLICATION OF SSc⁴

EARLIER DIAGNOSIS OF SSc-PAH IS ESSENTIAL TO IMPROVING OUTCOMES FOR YOUR PATIENTS⁶

TREAT EARLY

EARLY SCREENING AND REFERRAL IMPROVE SURVIVAL OUTCOMES⁶

AT 8 YEARS, THERE IS A DIFFERENCE OF

47%

IN SURVIVAL RATES BETWEEN PATIENTS
DIAGNOSED DURING ROUTINE CLINICAL PRACTICE
AND THOSE DIAGNOSED USING SCREENING⁶

GUIDELINES RECOMMEND ANNUAL SCREENING FOR PAH IN SSc

2015 ESC/ERS PH guidelines:

Resting echo is recommended as a screening test in asymptomatic patients with SSc, followed by **annual screening** with echo, DLCO and biomarkers 7

6th World Symposium on Pulmonary Hypertension:

Supports recommendation for **annual screening** for PAH in patients with scleroderma spectrum diseases⁸

Recommendations for screening and detection of CTD-PAH:

Every patient with SSc should be screened annually for PAH due to the high prevalence of PAH in SSc $^{\circ}$

START AHEAD WITH OPSUMIT – AN ORAL ERA WITH PROVEN BENEFICIAL AND SUSTAINED LONG-TERM OUTCOMES IN PAH¹¹⁻¹⁴

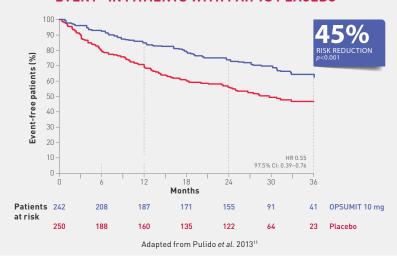


The SERAPHIN study is the first and only study to demonstrate a statistically significant long-term benefit with an endothelin receptor antagonist (ERA) vs placebo in PAH based on a composite morbidity-mortality primary endpoint*11

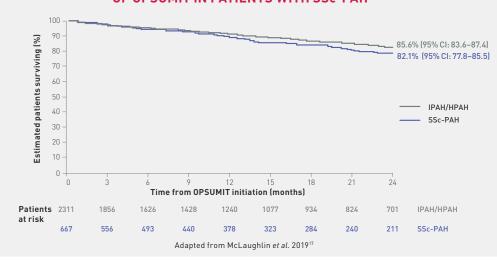
31% of patients in SERAPHIN had CTD-PAH11

Real-world data from the OPUS and OrPHeUS registries* support the use of OPSUMIT in SSc-PAH, showing similar clinical outcomes in patients with SSc-PAH and patients with idiopathic PAH (IPAH)/heritable PAH (HPAH)^{16,17}

OPSUMIT REDUCES THE RISK OF A MORBIDITY OR MORTALITY EVENT* IN PATIENTS WITH PAH VS PLACEBO¹¹



REAL-WORLD DATA SUPPORT THE EFFECTIVENESS OF OPSUMIT IN PATIENTS WITH SSc-PAH¹⁷



CONSISTENT WITH THE PRIMARY ENDPOINT, OPSUMIT REDUCED THE RISK OF A MORBIDITY-MORTALITY EVENT* IN PATIENTS WITH CTD-PAH BY 42% VS PLACEBO**15

CI, confidence interval; CTD, connective tissue disease; ERA, endothelin receptor antagonist; HR, hazard ratio; PAH, pulmonary

**HR 0.58: 95% CI: 0.33-1.02.15

OPSUMIT IMPROVES LONG-TERM OUTCOMES IN PAH AND SHOWS **EFFECTIVENESS IN A BROAD PATIENT POPULATION,** INCLUDING PATIENTS WITH **SSc-PAH**^{11,12-22}

Adverse events observed in SERAPHIN that were more frequently associated with OPSUMIT included anaemia, bronchitis, headache, oedema and nasopharyngitis! For full safety and tolerability information, please consult the OPSUMIT Prescribing Information.

CI, confidence interval; HPAH, heritable pulmonary arterial hypertension; IPAH, idiopathic pulmonary arterial hypertension; PAH, pulmonary arterial hypertension; SSc, systemic sclerosis

*The OPUS registry included PAH patients with comorbidities including hypertension, oedema, diabetes mellitus, anaemia, signs of right heart failure, autoimmune disease and renal insufficiency.^{21,22}

^{*}As measured by a composite primary morbidity-mortality endpoint. Results were driven by a decrease in PAH worsening and do not apply to mortality on its own.¹¹

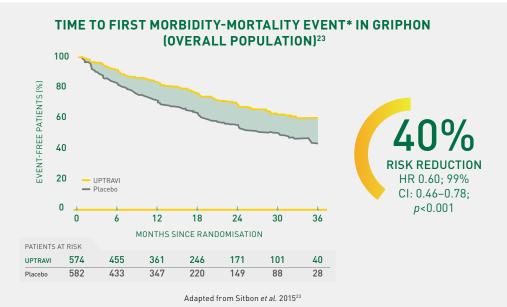
CHANGE THE COURSE OF PAH WITH UPTRAVI – AN ORAL IP RECEPTOR AGONIST SHOWN TO DELAY DISEASE PROGRESSION²³⁻²⁵

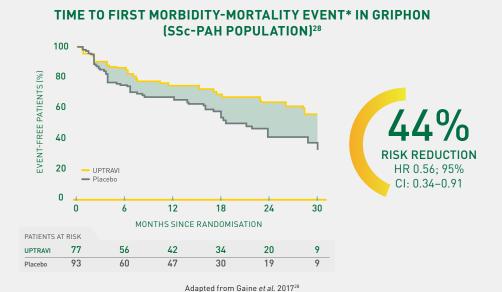


The GRIPHON trial assessed the effect of UPTRAVI on long-term outcomes in PAH using a robust composite primary endpoint that reflects recommendations from the World Symposium on Pulmonary Hypertension^{23,26}

Patients with CTD-PAH comprised 29% of the GRIPHON patient population²³

UPTRAVI reduced the risk of morbidity-mortality* in patients with SSc-PAH vs placebo. This response was consistent with that observed in the overall GRIPHON population²⁸





EARLY USE OF UPTRAVI PROVIDES
A LASTING BENEFIT FOR PAH PATIENTS^{23,27}

UPTRAVI DELAYS **DISEASE PROGRESSION AND IMPROVES LONG-TERM OUTCOMES IN SSC-PAH**, A POPULATION
PREVIOUSLY CONSIDERED DIFFICULT TO TREAT²⁸

In GRIPHON, the most common adverse events were headache, flushing, nasopharyngitis, diarrhoea, vomiting, nausea, jaw pain, myalgia, arthralgia and pain in extremity. For full safety and tolerability information, please consult the UPTRAVI Prescribing Information.

Cl, confidence interval; CTD, connective tissue disease; HR, hazard ratio; IP, prostacyclin; PAH, pulmonary arterial hypertension "As measured by a composite primary endpoint. Results were driven by a decrease in hospitalisation and other disease progression events and not by mortality on its own." Cl, confidence interval; HR, hazard ratio; PAH, pulmonary arterial hypertension; SSc, systemic sclerosis
*As measured by a composite primary endpoint. Results were driven by a decrease in hospitalisation and other disease progression events and not by mortality on its own.²⁸

PRESCRIBING INFORMATION



OPSUMIT ABBREVIATED PRESCRIBING INFORMATION BASED ON THE EU SUMMARY OF PRODUCT CHARACTERISTICS

OPSUMIT® 10 mg film-coated tablets. ACTIVE INGREDIENT(S): macitentan. Please refer to Summary of Product Characteristics (SmPC) before prescribing. INDICATION(S): pulmonary arterial hypertension (PAH) in adult patients of WHO Functional Class (FC) II to III. Efficacy has been shown in a PAH population including idiopathic and heritable PAH, PAH associated with connective tissue disorders, and PAH associated with corrected simple and monitored by a physician experienced in the treatment of PAH. Posology: Opsumit is to be taken orally at a dose of 10 mg once daily, with or without food. Elderly patients: No dose in patients with mild, moderate or severe hepatic impairment. However, there is no clinical experience with the use of macitentan in PAH patients with moderate or severe hepatic in PAH patients with severe renal impairment. CONTRAINDICATIONS: Hypersensitivity to the active substance, soya or to any of the excipients, pregnancy, women of childbearing potential who are not using reliable contraception, breastfeeding, patients with severe (AST and/or ALT > 3 × III N). SPECIAL WARNINGS & PRECAUTIONS: Liver function: Elevations of liver aminotransferases (AST, ALT) have been associated with PAH and with patients with moderate hepatic impairment. Liver enzyme tests should be obtained prior to initiation of Opsumit. Patients should be monitored for signs of hepatic injury and monthly monitoring of ALT and AST is recommended. If sustained, unexplained, clinically relevant bilirubin > 2 × ULN, or by clinical symptoms of liver injury (e.g., jaundice), Opsumit treatment should be discontinued. Reinitiation of Opsumit may be considered following the return of receptor antagonists (ERAs) including macitentan. Initiation of Opsumit is not recommended in patients with severe anaemia. It is recommended that haemoglobin concentrations be macitentan is administered in patients with PAH, the possibility of pulmonary veno-occlusive disease should be considered. Patients with renal impairment: Patients with renal impairment may run a higher risk of experiencing hypotension and anaemia during treatment with macitentan. Therefore, monitoring of blood pressure and haemoglobin should be considered. There is no clinical experience with the use of macitentan in PAH patients with severe renal 2020. Based on 17 April 2020 EU Summary of Product Characteristics. impairment. Caution is recommended in this population. There is no experience with the use

of macitentan in patients undergoing dialysis, therefore Opsumit is not recommended in this population. Excipients: Opsumit contains lactose. Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take this medicine. Opsumit contains lecithin. If a patient is hypersensitive to soya, Opsumit, as monotherapy or in combination, is indicated for the long-term treatment of Opsumit must not be used. This medicinal product contains less than 1 mmol sodium (23 mg) per tablet, that is to sav essentially 'sodium-free', SIDE EFFECTS: Very common (≥ 1/10): nasopharyngitis, bronchitis, anaemia, haemoglobin decrease, headache, oedema, fluid retention*. Common (> 1/100 to < 1/10): pharyngitis, influenza, urinary tract infection, concentral heart disease, DOSAGE & ADMINISTRATION: Treatment should only be initiated hypotension, nasal concestion, leukopenia, thrombocytopenia, aminotransferase elevations, Uncommon (< 1/10): hypersensitivity reactions (e.g., angioedema, pruritus, rash). Consult SmPC in relation to less common side effects. * In a large, long-term clinical study in PAH, adjustment is required in patients over the age of 65 years. There is limited clinical experience rates of oedema adverse events were similar in patients on macitentan and placebo. In in patients over the age of 75 years. Therefore Opsumit should be used with caution in this clinical studies conducted in other non-approved indications of idionathic pulmonary fibrosis population. Patients with hepatic impairment: Based on PK data, no dose adjustment is required and digital ulcers associated with systemic sclerosis, the observed rates of oedema AEs were higher for macitentan than for placebo. Refer to the SmPC for other side effects. PREGNANCY: Opsumit is contraindicated during pregnancy. Opsumit treatment should impairment. Patients with renal impairment: Based on PK data, no dose adjustment is required only be initiated in women of childbearing potential when the absence of pregnancy has in patients with renal impairment. There is no clinical experience with the use of macitentan been verified, appropriate advice on contraception provided, and reliable contraception is practised. Women should not become pregnant for 1 month after discontinuation of Opsumit. Monthly pregnancy tests during treatment with Opsumit are recommended to allow the early detection of pregnancy. LACTATION: Obsumit is contraindicated during hepatic impairment (with or without cirrhosis), baseline values of hepatic aminotransferases breastfeeding, MALE FERTILITY: A deterioration of spermatogenesis cannot be excluded. INTERACTIONS: CYP3A4 inhibitors: Caution should be exercised when macitentan is administered concomitantly with strong CYP3A4 inhibitors (e.g., itraconazole, ketoconazole, endothelin receptor antagonists (ERAs). Opsumit is not to be initiated in patients with severe voriconazole, clarithromycin, telithromycin, nefazodone, ritonavir, and saguinavir). CYP344 hepatic impairment or elevated aminotransferases (> 3 × ULN), and is not recommended in inducers; Reduced efficacy in the presence of strong CYP3A4 inducers (e.g., rifampicin, St. John's wort, carbamazepine, and phenytoin) could occur and combination with macitentan should be avoided. Sildenafil: When macitentan and sildenafil are given concomitantly, sildenafil exposure may increase and the exposure to the macitentan active metabolite aminotransferase elevations occur, or if elevations are accompanied by an increase in may decrease. These changes are not considered clinically relevant. Cyclosoprine A and warfarin: The pharmacokinetics of macitentan and its active metabolite are not affected by cyclosporine A and warfarin, Hormonal contraceptives: Macitentan 10 mg once daily did hepatic enzyme levels to within the normal range in patients who have not experienced ont affect the pharmacokinetics of an oral contraceptive (norethisterone 1 mg and ethinyl clinical symptoms of liver injury. The advice of a hepatologist is recommended. Haemoglobin estradiol 35 µg). Breast cancer resistance protein (BCRP) substrate drugs: Macitentan 10 mg concentration: Decrease in haemoolobin concentrations has been associated with endothelin once daily did not affect the pharmacokinetics of a BCRP substrate drug (riociquat 1 mg; rosuvastatin 10 mg), LEGAL CLASSIFICATION: Subject to restricted medical prescription. MARKETING AUTHORISATION NUMBER(S): EU/1/13/893/001/2/3. MARKETING measured prior to initiation of treatment and tests repeated during treatment as clinically AUTHORISATION HOLDER: Janssen-Cilag International NV, Turnhoutseweg 30, B 2340 indicated. Pulmonary veno-occlusive disease: If signs of pulmonary oedema occur when Beerse, Belgium. PACKS & PRICE: country specific (no need to include further details here). Blister packs containing 15 or 30 film-coated tablets, bottles containing 30 film-coated tablets. Products mentioned in this document may not be registered in all countries. Prescribing Information may vary per country. Health Care Providers must refer to their country prescribing information. Prescribing information generation date or last revised: May

Adverse events should be reported. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in section 4.8 of the SmPC.

PRESCRIBING INFORMATION



UPTRAVI® 200 microgram, 400 microgram, 600 microgram, 800 microgram, 1,000 microgram, 1,200 microgram, 1,400 microgram, and 1,600 microgram Film-coated Tablets ABBREVIATED PRESCRIBING INFORMATION BASED ON THE EU SUMMARY OF PRODUCT CHARACTERISTICS ACTIVE INGREDIENT: Each filmcoated tablet contains either 200 microgram or 400 microgram or 600 microgram or 800 microgram or 1,000 microgram or 1,200 microgram or 1.400 microgram or 1.600 microgram selexipag, disease which has been reported with vasodilators (mainly Please refer to Summary of Product Characteristics (SmPC) before prostacyclins), if confirmed discontinue treatment. Elderly: (> 65 prescribing. INDICATION(S): Long-term treatment of pulmonary arterial hypertension (PAH) in adult patients with WHO functional class (FC) II-III, as combination therapy in patients insufficiently controlled with an endothelin receptor antagonist and/or a phosphodiesterase type 5 inhibitor, or as monotherapy in patients who are not candidates for these therapies. Efficacy has been shown and its active metabolite is increased. In patients with moderate in idiopathic and heritable PAH, PAH associated with connective tissue disorders, and PAH associated with corrected simple congenital heart disease. DOSAGE & ADMINISTRATION: Individualised dose titration: Only a PAH experienced physician should initiate and monitor treatment. Up titrate patients to the highest individually tolerated dose, which can range from 200 micrograms to 1,600 micrograms given twice daily (BD). The recommended starting dose is 200 micrograms BD approximately 12 hours apart. Increase selexipag. SIDE EFFECTS: Very common: Headache. flushing. dose in increments of 200 micrograms BD, usually at weekly intervals, based on tolerability. During titration some adverse reactions reflecting the mode of action of selexipag may occur, these are usually transient or manageable with symptomatic treatment. Individualised maintenance dose: Maintain the highest tolerated dose a patient can take with tolerable adverse events. Interruptions and discontinuations: Missed doses should be taken as soon as possible, unless the next dose is scheduled within 6 hrs. If treatment is potential not using contraception. No data in pregnant women. missed for 3 days or more, restart at a lower dose and then uptitrated. There is limited experience with abrupt discontinuation. No evidence for acute rebound has been observed. If it is necessary to stop treatment withdraw gradually. Dose adjustment with coadministration of moderate CYP2C8 inhibitors: Uptravi dosing should be reduced to once daily when co-administered with moderate CYP2C8 inhibitors (e.g., clopidogrel, deferasirox and teriflunomide). If the therapy is not tolerated at a given dose, symptomatic treatment and/or a dose reduction to the next lower dose should be considered. Uptravi dosing should be reverted to twice daily when coadministration with moderate CYP2C8 inhibitors is stopped. Special populations: Elderly: (> 65 years): No dose adjustment required. Limited experience in patients over 75 years. Paediatrics: No data are available. Renal Impairment: No dose adjustment required in mild or moderate renal impairment. No change in dose initiation is required in severe renal impairment (estimated glomerular filtration rate [eGFR] < 30 mL/min/1.73 m²]; dose titration should be done with caution in these patients. Hepatic impairment: Do not treat patients with severe liver impairment (Child-Pugh class C). Moderate hepatic impairment (Child-Pugh class B), starting dose 200 micrograms once daily, increase weekly in increments of 200 micrograms, until patient reaches 1,600 microgram daily or experiences adverse reactions, reflecting the and a PDE 5 inhibitor resulted in a 30% lower exposure to the mode of action of selexipag, that cannot be tolerated or medically active metabolite. LEGAL CLASSIFICATION: Local information managed. Reduce dose by 200 micrograms daily to alleviate adverse reactions and maintain dosage. Mild hepatic impairment (Child-Pugh class Al no dose adjustment required. Administration: Take each tablet orally, morning and evening with food to improve tolerability. During the up-titration phase take the first increased dose in the evening. CONTRAINDICATIONS: Hypersensitivity to document may not be registered in all countries. Prescribing active substance/excipients, severe coronary heart disease, unstable angina, myocardial infarction within the last 6 months, decompensated cardiac failure, severe arrhythmias, cerebrovascular events within the last 3 months, congenital or acquired valvular 2016 EU Summary of Product Characteristic.

defects, concomitant administration with strong inhibitors of CYP2C8 (e.g., gemfibrozil). SPECIAL WARNINGS & PRECAUTIONS: Hypotension: Selexipag has vasodilatory properties that may reduce blood pressure. Hyperthyroidism: Hyperthyroidism has been observed, monitor thyroid function if clinically indicated. Pulmonary veno-occlusive disease: If signs of pulmonary oedema occur on administering selexipag, consider pulmonary veno-occlusive vears): Limited experience in patients over 75 years. So, selexipag should be used with caution in this population. Hepatic impairment: In patients with severe liver impairment (Child Pugh class C), selexipag should not be administered. In subjects with moderate hepatic impairment (Child Pugh class B), the exposure to selexipag hepatic impairment, Uptravi should be dosed once daily. Renal impairment: In patients with severe renal impairment (eGFR < 30 mL/min/1.73 m²], caution should be exercised during dose titration. There is no experience with Uptravi in patients undergoing dialysis, therefore Uptravi should not be used in these patients. Women of childbearing potential: Women of childbearing potential should practise effective contraception while taking nasopharyngitis, diarrhoea, vomiting, nausea, jaw pain, myalgia, arthralgia, pain in extremity, Common; anaemia, decreased haemoglobin, hyperthyroidism, decreased appetite, weight decrease, hypotension, decreased thyroid-stimulating hormone, nasal congestion, abdominal pain, rash, urticaria, erythema, pain, Refer to the SmPC for other side effects. PREGNANCY: Uptravi is not recommended during pregnancy and in women of childbearing Animal studies do not indicate reproductive toxicity. LACTATION: It is unknown if selexipag or its metabolites are excreted in human milk. Uptravi should not be used during breast feeding. INTERACTIONS: Concomitant administration of Uptravi with strong inhibitors of CYP2C8 (e.g., gemfibrozil) is contraindicated as when co-administered, exposure to the active metabolite, the major contributor to the drug effect, increased approximately 11fold. Concomitant administration of Uptravi with a moderate inhibitor of CYP2C8, increased the exposure to the active metabolite up to 2.7-fold. Refer "Dose adjustment with co-administration of moderate CYP2C8 inhibitors" for more information on dose adjustment when co-administered with moderate CYP2C8 inhibitors. Co-administration of selexipag with rifampicin, an inducer of CYP2C8, reduced exposure to the active metabolite to half, hence dose adjustment of selexipag may be required when it is administered concomitantly with inducers of CYP2C8 (e.g., rifampicin, carbamazepine, phenytoin). Effect of strong inhibitors of UGT1A3 and UGT2B7 (valproic acid, probenecid, and fluconazole) on selexipag was not studied, therefore caution is required when co-administering as a potential interaction cannot be excluded. PAH specific therapies: In the phase 3 placebo-controlled trial in patients with PAH, the use of selexipag in combination with both an ERA on classification, prescription conditions, reimbursement, as applicable. MARKETING AUTHORISATION NUMBER: EU/1/15/1083 001-011. MARKETING AUTHORISATION HOLDER: JANSSEN-CILAG INTERNATIONAL NV. Turnhoutseweg 30. B 2340 Beerse, Belgium. PACKS & PRICE: Country specific. Products mentioned in this Information may vary per country. Health Care Providers must refer to their country prescribing information. Prescribing information generation date or last revised: December 2020. Based on 12 May

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HELP FACILITATE EARLIER TREATMENT AND IMPROVED OUTCOMES FOR YOUR PATIENTS WITH SSc-PAH

- PAH is a silently progressive disease and a leading cause of death in SSc-PAH patients⁵
- Early identification of PAH is critical to improving patient outcomes⁶
 - ▶ Guidelines recommend annually screening SSc patients for PAH⁷⁻⁹
 - ▶ The DETECT algorithm can be used to screen for PAH in SSc^{7,10}
 - ▶ Refer patients to PH centres early to confirm PAH diagnosis
- Early PAH treatment with OPSUMIT and UPTRAVI makes a difference
 - ▶ Proven to delay disease progression and improve long-term outcomes in a broad range of patients, including those with SSc-PAH¹¹-¹³.¹¹5-25.28.29
 - ▶ Both OPSUMIT and UPTRAVI are recommended in combination therapy⁷ and have been shown to reduce morbidity-mortality* vs placebo when used as combination therapy**^{20,25}



ERA, endothelin receptor antagonist; PAH, pulmonary arterial hypertension; PDE-5i, phosphodiesterase type-5 inhibitor; PH, pulmonary hypertension; SSc, systemic sclerosis; WHO, World Health Organization

*As measured by a composite primary endpoint. Results were driven by a decrease in hospitalisation and other disease progression events and not by mortality on its own.^{11,23}

**OPSUMIT in combination with PDE-5i or oral/inhaled prostanoid in the SERAPHIN trial.11 UPTRAVI in combination with ERA and

OPSUMIT, as monotherapy or in combination, is indicated for the long-term treatment of pulmonary arterial hypertension (PAHI in adult patients of WHO functional class (FC) II to III. Efficacy has been shown in a PAH population including idiopathic and heritable PAH, PAH associated with connective tissue disorders, and PAH associated with corrected simple concenital heart disease.¹²

UPTRAVI is indicated for the long-term treatment of pulmonary arterial hypertension (PAH) in adult patients with WHO functional class [FC] II-III, either as combination therapy in patients insufficiently controlled with an endothelin receptor antagonist [ERA] and/on phosphodiesterase type-5 (PDE-5) inhibitor, or as monotherapy in patients who are not candidates for these therapies. Efficacy has been shown in a PAH population including idiopathic and heritable PAH, PAH associated with connective tissue disorders, and PAH associated with corrected simple congenital heart disease.²⁴

REFERENCES

1. Coghlan JG, et al. Eur Respir J 2018; 51(4):1701197. 2. Galiè N, et al. Eur Heart J 2010; 31(17):2080-2086. 3. Kiely DG, et al. Eur Heart J Suppl 2019; 21(Suppl K): K9-20. 4. Rhee RL, et al. Am J Respir Crit Care 2015; 192(9):1111-1117. 5. Kolstad KD, et al. Chest 2018; 154(4):862-871. 6. Humbert M, et al. Arthritis Rheum 2011; 63(11):3522-3530. 7. Galiè N, et al. Eur Heart J 2016; 37(1):67-119. 8. Frost A, et al. Eur Respir J 2019; 53(1):1801904. 9. Khanna D, et al. Arthritis Rheum 2013; 65(12):3194-3201. 10. Coghlan JG, et al. Ann Rheum Dis 2014; 73(7):1340–1349. 11. Pulido T, et al. N Engl J Med 2013; 369(9):809–818. 12. OPSUMIT Summary of Product Characteristics, 2020. 13. Torbicki A, et al. Circ Cardiovasc Qual Outcomes 2019; 12(5):e005095. 14. Souza R, et al. Poster presented at American Thoracic Society International Congress; 19-24 May 2017; Washington DC, USA (Poster No. 6830). 15. OPSUMIT US Prescribing Information. Available at: https://www.accessdata.fda.gov/drugsatfda_docs/label/2019/204410s017lbl.pdf [accessed June 2020] 16. McLaughlin V, et al. Chest 2019; 156(4):A874-A876. 17. McLaughlin V, et al. Oral presentation at CHEST, 19-23 October 2019; New Orleans, USA. 18. Kim N, et al. Poster presented at European Respiratory Society International Congress; 29 September – 2 October 2019; Madrid, Spain (Poster No. PA5458). 19. McLaughlin V, et al. Eur Heart J 2019; 40(Suppl 1): P3674. 20. Pulido T, et al. N Engl J Med 2013; 369(9):809-818 (supplementary appendix). 21. McLaughlin V, et al. Poster presented at International Society for Pharmacoeconomics and Outcomes Research Conference; 19-23 May 2018; Baltimore, MD, USA. 22. Rajagopal S, et al. Poster presented at American College of Cardiology's 69th Annual Scientific Session; 28-30 March 2020; Chicago, IL, USA (Poster No. 1255-053] 23. Sitbon 0, et al. New Engl J Med 2015; 373(26):2522-2533.24. UPTRAVI Summary of Product Characteristics, 2020. 25. Coghlan JG, et al. Am J Cardiovasc Drugs 2018; 18(1):37-47. 26. Gomberg-Maitland M, et al. J Am Coll Cardiol 2013; 62(25 Suppl):D82-91. 27. Gaine S, et al. Poster presented at American Thoracic Society Congress; 17-22 May 2019; Dallas, TX, USA [Poster No. 101], 28. Gaine S, et al. Eur Respir J 2017; 50(2):1602493. 29. Beghetti M, et al. Eur J Heart Fail 2019; 21(3):352-359.