



RoActemra

Procedural steps taken and scientific information after the authorisation

Application number	Scope	Opinion/ Notification ¹ issued on	Commission Decision Issued ² / amended on	Product Information affected ³	Summary
IB/0122/G	This was an application for a group of variations. B.II.f.1.b.5 - Stability of FP - Extension of the shelf life of the finished product - Biological/immunological medicinal product in accordance with an approved stability protocol	20/03/2024		SmPC	

¹ Notifications are issued for type I variations and Article 61(3) notifications (unless part of a group including a type II variation or extension application or a worksharing application). Opinions are issued for all other procedures.

² A Commission decision (CD) is issued for procedures that affect the terms of the marketing authorisation (e.g. summary of product characteristics, annex II, labelling, package leaflet). The CD is issued within two months of the opinion for variations falling under the scope of Article 23.1a(a) of Regulation (EU) No. 712/2012, or within one year for other procedures.

³ SmPC (Summary of Product Characteristics), Annex II, Labelling, PL (Package Leaflet).



	B.II.f.1.b.5 - Stability of FP - Extension of the shelf life of the finished product - Biological/immunological medicinal product in accordance with an approved stability protocol				
IB/0120/G	<p>This was an application for a group of variations.</p> <p>B.II.d.2.d - Change in test procedure for the finished product - Other changes to a test procedure (including replacement or addition)</p> <p>B.I.b.2.e - Change in test procedure for AS or starting material/reagent/intermediate - Other changes to a test procedure (including replacement or addition) for the AS or a starting material/intermediate</p> <p>B.II.d.2.d - Change in test procedure for the finished product - Other changes to a test procedure (including replacement or addition)</p> <p>B.I.a.1.k - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - New storage site of MCB and/or WCB</p> <p>B.I.a.4.c - Change to in-process tests or limits applied during the manufacture of the AS - Deletion of a non-significant in-process test</p> <p>B.I.b.2.a - Change in test procedure for AS or starting material/reagent/intermediate - Minor changes to an approved test procedure</p> <p>B.I.b.2.e - Change in test procedure for AS or starting material/reagent/intermediate - Other changes to a test procedure (including replacement or addition) for the AS or a starting</p>	04/12/2023	n/a		

	material/intermediate				
IB/0119	B.I.d.1.a.4 - Stability of AS - Change in the re-test period/storage period - Extension or introduction of a re-test period/storage period supported by real time data	07/07/2023	n/a		
N/0118	Minor change in labelling or package leaflet not connected with the SPC (Art. 61.3 Notification)	21/03/2023		PL	
IB/0117/G	This was an application for a group of variations. B.II.b.2.a - Change to importer, batch release arrangements and quality control testing of the FP - Replacement/addition of a site where batch control/testing takes place B.II.b.2.a - Change to importer, batch release arrangements and quality control testing of the FP - Replacement/addition of a site where batch control/testing takes place A.7 - Administrative change - Deletion of manufacturing sites	08/03/2023	n/a		
IA/0116	B.I.a.4.a - Change to in-process tests or limits applied during the manufacture of the AS - Tightening of in-process limits	13/12/2022	n/a		
PSUSA/2980/202204	Periodic Safety Update EU Single assessment - tocilizumab	01/12/2022	n/a		PRAC Recommendation - maintenance
IA/0115	B.I.b.1.b - Change in the specification parameters	22/11/2022	n/a		

	and/or limits of an AS, starting material/intermediate/reagent - Tightening of specification limits				
IB/0113	B.II.f.1.b.3 - Stability of FP - Extension of the shelf life of the finished product - After dilution or reconstitution (supported by real time data)	15/09/2022	23/01/2023	SmPC	
IB/0112/G	<p>This was an application for a group of variations.</p> <p>B.I.e.5.c - Implementation of changes foreseen in an approved change management protocol - For a biological/immunological medicinal product</p> <p>B.I.a.1.f - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - Changes to quality control testing arrangements for the AS -replacement or addition of a site where batch control/testing takes place</p> <p>B.I.a.4.b - Change to in-process tests or limits applied during the manufacture of the AS - Addition of a new in-process test and limits</p> <p>B.I.a.4.a - Change to in-process tests or limits applied during the manufacture of the AS - Tightening of in-process limits</p> <p>B.I.a.4.a - Change to in-process tests or limits applied during the manufacture of the AS - Tightening of in-process limits</p>	15/09/2022	23/01/2023	Annex II	
IB/0110	B.I.a.2.a - Changes in the manufacturing process of the AS - Minor change in the manufacturing process of the AS	15/06/2022	n/a		

IB/0109	B.II.f.1.d - Stability of FP - Change in storage conditions of the finished product or the diluted/reconstituted product	22/04/2022	23/01/2023	SmPC, Labelling and PL	
II/0108	B.I.e.2 - Introduction of a post approval change management protocol related to the AS	07/04/2022	n/a		
IB/0107/G	This was an application for a group of variations. B.II.b.2.a - Change to importer, batch release arrangements and quality control testing of the FP - Replacement/addition of a site where batch control/testing takes place B.II.b.2.a - Change to importer, batch release arrangements and quality control testing of the FP - Replacement/addition of a site where batch control/testing takes place	24/02/2022	n/a		
II/0106/G	This was an application for a group of variations. B.I.a.1.f - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - Changes to quality control testing arrangements for the AS -replacement or addition of a site where batch control/testing takes place B.I.a.1.f - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - Changes to quality control testing arrangements for the AS -replacement or addition of a site where batch control/testing takes place	13/01/2022	23/01/2023	Annex II	

	<p>B.I.a.1.f - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - Changes to quality control testing arrangements for the AS -replacement or addition of a site where batch control/testing takes place</p> <p>B.I.a.1.e - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - The change relates to a biological AS or a starting material [-] used in the manufacture of a biological/immunological product</p> <p>B.I.a.3.b - Change in batch size (including batch size ranges) of AS or intermediate - Downscaling down to 10-fold</p> <p>A.7 - Administrative change - Deletion of manufacturing sites</p>				
II/0104/G	<p>This was an application for a group of variations.</p> <p>B.II.d.2.a - Change in test procedure for the finished product - Minor changes to an approved test procedure</p> <p>A.7 - Administrative change - Deletion of manufacturing sites</p> <p>B.II.b.2.b - Change to importer, batch release arrangements and quality control testing of the FP - Replacement/addition of a site where batch control/testing takes place for a biol/immunol product and any of the test methods at the site is a biol/immunol method</p>	16/12/2021	n/a		
II/0101	C.I.6 - Extension of indication to include the	06/12/2021	06/12/2021	SmPC, Annex	Please refer to Scientific Discussion RoActemra

	<p>treatment of coronavirus disease 2019 in adults who are receiving systemic corticosteroids and require supplemental oxygen or mechanical ventilation for RoActemra; as a consequence, sections 4.1, 4.2, 4.3, 4.4, 4.8, 5.1, 5.2 and 6.6 of the SmPC for RoActemra 20 mg/mL concentrate for solution for infusion are updated. The Package Leaflet has been updated in accordance. The RMP is updated to Version 27.1 and the Annex II has been updated accordingly. Furthermore, the PI is brought in line with the latest QRD template version 10.2 rev. 1. In addition, the list of local representatives in the PL has been revised to amend contact details for the representative of Hungary.</p> <p>C.I.6.a - Change(s) to therapeutic indication(s) - Addition of a new therapeutic indication or modification of an approved one</p>			II, Labelling and PL	EMEA/H/C/000955/II/0101
II/0103/G	<p>This was an application for a group of variations.</p> <p>B.II.a.3.b.3 - Changes in the composition (excipients) of the finished product - Other excipients - Change that relates to a biological/immunological product</p> <p>B.I.b.1.c - Change in the specification parameters and/or limits of an AS, starting material/intermediate/reagent - Addition of a new specification parameter to the specification with its corresponding test method</p> <p>B.I.a.2.c - Changes in the manufacturing process of</p>	11/11/2021	06/12/2021	SmPC, Annex II, Labelling and PL	

	<p>the AS - The change refers to a [-] substance in the manufacture of a biological/immunological substance which may have a significant impact on the medicinal product and is not related to a protocol</p> <p>B.I.a.1.e - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - The change relates to a biological AS or a starting material [-] used in the manufacture of a biological/immunological product</p>				
IA/0105	B.I.b.2.a - Change in test procedure for AS or starting material/reagent/intermediate - Minor changes to an approved test procedure	04/11/2021	n/a		
II/0102/G	<p>This was an application for a group of variations.</p> <p>B.I.a.1.e - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - The change relates to a biological AS or a starting material [-] used in the manufacture of a biological/immunological product</p> <p>B.I.a.3.b - Change in batch size (including batch size ranges) of AS or intermediate - Downscaling down to 10-fold</p> <p>A.7 - Administrative change - Deletion of manufacturing sites</p> <p>B.I.a.4.a - Change to in-process tests or limits applied during the manufacture of the AS - Tightening of in-process limits</p>	16/09/2021	06/12/2021	Annex II	
IB/0100	C.I.z - Changes (Safety/Efficacy) of Human and	29/03/2021	26/04/2021	SmPC and PL	

	Veterinary Medicinal Products - Other variation				
II/0098/G	<p>This was an application for a group of variations.</p> <p>B.II.b.1.c - Replacement or addition of a manufacturing site for the FP - Site where any manufacturing operation(s) take place, except batch release/control, and secondary packaging, for biol/immunol medicinal products or pharmaceutical forms manufactured by complex manufacturing processes</p> <p>B.II.b.2.b - Change to importer, batch release arrangements and quality control testing of the FP - Replacement/addition of a site where batch control/testing takes place for a biol/immunol product and any of the test methods at the site is a biol/immunol method</p> <p>B.II.e.6.b - Change in any part of the (primary) packaging material not in contact with the finished product formulation - Change that does not affect the product information</p> <p>B.II.f.1.b.5 - Stability of FP - Extension of the shelf life of the finished product - Biological/immunological medicinal product in accordance with an approved stability protocol</p>	14/01/2021	n/a		
IA/0099/G	<p>This was an application for a group of variations.</p> <p>A.5.b - Administrative change - Change in the name and/or address of a manufacturer/importer of the finished product, including quality control sites</p>	17/12/2020	n/a		

	(excluding manufacturer for batch release) B.II.b.3.z - Change in the manufacturing process of the finished or intermediate product - Other variation				
II/0097	Update of section 4.2 of the SmPC for RoActemra 20 mg/mL concentrate for solution for infusion in order to amend the existing recommendations for monitoring of laboratory abnormalities in systemic juvenile idiopathic arthritis (sJIA) patients based on final results from study WA28029 (ARTHUR) listed as a category 3 study in the RMP; this is a Phase IV study to evaluate decreased dose frequency in sJIA who experience laboratory abnormalities during treatment with tocilizumab. The submission of the final study report for study WA28029 (ARTHUR) fulfils requirements of Article 46 of the paediatric regulation. The RMP is updated to version 26.0 to reflect the completion of study WA29029 (ARTHUR) and study WA22480 (ARTIS) which was assessed as part of variation EMEA/H/C/000955/II/0094. C.I.4 - Change(s) in the SPC, Labelling or PL due to new quality, preclinical, clinical or pharmacovigilance data	23/07/2020	26/04/2021	SmPC	Please refer to Scientific Discussion RoActemra EMEA/H/C/000955/II/0097
II/0096	B.II.e.1.b.2 - Change in immediate packaging of the finished product - Change in type/addition of a new container - Sterile medicinal products and biological/immunological medicinal products	14/05/2020	n/a		
II/0093/G	This was an application for a group of variations.	30/04/2020	26/04/2021	SmPC, Annex	

	<p>B.I.a.1.e - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - The change relates to a biological AS or a starting material [-] used in the manufacture of a biological/immunological product</p> <p>B.I.a.2.c - Changes in the manufacturing process of the AS - The change refers to a [-] substance in the manufacture of a biological/immunological substance which may have a significant impact on the medicinal product and is not related to a protocol</p> <p>B.I.b.1.c - Change in the specification parameters and/or limits of an AS, starting material/intermediate/reagent - Addition of a new specification parameter to the specification with its corresponding test method</p> <p>B.II.a.3.b.3 - Changes in the composition (excipients) of the finished product - Other excipients - Change that relates to a biological/immunological product</p>			II, Labelling and PL	
II/0091	<p>Update of sections 4.1, 4.2, 4.4, 4.8, 5.1 and 5.2 of the SmPC for RoActemra 162 mg solution for injection in pre-filled pen in order to align with the approved indications for RoActemra 162 mg solution for injection in pre-filled syringe to include active systemic juvenile idiopathic arthritis (sJIA) and juvenile idiopathic polyarthritis from the age of 12 years; the Package Leaflet is updated accordingly.</p> <p>In addition, the Marketing authorisation holder took</p>	27/02/2020	01/04/2020	SmPC, Annex II and PL	<p>RoActemra 162 mg solution for injection in pre-filled syringe is already approved in the treatment of active systemic juvenile idiopathic arthritis (sJIA) in patients 1 year of age and older and juvenile idiopathic polyarthritis (pJIA) in patients 2 years of age and older. Sub-Cutaneous (SC) injections administered via the pre-filled pen deliver bioequivalent exposures to the pre-filled syringe. Literature review has indicated that some paediatric patients are at potential risk of inadvertent IM injection with the pre-filled pen, especially younger patients</p>

	<p>the opportunity to make minor editorial changes in Sections 3, 4.2, 4.4 and 5.1 of the SmPC for RoActemra 162 mg solution for injection in pre-filled syringe and the Annex II.</p> <p>C.I.4 - Change(s) in the SPC, Labelling or PL due to new quality, preclinical, clinical or pharmacovigilance data</p>				<p>weighing < 30 kg thus the use of the pre-filled pen has been restricted to adolescent patients (aged >12 years) the vast majority of whom will be ≥ 30 kg in weight. Therefore, the SmPC for RoActemra 162 mg solution for injection in pre-filled pen has been aligned with the approved indications for RoActemra 162 mg solution for injection in pre-filled syringe to include active systemic juvenile idiopathic arthritis (sJIA) and juvenile idiopathic polyarthritis. The use of the pre filled pen is from the age of 12 years.</p> <p>The SmPC section 4.1 has been updated as follows: "RoActemra is indicated for the treatment of active systemic juvenile idiopathic arthritis (sJIA) in patients 12 years of age and older, who have responded inadequately to previous therapy with NSAIDs and systemic corticosteroids (see Section 4.2). RoActemra can be given as monotherapy (in case of intolerance to MTX or where treatment with MTX is inappropriate) or in combination with MTX. RoActemra in combination with methotrexate (MTX) is indicated for the treatment of juvenile idiopathic polyarthritis (pJIA; rheumatoid factor positive or negative and extended oligoarthritis) in patients 12 years of age and older, who have responded inadequately to previous therapy with MTX (see Section 4.2). RoActemra can be given as monotherapy in case of intolerance to MTX or where continued treatment with MTX is inappropriate." The PL have been updated accordingly.</p>
IB/0095	B.II.e.4.c - Change in shape or dimensions of the container or closure (immediate packaging) - Sterile	20/03/2020	n/a		

	medicinal products				
II/0094	<p>Submission of the final report from study WA22480 (ARTIS) listed as a category 3 study in the RMP. This is a phase IV, prospective observational cohort study using Sweden registers to provide long term safety data from the use of tocilizumab in Sweden for RA patients.</p> <p>C.I.13 - Other variations not specifically covered elsewhere in this Annex which involve the submission of studies to the competent authority</p>	12/03/2020	n/a		<p>WA22480- (ARTIS) registry study was a Phase IV, prospective observational cohort study. This was a nationwide safety monitoring of tocilizumab (TCZ) treatment in patients with rheumatic diseases in Sweden. The rationale and study objectives were to provide long term safety data from the use of TCZ in Sweden for Rheumatoid Arthritis (RA) patients.</p> <p>The relative occurrence of a series of pre-defined safety outcomes in Swedish patients with RA treated with tocilizumab, or with other anti-rheumatic treatments, compared to the general Swedish population, were assessed. No new safety signals for TCZ emerged from the study. No updates to the Product Information are warranted.</p>
IB/0092	C.I.11.z - Introduction of, or change(s) to, the obligations and conditions of a marketing authorisation, including the RMP - Other variation	10/01/2020	n/a		
II/0089	<p>Submission of the final report from study WA28119. This is a Phase III, multicenter, randomized, double-blind, placebo-controlled study to assess the efficacy and safety of tocilizumab in subjects with giant cell arteritis.</p> <p>C.I.13 - Other variations not specifically covered elsewhere in this Annex which involve the submission of studies to the competent authority</p>	14/11/2019	n/a		<p>Final report from study WA28119 (GiACTA) including Part 2 and the 3-year results of the entire study was submitted. Overall, the Part 1 and 2 combined efficacy analyses demonstrated that 1 year of RoActemra treatment during Part 1 had prolonged benefits in terms of sustained disease control and GC sparing over the course of the 3-year study. Time to giant cell arteritis (GCA) flare was longer, and the cumulative glucocorticoids (GC) dose was lower, for patients who had received RoActemra during Part 1 than for patients who had received placebo, particularly for patients who had received RoActemra QW. Although</p>

					<p>approximately half of the RoActemra patients in clinical remission at Week 52 experienced flare after stopping treatment with RoActemra, indicating a potential need for RoActemra therapy beyond 1 year, retreatment with RoActemra appeared to be effective in treating patients who flared.</p> <p>No new safety signals were reported over the 3-year study period for patients that received RoActemra and the results were consistent with the established safety profile of RoActemra, and the safety results obtained for GCA patients in Part 1 of the study. No new safety concerns were identified. Overall, based on these efficacy and safety results no change to the product information was deemed necessary.</p>
PSUSA/2980/201904	Periodic Safety Update EU Single assessment - tocilizumab	31/10/2019	n/a		PRAC Recommendation - maintenance
II/0086/G	<p>This was an application for a group of variations.</p> <p>Grouping of 3 variations: Two variations C.I.11.z supporting RMP updates: Submission of an updated RMP version 25.2 in order to:</p> <ul style="list-style-type: none"> - Remove the reference to the Neutropenia Guided Questionnaire from the RMP. - Remove all references to the US Claims Database from the RMP. <p>The MAH also took the opportunity to make the following minor changes to the RMP:</p> <ul style="list-style-type: none"> - Removal of study WA22479 (British Society 	17/10/2019	01/04/2020	SmPC, Annex II and PL	<p>Based on post-marketing exposure data, the MAH has re-calculated the frequencies for "Anaphylaxis (Fatal)" and "Stevens Johnsons Syndrome" (SJS) as per the SmPC Guideline (2009). These adverse reactions were identified through post marketing surveillance but not observed in controlled clinical trials. The frequency category was estimated as the upper limit of the 95% confidence interval calculated on the basis of the total number of patients exposed to tocilizumab in clinical trials. As a result of those calculations, Anaphylaxis (fatal) has been determined to occur with a frequency of 'Rare' and SJS has been determined to occur with a frequency of 'Rare'. Section 4.8 of the SmPC and the PL have been updated accordingly. In addition, the following changes were introduced in the</p>

<p>of Rheumatology Biologics Register (BSRBR)) in response to the fulfilment of PAM MEA-045.</p> <ul style="list-style-type: none"> - Removal of OTIS registry from additional pharmacovigilance activities which was erroneously retained in EU-RMP version 24.1 approved with the variation procedure EMEA/H/C/00955/II/76. - Inclusion of the ZUMA-8 (KTE-X19-108) study in routine pharmacovigilance activities in line with previous PRAC/CHMP request as part of variation procedure EMEA/H/C/00955/II/0076. - Removal of study WA29358 which was erroneously introduced into RMP v24.1 as an additional PV activity <p>One variation C.I.4 affecting the PI: Update of sections 4.8 of the SmPC the change the frequency for anaphylaxis (fatal) and Stevens-Johnson Syndrome to "rare" and list them in the tabulated list of adverse reactions; the Package Leaflet is updated accordingly.</p> <p>In addition, the Marketing authorisation holder (MAH) took the opportunity to make minor editorial changes to Sections 4.2, 4.8, 5.1 and 5.2 of the SmPC, the Annex IID and Section 4 of the Package Leaflet.</p> <p>C.I.4 - Change(s) in the SPC, Labelling or PL due to new quality, preclinical, clinical or pharmacovigilance data</p> <p>C.I.11.z - Introduction of, or change(s) to, the obligations and conditions of a marketing</p>				<p>RMP with the present application:</p> <p>As per the Guidance on the format of the RMP in EU EMA/164014/2018 Rev.2.0.1 accompanying GVP Module V Rev.2, "For some adverse reactions (e.g. lab abnormalities) the identified risk may be the clinical outcome of the adverse reaction if these have been observed (e.g. associated with such laboratory abnormality)". The clinical outcome of neutropenia is infections. Hence, in line with this guidance, the Guided Questionnaire (GQ) for neutropenia was removed from the RMP as neutropenia follow-up information is covered in the GQ for serious infection.</p> <p>Considering the worldwide exposure and the well characterized safety profile the reference to the US Claims Database as a source of information was removed from the additional pharmacovigilance activities in the RMP.</p>
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	authorisation, including the RMP - Other variation C.I.11.z - Introduction of, or change(s) to, the obligations and conditions of a marketing authorisation, including the RMP - Other variation				
IB/0090	C.I.11.z - Introduction of, or change(s) to, the obligations and conditions of a marketing authorisation, including the RMP - Other variation	01/10/2019	n/a		
II/0084/G	This was an application for a group of variations. B.I.a.1.f - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - Changes to quality control testing arrangements for the AS -replacement or addition of a site where batch control/testing takes place B.I.a.1.f - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - Changes to quality control testing arrangements for the AS -replacement or addition of a site where batch control/testing takes place B.I.b.z - Change in control of the AS - Other variation B.II.b.z - Change in manufacture of the Finished Product - Other variation	12/09/2019	n/a		
IB/0088/G	This was an application for a group of variations. C.I.3.a - Change(s) in the SPC, Labelling or PL intended to implement the outcome of a procedure concerning PSUR or PASS or the outcome of the	23/08/2019	01/04/2020	SmPC, Annex II and PL	

	assessment done under A 45/46 - Implementation of wording agreed by the competent authority C.I.11.a - Introduction of, or change(s) to, the obligations and conditions of a marketing authorisation, including the RMP - Implementation of wording agreed by the competent authority				
IB/0085/G	This was an application for a group of variations. A.5.b - Administrative change - Change in the name and/or address of a manufacturer/importer of the finished product, including quality control sites (excluding manufacturer for batch release) B.II.b.2.a - Change to importer, batch release arrangements and quality control testing of the FP - Replacement/addition of a site where batch control/testing takes place B.II.b.2.a - Change to importer, batch release arrangements and quality control testing of the FP - Replacement/addition of a site where batch control/testing takes place	20/06/2019	n/a		
IB/0083	B.II.c.3.a.2 - Change in source of an excipient or reagent with TSE risk - From TSE risk material to vegetable or synthetic origin - For excipients or reagents USED in the manufacture of a biol/immunol AS or in a biol/immunol medicinal product	11/04/2019	n/a		
II/0082	C.I.13 - Other variations not specifically covered elsewhere in this Annex which involve the submission of studies to the competent authority	17/01/2019	n/a		

PSUSA/2980/201804	Periodic Safety Update EU Single assessment - tocilizumab	15/11/2018	15/01/2019	SmPC and PL	Refer to Scientific conclusions and grounds recommending the variation to terms of the Marketing Authorisation(s)' for PSUSA/2980/201804.
II/0076	<p>Extension of Indication for RoActemra 162 mg solution for injection in pre-filled syringe formulation to include the treatment of active systemic juvenile idiopathic arthritis (sJIA) in patients 1 year of age and older, weighting at least 10kg, who have responded inadequately to previous therapy with NSAIDs and systemic corticosteroids. RoActemra can be given as monotherapy (in case of intolerance to methotrexate or where treatment with methotrexate is inappropriate) or in combination with methotrexate. This new indication is supported by the data from study WA28118, a Phase Ib, Open-Label, Multicenter Study to Investigate the Pharmacokinetics, Pharmacodynamics, and Safety of Tocilizumab Following Subcutaneous Administration to Patients sJIA. Sections 4.1, 4.2, 4.4, 4.8, 5.1 and 5.2 of the SmPC and the PL are being updated accordingly.</p> <p>In addition, sections 4.2, 4.8 and 5.2 of the SmPC of the RoActemra 20 mg/mL concentrate for solution for infusion formulation are updated to reflect data from the pivotal IV study WA18221 in sJIA.</p> <p>The MAH has also made the following amendments in the RoActemra 20 mg/mL concentrate for solution for infusion formulation:</p> <ul style="list-style-type: none"> Update of sections 4.8 and 5.2 to align the information on pJIA for RoActemra SC and IV 	20/09/2018	29/10/2018	SmPC, Labelling and PL	Please refer to the scientific discussion RoActemra EMEA/H/C/000955/II/76.

	<p>(variation EMEA/H/C/955/II/72).</p> <ul style="list-style-type: none"> Update of the PL to implement the changes related to the new indication for the treatment of CAR T cell-induced severe or life-threatening CRS (variation EMEA/H/C/955/II/78). <p>Changes made to the SmPC, Labelling and Package Leaflet for RoActemra 20 mg/mL concentrate for solution for infusion formulation, RoActemra 162 mg solution for injection in pre-filled syringe formulation, RoActemra 162 mg solution for injection in pre-filled pen to bring them in line with the current QRD template and SmPC guideline were reviewed and accepted by the CHMP.</p> <p>Finally, the MAH has updated the RMP to implement changes related to the new indication for the treatment of CAR T cell-induced severe or life-threatening CRS (variation EMEA/H/C/955/II/78).</p> <p>C.I.6.a - Change(s) to therapeutic indication(s) - Addition of a new therapeutic indication or modification of an approved one</p>				
II/0078	<p>Extension of indication to include 'treatment of chimeric antigen receptor (CAR) T cell-induced severe or life-threatening cytokine release syndrome (CRS) in adults and paediatric patients 2 years of age and older' for the RoActemra 20mg/ml concentrate for solution for infusion.</p> <p>C.I.6.a - Change(s) to therapeutic indication(s) - Addition of a new therapeutic indication or</p>	28/06/2018	23/08/2018	SmPC and PL	See Scientific Discussion.

	modification of an approved one				
N/0081	Minor change in labelling or package leaflet not connected with the SPC (Art. 61.3 Notification)	09/08/2018	29/10/2018	PL	
IB/0080/G	This was an application for a group of variations. B.I.b.2.e - Change in test procedure for AS or starting material/reagent/intermediate - Other changes to a test procedure (including replacement or addition) for the AS or a starting material/intermediate B.II.c.2.d - Change in test procedure for an excipient - Other changes to a test procedure (including replacement or addition)	08/08/2018	n/a		
IA/0077/G	This was an application for a group of variations. B.I.a.4.a - Change to in-process tests or limits applied during the manufacture of the AS - Tightening of in-process limits B.I.a.4.b - Change to in-process tests or limits applied during the manufacture of the AS - Addition of a new in-process test and limits B.I.b.1.b - Change in the specification parameters and/or limits of an AS, starting material/intermediate/reagent - Tightening of specification limits B.I.b.2.a - Change in test procedure for AS or starting material/reagent/intermediate - Minor changes to an approved test procedure	16/05/2018	n/a		

II/0072	<p>Extension of Indication to include "the treatment of juvenile idiopathic polyarthritis (pJIA; rheumatoid factor positive or negative and extended oligoarthritis) in patients 2 years of age and older, who have responded inadequately to previous therapy with methotrexate" for RoActemra; as a consequence, sections 4.1, 4.2, 4.4, 4.8, 5.1 and 5.2 of the SmPC are updated in order to add information on posology, warnings, safety, efficacy and pharmacokinetics. The Package Leaflet is updated accordingly.</p> <p>C.I.6.a - Change(s) to therapeutic indication(s) - Addition of a new therapeutic indication or modification of an approved one</p>	22/02/2018	12/04/2018	SmPC, Labelling and PL	
T/0075	Transfer of Marketing Authorisation	20/02/2018	06/04/2018	SmPC, Labelling and PL	
II/0074/G	<p>This was an application for a group of variations.</p> <p>Please refer to the Recommendations section above</p> <p>B.IV.1.c - Change of a measuring or administration device - Addition or replacement of a device which is an integrated part of the primary packaging</p> <p>B.II.e.5.a.2 - Change in pack size of the finished product - Change in the number of units (e.g. tablets, ampoules, etc.) in a pack - Change outside the range of the currently approved pack sizes</p>	22/02/2018	12/04/2018	SmPC, Labelling and PL	The product information was updated to include information on the newly introduced single-use auto-injector pen for RoActemra, intended for the treatment of adult rheumatoid arthritis and giant cell arthritis, using the already approved 162 mg/0.9 mL solution for injection pre-filled syringe with a new hypodermic needle.

PSUSA/2980/ 201704	Periodic Safety Update EU Single assessment - tocilizumab	26/10/2017	n/a		PRAC Recommendation - maintenance
IB/0073	B.II.d.2.d - Change in test procedure for the finished product - Other changes to a test procedure (including replacement or addition)	28/09/2017	n/a		
II/0066	<p>Extension of indication to include treatment of giant cell arteritis in adult patients for the subcutaneous formulation of RoActemra based on the Phase III study WA28119 (GiACTA). As a consequence, sections 4.1, 4.2, 4.4, 4.5, 4.8, 5.1 and 5.2 of the SmPC are updated to reflect information relevant to this indication. The Package Leaflet is updated in accordance.</p> <p>The Marketing Authorisation Holder took the opportunity to make administrative changes to Sections 4.6 and 5.3 of the SmPC. The Package Leaflet is updated in accordance. Furthermore, the updated RMP version 21.0 has been agreed.</p> <p>C.I.6.a - Change(s) to therapeutic indication(s) - Addition of a new therapeutic indication or modification of an approved one</p>	20/07/2017	18/09/2017	SmPC, Annex II and PL	Please refer to the scientific discussion RoActemra EMEA/H/C/000955/II/0066.
IB/0070	C.I.z - Changes (Safety/Efficacy) of Human and Veterinary Medicinal Products - Other variation	24/05/2017	18/09/2017	SmPC	
PSUSA/2980/ 201610	Periodic Safety Update EU Single assessment - tocilizumab	05/05/2017	n/a		PRAC Recommendation - maintenance

IB/0069	B.II.f.1.a.1 - Stability of FP - Reduction of the shelf life of the finished product - As packaged for sale	01/03/2017	18/09/2017	SmPC	
II/0067/G	This was an application for a group of variations. B.I.b.2.d - Change in test procedure for AS or starting material/reagent/intermediate - Substantial change to or replacement of a biological/immunological/immunochemical test method or a method using a biological reagent for a biological AS B.II.d.2.c - Change in test procedure for the finished product - Substantial change to or replacement of a biol/immunol/immunochemical test method or a method using a biol. reagent or replacement of a biol. reference preparation not covered by an approved protocol	23/02/2017	n/a		
IA/0065/G	This was an application for a group of variations. B.I.b.2.a - Change in test procedure for AS or starting material/reagent/intermediate - Minor changes to an approved test procedure B.II.e.7.b - Change in supplier of packaging components or devices (when mentioned in the dossier) - Replacement or addition of a supplier	08/12/2016	n/a		
PSUSA/2980/201604	Periodic Safety Update EU Single assessment - tocilizumab	27/10/2016	n/a		PRAC Recommendation - maintenance

II/0057	<p>Extension of Indication to include the treatment of severe, active and progressive rheumatoid arthritis (RA) in adults not previously treated with methotrexate (MTX) for the RoActemra subcutaneous formulation; as a consequence, section 4.1 of the SmPC is updated. The Package Leaflet is updated accordingly. In addition, the Marketing authorisation holder (MAH) took the opportunity to make minor editorial changes in the SmPC and Package Leaflet. Moreover, the MAH took the opportunity to update the contact details of the local representative in Germany in the Package Leaflet. Further, the updated RMP version 18.1 has been agreed.</p> <p>C.I.6.a - Change(s) to therapeutic indication(s) - Addition of a new therapeutic indication or modification of an approved one</p>	23/06/2016	29/07/2016	SmPC and PL	Refer to the Scientific Discussion Zontivity- H-C-2814-II-05
II/0061	<p>Submission of the final clinical study report for study WA29049, as requested in MEA 030.6</p> <p>C.I.13 - Other variations not specifically covered elsewhere in this Annex which involve the submission of studies to the competent authority</p>	21/07/2016	n/a		
IB/0063	<p>B.II.b.2.a - Change to importer, batch release arrangements and quality control testing of the FP - Replacement/addition of a site where batch control/testing takes place</p>	27/06/2016	n/a		
N/0062	<p>Minor change in labelling or package leaflet not</p>	19/05/2016	29/07/2016	Annex II	

	connected with the SPC (Art. 61.3 Notification)				
PSUSA/2980/201510	Periodic Safety Update EU Single assessment - tocilizumab	13/05/2016	n/a		PRAC Recommendation - maintenance
IG/0668/G	This was an application for a group of variations. B.II.b.1.a - Replacement or addition of a manufacturing site for the FP - Secondary packaging site B.II.b.1.a - Replacement or addition of a manufacturing site for the FP - Secondary packaging site	22/03/2016	n/a		
PSUSA/2980/201504	Periodic Safety Update EU Single assessment - tocilizumab	06/11/2015	n/a		PRAC Recommendation - maintenance
IB/0056	C.I.11.a - Introduction of, or change(s) to, the obligations and conditions of a marketing authorisation, including the RMP - Implementation of wording agreed by the competent authority	16/10/2015	n/a		
N/0053	Minor change in labelling or package leaflet not connected with the SPC (Art. 61.3 Notification)	02/07/2015	29/07/2016	PL	
IG/0573	C.I.8.a - Introduction of or changes to a summary of Pharmacovigilance system - Changes in QPPV (including contact details) and/or changes in the PSMF location	01/07/2015	n/a		
IB/0051	B.I.a.4.b - Change to in-process tests or limits	22/05/2015	n/a		

	applied during the manufacture of the AS - Addition of a new in-process test and limits				
II/0050	<p>Submission of the final Clinical Study Report for Study WA18221 'Tender' in order to address the post-authorisation measure MEA 036. An update RMP version 16.4 was provided as part of the application. The application proposes no changes to the product information</p> <p>C.I.11.b - Introduction of, or change(s) to, the obligations and conditions of a marketing authorisation, including the RMP - Implementation of change(s) which require to be further substantiated by new additional data to be submitted by the MAH where significant assessment is required</p>	21/05/2015	n/a		N/A
II/0049	<p>Submission of the final CSR of study WA 22762 (SUMMACTA) to fulfil MEA 044; as a consequence of the analyses of the final study results a revised RMP (version 16.6) has been submitted.</p> <p>C.I.13 - Other variations not specifically covered elsewhere in this Annex which involve the submission of studies to the competent authority</p>	21/05/2015	n/a		
IA/0052	B.II.e.7.b - Change in supplier of packaging components or devices (when mentioned in the dossier) - Replacement or addition of a supplier	19/05/2015	n/a		
PSUSA/2980/	Periodic Safety Update EU Single assessment -	07/05/2015	n/a		PRAC Recommendation - maintenance

201410	tocilizumab				
IB/0048/G	<p>This was an application for a group of variations.</p> <p>B.II.b.2.a - Change to importer, batch release arrangements and quality control testing of the FP - Replacement/addition of a site where batch control/testing takes place</p> <p>B.II.b.2.a - Change to importer, batch release arrangements and quality control testing of the FP - Replacement/addition of a site where batch control/testing takes place</p>	30/03/2015	n/a		
II/0038	<p>Update of section 5.2 of the SmPC to further characterize the PK profile of tocilizumab following IV and SC administration, based on newly available IV data generated as part of the development of the SC formulation of tocilizumab.</p> <p>C.I.4 - Change(s) in the SPC, Labelling or PL due to new quality, preclinical, clinical or pharmacovigilance data</p>	26/03/2015	17/07/2015	SmPC	
II/0046	<p>Submission of the revised RMP version 16.5 with information from the final CSR of study WA19926 (FUNCTION)</p> <p>C.I.11.b - Introduction of, or change(s) to, the obligations and conditions of a marketing authorisation, including the RMP - Implementation of change(s) which require to be further substantiated</p>	26/02/2015	n/a		

	by new additional data to be submitted by the MAH where significant assessment is required				
II/0044	B.I.a.1.g - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - Introduction of a new manufacturer of the AS that is not supported by an ASMF and requires significant update to the relevant AS section in the dossier	18/12/2014	n/a		
II/0043	C.I.11.b - Introduction of, or change(s) to, the obligations and conditions of a marketing authorisation, including the RMP - Implementation of change(s) which require to be further substantiated by new additional data to be submitted by the MAH where significant assessment is required	20/11/2014	n/a		
IG/0497	C.I.8.a - Introduction of or changes to a summary of Pharmacovigilance system - Changes in QPPV (including contact details) and/or changes in the PSMF location	18/11/2014	n/a		
PSUV/0041	Periodic Safety Update	06/11/2014	n/a		PRAC Recommendation - maintenance
IB/0042	B.I.a.2.a - Changes in the manufacturing process of the AS - Minor change in the manufacturing process of the AS	24/09/2014	n/a		
II/0032	Extension of Indication to include treatment of severe, active and progressive rheumatoid arthritis in adults not previously treated with methotrexate. As a consequence, sections 4.1, 4.8 and 5.1 of the	24/07/2014	01/09/2014	SmPC, Annex II and PL	Please refer to the assessment report RoActemra-H-C-955-II-32.

	<p>SmPC and the Package Leaflet are updated. In addition, minor editorial changes are implemented in the SmPC, Annex II and PL.</p> <p>C.I.6.a - Change(s) to therapeutic indication(s) - Addition of a new therapeutic indication or modification of an approved one</p>				
IB/0040	B.II.e.5.a.2 - Change in pack size of the finished product - Change in the number of units (e.g. tablets, ampoules, etc.) in a pack - Change outside the range of the currently approved pack sizes	30/07/2014	17/07/2015	SmPC, Labelling and PL	
II/0039	<p>Update of section 4.8 of the SmPC to add Stevens-Johnson Syndrome (SJS). Section 4 of the PL is updated accordingly.</p> <p>C.I.4 - Change(s) in the SPC, Labelling or PL due to new quality, preclinical, clinical or pharmacovigilance data</p>	24/07/2014	01/09/2014	SmPC and PL	Two cases of non-fatal reports of Stevens-Johnson Syndrome (SJS) were identified during routine RoActemra pharmacovigilance, one of which was medically confirmed. The event rate in tocilizumab-treated patients did not exceed the event rate those in patients exposed to other biological therapies for autoimmune conditions. SJS is a rare but severe hypersensitivity reaction. Based on the strength of the evidence in the medically confirmed SJS case, rarity, severity and drug association of the condition, and to ensure patient safety, information on SJS cases has been added to section 4.8 of the RoActemra SmPC.
PSUV/0036	Periodic Safety Update	08/05/2014	n/a		PRAC Recommendation - maintenance
X/0030	Extension of the Marketing Authorisation to register a new route of administration "subcutaneous use", a new pharmaceutical form "solution for injection", a new strength "162 mg" and a new presentation "pre-filled syringe".	20/02/2014	23/04/2014	SmPC, Annex II, Labelling and PL	Please refer to the assessment report RoActemra-H-C-955-X-30-AR.

	Annex I_2.(e) Change or addition of a new route of administration				
IB/0037	B.I.b.2.c - Change in test procedure for AS or starting material/reagent/intermediate - Other changes to a test procedure for a reagent, which does not have a significant effect on the overall quality of the AS	09/04/2014	n/a		
II/0035	Update of section 4.4 of the SmPC in order to reflect the outcome of study NA25256, a phase IV study evaluating the humoral immune response after pneumonal and tetanic vaccination in patients treated with tocilizumab. In addition the MAH has taken the opportunity to correct typographical errors throughout the PI. C.I.4 - Change(s) in the SPC, Labelling or PL due to new quality, preclinical, clinical or pharmacovigilance data	23/01/2014	01/09/2014	SmPC and PL	Study NA25256 evaluated the immune response and the safety of a pneumococcal and anti-tetanus toxoid vaccine in adult patients with moderate to severe RA treated with MTX only and in combination with TCZ. Adult RA patients treated with RoActemra and MTX were able to mount an effective response to both the 23-valent pneumococcal polysaccharide and tetanus toxoid vaccines which was comparable to the response seen in patients on MTX only.
IB/0033	B.II.b.2.z - Change to importer, batch release arrangements and quality control testing of the FP - Other variation	08/11/2013	n/a		
R/0031	Renewal of the marketing authorisation.	25/07/2013	25/09/2013	SmPC, Annex II and PL	Based on the review of the available information the CHMP is of the opinion that the quality, the safety and the efficacy of this medicinal product continues to be adequately and sufficiently demonstrated and therefore considers that the benefit/risk profile of RoActemra continues to be

					favourable. The CHMP was of the opinion that the renewal could be granted with unlimited validity.
II/0026	<p>Update of sections 4.1, 4.2, 4.4, 4.8, 5.1, 5.2 and 6.6 of the SmPC in order to extend the indication of tocilizumab to the treatment in combination with methotrexate (MTX) of juvenile idiopathic polyarthritis (rheumatoid factor positive or negative and extended oligoarthritis) in patients 2 years of age and older, who have responded inadequately to previous therapy with MTX. Sections 1, 2, 3, 4 and 6 of the Package Leaflet are updated accordingly. In addition, the MAH took the opportunity to include minor editorial changes throughout the PI. The requested variation proposed amendments to the Summary of Product Characteristics, Annex II and Package Leaflet.</p> <p>C.I.6.a - Change(s) to therapeutic indication(s) - Addition of a new therapeutic indication or modification of an approved one</p>	25/04/2013	30/05/2013	SmPC, Annex II and PL	Please refer to the Scientific Discussion RoActemra/H/C/00955/II/26 for further information.
II/0028	<p>Update of section 5.1 of the SmPC in order to include results of a Phase IV, two-arm, randomized, parallel-group, double blind study investigating the reduction of signs and symptoms during monotherapy treatment with tocilizumab 8 mg/kg intravenously versus adalimumab 40 mg subcutaneously in patients with rheumatoid arthritis. Furthermore, the MAH took this opportunity to bring the PI in line with the latest QRD template version 8</p>	13/12/2012	30/05/2013	SmPC, Annex II, Labelling and PL	This type II variation is aimed to amend section 5.1 Pharmacodynamic properties of the SmPC to include the results of study WA19924, a Phase IV multicentre, randomised, double-blind, parallel-group study investigating the reduction of signs and symptoms during monotherapy treatment with tocilizumab (TCZ) 8 mg/kg intravenously versus adalimumab (ADA) 40 mg subcutaneously in patients with RA who were intolerant to methotrexate (MTX) or where continued treatment with

	<p>(revision 2) and to update the Package Leaflet based on the results of consultation with target patient groups.</p> <p>C.I.4 - Variations related to significant modifications of the SPC due in particular to new quality, pre-clinical, clinical or pharmacovigilance data</p>				<p>MTX was inappropriate. Study WA19924 met its primary endpoint and demonstrated a statistically significant superior effect on control of disease activity from baseline to Week 24 with TCZ monotherapy compared with ADA monotherapy. The safety data of study WA19924 were consistent with the label of TCZ. The CHMP concluded that these new data do not change the benefit risk profile of TCZ in the treatment of RA.</p>
IG/0228	C.I.z - Changes (Safety/Efficacy) of Human and Veterinary Medicinal Products - Other variation	23/11/2012	n/a		
II/0027	<p>Update of section 4.4 of the SmPC in order to add a warning regarding the risk of false negative screening tests for tuberculosis in line with a request from the CHMP made following the assessment of a PSUR. The Package Leaflet is updated accordingly.</p> <p>C.I.3.b - Implementation of change(s) requested following the assessment of an USR, class labelling, a PSUR, RMP, FUM/SO, data submitted under Article 45/46, or amendments to reflect a Core SPC - Change(s) with new additional data submitted by the MAH</p>	18/10/2012	22/11/2012	SmPC and PL	<p>Review of literature data did not provide evidence of a direct link between the use of tocilizumab and changes in the sensitivity and specificity of tests for tuberculosis (TB) infection. However, false negative screening tests for TB (including interferon-gamma TB blood test) under tocilizumab exposition have been reported and a causal relationship cannot be excluded. Information about the risk of false negative tests for tuberculosis has been therefore added to the product information.</p>
IB/0025	B.I.a.1.f - Change in the manufacturer of AS or of a starting material/reagent/intermediate for AS - Changes to quality control testing arrangements for the AS -replacement or addition of a site where batch control/testing takes place	02/08/2012	n/a		

IB/0024	B.I.b.2.c - Change in test procedure for AS or starting material/reagent/intermediate - Other changes to a test procedure for a reagent, which does not have a significant effect on the overall quality of the AS	29/06/2012	n/a		
IB/0023	C.I.3.a - Implementation of change(s) requested following the assessment of an USR, class labelling, a PSUR, RMP, FUM/SO, data submitted under A 45/46, or amendments to reflect a Core SPC - Changes with NO new additional data are submitted by the MAH	28/06/2012	22/11/2012	SmPC	Deletion of text in SmPC section 4.8 relating to neutropenia and risk of infections as requested by CHMP following the assessment of FUM.
II/0022	Update of sections 4.4 and 4.8 of the SmPC in order to update the safety information regarding the risk of infection related to Interstitial Lung Disease, as requested by the CHMP in the outcome of the most recent PSUR assessment. In addition, the MAH took the opportunity to update the list of local representatives in the Package Leaflet. C.I.3.b - Implementation of change(s) requested following the assessment of an USR, class labelling, a PSUR, RMP, FUM/SO, data submitted under Article 45/46, or amendments to reflect a Core SPC - Change(s) with new additional data submitted by the MAH	19/04/2012	25/05/2012	SmPC and PL	Interstitial Lung Disease (ILD) has been recognised as a risk factor for serious infections and poor outcomes, including death. Based on comparison of the data reported for RoActemra and the data available in the literature, the CHMP concluded that at this time there is no clear evidence that the risk of death is specific to therapy with tocilizumab, as compared with other biologics and immunosuppressive agents. The SmPC has been updated with information on the ILD as an important risk factor for infections, and that postmarketing cases of ILD have been reported for tocilizumab.
IG/0161	C.I.9.i - Changes to an existing pharmacovigilance system as described in the DDPS - Change(s) to a DDPS following the assessment of the same DDPS in relation to another medicinal product of the same	14/03/2012	n/a		

	MAH				
IG/0125	C.I.9.i - Changes to an existing pharmacovigilance system as described in the DDPS - Change(s) to a DDPS following the assessment of the same DDPS in relation to another medicinal product of the same MAH	06/12/2011	n/a		
IG/0092/G	This was an application for a group of variations. C.I.9.a - Changes to an existing pharmacovigilance system as described in the DDPS - Change in the QPPV C.I.9.h - Changes to an existing pharmacovigilance system as described in the DDPS - Other change(s) to the DDPS that does not impact on the operation of the pharmacovigilance system	08/08/2011	n/a		
II/0015	Extension of the indication for the treatment of active systemic juvenile idiopathic arthritis (sJIA) in patients 2 years of age and older, who have responded inadequately to previous therapy with NSAIDs and systemic corticosteroids. Consequentially, sections 4.1, 4.2, 4.4, 4.8, 5.1, 5.2, 5.3 and 6.6 of the SmPC have been updated. Annex II, IIIA and the package leaflet have been updated accordingly. Annex II has also been updated to delete the DDPS version number and reflect the last version of the RMP. C.I.6.a - Change(s) to therapeutic indication(s) -	19/05/2011	01/08/2011	SmPC, Annex II, Labelling and PL	Please refer to the Scientific Discussion "RoActemra/H/C/000955/II/15" for further information.

	Addition of a new therapeutic indication or modification of an approved one				
II/0013	<p>Update of sections 4.2, 4.4 and 4.8 of the SmPC with information regarding serious infections, monitoring of liver function tests including bilirubin, the frequency of "Total bilirubin increased" and "Hypercholesterolaemia" as well as neutropenia and the use in patients with lower absolute neutrophil count. The PL has been amended accordingly. The Alert card has also been amended to include text on reactivation of infections, including hepatitis B. This variation application is submitted further to the request of the CHMP following assessment of PSUR 2. Annex II is also updated to reflect the version number of the revised RMP.</p> <p>C.I.3.b - Implementation of change(s) requested following the assessment of an USR, class labelling, a PSUR, RMP, FUM/SO, data submitted under Article 45/46, or amendments to reflect a Core SPC - Change(s) with new additional data submitted by the MAH</p>	17/02/2011	18/03/2011	SmPC, Annex II, Labelling and PL	<p>The MAH agreed to implement the changes requested by the CHMP further to the assessment of the RoActemra PSUR#2 regarding monitoring of liver function tests, changes to the frequency of "Total bilirubin increased" and "Hypercholesterolaemia".</p> <p>Based on the fact that baseline pre-treatment neutrophil counts are the strongest predictor of subsequent neutropenia with tocilizumab treatment, the MAH agreed to update the SmPC to state that initiation of treatment is not recommended in patients with absolute neutrophil count below 2 x 10⁹/l.</p> <p>The MAH also updated the SmPC to mention that serious and sometimes fatal infections have been reported in patients receiving immunosuppressive agents including RoActemra.</p>
II/0016/G	<p>This was an application for a group of variations.</p> <p>Changes in the manufacture of the finished product</p> <p>B.II.b.3.c - Change in the manufacturing process of the finished product - The product is a biological/immunological medicinal product and the</p>	20/01/2011	31/01/2011		

	change requires an assessment of comparability B.II.b.4.c - Change in the batch size (including batch size ranges) of the finished product - The change requires assessment of the comparability of a biological/immunological medicinal product				
II/0014	<p>Update of sections 4.4 and 4.8 of the SPC following a post-marketing report of a patient who experienced a fatal anaphylactic reaction with her 5th infusion of RoActemra. The PL is updated accordingly. Annex II is also updated to reflect the version number of the revised RMP submitted with this application.</p> <p>C.I.4 - Variations related to significant modifications of the SPC due in particular to new quality, pre-clinical, clinical or pharmacovigilance data</p>	18/11/2010	20/12/2010	SmPC, Annex II and PL	The MAH proposes to amend section 4.4 of the SmPC to warn prescribers that if an anaphylactic or other serious hypersensitivity/serious infusion related reaction occurs, administration of tocilizumab should be stopped immediately and RoActemra should be permanently discontinued. Section 4.8 has been amended to reflect that the fatal anaphylaxis has been reported after marketing authorisation during treatment with tocilizumab. The recommended changes to the SmPC are intended to clarify patient management in cases of anaphylaxis and serious hypersensitivity reactions. The frequency of hypersensitivity reactions has been amended in the PL, to reflect the adverse drug reaction table in the SmPC.
II/0007	<p>Extension of the indication to include a statement that RoActemra reduces the progression of joint damage and improves physical function when given in combination with methotrexate. Changes have been included to sections 4.1, 4.2, 4.4, 4.8, 5.1, 5.2, 5.3 of the SmPC. The package leaflet has been updated accordingly. Moreover, Annex II has been updated to reflect the latest agreed RMP version number. Minor corrections have also been made to section 10 of the SmPC.</p> <p>Extension of Indication</p>	22/04/2010	04/06/2010	SmPC, Annex II and PL	Please refer to the Scientific Discussion "RoActemra/H/C/000955/II/007" for further information.

II/0010	<p>Roche - Update of the detailed description of the pharmacovigilance system (version 4.1). Annex II has been updated accordingly. In addition, Annex II has been updated in line with the latest QRD templates.</p> <p>Update of DDPS (Pharmacovigilance)</p>	18/03/2010	27/04/2010	Annex II	<p>With this variation the MAH submitted a new version of the DDPS (core version 4.1) in accordance with the current Pharmacovigilance guideline. After assessing the documentation the CHMP concluded that the submitted DDPS contained all required elements. Consequently, Annex II has been updated with the new version number of the agreed core DDPS.</p>
II/0009	<p>Update of section 4.6 of the summary of product characteristics to modify the duration of contraception required for female patients from 6 months to 3 months after the last dose of tocilizumab treatment. The package leaflet has been updated accordingly.</p> <p>Update of Summary of Product Characteristics and Package Leaflet</p>	18/02/2010	30/03/2010	SmPC and PL	<p>The t_{1/2} life of tocilizumab is approximately 13 days. Therefore, follow up for 65 days should be sufficient, and 90 days adequate, and allows for inter- patient variability. The MAH has shown that markers for tocilizumab mechanism of action (soluble interleukin 6 receptor and C-Reactive Protein [CRP]) returned to baseline after a period of 5 t_{1/2} lives.</p> <p>Therefore the modification of the duration of contraception required for patients from 6 to 3 months after the last dose of tocilizumab is endorsed by the CHMP.</p>
II/0008	<p>Update of section 4.4 of the summary of product characteristics to include information regarding the association between severe neutropenia and serious infections further to the request of the CHMP in conjunction with the assessment of PSUR 1 covering the period 11 October 2008 to 10 April 2009.</p> <p>Update of Summary of Product Characteristics</p>	18/02/2010	30/03/2010	SmPC	<p>Further to the assessment of the RoActemra PSUR No. 1 - Period covered: 11 October 2008 - 10 April 2009, the CHMP requested the MAH to update the SmPC to mention that treatment related neutropenia can increase the risk of serious infections. Although no clear association between severe neutropenia and serious infections has been seen to date in clinical trials with RoActemra, the MAH agreed to update section 4.4 of the SmPC as recommended by the CHMP.</p>
II/0012	<p>Change to the manufacture of the drug product</p>	18/03/2010	29/03/2010		

	Change(s) to the manufacturing process for the finished product				
II/0011	Changes to the storage of the drug substance and drug product Change(s) to the manufacturing process for the active substance	18/03/2010	23/03/2010		
II/0005	Update of section 4.8 of the summary of product characteristics regarding gastrointestinal perforations based on a review of safety data. Annex II has been updated with the new version number (version 5.0) of the adopted RMP. Update of Summary of Product Characteristics and Labelling	22/10/2009	20/11/2009	SmPC and Annex II	As of 31st December 2008, 40 cases of gastrointestinal perforation have been reported with tocilizumab (33 confirmed cases, 4 suspected cases, plus 3 iatrogenic/trauma cases). Thirty-two perforations were located in the lower GI tract and at least 56% of these were associated with diverticular disease. Most cases had confounding factors such as NSAID/corticosteroid use, past medical history of diverticulitis, inflammatory bowel disease and/or peptic ulcer disease. However, there have been a few reports of gastrointestinal perforation that were not associated with diverticular disease. Epidemiological data indicate that the incidence of GI perforations with tocilizumab does not appear to be significantly higher than expected in the RA population. The SPC has been updated to include additional information on gastrointestinal perforation.
II/0006	Change to the control of the drug substance Change(s) to the test method(s) and/or specifications for the active substance	22/10/2009	12/11/2009		

II/0004	<p>Update of section 4.5 of the Summary of Product Characteristics (SPC) regarding pharmacokinetics of simvastatin and methotrexate in combination with tocilizumab. Additionally, a correction has been made to remove the requirement for monitoring of medicinal products metabolized via CYP2C19.</p> <p>Update of Summary of Product Characteristics</p>	24/09/2009	28/10/2009	SmPC	<p>This variation application was submitted in order to update the SPC to reflect the results of a drug interaction study designed to investigate the pharmacokinetics of simvastatin (a substrate for CYP3A4) and methotrexate (MTX) in combination with tocilizumab (TCZ) in rheumatoid arthritis (RA) patients.</p> <p>This study demonstrated that administration of TCZ in RA patients significantly reduced the exposure of simvastatin to levels close to those found in non-RA patients and this effect persisted for 5 weeks after TCZ administration. In addition, TCZ administration had no effect on MTX exposures.</p> <p>Additionally, a correction has been made to remove the requirement for monitoring of medicinal products metabolized via CYP2C19 based on a drug interaction study with omeprazole (a CYP2C19 substrate) which demonstrated that the effect of tocilizumab on omeprazole is not clinically meaningful.</p>
II/0003	<p>Update of sections 4.2 and 4.4 of the Summary of Product Characteristics (SPC) regarding dose recommendations if liver function test abnormalities are observed.</p> <p>Following the linguistic review process during January 2009, corrections have been made to the Bulgarian, Czech Republic, Danish and Dutch Annexes and to the contact details of the Latvian representative.</p> <p>Update of Summary of Product Characteristics and Package Leaflet</p>	24/09/2009	28/10/2009	SmPC and PL	<p>Following an internal review of the current SPC, the MAH identified the need for improvement regarding the recommendations on dose modification for liver function test. The SPC has been revised in order to ensure that consistent advice is given on how to handle alanine aminotransferase/aspartate aminotransferase (ALT/AST) elevations of > 1 to 3 x upper limit of normal (ULN), regardless of whether levels had decreased from > 3 to 5 x ULN or not. The CHMP concluded that the recommendations for the clinical management of liver enzyme elevations remain essentially unchanged and are accepted. However it should be emphasised that the patients should be carefully monitored while being treated</p>

					with the reduced dose of RoActemra or after restarting the full dose treatment or the treatment after interruption. There is no information available at the time being that the proposed dose amendment is safe for the patients with impaired liver function especially during long term treatment.
II/0002	Changes to the manufacturing process and control of the drug substance Change(s) to the manufacturing process for the active substance	24/09/2009	29/09/2009		
IB/0001	IB_17_b_Change in the storage conditions for the active substance	01/04/2009	n/a		