



## M-M-RVAXPRO

### Procedural steps taken and scientific information after the authorisation

| Application number | Scope   | Opinion/ Notification <sup>1</sup> issued on | Commission Decision Issued <sup>2</sup> / amended on | Product Information affected <sup>3</sup> | Summary   |
|--------------------|---|--|--|---|---|
| PSUSA/1937/201805  | Periodic Safety Update EU Single assessment - measles / mumps / rubella vaccines (live, attenuated)   | 31/01/2019                                   | 08/04/2019   | SmPC and PL                               | Refer to Scientific conclusions and grounds recommending the variation to terms of the Marketing Authorisation(s) <sup>4</sup> for PSUSA/1937/201805. |
| WS/1578            | This was an application for a variation following a worksharing procedure according to Article 20 of Commission Regulation (EC) No 1234/2008.<br><br>B.I.b.1.c - Change in the specification parameters | 04/04/2019                                   | n/a  |   |   |

<sup>1</sup> 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.

<sup>2</sup> 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.

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



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|           | and/or limits of an AS, starting material/intermediate/reagent - Addition of a new specification parameter to the specification with its corresponding test method  |            |     |  |  |
| WS/1512   | This was an application for a variation following a worksharing procedure according to Article 20 of Commission Regulation (EC) No 1234/2008.<br><br>B.II.e.z - Change in container closure system of the Finished Product - Other variation  | 17/01/2019 | n/a |  |  |
| IG/0977   | B.II.c.3.z - Change in source of an excipient or reagent with TSE risk - Other variation  | 19/10/2018 | n/a |  |  |
| IG/0973   | A.7 - Administrative change - Deletion of manufacturing sites   | 21/09/2018 | n/a |  |  |
| IB/0088/G | This was an application for a group of variations.<br><br>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<br>B.I.b.2.a - Change in test procedure for AS or starting material/reagent/intermediate - Minor changes to an approved test procedure<br>B.I.a.2.a - Changes in the manufacturing process of the AS - Minor change in the manufacturing process of the AS | 27/03/2018 | n/a |  |  |

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| N/0087    | Minor change in labelling or package leaflet not connected with the SPC (Art. 61.3 Notification)   | 19/02/2018 | 08/04/2019 | Labelling |  |
| WS/1325   | This was an application for a variation following a worksharing procedure according to Article 20 of Commission Regulation (EC) No 1234/2008.<br><br>B.II.z - Quality change - Finished product - Other variation  | 18/01/2018 | n/a        |           |  |
| IG/0856/G | This was an application for a group of variations.<br><br>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<br>B.II.f.1.e - Stability of FP - Change to an approved stability protocol  | 10/11/2017 | n/a        |           |  |
| II/0080   | Update of section 4.8 of the SmPC to correct the frequency of the adverse reaction 'Fever (38.5°C or higher)' to 'very common'. In addition, the MAH took the opportunity to make some other editorial changes in the product information and to make corrections in the Finnish, Hungarian, Italian, Norwegian, Slovakian and Swedish product information.<br><br>C.I.4 - Change(s) in the SPC, Labelling or PL due to new quality, preclinical, clinical or pharmacovigilance data | 18/05/2017 | 15/12/2017 | SmPC      |  |

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| N/0084  | Minor change in labelling or package leaflet not connected with the SPC (Art. 61.3 Notification)   | 24/03/2017 | 15/12/2017 | PL                           |  |
| IG/0777 | A.1 - Administrative change - Change in the name and/or address of the MAH   | 23/02/2017 | 15/12/2017 | SmPC,<br>Labelling and<br>PL |  |
| WS/1029 | This was an application for a variation following a worksharing procedure according to Article 20 of Commission Regulation (EC) No 1234/2008.<br><br>B.I.b.2.a - Change in test procedure for AS or starting material/reagent/intermediate - Minor changes to an approved test procedure | 19/01/2017 | n/a        |                              |  |
| IG/0758 | A.1 - Administrative change - Change in the name and/or address of the MAH   | 11/01/2017 | 15/12/2017 | SmPC,<br>Labelling and<br>PL |  |
| N/0081  | Update of the package leaflet with revised contact details of the local representatives.<br><br>Minor change in labelling or package leaflet not connected with the SPC (Art. 61.3 Notification)   | 21/12/2016 | 15/12/2017 | PL                           |  |
| WS/0989 | This was an application for a variation following a worksharing procedure according to Article 20 of Commission Regulation (EC) No 1234/2008.<br><br>B.I.a.2.a - Changes in the manufacturing process of the AS - Minor change in the manufacturing process of the AS                    | 08/12/2016 | n/a        |                              |  |

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| IG/0741               | B.I.b.2.a - Change in test procedure for AS or starting material/reagent/intermediate - Minor changes to an approved test procedure  | 25/11/2016 | n/a |  |                                   |
| IG/0696               | 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 | 20/06/2016 | n/a |  |                                   |
| IG/0695               | B.II.b.3.a - Change in the manufacturing process of the finished or intermediate product - Minor change in the manufacturing process                                       | 08/06/2016 | n/a |  |                                   |
| IG/0687               | B.II.b.3.a - Change in the manufacturing process of the finished or intermediate product - Minor change in the manufacturing process                                       | 30/05/2016 | n/a |  |                                   |
| IB/0073               | B.I.a.2.a - Changes in the manufacturing process of the AS - Minor change in the manufacturing process of the AS   | 10/03/2016 | n/a |  |                                   |
| PSUSA/1937/<br>201505 | Periodic Safety Update EU Single assessment - measles / mumps / rubella vaccines (live, attenuated)  | 14/01/2016 | n/a |  | PRAC Recommendation - maintenance |
| IG/0625               | 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            | 16/11/2015 | n/a |  |                                   |
| WS/0786               | This was an application for a variation following a worksharing procedure according to Article 20 of Commission Regulation (EC) No 1234/2008.                              | 17/09/2015 | n/a |  |                                   |

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|         | B.II.c.z - Change in control of excipients in the Finished Product - Other variation  |            |            |                                  |  |
| N/0069  | Minor change in labelling or package leaflet not connected with the SPC (Art. 61.3 Notification)  | 27/05/2015 | 15/12/2017 | PL                               |  |
| IG/0511 | A.4 - Administrative change - Change in the name and/or address of a manufacturer or an ASMF holder or supplier of the AS, starting material, reagent or intermediate used in the manufacture of the AS or manufacturer of a novel excipient  | 08/12/2014 | n/a        |                                  |  |
| WS/0492 | <p>This was an application for a variation following a worksharing procedure according to Article 20 of Commission Regulation (EC) No 1234/2008.</p> <p>Update of section 4.8 of the ProQuad and M-M-RVaxpro SmPC to clarify that in severely immunocompromised individuals inadvertently vaccinated with measles-containing vaccine, measles inclusion body encephalitis, pneumonitis, and fatal outcome as a direct consequence of disseminated measles vaccine virus infection have been reported; disseminated mumps and rubella vaccine virus infection has also been reported. Further, minor editorial changes have been implemented in the Package Leaflet and SmPC for ProQuad, the M-M-RVaxpro annexes have been aligned with the latest QRD template version 9.0 and minor editorial changes implemented in the labelling for M-M-RVaxpro.</p> | 20/11/2014 | 09/04/2015 | SmPC, Annex II, Labelling and PL | A published article, which described a study of more than two million children, suggested that MMR vaccines were not associated with an increased risk of encephalopathy after vaccination per se. However, measles inclusion body encephalitis, pneumonitis and death as a direct consequence of disseminated measles vaccine virus infection have been reported post-marketing in severely immunocompromised individuals that were - in spite of the contraindication - vaccinated with measles-containing vaccines. As a consequence, the existing statement in the product information concerning encephalitis and encephalopathy was clarified. |

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|         | C.I.4 - Change(s) in the SPC, Labelling or PL due to new quality, preclinical, clinical or pharmacovigilance data  |            |            |                              |  |
| IG/0493 | B.II.d.1.c - Change in the specification parameters and/or limits of the finished product - Addition of a new specification parameter to the specification with its corresponding test method  | 21/10/2014 | n/a        |                              |  |
| IG/0487 | B.I.b.1.d - Change in the specification parameters and/or limits of an AS, starting material/intermediate/reagent - Deletion of a non-significant specification parameter (e.g. deletion of an obsolete parameter)   | 10/10/2014 | n/a        |                              |  |
| IB/0065 | To add Merck Sharp and Dohme Corp., Vaccine Manufacturing Facility, 5325 Old Oxford Road, Durham, North Carolina, U.S. 27712 as finished product QC testing site for characteristics, restoration, pH, moisture and sterility.<br><br>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 | 02/09/2014 | n/a        |                              |  |
| IG/0435 | A.1 - Administrative change - Change in the name and/or address of the MAH   | 06/05/2014 | 09/04/2015 | SmPC,<br>Labelling and<br>PL |  |
| IG/0429 | A.5.b - Administrative change - Change in the name   | 16/04/2014 | n/a        |                              |  |

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|           | and/or address of a manufacturer/importer of the finished product, including quality control sites (excluding manufacturer for batch release)  |            |     |  |  |
| IG/0434   | 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  | 09/04/2014 | n/a |  |  |
| IB/0058/G | This was an application for a group of variations.<br><br>B.II.d.2.d - Change in test procedure for the finished product - Other changes to a test procedure (including replacement or addition)<br>B.II.d.1.z - Change in the specification parameters and/or limits of the finished product - Other variation  | 29/01/2014 | n/a |  |  |
| II/0057/G | This was an application for a group of variations.<br><br>additional manufacturing site for finished product and change in immediate packaging of finished product<br><br>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<br>B.II.e.1.a.3 - Change in immediate packaging of the finished product - Qualitative and quantitative composition - Sterile medicinal products and | 18/12/2013 | n/a |  |  |



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|           | biological/immunological medicinal products   |            |            |    |  |
| IB/0056   | B.I.a.3.e - Change in batch size (including batch size ranges) of AS or intermediate - The scale for a biological/immunological AS is increased/decreased without process change (e.g. duplication of line)   | 17/10/2013 | n/a        |    |  |
| IB/0055   | B.II.c.1.b - Change in the specification parameters and/or limits of an excipient - Addition of a new specification parameter to the specification with its corresponding test method   | 12/09/2013 | n/a        |    |  |
| WS/0404/G | <p>This was an application for a group of variations following a worksharing procedure according to Article 20 of Commission Regulation (EC) No 1234/2008.</p> <p>Update of analytical methods in order to align with compendial procedures and guidances</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.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> | 25/07/2013 | n/a        |    |  |
| N/0052    | Inclusion of additional local representative of the marketing authorisation holder for the new member state Croatia.  | 01/07/2013 | 09/04/2015 | PL |  |

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|          | Minor change in labelling or package leaflet not connected with the SPC (Art. 61.3 Notification)  |            |            |                       |  |
| IG/0312  | C.I.z - Changes (Safety/Efficacy) of Human and Veterinary Medicinal Products - Other variation  | 13/06/2013 | n/a        |                       |  |
| WS/0349  | This was an application for a variation following a worksharing procedure according to Article 20 of Commission Regulation (EC) No 1234/2008.<br><br>change in the test procedure of the active substance<br><br>B.I.b.2.d - Change in test procedure for AS or starting material/reagent/intermediate - Change (replacement) to a biological/immunological/ immunochemical test method or a method using a biological reagent for a biological AS  | 25/04/2013 | n/a        |                       |  |
| A20/0045 | Art 20 review:<br><br>Pursuant to Article 20 of Regulation (EC) No 726/2004, the European Commission requested on 15 March 2012, the opinion of the CHMP further to the evaluation of the most recent published data and post marketing surveillance regarding the vaccination with measles, mumps, rubella and varicella vaccines in pregnant women and immunocompromised subjects. The CHMP was requested to assess the impact thereof on the risk-benefit balance of M-M-RVAXPRO in these specific populations and to give its opinion whether the marketing authorisation of this product should be maintained, varied, suspended or withdrawn. | 13/12/2012 | 20/02/2013 | SmPC, Annex II and PL | Please refer to the Assessment Report: M-M-RVAXPRO-H-604-A20-45-Assessment Report-Article 20 |

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| IG/0261/G | <p>This was an application for a group of variations.</p> <p>B.III.1.b.3 - Submission of a new or updated Ph. Eur. TSE Certificate of suitability - Updated certificate from an already approved manufacturer</p> <p>B.III.1.b.3 - Submission of a new or updated Ph. Eur. TSE Certificate of suitability - Updated certificate from an already approved manufacturer</p> | 30/01/2013 | n/a        |    |  |
| IB/0048   | B.II.b.1.z - Replacement or addition of a manufacturing site for the FP - Other variation   | 12/07/2012 | n/a        |    |  |
| IA/0047   | A.7 - Administrative change - Deletion of manufacturing sites   | 11/06/2012 | n/a        |    |  |
| II/0042   | <p>Change in the manufacturer of a raw material for AS</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>   | 19/04/2012 | 19/04/2012 |    |  |
| N/0043    | Minor change in labelling or package leaflet not connected with the SPC (Art. 61.3 Notification)  | 16/04/2012 | 20/02/2013 | PL |  |
| IG/0156   | 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   | 24/02/2012 | n/a        |    |  |

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|           | pharmacovigilance system   |            |            |  |  |
| II/0034   | <p>Change in the manufacturer of a raw material for AS</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>  | 15/12/2011 | 15/12/2011 |  |  |
| IA/0035   | B.III.1.b.3 - Submission of a new or updated Ph. Eur. TSE Certificate of suitability - Updated certificate from an already approved manufacturer   | 21/11/2011 | n/a        |  |  |
| II/0033   | <p>Change in test procedure for the active substance.</p> <p>B.I.b.2.d - Change in test procedure for AS or starting material/reagent/intermediate - Change (replacement) to a biological/immunological/ immunochemical test method or a method using a biological reagent for a biological AS</p>   | 17/11/2011 | 17/11/2011 |  |  |
| II/0031/G | <p>This was an application for a group of variations.</p> <p>To introduce a change in a manufacturer of a raw material.</p> <p>-To submit updated TSE certificates of suitability for reagents.</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</p> | 22/09/2011 | 22/09/2011 |  |  |

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|           | [-] used in the manufacture of a biological/immunological product<br>B.III.1.b.3 - Submission of a new or updated Ph. Eur. TSE Certificate of suitability - Updated certificate from an already approved manufacturer |            |            |                                  |   |
| IG/0085   | A.5.b - Administrative change - Change in the name and/or address of a manufacturer of the finished product, including quality control sites (excluding manufacturer for batch release)                               | 08/07/2011 | n/a        |                                  |   |
| R/0027    | Renewal of the marketing authorisation.   | 17/03/2011 | 05/05/2011 | SmPC, Annex II, Labelling and PL | During the renewal period no major change to the manufacture of the M-M-RVAXPRO was implemented. Taking into account all the variations and Follow-Up Measures (FUMs) that have been approved by the CHMP and given that the MAH commits to submit the data requested in the ongoing follow-up measures (FUMs that have not been fulfilled yet), it can be concluded that the product M-M-RVAXPRO conforms to the current CHMP quality guidelines. No change in the immunogenicity profile or efficacy of M-M-RVAXPRO was observed in clinical trials conducted since initial marketing authorisation. With respect to safety data no new specific safety concern was raised in clinical trials. The safety results provided in the PSUR data did not indicate any new safety signal or new adverse events, which are not covered in section 4.8 of the SmPC. Based on the data available the benefit/risk balance of M-M-RVAXPRO remains positive. The proposed SmPC, PIL and labelling were endorsed by the CHMP. The CHMP is of the opinion that the renewal can be granted with unlimited validity. |
| IA/0030/G | This was an application for a group of variations.  | 03/05/2011 | n/a        |                                  |   |

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|           | <p>B.II.d.1.d - Change in the specification parameters and/or limits of the finished product - Deletion of a non-significant specification parameter (e.g. deletion of an obsolete parameter)</p> <p>B.II.d.1.d - Change in the specification parameters and/or limits of the finished product - Deletion of a non-significant specification parameter (e.g. deletion of an obsolete parameter)</p>  |            |     |  |  |
| IB/0029   | B.II.b.3.z - Change in the manufacturing process of the finished product - Other variation   | 29/04/2011 | n/a |  |  |
| IG/0059/G | <p>This was an application for a group of variations.</p> <p>C.I.9.a - Changes to an existing pharmacovigilance system as described in the DDPS - Change in the QPPV</p> <p>C.I.9.c - Changes to an existing pharmacovigilance system as described in the DDPS - Change of the back-up procedure of the QPPV</p> <p>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</p> | 15/04/2011 | n/a |  |  |
| IB/0028/G | <p>This was an application for a group of variations.</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</p>  | 17/12/2010 | n/a |  |  |

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|           | product - Other changes to a test procedure (including replacement or addition)   |            |            |             |  |
| WS/0044   | <p>This was an application for a variation following a worksharing procedure according to Article 20 of Commission Regulation (EC) No 1234/2008.</p> <p>To implement a change in the immediate packaging of the finished product.</p> <p>B.II.e.1.b.2 - Change in immediate packaging of the finished product - Type of container - Sterile medicinal products and biological/immunological medicinal products</p>  | 23/09/2010 | 25/10/2010 | SmPC and PL |  |
| WS/0019/G | <p>This was an application for a group of variations following a worksharing procedure according to Article 20 of Commission Regulation (EC) No 1234/2008.</p> <p>B.I.a.2.c. Changes in the manufacturing process of the active substance. The change refers to a biological/immunological substance or use of a different chemically derived substance in the manufacture of a biological/immunological medicinal product and is not related to a protocol.</p> <p>B.I.a.4.b. Change to in-process tests or limits applied during the manufacture of the active substance. Addition of a new on-process test and limits.</p> <p>B.I.a.2.c - Changes in the manufacturing process of the AS - The change refers to a [-] substance in the</p> | 23/09/2010 | 23/09/2010 |             |  |

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|         | <p>manufacture of a biological/immunological medicinal product and is not related to a protocol</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>  |            |            |                       |   |
| II/0024 | <p>To extend the indication to include administration to healthy children from 9 months of age under special circumstances, in accordance with official recommendations or when an early protection is considered necessary (e.g., day-care, outbreak situations, or travel to a region with high prevalence of measles). The MAH took further the opportunity to update Annex II to reflect the current version of the Risk Management Plan and to implement the new QRD templates.</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> | 22/07/2010 | 06/09/2010 | SmPC, Annex II and PL | For further information please refer to the Scientific Discussion: M-M-RVAXPRO-H-604-II-24-AR |
| WS/0018 | <p>This was an application for a variation following a worksharing procedure according to Article 20 of Commission Regulation (EC) No 1234/2008.</p> <p>B.I.b.2.e) Change in the test procedure for active substance or starting material/reagent/intermediate used in the manufacturing process of the active substance. Other changes to a test procedure (including replacement or addition) of the active substance or a starting material/intermediate.</p>   | 22/07/2010 | 22/07/2010 |                       |   |



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|           | 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  |            |            |             |   |
| IA/0025   | B.II.d.1.d - Change in the specification parameters and/or limits of the finished product - Deletion of a non-significant specification parameter (e.g. deletion of an obsolete parameter)  | 05/05/2010 | n/a        |             |   |
| IA/0023/G | <p>This was an application for a group of variations.</p> <p>To change in the name of the Drug substance and drug product manufacturer. Following the merger between Merck &amp; Co., Inc. and Schering-Plough Corporation, the name of the company has changed from Merck &amp; Co., Inc. to Merck Sharp &amp; Dohme Corp.</p> <p>A.4 - Administrative change - Change in the name and/or address of a manufacturer or supplier of the AS, starting material, reagent or intermediate used in the manufacture of the AS</p> <p>A.5.b - Administrative change - Change in the name and/or address of a manufacturer of the finished product, including quality control sites (excluding manufacturer for batch release)</p> | 26/03/2010 | n/a        | Annex II    |   |
| II/0022   | Change(s) to the manufacturing process for the finished product   | 18/03/2010 | 23/03/2010 |             |   |
| II/0021   | To update section 4.5 of the SmPC to include information on the concomitant use of M-M-RVAXPRO  | 21/01/2010 | 15/03/2010 | SmPC and PL | The modification sought within this variation was to obtain approval for the concomitant administration of MM-RVAXPRO |

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|         | <p>with Prevenar and/or hepatitis A vaccine based on 4 clinical studies (P019, P066, P067 and P057). Section 2 of the PL was updated accordingly.</p> <p>In addition, the MAH took the opportunity to modify section 6.6 of the SmPC to improve the reconstitution instructions. Section 6 of the PL was updated in agreement to it.</p> <p>Update of Summary of Product Characteristics and Package Leaflet</p> |            |            |                 | <p>with Prevenar and/or hepatitis A vaccine.</p> <p>Based on studies conducted with ProQuad (measles, mumps, rubella, and varicella virus vaccine) and M-M-RII/ M-M-RVAXPRO (measles, mumps and rubella) the clinical data analysed (protocols P019, P066, P067 and P057) confirmed that M-M-RVAXPRO can be administered concomitantly with hepatitis A vaccine (VAQTA) and pneumococcal conjugate vaccine (Prevenar-Pneumococcal 7-valent conjugate vaccine) without impairing antibody responses to measles, mumps, rubella, hepatitis A, or the serotypes of <i>S. pneumoniae</i> included in pneumococcal conjugate vaccine. The data also demonstrated that the concomitant administration of M-M-RVAXPRO with hepatitis A vaccine and pneumococcal conjugate vaccine had an acceptable safety profile. The results were appropriated to support concomitant administration of M-M-RVAXPRO with hepatitis A vaccine and pneumococcal conjugate vaccine. The vaccine demonstrated a favorable benefit/risk profile, and the proposed prescribing information for M-M-RVAXPRO was supported by the data analysed.</p> <p>No safety concern was established by the concomitant use of ProQuad/MMRVAXPRO, VAQTA and Prevenar.</p> |
| II/0020 | <p>Update of the detailed description of pharmacovigilance system (DDPS) including the change of the Qualified Person Responsible for Pharmacovigilance (QPPV). The version number of the DDPS in Annex II has been updated accordingly. In addition, the MAH made minor amendments to the list of representatives of Denmark, Latvia and Malta in the Package Leaflet (PL).</p>                                 | 17/12/2009 | 19/01/2010 | Annex II and PL | <p>The DDPS has been updated to version 2.0 in order to reflect the change of the QPPV as well as to notify other changes to the DDPS performed since the last approved version. Consequently, Annex II has been updated using the standard text including the new version number of the agreed DDPS. The CHMP considers that the Pharmacovigilance System as described by the MAH fulfils the requirements.</p>   |

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|         | Update of Summary of Product Characteristics, Labelling and Package Leaflet   |            |            |  |  |
| II/0019 | Change(s) to the manufacturing process for the active substance   | 17/12/2009 | 06/01/2010 |  |  |
| II/0018 | Change in the shelf - life of the active substance.<br><br>Change(s) to shelf-life or storage conditions  | 22/10/2009 | 30/10/2009 |  |  |
| IA/0017 | IA_22_a_Submission of TSE Ph. Eur. certificate for exc. - Approved/new manufacturer   | 09/06/2009 | n/a        |  |  |
| IA/0016 | IA_25_b_01_Change to comply with Ph. - compliance with EU Ph. update - active substance   | 25/03/2009 | n/a        |  |  |
| II/0015 | The Marketing Authorisation Holder applied for the addition of laboratories where test on importation takes place.<br><br>Change(s) to the manufacturing process for the finished product | 22/01/2009 | 28/01/2009 |  |  |
| II/0014 | Changes to the manufacturing process of the drug product.<br><br>Change(s) to the manufacturing process for the finished product  | 20/11/2008 | 02/12/2008 |  |  |
| II/0013 | Addition of an alternative site (to perform manufacturing and release testing) .  | 24/07/2008 | 01/08/2008 |  |  |

|         | Change(s) to the test method(s) and/or specifications for the finished product   |            |            |             |  |
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| II/0011 | <p>Update to add epididymitis and pneumonia in section 4.8 of the SPC. In addition the list of all adverse events in section 4.8 was updated to a single list including adverse events from clinical studies and post marketing surveillance. The list of local representatives of the PL was updated to add Bulgaria and Romania and amend the contact details for Czech Republic, Denmark and Austria.</p> <p>Update of Summary of Product Characteristics and Package Leaflet</p> | 24/04/2008 | 20/06/2008 | SmPC and PL | <p>As a result of a review of adverse experiences reported for M -M-RVAXPO the CHMP agreed to include the adverse events pneumonia and epididymitis in the EU Product Information. Epididymitis is a common complication of infection by wild mumps virus and it was considered biologically possible that a small number of patients may develop similar complications after vaccination. In reviewing the spontaneous reports, from market introduction up until 10 September 2007, with more than 550 million doses distributed worldwide, 13 cases of epididymitis were identified that could be temporally associated with the administration of the M-M-R vaccine.</p> <p>Pneumonia is a common complication of infection by wild measles virus. After vaccination with any live virus vaccine, it is biologically possible that very few patients may develop respiratory complications ranging from mild upper respiratory infections to pneumonia. Reviewing the spontaneous reports, there were 7 cases of pneumonia temporally associated with the administration of M-M-R II, the nationally authorised predecessor vaccine to M-M-RVAXPRO produced using human serum albumin. The CHMP therefore agreed to include these events in the Product Information.</p> |
| II/0012 | <p>During a mass vaccination campaign in adolescents and adults in Canada 6 cases of suspected anaphylactic reactions were reported. All cases were observed in young adults 18-30 years of age who each had a history of allergies. The symptoms were similar,</p>  | 19/03/2008 | 18/04/2008 | SmPC        | <p>During a mass vaccination campaign in adolescents and adults in Canada 6 cases of suspected anaphylactic reactions have been reported. All cases were observed in young adults 18-30 years of age who each had a history of allergies. The symptoms were similar (tingling in the mouth and throat,</p>   |

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|         | <p>e.g. tingling in the mouth and throat, hoarseness, swelling in the throat, difficulty breathing, and occurred within 30 minutes following vaccination. All patients recovered after receiving treatment.</p> <p>The SPC was updated to reflect that adults and adolescents with a history of allergies may potentially be at increased risk of anaphylaxis or anaphylactoid reactions. Close monitoring is therefore recommended following vaccination for the early signs of such reactions.</p> <p>Update of Summary of Product Characteristics</p>   |            |            |                        | <p>hoarseness, swelling in the throat, difficulty breathing, among other symptoms) and occurred within 30 minutes following vaccination. All patients recovered after receiving treatment.</p> <p>The SPC was updated to reflect that adults and adolescents with a history of allergies may potentially be at increased risk of anaphylaxis or anaphylactoid reactions. Close monitoring is therefore recommended following vaccination for the early signs of such reactions.</p>   |
| IA/0010 | IA_07_a_Replacement/add. of manufacturing site: Secondary packaging site   | 22/01/2008 | n/a        |                        |   |
| II/0008 | Quality changes  | 20/09/2007 | 25/09/2007 |                        |   |
| II/0006 | <p>To amend the Summary of Product Characteristics (SPC) sections 4.2, 4.4, 4.8 and 5.1 to add a new route of administration of the vaccine further to the CHMP assessment of Follow-Up Measure 13. The Labelling and Package Leaflet (PL) were updated accordingly.</p> <p>The MAH took the opportunity to correct the wording of section 4.1 of the SPC and accordingly section 1 of the PL. Additionally, the contact details of the local representatives for The Netherlands and Norway in section 6 of the PL were updated.</p> <p>Update of Summary of Product Characteristics, Labelling and Package Leaflet</p> | 24/05/2007 | 25/06/2007 | SmPC, Labelling and PL | <p>The immunogenicity and safety of M-M-RVAXPRO and VARIVAX when administered concomitantly by intramuscular (IM) route or subcutaneous (SC) route at two separate injection sites was assessed in healthy subjects 12 to 18 months of age.</p> <p>The study found no difference in immunogenicity between the two routes of administration. The general safety was comparable, however the frequencies of injection site reactions (such as redness or rashes at the injection site) were higher when the SC route was used instead of the IM route.</p> <p>The Product Information was updated to reflect that both routes of administration can be used, however the preferred route should be IM, except in subjects with coagulation</p> |

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|         |  |            |            |                                  | disorders.<br>A further change related to SPC Section 4.1 clarifying the use of M-M-RVAXPRO in outbreaks or post-exposure in line with section 4.2 of the SPC.  |
| IA/0007 | IA_15_a_Submission of Ph. Eur. certificate for active substance - approved manufacturer  | 22/05/2007 | n/a        |                                  |   |
| II/0005 | To add pruritus and vasculitis as potential adverse effects in the section 4.8 of the SPC following the update of the Company Core Data Sheet of M-M-RVAXPRO. The MAH took also the opportunity to correct minor spelling errors and to update the list of local representatives.<br><br>Update of Summary of Product Characteristics, Labelling and Package Leaflet   | 22/03/2007 | 23/04/2007 | SmPC, Annex II, Labelling and PL | Following the MAH's review of a summary of safety data of M-M-RVAXPRO and its component vaccines covering the period from 01 January 2006 to 04 May 2006 the CHMP agreed to include "pruritus" under the System Organ Class (SOC) "Skin and subcutaneous tissue disorders" and "vasculitis" under the SOC "Vascular disorders" under the sub-heading "Potential undesirable effects" in section 4.8 of the SPC. |
| IB/0004 | IB_38_b_Change in test procedure of finished product - minor change, biol. active subst./excipient   | 30/01/2007 | n/a        |                                  |   |
| N/0003  | The MAH completed the list of local representatives in the PL to include the two new EU Member States (Bulgaria and Romania) according to the latest EMEA/QRD template.<br><br>Furthermore the MAH took this opportunity to include the MA numbers in the labelling, to update the phone numbers of the local representatives and to make one minor correction in the PL<br><br>Minor change in labelling or package leaflet not | 29/01/2007 | n/a        | Labelling and PL                 |   |

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|         | connected with the SPC (Art. 61.3 Notification)                 |            |            |  |  |
| II/0001 | Update of or change(s) to the pharmaceutical documentation      | 16/11/2006 | n/a        |  |  |
| II/0002 | Change(s) to the manufacturing process for the active substance | 21/09/2006 | 27/09/2006 |  |  |