

SYNOPSIS

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| Name of Sponsor/ Company Sanofi Pasteur MSD S.N.C. | Individual Study Table referring to part of the dossier | <i>(For National Authority use only)</i> |
| Name of Finished Products: M-M-R™II manufactured with rHA and VARIVAX® | Volume Page | |
| Name of Active Ingredients: M-M-R™II manufactured with rHA: measles, mumps, and rubella vaccine (live) VARIVAX®: varicella vaccine (live) | | |
| Title of the study | An open, randomised, comparative, multicentre study of the immunogenicity and safety of M-M-R™II manufactured with recombinant Human Albumin (rHA) and VARIVAX® when administered concomitantly by intramuscular (IM) route or subcutaneous (SC) route at two separate injection sites in healthy subjects 12 to 18 months of age. Study Identification Number: X04-MMRr-301 EudraCT number: 2004_002586_21 | |
| Principal investigators | France: Yves GILLET, MD Germany: Pirmin HABERMEHL, MD | |
| Study centres | Seventy-two (72) active centres, in France and Germany | |
| Publication | None | |
| Study period (years) | First Visit First Subject: 20-January-2005 First Visit Last Subject: 03-August-2005 Last Visit Last Subject: 05-September-2005 | Phase of development Phase IIIb |
| Objectives | <p><u>Primary objective</u></p> <p>To demonstrate that, when given concomitantly with VARIVAX® by the same route at 12-18 months of age at separate injection sites, a single dose of M-M-R™II rHA administered by IM route is as immunogenic as a single dose of M-M-R™II rHA administered by SC route in terms of response rates to measles, mumps and rubella as measured by enzyme linked immunosorbent assay (ELISA) at 42 days following vaccination,</p> <p>and/ or:</p> <p>To demonstrate that, when given concomitantly with M-M-R™II rHA by the same route at 12-18 months of age at separate injection sites, a single dose of VARIVAX® administered by IM route is as immunogenic as a single dose of VARIVAX® administered by SC route in terms of response rate to varicella as measured by glycoprotein ELISA (gpELISA) at 42 days following vaccination.</p> <p>The primary hypotheses were that the IM route would be non-inferior to the SC route for both vaccines.</p> <p><u>Secondary objectives</u></p> <ul style="list-style-type: none"> ➤ To summarise the antibody titres to measles, mumps, rubella and varicella at 42 days following vaccination in subjects 12 to 18 months of age immunised with M-M-R™II rHA and VARIVAX® administered concomitantly at two separate injection sites by the same route IM or SC. ➤ To evaluate the safety profiles of M-M-R™II rHA and VARIVAX® administered concomitantly at two separate injection sites by the same route IM or SC. | |

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| Name of Active Ingredients: M-M-R™II manufactured with rHA: measles, mumps, and rubella vaccine (live) VARIVAX®: varicella vaccine (live) | | |

Methodology Open-label randomised, comparative, multicentre study with 2 parallel groups. Seven hundred (700) subjects planned to be randomised (1:1) to receive a single dose of M-M-R™II rHA + a single dose of VARIVAX®.
Group 1: both vaccines by IM route; **Group 2:** both vaccines by SC route

Number of subjects (planned and analysed)
Planned: 700 subjects (350 per group)
Randomised: 752 subjects

Table 1: Disposition of Subjects

| | Group 1 – IM | Group 2 – SC |
|-------------------------------------|-----------------------|-----------------------|
| | n (%) | n (%) |
| n randomised ¹ | 374 | 378 |
| n vaccinated ² | 374 (100%) | 378 (100%) |
| n completed | 373 (99.7%) | 377 (99.7%) |
| n withdrawn | 1 (0.3%) ³ | 1 (0.3%) ⁴ |
| n withdrawn due to an adverse event | 0 | 0 |

¹ 24 additional subjects were screened and not randomised
² Who received at least one study vaccine
³ Withdrawal for personal reason
⁴ Lost to follow-up

Analysed:

Table 2: Analysis Sets of Subjects

| | Group 1 – IM | Group 2 – SC | All |
|--|---------------------|---------------------|--------------|
| | n (%) | n (%) | n (%) |
| Randomised Set | 374 | 378 | 752 |
| Full Analysis Set (FAS) ¹ | 370 (98.9%) | 375 (99.2%) | 745 (99.1%) |
| FAS – Measles | 369 (98.7%) | 374 (98.9%) | 743 (98.8%) |
| FAS – Mumps | 370 (98.9%) | 375 (99.2%) | 745 (99.1%) |
| FAS – Rubella | 369 (98.7%) | 374 (98.9%) | 743 (98.8%) |
| FAS – Varicella | 369 (98.7%) | 375 (99.2%) | 744 (98.9%) |
| Per Protocol Sets (PPS) | | | |
| PPS initially seronegative to Measles ² | 349 (93.3%) | 363 (96.0%) | 712 (94.7%) |
| PPS initially seronegative to Mumps ³ | 349 (93.3%) | 363 (96.0%) | 712 (94.7%) |
| PPS initially seronegative to Rubella ⁴ | 321 (85.8%) | 318 (84.1%) | 639 (85.0%) |
| PPS initially seronegative to Varicella ⁵ | 336 (89.8%) | 345 (91.3%) | 681 (90.6%) |
| PPS initially seronegative to Measles + Mumps + Rubella ²⁺³⁺⁴ | 316 (84.5%) | 316 (83.6%) | 632 (84.0%) |
| PPS initially seronegative to Measles + Mumps + Rubella + Varicella ²⁺³⁺⁴⁺⁵ | 298 (79.7%) | 300 (79.4%) | 598 (79.5%) |
| Safety Set ⁶ | 375 | 377 | 752 |

¹ All subjects with post-vaccination serology results irrespective of baseline antibody titres and according to the route as issued from the randomisation
² Baseline antibody titres < 255 mIU/mL, ³ < 10 ELISA Ab units/mL, ⁴ < 10 IU/mL, ⁵ < 1.25 gpELISA units/mL
⁶ Actual route. Subject 13601 randomised in the SC group (Group 2) received both vaccines by IM route thus was analysed for safety in the IM group (Group 1)

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| Name of Finished Products: M-M-R™II manufactured with rHA and VARIVAX® | Volume | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name of Active Ingredients: M-M-R™II manufactured with rHA: measles, mumps, and rubella vaccine (live) VARIVAX®: varicella vaccine (live) | Page | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagnosis and main criteria for inclusion | Healthy infants aged 12-18 months; consent form signed by both parents/ legal representative; no previous vaccination history and/ or suspected clinical history and/ or exposure in the past 30 days to measles, mumps, rubella and/ or varicella; no known sensitivity/ allergy to any component of the study vaccines and/ or anaphylactic/ anaphylactoid reaction to egg proteins; no impairment of the immune system (including use of corticosteroids); no receipt of any inactivated vaccines in the past 14 days or any live vaccines in the past 30 days. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test/ reference vaccines, dose and mode of administration, batch numbers | <p>M-M-R™II rHA: lyophilised preparation of combined live attenuated measles virus (more attenuated Enders' Edmonston strain), live attenuated mumps virus (Jeryl Lynn™ [Level B] strain) and live attenuated rubella virus (Wistar RA 27/3 strain).</p> <p>Presentation: Powder and solvent for suspension for injection.</p> <p>Dose: Single (entire volume of the reconstituted vaccine).</p> <p>On site storage: +2°C to +8°C</p> <p>Batch numbers: Powder 0644172 (expiry 05-July-2005)/ Diluent 1032L (expiry 30-April-2006).</p> <p>VARIVAX®: lyophilised preparation with ≥ 1350 plaque-forming units (PFU) of a live attenuated varicella virus (Oka/ Merck strain).</p> <p>Presentation: Powder and solvent for suspension for injection.</p> <p>Dose: Single (entire amount of the reconstituted vaccine).</p> <p>On site storage: +2°C to +8°C</p> <p>Batch number: HV20550 (expiry 12-August-2005).</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vaccination schedule | <p>Group 1: received M-M-R™II rHA and VARIVAX® both by IM route at two separate injection sites at Day 0.</p> <p>Group 2: received M-M-R™II rHA and VARIVAX® both by SC route at two separate injection sites at Day 0.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follow-up duration | <p>First blood sample taken before vaccination and second blood sample taken at Day 42 (+14 days) post-vaccination.</p> <p>Safety follow-up for 42 days post-vaccination.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Criteria for evaluation | <p>Immunogenicity</p> <p>Primary: Response rates to measles, mumps, rubella and varicella 42 days following vaccination.</p> <p>Secondary: Geometric mean of antibody titres to measles, mumps, rubella and varicella 42 days following vaccination.</p> <p>Safety: Table 3: Safety Criteria</p> <table border="1" data-bbox="316 1639 1493 1872"> <thead> <tr> <th data-bbox="316 1639 424 1697">Visit 1 Day 0</th> <th data-bbox="424 1639 517 1697"></th> <th data-bbox="517 1639 609 1697"></th> <th data-bbox="609 1639 702 1697"></th> <th data-bbox="702 1639 794 1697">Day 4</th> <th data-bbox="794 1639 887 1697"></th> <th data-bbox="887 1639 979 1697"></th> <th data-bbox="979 1639 1072 1697"></th> <th data-bbox="1072 1639 1165 1697"></th> <th data-bbox="1165 1639 1257 1697"></th> <th data-bbox="1257 1639 1350 1697">Visit 2 Day 42</th> </tr> </thead> <tbody> <tr> <td colspan="11" data-bbox="316 1697 1493 1729">Solicited injection-site adverse reactions¹</td> </tr> <tr> <td colspan="11" data-bbox="316 1729 1493 1845">Other² injection-site adverse reactions Temperature³ Measles-, rubella- and varicella-like rashes (injection-site or non-injection-site) and mumps-like symptoms Other² systemic⁴ adverse events</td> </tr> <tr> <td colspan="11" data-bbox="316 1845 1493 1872">Serious adverse events</td> </tr> </tbody> </table> <p>¹ Injection site erythema, injection site swelling and injection site pain ² Spontaneously reported ³ Temperatures were measured daily axillary and additionally rectally if axillary temperature ≥ 37.1°C. Analysis was made on rectal equivalent temperatures (rectal temperatures or temperatures converted to rectal equivalent by adding 0.9°C to axillary temperatures) ⁴ Adverse events not at the injection-site</p> | | Visit 1 Day 0 | | | | Day 4 | | | | | | Visit 2 Day 42 | Solicited injection-site adverse reactions ¹ | | | | | | | | | | | Other ² injection-site adverse reactions Temperature ³ Measles-, rubella- and varicella-like rashes (injection-site or non-injection-site) and mumps-like symptoms Other ² systemic ⁴ adverse events | | | | | | | | | | | Serious adverse events | | | | | | | | | | |
| Visit 1 Day 0 | | | | Day 4 | | | | | | Visit 2 Day 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solicited injection-site adverse reactions ¹ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other ² injection-site adverse reactions Temperature ³ Measles-, rubella- and varicella-like rashes (injection-site or non-injection-site) and mumps-like symptoms Other ² systemic ⁴ adverse events | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serious adverse events | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Statistical methods**Immunogenicity**

Primary: the statistical analysis was based on two-sided 95% (adjusted for multiplicity) confidence interval (CI) stratified by regions (i.e. centres or pooled centres based on geographic location) around the difference in response rates [Group 1 (IM) – Group 2 (SC)] for each valence (i.e. 3 valences for M-M-R™II rHA, 1 valence for VARIVAX®). The non-inferiority criterion was achieved if the lower bound of the 95% CI was > -10% and was met for one or both vaccines. Hochberg adjustment was applied for multiplicity. Immunogenicity was evaluated on the PPS with supportive analysis on the FAS.

Secondary: a descriptive analysis was performed for measles, mumps, rubella and varicella including geometric mean of antibody titres (GMT) and 95% CI.

Safety

A descriptive analysis was performed for adverse events with separate summaries of injection-site adverse reactions and systemic adverse events.

SUMMARY – CONCLUSIONS**DEMOGRAPHY****Table 4: Demographic and Other Baseline Characteristics – Randomised set**

| | | Group 1 – IM (N=374) | Group 2 – SC (N=378) |
|---|-------------------|---------------------------------|---------------------------------|
| Age at vaccination (months) | Mean (SD) | 13.79 (1.72) | 13.69 (1.59) |
| | Median | 13.19 | 13.14 |
| | Minimum - Maximum | 12.02 ; 18.96 | 11.96 ¹ ; 18.86 |
| Gender | Male | 206 (55.1%) | 210 (55.6%) |
| | Female | 168 (44.9%) | 168 (44.4%) |
| Body mass index (kg/m²) | Mean (SD) | 16.92 (1.60) | 16.92 (1.46) |
| | Median | 16.87 | 16.87 |
| | Minimum - Maximum | 12.44 ; 22.68 | 12.78 ; 24.65 |

¹ Subject 13401 in the SC group had 12 months minus 2 days at inclusion; this subject was not excluded from the PPS.
SD: Standard deviation

The two groups were comparable with respect to these characteristics. The results on the FAS, PPS and Safety Set were comparable to those on the Randomised Set.

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IMMUNOGENICITY RESULTS

Table 5: Summary of Antibody Responses (Response Rates and GMT) to Measles, Mumps, Rubella and Varicella at 6 Weeks Post-vaccination for Subjects Initially Seronegative to Measles, Mumps, Rubella or Varicella (< 1.25 gpELISA units/mL) – Antigen specific PPS

| | | Group 1 – IM (N ¹ =374) | | | Group 2 – SC (N ¹ =378) | | |
|------------------|-----------------------------|---------------------------------------|-------------------|---------------------|---------------------------------------|-------------------|---------------------|
| | | n ² | Antibody response | [95% CI] | n ² | Antibody response | [95% CI] |
| Measles | n (%) ≥255 mIU/mL | 349 | 329/349 (94.3%) | [91.3 ; 96.5] | 363 | 349/363 (96.1%) | [93.6 ; 97.9] |
| | GMT | | 2396.43 | [2117.72 ; 2711.82] | | 2560.64 | [2278.50 ; 2877.71] |
| Mumps | n (%) ≥10 ELISA Ab units/mL | 349 | 341/349 (97.7%) | [95.5 ; 99.0] | 363 | 356/363 (98.1%) | [96.1 ; 99.2] |
| | GMT | | 86.42 | [78.66 ; 94.95] | | 89.77 | [82.57 ; 97.61] |
| Rubella | n (%) ≥10 IU/mL | 321 | 315/321 (98.1%) | [96.0 ; 99.3] | 318 | 312/318 (98.1%) | [95.9 ; 99.3] |
| | GMT | | 97.22 | [88.55 ; 106.73] | | 94.37 | [85.67 ; 103.95] |
| Varicella | n (%) ≥5 gpELISA units/mL | 336 | 297/336 (88.4%) | [84.5 ; 91.6] | 345 | 295/345 (85.5%) | [81.3 ; 89.0] |
| | GMT | | 9.83 | [9.20 ; 10.50] | | 9.21 | [8.62 ; 9.84] |

¹ Number of vaccinated subjects
² Number of subjects initially seronegative to measles, mumps, rubella or varicella contributing to each PPS

The results on the PPS for subjects initially seronegative to all 3 antigens contained in M-M-R™II rHA and on the PPS for subjects initially seronegative to all 4 antigens, as well as results on the FAS were comparable to those on the PPS for subjects initially seronegative to each specific antigen

Table 6: Non-inferiority Analysis (Stratified by Region¹) of Response Rates to Measles, Mumps, Rubella and Varicella at 6 weeks Post-vaccination for Subjects Initially Seronegative to Measles, Mumps, Rubella or Varicella (< 1.25 gpELISA units/mL) – Antigen specific PPS

| | Estimate of the difference Group 1 (IM) – Group 2 (SC) | [95% CI] ² | Non-inferiority |
|------------------|---|-----------------------|-----------------|
| Measles | -1.89% | [-5.28 ; 1.29] | Yes |
| Mumps | -0.33% | [-2.67 ; 2.00] | Yes |
| Rubella | -0.02% | [-2.42 ; 2.43] | Yes |
| Varicella | 2.93% | [-2.18 ; 8.06] | Yes |

¹ Stratification by region (centres were pooled based on geographic location in 4 regions in France and in 5 regions in Germany due to low recruitment by centre) with a weight proportional to the number of subjects within each region
² The lower bound of the 95% CI on the difference >- 10% implies that the difference is statistically significantly lower than the pre-defined clinically relevant non-inferiority margin of 10%.

The non-stratified analysis and stratified by country as well as the analysis done on the FAS provided comparable results to the region-stratified analysis performed on the PPS..

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SAFETY RESULTS

The following Table 7 summarises all reported adverse events by group. Safety follow-up was obtained for all vaccinated subjects.

Table 7: Global Summary of Safety – Safety Set (N=752)

| | Group 1 – IM n vaccinated =374¹ | Group 2 – SC n vaccinated =376¹ |
|---|---|---|
| | n (%)² | n (%)² |
| Any adverse event³ from Day 0 to Day 42 | 313 (83.7%) | 325 (86.4%) |
| Any vaccine-related adverse event ³ to M-M-R™II rHA | 190 (50.8%) | 202 (53.7%) |
| Any vaccine-related adverse event ³ to VARIVAX® | 173 (46.3%) | 210 (55.9%) |
| Any injection-site adverse reaction from Day 0 to Day 42 | 97 (25.9%) | 151 (40.2%) |
| Any injection-site adverse reaction to M-M-R™II rHA | 59 (15.8%) | 97 (25.8%) |
| Any injection-site adverse reaction to VARIVAX® | 78 (20.9%) | 129 (34.3%) |
| Any injection-site rash of interest ⁴ | 0 | 10 (2.7%) |
| Any systemic adverse event from Day 0 to Day 42 | 295 (78.9%) | 295 (78.5%) |
| Any vaccine-related systemic adverse event | 156 (41.7%) | 156 (41.5%) |
| Any vaccine-related systemic adverse event to M-M-R™II rHA | 153 (40.9%) | 149 (39.6%) |
| Any vaccine-related systemic adverse event to VARIVAX® | 121 (32.4%) | 125 (33.2%) |
| Any measles/ measles-like rash ⁵ | 11 (2.9%) | 10 (2.7%) |
| Any mumps/ mumps-like illness | 0 | 1 (0.3%) |
| Any rubella/ rubella-like rash ⁵ | 10 (2.7%) | 10 (2.7%) |
| Any varicella/ varicella-like rash ⁵ | 2 (0.5%) | 12 (3.2%) |
| Any serious adverse event from Day 0 to Visit 2 | 1 (0.3%) | 4 (1.1%) |
| Any death | 0 | 0 |
| Any vaccine-related serious adverse event | 0 | 1 (0.3%) |
| Any vaccine-related serious adverse event to M-M-R™II rHA | 0 | 1 (0.3%) ⁶ |
| Any vaccine-related serious adverse event to VARIVAX® | 0 | 1 (0.3%) ⁶ |
| Any withdrawal due to an adverse event | 0 | 0 |

¹ One subject in each group was not vaccinated according to protocol (subject 27601 in the IM group received the diluent of M-M-R™II rHA only and subject 11718 in the SC group received M-M-R™II rHA by deep SC); these subjects were excluded from the safety analyses.

² Number of subjects reporting the event at least once (percentages were calculated based on the number of subjects correctly vaccinated)

³ Injection-site adverse reactions and systemic adverse events combined

⁴ All were varicella-like injection-site rashes (2 at M-M-R™II rHA injection-site, 7 at VARIVAX® injection-site and 1 at both injection-sites)

⁵ Non-injection-site measles-, rubella- or varicella-like rashes

⁶ Otitis media of moderate intensity at Day 5 post-vaccination considered as a complication of a purulent rhinitis; hospitalisation for one day and discharge after recovery; the event was assessed by the investigator as possibly related to both vaccines (subject 13210).

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| <p>As shown in Table 7, the two groups were generally comparable in terms of incidence rates of systemic adverse events and measles- and rubella-like rashes and mumps-like symptoms. Varicella/ non-injection-site varicella-like rashes appeared to be less frequently reported in the IM group (0.5% in the IM group versus 3.2% in the SC group).</p> <p>Injection-site adverse reactions were reported by a numerically lower number of subjects in the IM group for each vaccine (15.8% in the IM group versus 25.8% in the SC group for M-M-R™II rHA; 20.9% in the IM group versus 34.3% in the SC group for VARIVAX®). While frequencies were different, most of the injection-site adverse reactions occurred from Day 0 to Day 4 with, by decreased incidence, injection site erythema, then injection site pain, then injection site swelling, for both vaccines and for both routes.</p> <p>Varicella-like injection-site rashes were reported in the SC group only (2.7% of subjects) and injection site erythema and injection site swelling occurring after Day 5 were reported by a numerically lower number of subjects in the IM group mostly following VARIVAX® injection (for injection site erythema, 0.3% in the IM group versus 4.3% in the SC group for M-M-R™II rHA, and 4.8% in the IM group versus 12.2% in the SC group for VARIVAX®; for injection site swelling, 0% in the IM group versus 1.6% in the SC group for M-M-R™II rHA, and 1.6% in the IM group versus 5.3% in the SC group for VARIVAX®).</p> <p>The two groups were generally comparable with respect to the proportion of subjects who experienced a maximal rectal (or equivalent) temperature $\geq 39.4^{\circ}\text{C}$ from Day 0 to Day 42 post-vaccination (20.9% in the IM group and 22.5% in the SC group) with about half of them from Day 5 to Day 12 post-vaccination in both groups (8.4% in the IM group and 11.7% in the SC group).</p> <p>A total of 5 subjects experienced each a serious adverse event. One of these serious adverse events, an otitis media, was assessed by the investigator as possibly related to both vaccines.</p> <p>No subjects were withdrawn from the study due to an adverse event.</p> | | |
| SUMMARY – CONCLUSIONS | CONCLUSION Immunogenicity M-M-R™II rHA and VARIVAX® given by IM route elicited an immune response that was similar (non-inferior) to the SC administration of both vaccines as demonstrated by similar antibody response rates to measles, mumps, rubella and varicella 42 days post-vaccination. Comparable antibody titres further support this conclusion. Safety Overall M-M-R™II rHA and VARIVAX® given IM or SC were generally well tolerated. Overall the safety profile of M-M-R™II rHA and VARIVAX® was comparable for IM and SC administrations even if varicella-like rashes (injection-site and non-injection-site) and erythema and swelling at injection-sites appeared to be less frequently observed in the IM group than in the SC group. | |
| Date of the report | 21-December-2006 | |