Dose-Response Relationship between Antimicrobial Drugs and Livestock-Associated MRSA in Pig Farming

Technical Appendix

Technical Appendix Table 1. Farm questionnaire used in each of the four sampling times in a risk factor analysis for livestock-associated methicillin-resistant *Staphylococcus aureus* in pig farming, the Netherlands, 2011-2013.

| Cemeral farm characteristics: No. | Question | Possible answers |
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| 1. Farm size: mean number of sows present per year ¶† 2. Type of production¶ 3. Mean number of fattener pigs present per year 4. Frequency of gills supply per year 5. Number of farms from which pigs are supplied per year 6. External supply of gilts 21 time a year from at least one supplier (aggregated from questions 4 and 5) ¶ 7. Complete all in-all out system is applied for closed farm¶ 7. Complete all in-all out system is applied for closed farm¶ 8. Frequency of removal of fattener pigs 9. Frequency of removal of fattener pigs 10. Frequency of removal of fattener pigs 10. Frequency of removal of sows 10. No. 11. Frequency of removal of sows 10. No. 12. Percentage of loss of weaned piglets per year 13. Average leatation period (days) 14. Mean number of weaned piglets per sow per year 15. Mean number of weaned piglets per sow per year 16. Mean number of weaned piglets per per year 17. Percentage of loss of fattener pigs per year 18. Mean growth per piglet per day 19. Mean growth per piglet per day 19. Mean growth per piglet per year 20. After delivering the lettover piglets aper placed together 21. After delivering the lettover piglets aper piglets department 22. Hygiene status of the farm 23. The farm owns an Specific pathogen free (SPF) status¶ 24. Sylpre status of the farm 25. Housing of the gestating sows¶ 26. Group size of the gestating sows¶ 27. There are also shope present on the farm¶ 28. There are also shope present on the farm¶ 29. There are also shope present on the farm¶ 30. There are also shope three the shed 31. There are also horses present on the farm¶ 32. There are also shope three the shed 33. No other farming animals are present on the farm¶ 34. Cat of a rear also shed present on the farm¶ 35. Dogs are able to enter the shed 36. Orgon size of the gestating sows¶ 37. Biosecurity score (aggregated sum from questions 38, 42, 45, 49, 90, 136 where yes=1 39. A doorbell or phone number of the owner is clearly visible at the entrance of the farm 40. The farm's terrain is paved and cleaned up ¶ 41. S | General farm characteristics: | |
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| 38. There is only one entrance to the farm, which is the hygiene lock, other doors are locked¶ 39. A doorbell or phone number of the owner is clearly visible at the entrance of the farm. 19. Yes / No In this way it is possible to contact the people of the farm¶ 40. The farm's terrain is paved and cleaned up ¶ 41. Silos are filled from the side of the dirty road¶ 42. Pigs and personnel go outside during working activities¶ 43. The hygiene lock consists of a clean and dirty part, separated by a corridor shower¶ 44. The lock does not contain a shower, but it does consist of a clearly separated clean and dirty part 45. Showering is mandatory¶ 46. If showering is not mandatory, everyone washes his or her hands before entering the | , | 0 to 6 |
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| 39. A doorbell or phone number of the owner is clearly visible at the entrance of the farm. In this way it is possible to contact the people of the farm 40. The farm's terrain is paved and cleaned up Yes / No Silos are filled from the side of the dirty road Yes / No The hygiene lock consists of a clean and dirty part, separated by a corridor shower Yes / No Yes / No Yes / No Yes / No Addirty part Showering is mandatory Yes / No | | Yes / No |
| In this way it is possible to contact the people of the farm¶ 40. The farm's terrain is paved and cleaned up ¶ 41. Silos are filled from the side of the dirty road¶ 42. Pigs and personnel go outside during working activities¶ 43. The hygiene lock consists of a clean and dirty part, separated by a corridor shower¶ 44. The lock does not contain a shower, but it does consist of a clearly separated clean 45. Showering is mandatory¶ 46. If showering is not mandatory, everyone washes his or her hands before entering the | | |
| 40. The farm's terrain is paved and cleaned up ¶ 41. Silos are filled from the side of the dirty road¶ 42. Pigs and personnel go outside during working activities¶ 43. The hygiene lock consists of a clean and dirty part, separated by a corridor shower¶ 44. The lock does not contain a shower, but it does consist of a clearly separated clean 45. Showering is mandatory¶ 46. If showering is not mandatory, everyone washes his or her hands before entering the | | Yes / No |
| 41. Silos are filled from the side of the dirty road¶ 42. Pigs and personnel go outside during working activities¶ 43. The hygiene lock consists of a clean and dirty part, separated by a corridor shower¶ 44. The lock does not contain a shower, but it does consist of a clearly separated clean 45. Showering is mandatory¶ 46. If showering is not mandatory, everyone washes his or her hands before entering the | | |
| 42. Pigs and personnel go outside during working activities¶ 43. The hygiene lock consists of a clean and dirty part, separated by a corridor shower¶ 44. The lock does not contain a shower, but it does consist of a clearly separated clean 45. Showering is mandatory¶ 46. If showering is not mandatory, everyone washes his or her hands before entering the Yes / No Yes / No | , | |
| 43. The hygiene lock consists of a clean and dirty part, separated by a corridor shower¶ Yes / No 44. The lock does not contain a shower, but it does consist of a clearly separated clean and dirty part 45. Showering is mandatory¶ Yes / No Yes / No 46. If showering is not mandatory, everyone washes his or her hands before entering the Yes / No Yes / No Yes / No | | |
| 44. The lock does not contain a shower, but it does consist of a clearly separated clean And dirty part 45. Showering is mandatory¶ Yes / No 46. If showering is not mandatory, everyone washes his or her hands before entering the Yes / No | | |
| and dirty part 45. Showering is mandatory¶ Yes / No 46. If showering is not mandatory, everyone washes his or her hands before entering the Yes / No | | |
| 45. Showering is mandatory¶ 46. If showering is not mandatory, everyone washes his or her hands before entering the Yes / No Yes / No | | Yes / No |
| 46. If showering is not mandatory, everyone washes his or her hands before entering the Yes / No | and dirty part | |
| 46. If showering is not mandatory, everyone washes his or her hands before entering the Yes / No | 45. Showering is mandatory¶ | Yes / No |
| | 46. If showering is not mandatory, everyone washes his or her hands before entering the | Yes / No |
| | farm | |

| estio | | Possible answers |
|--------------|--|---|
| | Showering is not mandatory, however wearing farm-issued clothing is (pants and shirt | Yes / No |
| 48. | Farmer and his co-workers use the hygiene lock in the same way visitors do | Yes / No |
| 49. | The farmer and his co-workers wash their hands before entering the farm¶ | Yes / No |
| | There is warm water available¶ | Yes / No |
| | There is soap available | Yes / No |
| | There is a clean towel present | Yes / No |
| | There is a clean tower present There are clean boots and overalls available ¶ | Yes / No |
| | | |
| | Workers' overalls are washed daily¶ | Yes / No |
| 55. | Overalls are washed | Daily/Weekly / Monthly/ Les than monthly |
| | On average, for how many months does the manure stay in the pits during the mer?¶ | <6 / ≥6 |
| 57. | On average, for how many months does the manure stay in the pits during the | <3/3-6/6-9/>9 |
| 58. | mer?¶ On average, for how many months does the manure stay in the pits during the | <6 / ≥6 |
| | er?¶ On average, for how many months does the manure stay in the pits during the | <3/3-6/6-9/>9 |
| winte 60. | er?¶ Delivered animals are placed in quarantine for a certain period of time. This part has its | Yes / No |
| own | entrance and is not a part of the rest of the farm | |
| | The quarantine has its own lock and clothing | Yes / No |
| | The quarantine is visited at the end of the day | Yes / No |
| | After delivery, the gilts arrive at an empty and cleaned section. This is not a quarantine | Yes / No |
| | When gilts are delivered, these animals do not arrive at an empty section or quarantine | Yes / No |
| | Piglets are delivered on the same day as fatteners | Yes / No |
| 66. | Sperm is delivered on the dirty road, the cooling box is not brought on the farm terrain¶ | Yes / No |
| 67. | There is a delivery room for materials and bagged goods. Materials are not | Yes / No |
| deli | vered directly to the farm¶ | |
| | Pest control is handed over to a professional organization¶ | Yes / No |
| | Birds are able to enter the sheds¶ | Yes / No |
| | Is there presence of rats and/or mice?¶ | Yes / No |
| | Animals have access to an outdoor run (e.g. after weaning) | Yes / No |
| | | |
| 12. 70 | When pigs are moved, they have to go outside¶ | Yes / No |
| | There is a boarding platform for the sows, preventing the truck from parking ctly against the shed¶ | Yes / No |
| 74. | There is a boarding platform for the piglets, preventing the truck from parking directly | Yes / No |
| agai | nst the shed¶ | |
| agai | There is a boarding platform for the fatteners, preventing the truck from parking directly nst the shed \P | Yes / No |
| | There is boarding platform for piglets and/or fatteners¶ | Yes / No |
| 77. | The boarding location is not situated directly next to or beneath an air inlet¶ | Yes / No |
| 78. | The border for the delivery of animals is a 100% clear and is also implemented | Yes / No |
| | way¶ | |
| | After delivery of the animals, the delivery platform is cleaned and disinfected | Yes / No |
| | ediately¶ | V (N |
| | The driver does not enter the clean road¶ | Yes / No |
| | Transport trucks are clean, empty and disinfected when they arrive on the farm to load sows¶ | Yes / No |
| | The carcass storage is cooled and locked¶ | Yes / No |
| | The carcass storage is cooled and locked The carcass cooler is situated on the dirty road The carcass storage is cooled and locked The carcass cooler is situated on the dirty road | Yes / No |
| | | |
| | Small destruction materials can be thrown into the cooler from the clean road¶ | Yes / No |
| | There is a double number of barrels on the farm. So there is a surplus of barrels¶ | Yes / No |
| | After the destructor emptied the barrels, the barrels are cleaned and disinfected are retrieved¶ | Yes / No |
| | Rinsing water of cleaning barrels is discharged into the sewer | Yes / No |
| | | |
| | When handling carcasses, gloves are always worn¶ | Yes / No |
| | When treating sick animals, gloves are always worn¶ | Yes / No |
| | When treating piglets, gloves are always worn¶ | Yes / No |
| | After someone entered a pen of the weaned piglets or the fatteners, hygienic | Yes / No |
| | sures are taken nealth management | |
| | During gestation, vaccinations are implemented | Yes / No |
| | | Yes / No |
| | During lactation, vaccinations are implemented The nights and/or fetteners are vaccinated. | |
| | The piglets and/or fatteners are vaccinated¶ | Yes / No |
| | PRRSv vaccination is implemented | Yes / No |
| | Mycoplasma hyponeumoniae vaccination is implemented | Yes / No |
| | PCV2 vaccination is implemented | Yes / No |
| 98. | APP vaccination is implemented | Yes / No |
| | Glässer vaccination is implemented | Yes / No |
| | The piglets are vaccinated without the use of a needle | Yes / No |
| | | |
| | The teeth of the new-born piglets are clipped¶ | Yes / No |
| 100 | The tails of the piglets are docked¶ | Yes / No |
| | The state of the s | Yes / No |
| 103. | The boar piglets are castrated All piglets are given an injection of antibiotics in their first week of life¶ | 1 62 / INO |

| Question | Possible answers |
|---|----------------------------------|
| 105. When treating the piglets, gloves are worn | Yes / No |
| 106. The gloves are renewed: | After each litter/ After each |
| | section /Each day |
| 107. When treating the piglets, other hygiene measures are taken in order to prevent the | Yes / No |
| transfer of infection from one to the other litter¶ 108. Needles for vaccination of sows are renewed:¶ | Once a day / Once a week / |
| 100. Needles for vaccifiation of sows are reflewed. | When necessary |
| 109. Needles for vaccination of piglets and/or fatteners are renewed per pen¶ | Yes / No |
| 110. Needles for vaccination of piglets and/or fatteners are renewed per section¶ | Yes / No |
| 111. At the end of the day, the syringes are cleaned: | Daily, rinsing with cold water / |
| | Taken apart and with water and |
| | soap / Dishwasher / |
| 112. There is a sick-bay present¶ | Not cleaned Yes / No |
| 113. The sick-bay is used as a sick-bay | Yes / No |
| 114. In the sick-bay, different ages are present | Yes / No |
| 115. Animals enter and exit a sick-bay (back to the farm) | Yes / No |
| 116. The sick-bay is visited at the end of the day | Yes / No |
| 117. There is a care option for sick and cripple animals at their own group/section¶ | Yes / No |
| Animal contact structure 118. The sows are housed in stable groups¶ | Yes / No |
| 119. Piglets are placed per litter¶ | Yes / No |
| 120. Some piglets are reared motherless¶ | Yes / No |
| 121. After the third day, piglets can still be switched¶ | Yes / No |
| 122. Foster sows are used¶ | Yes / No |
| 123. When creating foster sows, different litters of piglets are moved up to a different sow | Yes / No |
| 124. Separation between piglet cages is open¶ 125. Separation between piglet cages is taken up by the feeder and/or trough, which is | Yes / No Yes / No |
| shared between the animals¶ | res / NO |
| 126. Supervision of the animals from the central hall way | Yes / No |
| 127. Separation between cages fatteners is open¶ | Yes / No |
| 128. Separation between cages fatteners is taken up by the feeder and/or trough, which is | Yes / No |
| shared between the animals¶ | V (N |
| 129. Separation between cages for sows is open¶ 130. Separation between cages for sows is taken up by the feeder and/or trough, which is | Yes / No Yes / No |
| shared between the animals¶ | res / No |
| 131. Carcasses are placed on the ground in the section¶ | Yes / No |
| 132. Carcasses are placed on the ground in the central hall way¶ | Yes / No |
| 133. Cadaver bags are used¶ | Yes / No |
| 134. Considering hygienic measures, direction of work is from young to old ¶ | Yes / No |
| 135. Sows, piglets and fatteners are different components within the farm. Each component makes use of different clothing and materials¶ | Yes / No |
| Cleaning and disinfection | |
| 136. All farm sections are cleaned and disinfected ¶ | Yes / No |
| 137. All farm sections are disinfected ¶ | Yes / No |
| 138. All farm sections are cleaned with soaking agents¶ | Yes / No |
| 139. Farrow section hygiene (aggregated variable from questions 143 and 144)¶ | Disinfection and or soaking / |
| 140. Farrow corridor hygiene (aggregated variable from questions 148 and 149)¶ | None Yes / No |
| 141. Farrowing section is cleaned with cold water | Yes / No |
| 142. Farrowing section is cleaned with warm water | Yes / No |
| 143. Farrowing section is cleaned with soaking agent | Yes / No |
| 144. Farrowing section is cleaned with disinfection agent | Yes / No |
| 145. After cleaning farrowing section, there is a dry period of at least 24 hours | Yes / No |
| 146. Farrowing section is cleaned by sweeping 147. Farrowing corridor is cleaned with soaking agent | Yes / No Yes / No |
| 148. Farrowing corridor is cleaned with disinfection agent | Yes / No |
| 149. Piglets section hygiene (aggregated variable from questions 153 and 154)¶ | Disinfection and soaking / |
| | Just soaking / |
| | Just disinfection / None |
| 150. Piglets corridor hygiene (aggregated variable from questions 157 and 158)¶ | Disinfection and soaking / Just |
| 151. Piglets section is cleaned with cold water | soaking / None Yes / No |
| 151. Piglets section is cleaned with cold water | Yes / No |
| 153. Piglets section is cleaned with soaking agent | Yes / No |
| 154. Piglets section is cleaned with disinfection agent | Yes / No |
| 155. After cleaning piglets section, there is a dry period of at least 24 hours | Yes / No |
| 156. Piglets section is cleaned by sweeping | Yes / No |
| 157. Piglets corridor is cleaned with soaking agent | Yes / No Yes / No |
| 158. Piglets corridor is cleaned with disinfection agent 159. Fatteners section hygiene (aggregated variable from questions 163 and 164) | Disinfection and soaking / |
| | Just soaking / |
| | Just disinfection / None |
| 160. Fattener corridor hygiene (aggregated variable from questions 167 and 168) | Disinfection and or soaking / |

| Question | Possible answers |
|---|---|
| 161. Eattener section is alcohold with sold water | None Yes / No |
| 161. Fattener section is cleaned with cold water 162. Fatteners section is cleaned with warm water | Yes / No |
| 163. Fatteners section is cleaned with soaking agent | Yes / No |
| 164. Fatteners section is cleaned with disinfection agent | Yes / No |
| 165. After cleaning fatteners section, there is a dry period of at least 24 hours | Yes / No |
| 166. Fatteners section is cleaned by sweeping | Yes / No |
| 167. Fatteners corridor is cleaned with soaking agent | Yes / No |
| 168. Fatteners corridor is cleaned with disinfection agent | Yes / No |
| 169. Gilts section hygiene (aggregated variable from questions 173 and 174)¶ | Disinfection and or soaking / Just soaking / None |
| 170. Gilts corridor hygiene (aggregated variable from questions 177 and 178)¶ | Disinfection and or soaking / None |
| 171. Gilts section is cleaned with cold water | Yes / No |
| 172. Gilts section is cleaned with warm water | Yes / No Yes / No |
| 173. Gilts section is cleaned with soaking agent 174. Gilts section is cleaned with disinfection agent | Yes / No |
| 175. After cleaning gilts section, there is a dry period of at least 24 hours | Yes / No |
| 176. Gilts section is cleaned by sweeping | Yes / No |
| 177. Gilts corridor is cleaned with soaking agent | Yes / No |
| 178. Gilts corridor is cleaned with disinfection agent | Yes / No |
| 179. Mating section hygiene (aggregated variable from questions 183 and 184) ¶ | Disinfection and or soaking / None |
| 180. Mating corridor hygiene (aggregated variable from questions 187 and 188)¶ | Disinfection and or soaking / None |
| 181. Mating section is cleaned with cold water | Yes / No |
| 182. Mating section is cleaned with warm water | Yes / No |
| 183. Mating section is cleaned with soaking agent | Yes / No |
| 184. Mating section is cleaned with disinfection agent | Yes / No |
| 185. After cleaning mating section, there is a dry period of at least 24 hours 186. Mating section is cleaned by sweeping | Yes / No Yes / No |
| 187. Mating corridor is cleaned with soaking agent | Yes / No |
| 188. Mating corridor is cleaned with disinfection agent | Yes / No |
| 189. Gestation shed section hygiene (aggregated variable from questions 193 and 194)¶ | Disinfection and or soaking / None |
| 190. Gestation shed corridor hygiene (aggregated variable from questions 197 and 198) \P | Disinfection and or soaking / None |
| 191. Gestation shed section is cleaned with cold water | Yes / No |
| 192. Gestation shed section is cleaned with warm water | Yes / No |
| 193. Gestation shed section is cleaned with soaking agent | Yes / No |
| 194. Gestation shed section is cleaned with disinfection agent | Yes / No |
| 195. After cleaning gestation shed section, there is a dry period of at least 24 hours 196. Gestation shed section is cleaned by sweeping | Yes / No Yes / No |
| 190. Gestation stred section is cleaned by sweeping | Yes / No |
| 198. Gestation corridor is cleaned with disinfection agent | Yes / No |
| Workflow, feed and water supply | |
| 199. Work is visibly done with a week planner¶ | Yes / No |
| 200. Work is visibly done with a day planner¶ | Yes / No |
| 201. There are protocols present in the shed (work flows) ¶ | Yes / No |
| 202. The date of placement is present on the section doors ¶ 203. Farm treatment plan recorded and stored¶ | Yes / No |
| 203. Farm treatment plan recorded and stored ₁ 204. A medical prescription with dosage is present on the farm¶ | Yes / No Yes / No |
| 205. Farrowing sows are fed with broth¶ | Yes / No |
| 206. Farrowing sows are fed with dry feed¶ | Yes / No |
| 207. Farrowing sows are fed with milk | Yes / No |
| 208. Farrowing sows are fed with mush/pulp | Yes / No |
| 209. Dry and gestating sows are fed with broth¶ | Yes / No |
| 210. Dry and gestating sows are fed with dry feed¶ | Yes / No |
| 211. Dry and gestating sows are fed with milk 212. Dry and gestating sows are fed with mush/pulp | Yes / No Yes / No |
| 213. Gilts are fed with broth¶ | Yes / No |
| 214. Gilts are fed with dry feed¶ | Yes / No |
| 215. Gilts are fed with milk | Yes / No |
| 216. Gilts are fed with mush/pulp | Yes / No |
| 217. Piglets with sow are fed with broth¶ | Yes / No |
| 218. Piglets with sow are fed with dry feed¶ | Yes / No |
| 219. Piglets with sow are fed with milk¶ | Yes / No |
| 220. Piglets with sow are fed with mush/pulp¶ | Yes / No |
| 221. Weaned piglets are fed with broth¶ 222. Weaned piglets are fed with dry feed¶ | Yes / No Yes / No |
| 223. Weaned piglets are fed with dry feedy | Yes / No |
| 224. Weaned piglets are fed with mush/pulp¶ | Yes / No |
| 225. Fatteners are fed with broth¶ | Yes / No |
| 226. Fatteners are fed with dry feed | Yes / No |
| | |

| Question | Possible answers |
|---|-----------------------------|
| 227. Fatteners are fed with milk | Yes / No |
| 228. Fatteners are fed with mush/pulp | Yes / No |
| 229. Animals get water mainly from¶ | Public source, tap/ Private |
| | source |
| 230. Water medication is possible via a dosator¶ | Yes / No |
| 231. Water medication is possible per section¶ | Yes / No |
| 232. A separate medication pipe is present on the farm¶ | Yes / No |
| 233. The water pipe is cleaned¶ | Yes / No |
| 234. In the farrowing section drinking water is just supplied via a nipple¶ | Yes / No |
| 235. In the farrowing section drinking water is mainly supplied via a nipple¶ | Yes / No |
| 236. In the farrowing section drinking water is mainly supplied via a water bowl¶ | Yes / No |
| 237. In the piglet section drinking water is just supplied via a nipple¶ | Yes / No |
| 238. In the piglet section drinking water is mainly supplied via a nipple¶ | Yes / No |
| 239. In the piglet section drinking water is just supplied via water bowl¶ | Yes / No |
| 240. In the piglet section drinking water is mainly supplied via a water bowl¶ | Yes / No |
| 241. In the fattener section drinking water is mainly supplied via a nipple¶ | Yes / No |
| 242. In the fattener section drinking water is just supplied via water bowl¶ | Yes / No |
| 243. In the fattener section drinking water is mainly supplied via a water bowl¶ | Yes / No |
| 244. In the (rearing) gilt section drinking water is mainly supplied via a nipple¶ | Yes / No |
| 245. In the (rearing) gilt section drinking water is mainly supplied via a water bowl¶ | Yes / No |
| 246. In the mating section drinking water is mainly supplied via a nipple¶ | Yes / No |
| 247. In the mating section drinking water is mainly supplied via a water bowl¶ | Yes / No |
| 248. In the gestation shed drinking water is mainly supplied via a water bowl¶ | Yes / No |
| Pold type indicates variables presented in table 5 with p<0.1 in the overall analysis or in at least one stratum (o | non or closed) |

Bold type indicates variables presented in table 5 with p≤0.1 in the overall analysis or in at least one stratum (open or closed).

¶Variables with less than 10% missing values, at least 10% of farms in each category. Random intercept generalized linear mixed models were fitted for each variable by using a macro statement in SAS.
†Farm size had a p>0.10 but was evaluated and presented irrespective of significance.

Technical Appendix Table 2. Human questionnaire used in each of the four sampling times in a risk factor analysis for livestock-associated methicillin-resistant *Staphylococcus aureus* in pig farming, the Netherlands, 2011-2013.

| Question | | Possible answers |
|----------------|--|----------------------------|
| General chara | cteristics: | |
| 1. Se | x: ¶ | M/F |
| 2. Ag | ge¶ | Years |
| 3. Re | elation to pig farmer¶ | Farmer / Worker / Partner/ |
| | • | Children |
| 4. I liv | ve on the pig farm ¶ | Yes / No |
| | imber of household members: ¶ | No. |
| Animal contact | " | |
| 6. Av | erage number of hours worked on the pig farm: ¶ | No. |
| 7. Die | d you touch someone else's pigs in the last 6/12 months? ¶ | Yes / No |
| | d you touch dairy cattle in the last 6/12 months? ¶ | Yes / No |
| | d you touch any calves in the last 6/12 months? ¶ | Yes / No |
| | d you touch any horses in the last 6/12 months? | Yes / No |
| | d you touch any sheep in the last 6/12 months? ¶ | Yes / No |
| | d you touch any goats in the last 6/12 months? ¶ | Yes / No |
| | d you touch any dogs in the last 6/12 months? ¶ | Yes / No |
| | d you touch any cats in the last 6/12 months? ¶ | Yes / No |
| | d you touch any poultry in the last 6/12 months? | Yes / No |
| | you have pets? ¶ | Yes / No |
| | a. How many dogs? ¶ | No. |
| | b. How many cats? ¶ | No. |
| | c. How many rabbits? | No. |
| | d. How many rodents? | No. |
| | e. How many fishes? | No. |
| 17 Ar | e your pets allowed in the living room? ¶ | Yes / No |
| | ned in the farm: | 1007110 |
| | orting the sows in the past 7 days ¶ | Yes / No |
| | orting the suckling piglets in the past 7 days ¶ | Yes / No |
| | orting the sackling piglets in the past 7 days ¶ | Yes / No |
| | orting the fattener pigs in the past 7 days ¶ | Yes / No |
| | reding sows in the past 7 days ¶ | Yes / No |
| | eding suckling piglets in the past 7 days ¶ | Yes / No |
| | eding sucking piglets in the past 7 days eding weaned piglets in the past 7 days | Yes / No |
| | reding wearied piglets in the past 7 days seding fattener pigs in the past 7 days | Yes / No |
| | ashing sows in the past 7 days ¶ | Yes / No |
| | ashing sows in the past 7 days ¶ ashing suckling piglets in the past 7 days ¶ | Yes / No |
| | . , , , , | Yes / No |
| | ashing weaned piglets in the past 7 days ¶ | |
| | ashing fattener pigs in the past 7 days ¶ | Yes / No Yes / No |
| | ealthcare tasks in sows in the past 7 days ¶ | |
| | ealthcare tasks in suckling piglets in the past 7 days ¶ | Yes / No |
| | ealthcare tasks in weaned piglets in the past 7 days ¶ | Yes / No |
| | ealthcare tasks in fattener pigs in the past 7 days ¶ | Yes / No |
| 34. Bit | rth assistance of sows in the past 7 days ¶ | Yes / No |
| | | |

| Question | Possible answers |
|---|----------------------|
| 35. Birth assistance of suckling piglets in the past 7 days ¶ | Yes / No |
| Birth assistance of weaned piglets in the past 7 days ¶ | Yes / No |
| 37. Birth assistance of fattener pigs in the past 7 days ¶ | Yes / No |
| 38. Removing the manure of sows in the past 7 days ¶ | Yes / No |
| 39. Removing the manure of suckling piglets in the past 7 days ¶ | Yes / No |
| 40. Removing the manure of weaned piglets in the past 7 days ¶ | Yes / No |
| 41. Removing the manure of fattener pigs in the past 7 days ¶ | Yes / No |
| 42. Cleaning and disinfecting sows in the past 7 days ¶ | Yes / No |
| 43. Cleaning and disinfecting suckling piglets in the past 7 days ¶ | Yes / No |
| 44. Cleaning and disinfecting weaned piglets in the past 7 days ¶ | Yes / No Yes / No |
| 45. Cleaning and disinfecting fattener pigs in the past 7 days ¶46. Did you yourself administer antibiotics to the pigs in the last month? ¶ | Yes / No |
| Personal hygiene: | 1 es / NO |
| 47. Do you use a mouth mask while working in the sheds? ¶ | Yes / No |
| 48. Do you wash your hands directly before entering the sheds? ¶ | Yes / No |
| 49. Do you wash your hands directly after leaving the sheds? ¶ | Yes / No |
| Individual health condition: | 1007110 |
| 50. Were you hospitalized in or did you visit a hospital in the Netherlands in the last | Yes / No |
| 6/12 months? ¶ | |
| 51. Were you hospitalized in another Dutch health institution or did you visit one in the | Yes / No |
| last 6/12 months? | |
| 52. Were you hospitalized in a foreign hospital or did you visit one in the last 6/12 | Yes / No |
| months? | |
| 53. Have you received homecare in the last 6/12 months? | Yes / No |
| 54. Did you visit your general practitioner in the last 6/12 months? ¶ | Yes / No |
| 55. Did you visit a specialist on the outpatient clinic in the last 6/12 months? | Yes / No |
| 56. Have you had allergies in the last 6/12 months? ¶ | Yes / No |
| 57. Have you had eczema in the last 6/12 months? ¶ | Yes / No |
| 58. Have you had psoriasis in the last 6/12 months? ¶ | Yes / No |
| 59. Have you had impetigo in the last 6/12 months? | Yes / No |
| 60. Have you had open wounds in the last 6/12 months? ¶ | Yes / No |
| 61. Have you had an abscess in the last 6/12 months? | Yes / No |
| 62. Have you had a furuncle in the last 6/12 months? | Yes / No |
| 63. Have you had a cold in the last 6/12 months? | Yes / No |
| 64. Have you had laryngitis in the last 6/12 months? | Yes / No |
| 65. Have you had inflammation of the ear in the last 6/12 months? | Yes / No |
| 66. Have you had sinusitis in the last 6/12 months? | Yes / No |
| 67. Have you had pneumonia in the last 6/12 months? | Yes / No |
| 68. Have you had COPD in the last 6/12 months? | Yes / No |
| 69. Have you had blood poisoning in the last 6/12 months? | Yes / No |
| 70. Have you had arthritis in the last 6/12 months? | Yes / No |
| 71. Have you had diabetes in the last 6/12 months? | Yes / No |
| 72. Have you had surgery in the last 6/12 months? | Yes / No |
| 73. Have you been fitted with a joint prosthesis in the last 6/12 months? | Yes / No |
| 74. Have you had an external fixator in the last 6/12 months? | Yes / No |
| 75. Have you had an IV in the last 6/12 months?76. Have you had an stomach tube in the last 6/12 months? | Yes / No |
| 76. Have you had an stomach tube in the last 6/12 months? 77. Have you had an intestinal tube in the last 6/12 months? | Yes / No Yes / No |
| 78. Have you had an trachea fistula in the last 6/12 months? | Yes / No |
| 79. Have you had artificial respiration in the last 6/12 months? | Yes / No |
| 80. Have you had a bladder catheter in the last 6/12 months? | Yes / No |
| 81. Have you had dialysis in the last 6/12 months? | Yes / No |
| 82. Have you had acupuncture in the last 6/12 months? | Yes / No |
| 83. Have you had medication with a needle in the last 6/12 months? | Yes / No |
| 84. Are you currently treated with medication? | Yes / No |
| a. Name medication. | text |
| b. Indication | text |
| c. Since date | date |
| 85. Have you ever smoked or do you currently smoke? ¶ | Yes / No |
| Contact with other people | 1 00 / 1.0 |
| 86. Did persons living in a foreign country stay at your place in the last 6/12 months? ¶ | Yes / No |
| 87. In which country do these persons live? | Country |
| 88. Did you go to another country for holidays? | Yes / No |
| 89. If more than 6/12 months ago, when was the last time? | Date |
| 90. If less than 6/12 months ago, when was the last time? | Date |
| Contact with meat | 2 |
| 91. How many times per week do you eat meat? ¶ | No. |
| 92. How many times per week do you have contact with unheated/unprocessed meat | No. |
| (for examples during cooking or packaging)? ¶ | |

(for examples during cooking or packaging)? ¶

Bold type indicates variables presented in table 4 with p≤0.2 in the longitudinal analysis with mixed models.

¶Variables with less than 10% missing values, at least 10% of farms in each category. Random intercept generalized linear mixed models were fitted for each variable by using a macro statement in SAS.

Technical Appendix Table 3. ORs for determinants of livestock-associated MRSA positivity in pooled pig samples (n = 1,054) from 32 farms (full multivariable generalized linear mixed model), the Netherlands, 2011-2013*

| from 32 farms (full multivariable generalized linear mixed m | nodel), the N | letherlands, 2011-2013* | |
|--|---------------|-------------------------|---------|
| Variable | Ν¶ | OR (95%CI) | P-value |
| Sampling moment | | | |
| 0 months | 262 | 0.89 (0.47-1.71) | <0.001 |
| 6 months | 290 | 2.30 (1.27-4.15) | |
| 12 months | 259 | 1.99 (1.15-3.42) | |
| 18 months | 243 | Ref. | |
| Age group | | | |
| Gilts | 212 | 1.11 (0.66-1.85) | <0.001 |
| Finishers | 140 | 4.25 (2.37-7.59) | |
| Suckling piglets | 212 | 3.99 (2.40-6.63) | |
| Weaned piglets | 280 | 10.40 (6.22-17.38) | |
| Sows | 210 | Ref. | |
| External supply of gilts† | | | |
| Open | 630 | 4.87 (1.24-19.16) | 0.023 |
| Closed | 424 | Ref. | |
| Water supply for animals | | | |
| Tap water | 424 | 2.42 (0.81-7.25) | 0.112 |
| Private source | 630 | Ref. | |
| Separate medication pipe | | | |
| Yes | 750 | 0.76 (0.31-1.90) | 0.559 |
| No | 304 | Ref. | |
| Carcass barrels cleaned and disinfected after emptied | | | |
| Yes | 398 | 0.62 (0.30-1.31) | 0.214 |
| No | 656 | Ref. | |
| There is a delivery room for materials | | | |
| Yes | 804 | 0.37 (0.15-0.90) | 0.028 |
| No | 250 | Ref. | |
| Injection of antimicrobials in piglets during the first week | | | |
| Yes | 601 | 1.45 (0.77-2.73) | 0.249 |
| No | 453 | Ref. | |
| Tooth clipping in piglets | | | |
| Yes | 416 | 1.83 (0.61-5.46) | 0.280 |
| No | 638 | Ref. | |
| Piglets and/or fatteners are vaccinated | | | |
| Yes | 870 | 1.37 (0.59-3.16) | 0.460 |
| No | 184 | Ref. | |
| Needles renewed per compartment | | | |
| Yes | 738 | 1.38 (0.68-2.78) | 0.370 |
| No | 316 | Ref. | |
| Sows in stable groups | | | |
| Yes | 594 | 0.61 (0.31-1.18) | 0.141 |
| No | 460 | Ref. | |
| Hygiene in piglet compartment | | | |
| Disinfection | 149 | 0.81 (0.24-2.69) | 0.773 |
| Soaking | 270 | 1.54 (0.53-4.51) | |
| Soaking and disinfection | 431 | 1.28 (0.52-4.51) | |
| None | 204 | Ref. | |
| Hygiene in the mating section | | , | |
| Soaking and disinfection | 169 | 0.50 (0.18-1.36) | 0.173 |
| None | 885 | Ref. | |
| Antimicrobial use per2-fold increase (log ₂ DDDA/Y) | 1054 | 1.21 (1.00-1.45) | 0.049 |
| Use of cephalosporins | | | |
| Yes | 84 | 2.76 (1.24-6.14) | 0.013 |
| No | 970 | Ref. | |

Model fit: -2 Log RSPL= 5397,87

*Full multivariable model with random intercept for farm, sampling time and animal age group as terms of adjustment. All variables from the longitudinal risk factor analysis in pigs with p≤0.0.05 (table 5) are fitted in the model together with overall antimicrobial use (log₂ DDDA/Y) and use of cephalosporins. MRSA, methicillin-resistant *Staphylococcus aureus*; OR, odds ratio; DDDA/Y, defined daily dosages animal per year; Ref, reference category; RSPL, residual pseudo-

Multiple variables had missing values in the full model reducing the number of observations in the final model (table 6). †Farms were defined as open when they received external supplies of gilts ≥1 time per year from at least 1 supplier and as closed when they received no external supply of gilts.