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Study on the Problems and Countermeasure in the Animal Products Quality and Safety

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Abstract As the supply chain of animal products is long, there are many factors which would influence the quality safety of animal production. Therefore, by focusing on the present and having a vision for future, Jiaozuo government promulgated Ten Policies on the Food Safety in Jiaozuo City, which pushed forward the technological development, intensified measures to monitor the quality of animal products, set up a series of mechanism, and provided reference for the food quality and safety monitoring.

Key words The quality and safety of animal products, Problems, Countermeasures

With the improvement of living standards, it has become the basic consumption requirement to eat enough, delicious and healthy food. Gradually, food safety has caught worldwide attention, for it relates to the people's livelihood, economic development as well as social stability. It is widely acknowledged that food is the first necessity for a man and food safety is the primary concern. However, because of the rapid development of animal husbandry industry and fast food turnover, there are more and more factors influencing the food safety. Especially in recent years, accidents concerning food safety happen so frequently that the quality and safety of meat, egg and milk has become the barometer of food safety. Surveillance over food safety has become the major concern to governments at all levels. According to the inspection of some outstanding food safety problems combined with many years experience, advices on the management of animal husbandry industry were given in this paper to provide references to people who may concern.

1 Problems of the animal products quality and safety

1.1 Increasing amount of diseases and zoonoses contracted commonly by both human beings and livestock

Along with the rapid development of modern animal husbandry industry, the production of animal products becomes more and more professional and the production scale is getting larger and larger. Factory production and scale operation have become the main production form of modern husbandry. The husbandry industry has developed from traditional family industry into a new independent industry, which plays an essential role in the supply of animal products, the employment of farmers and the increase of farmers' income. However, because of the small operation scale, shabby production condition, poor management of husbandry environment, and strict requirement over the husbandry species, many companies introduce animal products from other places, which in return leads to the occurrence of some new animal diseases, such as "Swine Influen-

za", etc.

1.2 Increasingly amount of drug residue The husbandry is the undertaking industry of agriculture. Above 90% feed in the animal production comes from agriculture. However, the drug residue in the crops would accumulate in animals' bodies. Meanwhile, in order to control the pestilence and bacteria, an increasing amount of medicines is put into the animals' feed, which would contribute to the large amount of drug residue in the animal body, especially the antibiotics residue.

1.3 The addition of artificial illegal drugs Driven by interests, some farm owners and feed production companies would use illegal drugs, such as Sudan Red, melamine, Clenbuterol and milk from leather shoes. Those issues are dangerous for the society, and also hard for food safety management.

1.4 Incomplete laws and regulations Right now, the laws and regulations on the food safety are imperfect, which makes it difficult for management department to operate. There are no unequivocal provisions on the admission of food safety, the form of quality safety report, division of the duty of different departments, and monitoring of quality and safety. Restrained by the administrative permission, if the grass-roots management department put forward clear requirement for food quality, it would have risks of exceeding his authority. Once there is food safety problem, the management department in the basic unit would also be accused for not being responsible for the people's life. These accusations put departments in the basic unit in a difficult situation. The market admission policy seems like a feasible measure to ensure the quality and sounds pleasant, but there are many difficulties in actual implementation.

1.5 High management funding and unbearable financial burden

Although most livestock and poultry farms and feed production companies are produce by the law, a few immoral farm owners still prefer to take risks, which bring great dangers to the society. First, regardless of animal products from other places, in terms of the animal products in Jiaozuo, the most efficient way to get rid of harmful ingredients in more than 500 kinds of feeds and

nearly twenty thousand farms is to examine each product before they come out of the company. This is difficult to realize at the moment, but in the future, with the expansion of management team and increase of financial power, it is possible to realize.

2 Countermeasures to the management of animal products quality and safety

The livestock production from piggery to dinning table needs the processing of cultivation, slaughter, storage, transportation and package. The long supply chain would result in many productions, so it is difficult to control the pollution source. While all walks of life has a high demand of food safety, to realize the effective management of livestock quality requires persistence on the scientific development outlook and people-oriented policy. Therefore, Jiaozuo Government and relevant departments issued the Ten Policies on Food Safety in Jiaozuo, established some long-term effective mechanism, improved food safety and provided measures to promote the construction of a harmonious society.

2.1 Strengthening publicity to improve the food safety awareness On the one hand, various measures are taken to publicize the importance of food safety. Books with cases of using illegal medicine in food are distributed to producers, managers and consumers. On the other hand, notices are delivered to farm owners, including setting up a warning brand, giving a promise, having a guideline, and receiving at least one publication education each season. Jiaozuo government distributes the Prize on Further Strengthening Food Safety. Anyone who reports food safety problems would be given at least 500 Yuan if what he said is true, so as to create a favorable market environment for the safe food production and to improve the husbandry production level and the ratio of livestock with good quality.

2.2 Pushing forward technological development of animal husbandry and production organization In recent years, Jiaozuo City has increased financial assistance, quickened the technological reform of husbandry industry and encouraged farm owners to use new technology and equipments. The natural way to raise pig is advised because it reduces the cost and lowers the rate of diseases. Besides, it is necessary to integrate various financial

assistances. Large farms would receive more assistance, while farms with poor production condition may be asked to revise. Small farms are persuaded to run other business. Furthermore, great efforts are made to push forward the cooperation and construction of husbandry industry, to improve the organization of husbandry industry, and to encourage registering animal products. So far, Jiaozuo City has fund production – processing – retail joint commission, and has established management policy to improve husbandry food. The food producer is named as the first man being responsible for the food safety.

2.3 To accelerate the legal construction of the animal production quality and to define the responsibility of relevant personnel Before the publicity of relevant laws about the food safety, Jiaozuo Government published a series of policies to make it clear of the responsibility and duty of each department. Once accidents happen, it is possible to track down the person who is responsible for the accident, which would create a favorable legal and social environment to the monitoring of food safety.

2.4 Improving the supervision of animal products' safety and strengthening food quality tests The strengthening of food quality is the essential evidence and effective measure to evaluate the food safety and to crack down the illegal production. To expand detection coverage as large as possible is essential and irreplaceable to the insurance of food safety. First of all, government at all level invested more than forty million Yuan, hired more than 130 technicians and purchased equipments like High performance liquid chromatography – mass spectrometry, high performance liquid chromatograph, atomic absorption spectrometer and ELISA. Then, based on relevant laws and regulations, it is necessary to integrate and intensify the examination so as to ban the use of illegal products. Besides, farms or factories which use illegal drugs would be punished. Firstly, those companies would be included in the blacklist and be publicized to the public through television, newspaper or internet. Secondly, the permission of those companies would be revoked. Thirdly, the corporate representative or person in charge of the company would be banned from participating the food production activity to terrorize the illegal production and to improve self-discipline.

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