

一例规模化猪场蓝耳混群感染处置 案例分析

Analysis of the Treatment of PRRS Mixed
Infection in a Large Scale Pig Farm

Science-driven solutions[®]

01

猪场背景信息

Background information of pig farm

李曼中国

Science-driven solutions®

猪场背景信息

Background information of pig farm



猪场背景信息

Background information of pig farm



猪场规模

Scale of pig farm

20000头

20000 heads

01



猪场地址

Pig farm address

内蒙古通辽

Tongliao, Inner
Mongolia

02



猪群状况

Pig herd status

8个母猪车间；
21年母猪车间轮流爆发蓝耳

8 sow workshops;
In 2021, the sow
workshop took turns
experiencing
outbreaks of PRRS

03



防控措施

Preventive and
control
measures

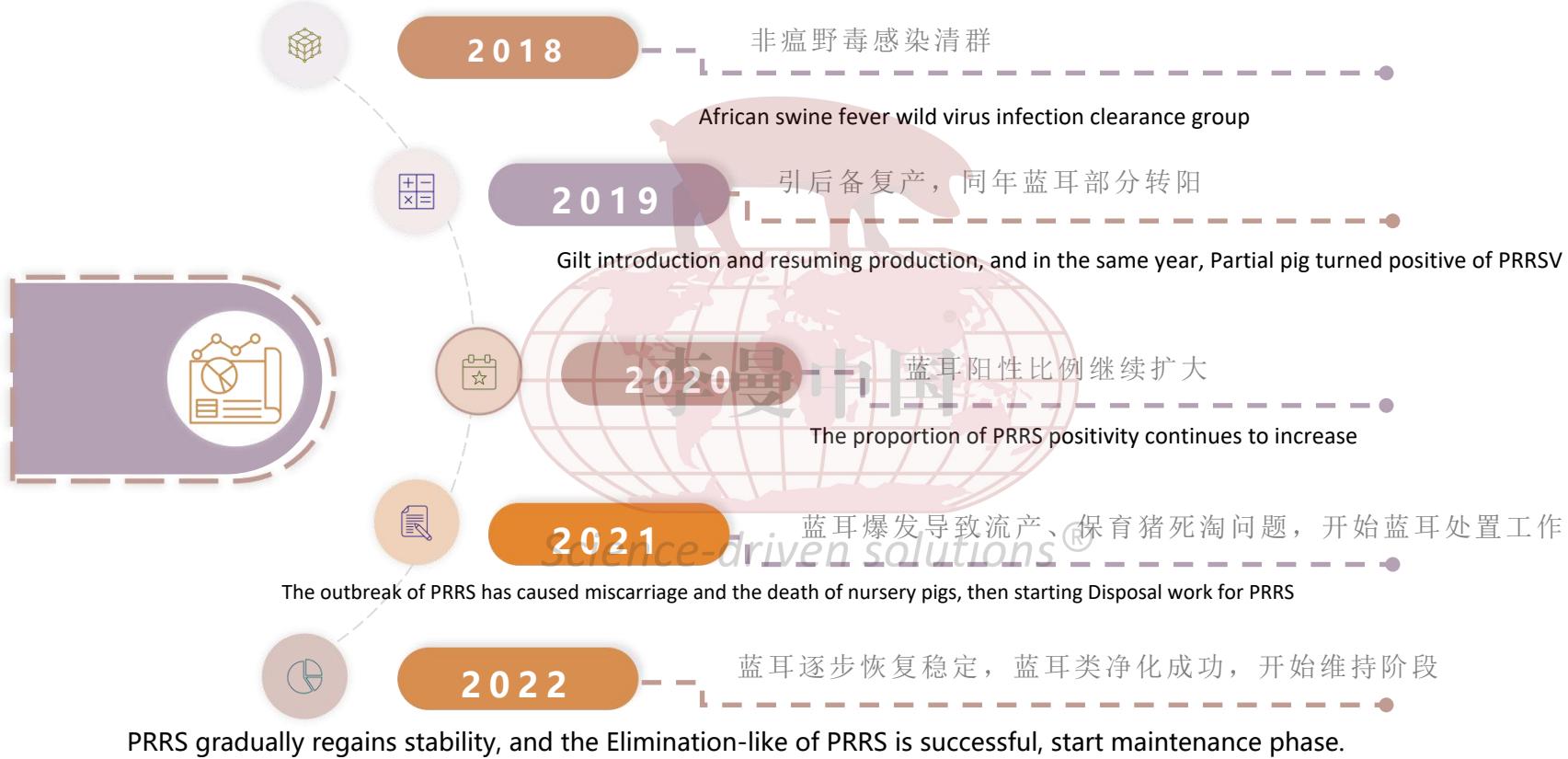
封群+淘汰、生物安全

Group
closure+elimination
, biosafety

04

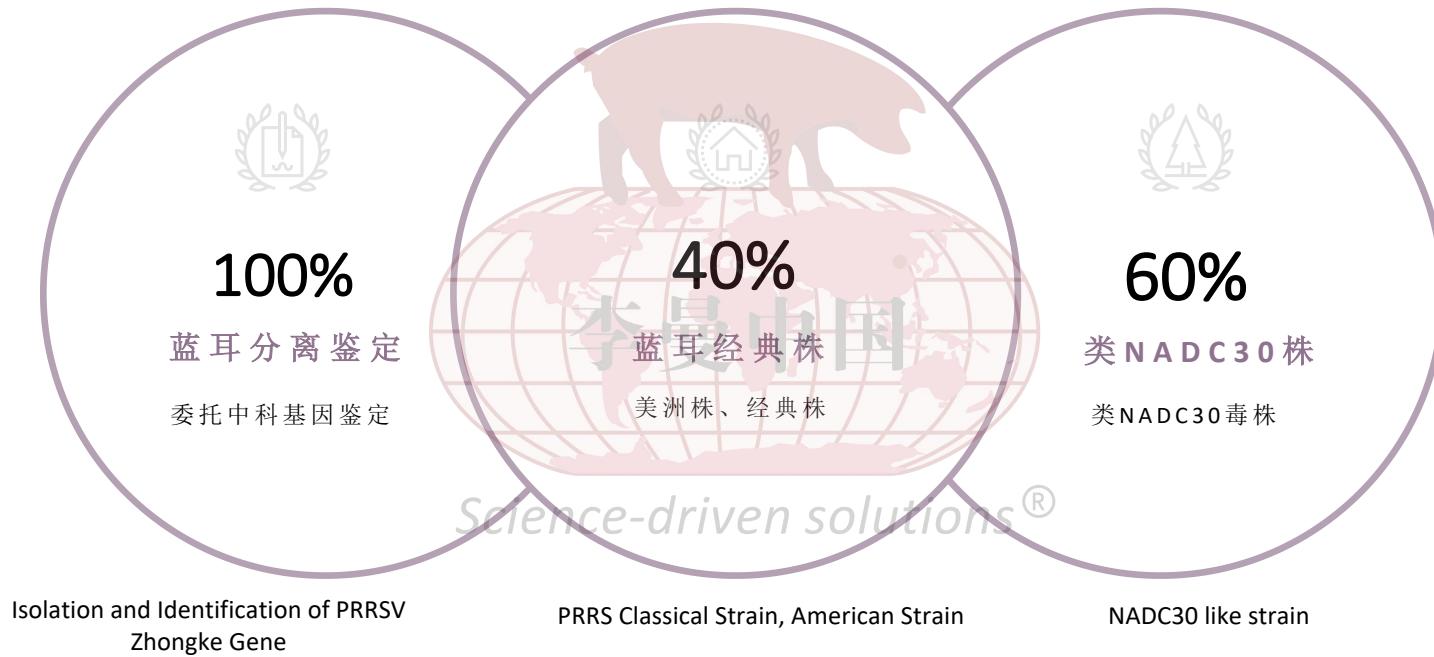
猪场蓝耳发病情况

Incidence of PRRS in Pig Farm



猪场蓝耳毒株分离鉴定

Isolation and identification of PRRS virus strains in the pig farm



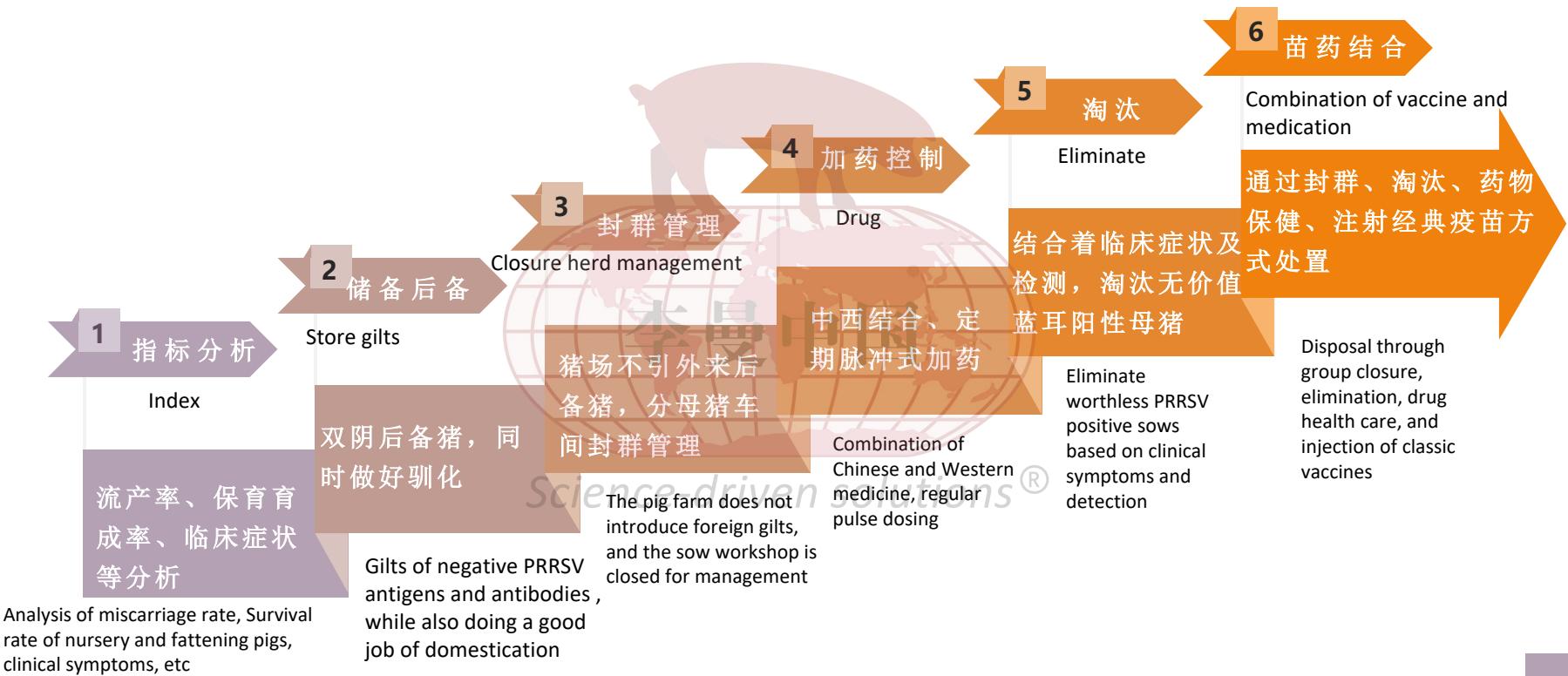
02

蓝耳病防控案例分析
Case Analysis of PRRS Prevention and Control
李曼中国

Science-driven solutions®

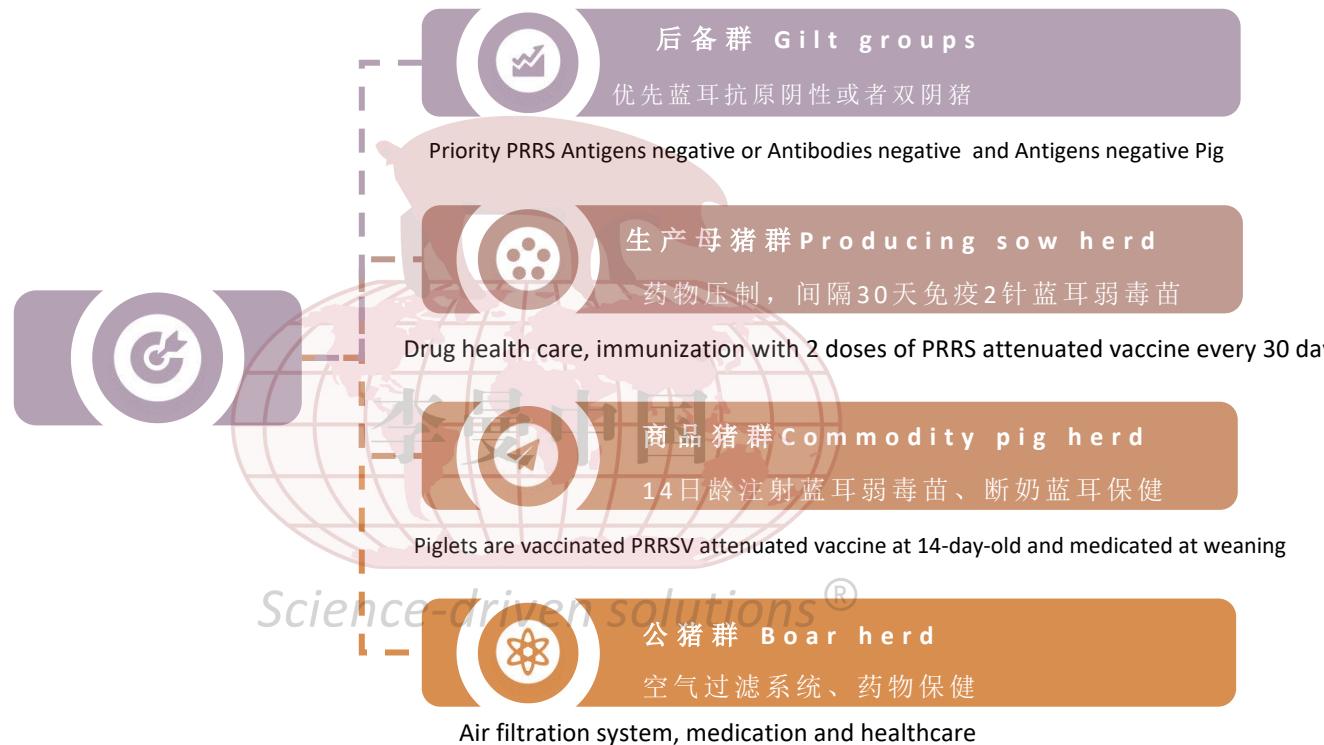
蓝耳封群处置技术路线

Technical route for the disposal of closed groups with PRRS



蓝耳封群处置过程

Process of PRRS Sealing Group Disposal



后备猪蓝耳处置

PRRS disposal process of reserve pig

后备猪蓝耳处置过程

PRRS disposal process of reserve pig



生产母猪蓝耳处置过程

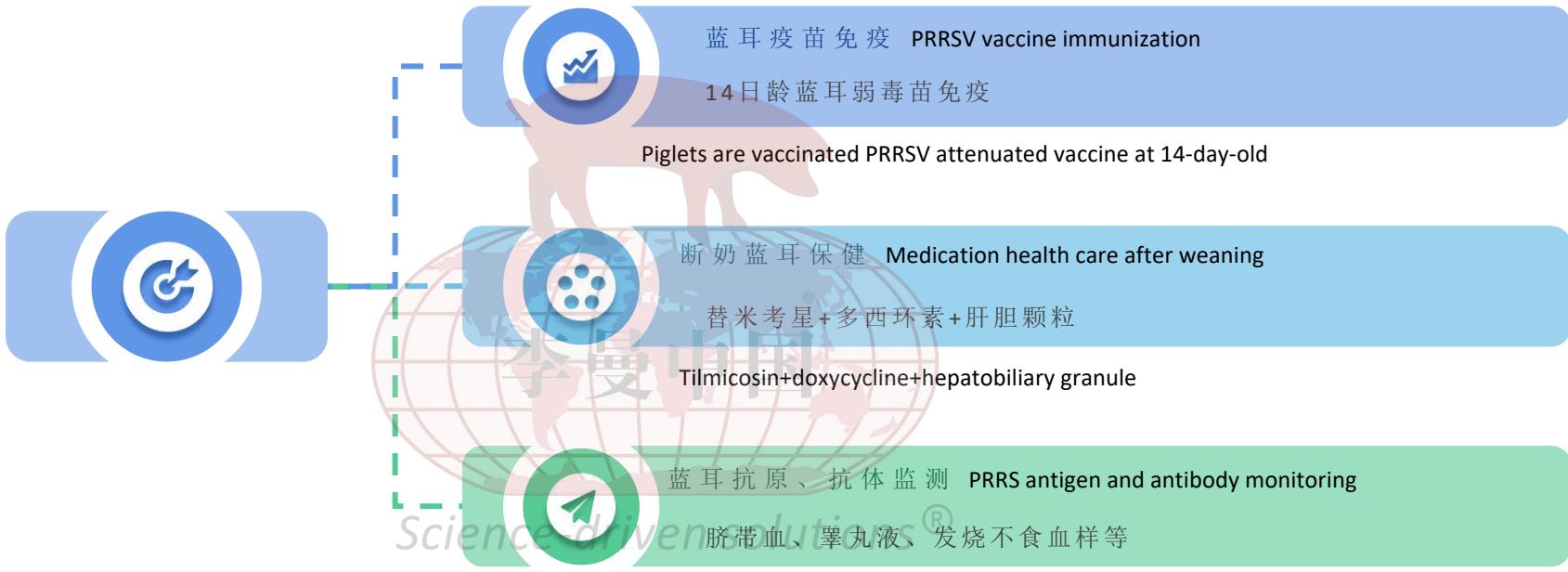
Process of handling PRRS in sows during production



蓝耳稳定后，生产母猪群蓝耳疫苗每年普免3次！
After stabilizing the PRRS, the PRRSV vaccine for sow herds will be generally exempted three times per year!

商品猪蓝耳处置

Disposal process of PRRS for commercial pig



公猪蓝耳处置

The disposal process of PRRS in boars

公猪蓝耳处置过程 The disposal process of PRRS in boars



生物安全工作

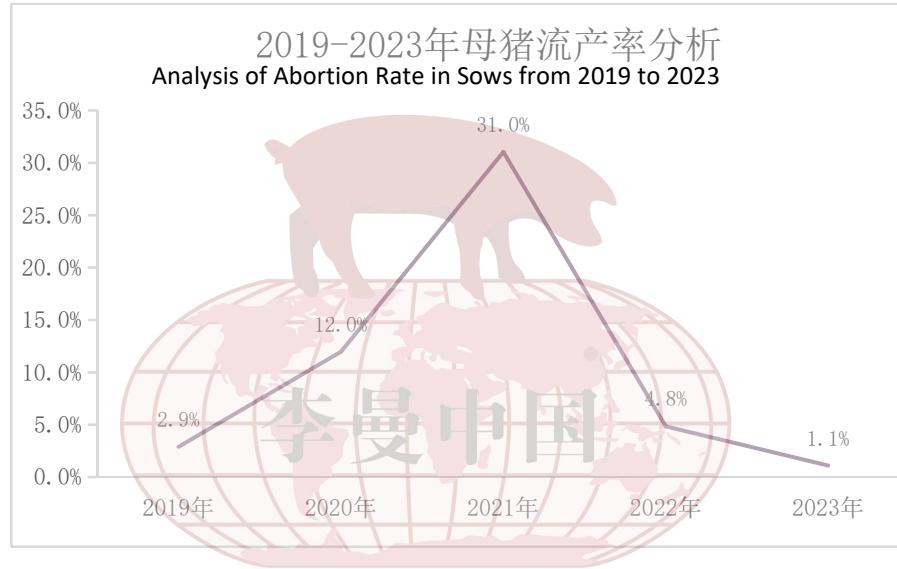
Biosafety work

生物
安全
工作
Biosafety work



母猪车间生产数据分析-母猪流产率

Analysis of Production Data in Sow Workshop - Abortion Rate of Sows



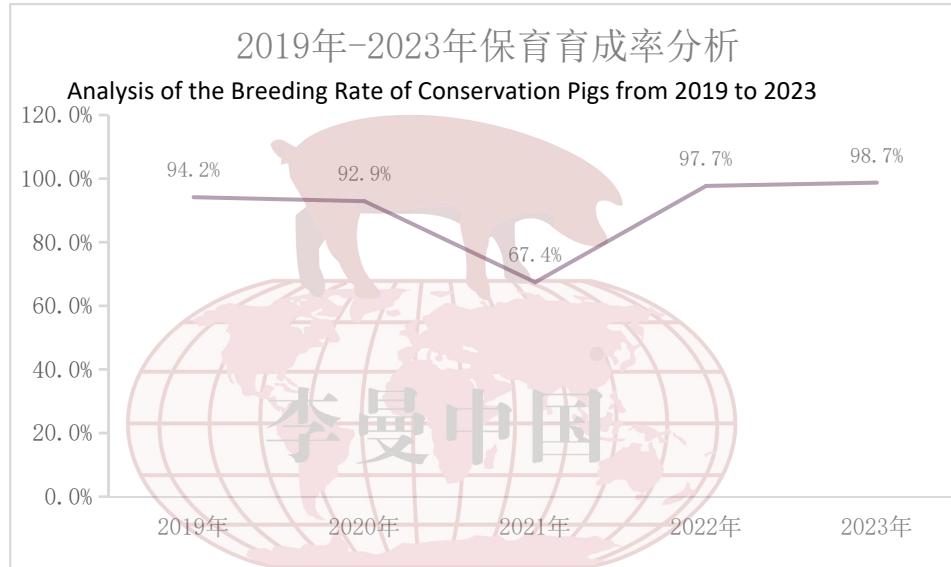
Science-driven solutions®

2019年-2021年母猪流产率升高并达到高峰，2021-2023年开始下降，并恢复至正常水平

The miscarriage rate of sows increased and reached its peak from 2019 to 2021, and began to decline from 2021 to 2023, returning to normal levels

母猪车间生产数据分析-保育育成率

Production Data Analysis of Sow Workshop - Survival rate of nursery and fattening pigs



Science-driven solutions®

2019年-2021年保育育成率下降，2021-2023年开始上升，并恢复至正常水平

From 2019 to 2021, Survival rate of nursery and fattening pigs declined, and starting to rise from 2021 to 2023 and returning to normal levels

母猪车间检测数据分析-蓝耳核酸阳性率

Analysis of Test Data in Sow Workshop - PRRS Nucleic Acid Positive Rate

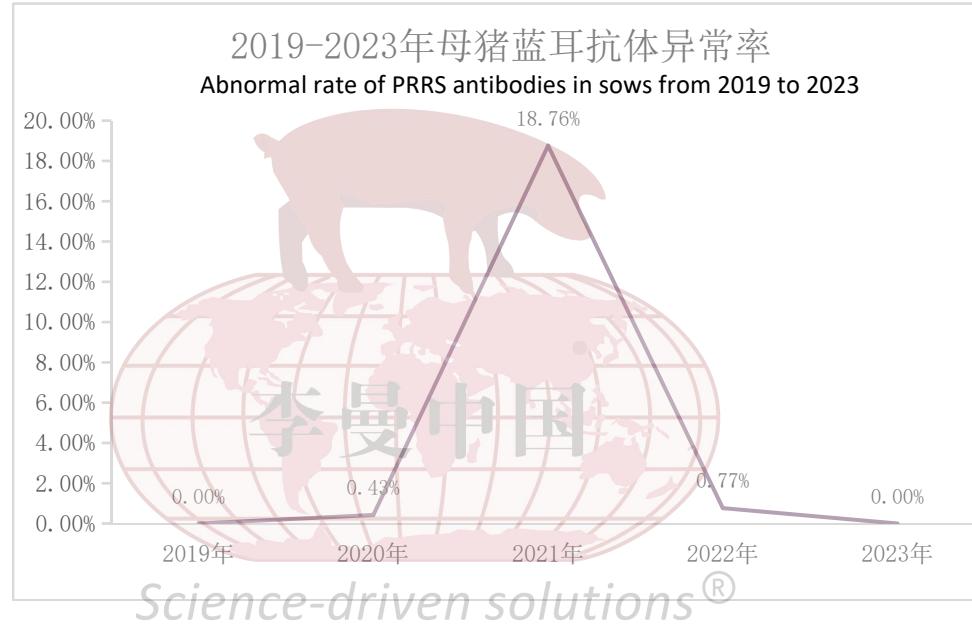


2019年-2021年母猪蓝耳抗原阳性率升高并达到高峰，2021-2023年开始下降，23年抗原阴性

The positive rate of PRRS antigen in sows increased and reached a peak from 2019 to 2021, and began to decline from 2021 to 2023, with antigen negative results in 2023

母猪车间检测数据分析-蓝耳抗体异常率

Analysis of Test Data in Sow Workshop - PRRS Antibody Abnormality Rate

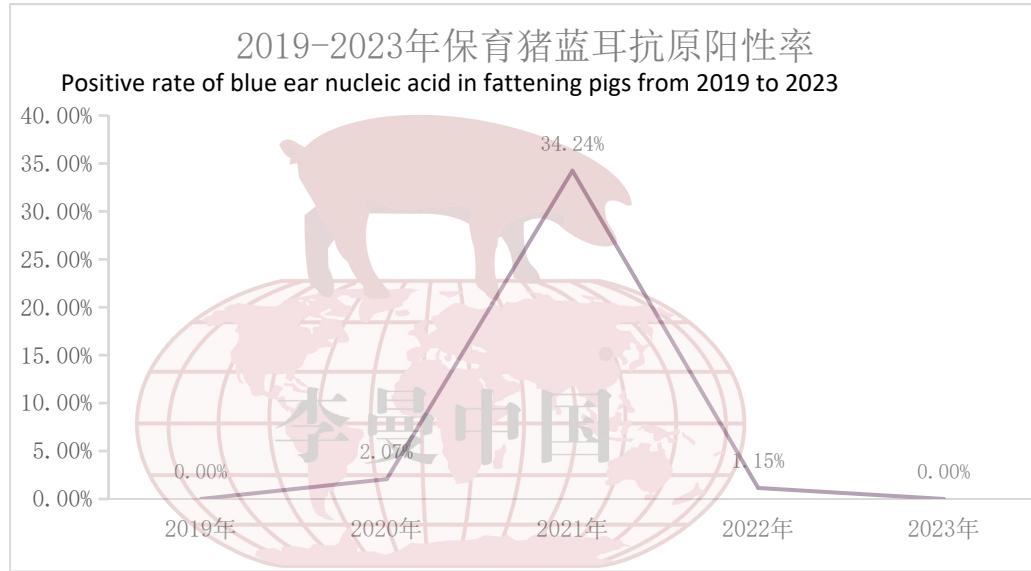


2019年-2021年母猪蓝耳抗体异常率升高并达到高峰，2021-2023年开始下降，23年无异常抗体

The rate of PRRS abnormal antibodies in sows increased and reached a peak from 2019 to 2021, and began to decline from 2021 to 2023.
There were no abnormal antibodies in 2023.

育肥车间检测数据分析-蓝耳核酸阳性率

Analysis of Testing Data in Pig Finishing Workshop - PRRS Nucleic Acid Positive Rate



Science-driven solutions®

2019年-2021年保育猪蓝耳抗原阳性率升高并达到高峰，2021-2023年开始下降，23年抗原阴性

The positive rate of PRRS antigen in nursery pig increased and reached a peak from 2019 to 2021, and began to decline from 2021 to 2023, with antigen negative results in 2023.

蓝耳封群处置小结

Summary of PRRS Closed Group Disposal

- ✿ 蓝耳检测分型，根据测序结果选择合适的疫苗；
Detection and typing of PRRSV, selecting appropriate vaccines based on sequencing results
- ✿ 母猪全群蓝耳保健，然后间隔1个月注射两次蓝耳弱毒苗；
Medication for health care of Sow herd, followed by two injections of PRRSV attenuated vaccine one month
- ✿ 商品猪14日龄蓝耳弱苗+断奶蓝耳保健；
Piglets are vaccinated PRRSV attenuated vaccine at 14-day-old+Medication health care after weaning
- ✿ 公猪群空气过滤+蓝耳保健；
Boar herd: air filtration+ medicine health care of PRRS
- ✿ 培育充足后备猪群，做好驯化及入群工作；
Cultivate sufficient gilts, and do a good job in domestication and herd introduction
- ✿ 抗原、抗体定期监测；
Regular monitoring of antigens and antibodies
- ✿ 做好生物安全工作；
Enhancing biosafety work
- ✿ 封群 Closed population

03

蓝耳病防控思考与总结

Reflection and Summary on the Prevention and Control of PRRS



蓝耳病防控思考与总结

Reflection and Summary on the Prevention and Control of PRRS



日常管理: 生物安全 (人流、物流、车流)、环境控制、应激控制、后备入群前驯化等;

Daily management: biosafety (flow of people, materials, and vehicles), environmental control, stress control, and domestication of gilts before joining the group;

封群管理: 封群+淘汰，期间自留后备、自繁自养;

Closure herd management: Closure herd+elimination, with self preservation and self cultivation during the period;

疫苗+药物: 疫苗和药物辅助，脉冲式加药，中西结合。

Vaccine+drug: Vaccine and drug assisted, pulse type dosing, combination of Chinese and Western medicine.

蓝耳防控-定期抗原、抗体监测

PRRS Prevention and Control - Regular Antigen and Antibody Monitoring

采样群体	样本类型	检测项目	Sampling group	Sample type	surveillance project
母猪	血样、脐带血	抗原	Sow	Blood samples, and umbilical cord blood	antigen
哺乳仔猪	血样、睾丸液	抗原	Suckling pig	Blood samples, and testicular fluid	antigen
断奶仔猪	唾液、血样	抗原	Weanling pig	Saliva, blood samples	antigen
保育仔猪	血样	抗原	Conservation piglets	Blood samples	antigen
育肥猪	唾液	抗原	Fattening pig	oral fluid	antigen
采精公猪	血样/精液	抗原	Spermatic boar	Blood sample /seminal fluid	antigen
查情公猪	血样	抗原	Detective boar	oral fluid	antigen

母猪、商品猪血样定期检测蓝耳抗体：蓝耳抗体S/P值>2.5属于异常（关注异常率）

Regular detection of PRRS antibodies in blood samples of sows and commercial pigs: PRRS antibody S/P value>2.5 is considered abnormal (pay attention to abnormal rate)



Science-driven solutions®