

# CWSHIN

## swine health surveillance

### 1<sup>st</sup> quarter 2021

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CWSHIN serves western swine producers, swine herd practitioners and governments to improve swine health, production, and the economic prosperity of the sector.

Our vision is to have a surveillance system imbedded in an intelligence network that monitors diseases both present and absent.

The surveillance system will be monitoring and assessing trends over time to:

- Detect new emerging swine health issues;
- Detect unusual clinical presentation of known diseases;
- Provide information about endemic diseases; and,
- For diseases absent in western Canada (such as FMD and ASF) the objective is to help provide evidence of the absence of disease to support trade.

In the intelligence network, we seek to exchange experience and knowledge on disease occurrence, treatment, control, and prevention.

<https://www.cwshin.ca/>

#### *Producer Report*

#### **Practical tips**

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Unusual clinical presentations such as sudden death in sows can be eligible for ASF rule-out testing. Your practitioners can submit material and request ASF rule-out testing.

Producers are reminded that infected manure is a possible route of PED introduction and to take extra precautions when spreading possibly infected manure.

If you suspect *Streptococcus suis* please call your veterinarian and have materials for culture sent to PDS or VDS.

A potential new strain of *Streptococcus zooepidemicus* in the US reminds us that vehicles returning from the US may be contaminated with unwanted disease. Take extra care cleaning these vehicles.

Early cross-fostering is important to reduce occurrence of greasy pigs. It may minimize competition and fighting which may reduce facial lesions that can develop into greasy pigs.

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## CWSHIN REPORT

## Follow-up

**PED in MB**

There are no active cases of PED in MB and 16 premises have been moved to full negative status.

**Streptococcus equii zooepidemicus**

A potential new strain of *Strep zoo* has been reported from Indiana, USA.

**Streptococcus project**

Your veterinarian will be contacted if either PDS or VDS detect *Strep suis* or *Strep zoo* in diagnostic material sent in from your herd.

**Practical tips**

The next months (April-June) are the season for new outbreaks of PED.

Producers are reminded that infected manure is a possible route of PED introduction and to take extra precautions when spreading possibly infected manure.

If you suspect *Streptococcus suis* please call your veterinarian and have materials for culture sent to PDS or VDS.

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**Follow up****PED**

All previously infected premises (in MB) have achieved presumptive negative status.

Premises that achieved presumptive negative status in 2018 or earlier may be able to move from presumptive negative to full negative status after lagoon testing and review and approval of the results by Manitoba's Chief Veterinary Office.

16 premises have moved to full negative status. Five more cases from 2017 could potentially be moved to full negative status after lagune-testing.

PED surveillance continues: two clinically suspicious cases in Q1 2021 were both tested negative. In the last 12 months, of 6 clinically suspicious cases 2 were positive (now presumptive negative) and 4 were negative. Wash bays and trucks returning from the US are closely monitored.

*The months (April to June) are the season for new outbreaks.*

**Strep zoo**

Five sow herds (in MB) have been confirmed infected with *Strep zoo* since early 2019:

- one herd depopulated and cleaned up;
- two herds have depopulated and repopulated with high health pigs;
- two herds will start clean-up this year or next.

News from the US - SHIC report ([Link](#))

During 2019, outbreaks of *S. zoo* septicemia were reported in Ohio and Tennessee with mortality up to 50%. Then in January 2021, a sow herd in Indiana experienced abnormally high mortalities related to *S. zoo*. Two-year-old adult sows from a production system in Indiana experienced increased death loss. Cyanotic ears, abortion, and uterine discharge was reported, and a laboratory diagnosis of *S. zoo* septicemia was given. These three Indiana isolates were found to be genetically distant and independent to the Ohio and Tennessee isolates, warranting further studies.

This is a reminder that vehicle returning from the US may be contaminated with diseases that are unwanted in the region. Therefore, take extra care when cleaning these vehicles.

CWSHIN REPORT

CWSHIN surveillance

**Greasy pig – Staph hyicus**

Several practices on the call reported an uptick in greasy pig.

**The tools in the surveillance are:**

1. Compare temporal trends CIS and laboratory;
2. Rank syndromes by CIS scores;
3. Rank syndromes by positive cases at laboratories;
4. Explore laboratory data.

In the 1<sup>st</sup> quarter in 2021 there were no signals or runs detected.

No discrepancies between clinical impression and laboratory findings to report.

The ranking of syndromes was the same for clinical impression and laboratory findings.

**Practical tips**

Early cross-fostering is important to reduce occurrence of greasy pigs.

**Targeted Emerging Health Issue Investigation on Streptococcus**  
Starting in May your veterinarian will be contacted if either PDS or VDS detect *Strep suis* or *Strep zoo* in diagnostic material sent in from your herd.

If you suspect *Streptococcus suis* please call your veterinarian and have materials for culture sent to PDS or VDS.

For further information please see: [Link to announcement](#)

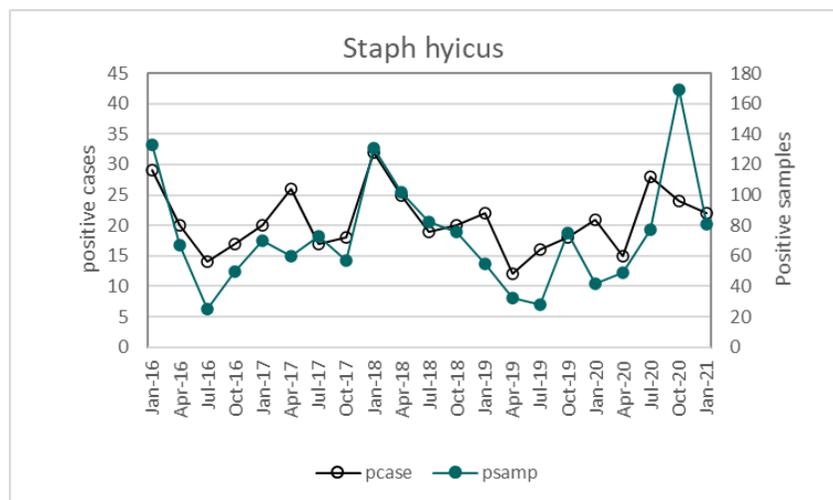
**CWSHIN surveillance**

**Greasy pig – Staphylococcus hyicus**

An uptick in greasy pigs was reported from several practices on the call. The number of positive cases has been high the last 3 quarters but in particular, the number of positive samples was high in the 4<sup>th</sup> quarter 2020 (Figure). The positive samples were identified at both VDS and PDS.

It was mentioned that since teeth clipping is not performed in about 70% of sow herds, competition about teats may result in more facial lesions and *Staph hyicus* infections.

Early cross-fostering therefore becomes important to minimize competition and fighting.



## New or unusual clinical presentations

Unusual clinical presentation can be eligible for ASF rule-out testing.

For example, sudden death in sows is a clinical diagnosis eligible for ASF rule-out testing.

Practitioners can request ASF rule-out testing for you. This rule-out testing should help give you peace-of-mind that ASF is not slowly spreading in your barn and putting your contacts at risk.

For further information: [Link to CanSpotASF](#)

### Practical tips

If you see sudden death in sows call your veterinarian.

## Comments from CIS

### *Prolapses*

It was mentioned that newer genetics with longer bodies and high performance (large litters) requires higher levels of management.

It was noted that in one system prolapses seemed more frequent in sows with large litters (16-21 piglets born).

## New or unusual clinical presentations

### *Case stories - Clostridium perfringens*

Four farms are undergoing investigations for the role of *Clostridium perfringens* in sow mortality. Black leg (*C septicum*) is another *Clostridium* that can cause sudden death, but it is rare (1-2 cases per year).

### *Case story -Wasting in late nursery*

Three cases in the last months presented with wasting and death in late nursery. It was most pronounced about three weeks into the nursery, but the onset could be earlier. Diagnostic were not conclusive and after 3 weeks the cases ceased.

Dr Huang mentioned a “starve-out” condition where pigs refuse to eat right after weaning and starve to death without obvious lesions or pathogens.

If you see wasting and your veterinarian finds no conclusive diagnosis, it is prudent to look at management factors.

## African Swine Fever – CanSpotASF

Before you see high mortality in a barn, ASF can spread very slowly, and the signs can be masked by common diseases. Therefore, to avoid spreading ASF to your contacts you would want to detect it early. Rule-out testing can help you.

Quarter	ASF cases tested				% of eligible cases
	VDS	PDS	Other	Subtotal	
Aug & Sep 2020	9	0	0	9	24%
Oct-20	32	1	3	36	63%
Jan-21	34	5	6	45	95%

With 45 cases tested in the last quarter, the region is doing well in the rule-out testing in CanSpotASF.