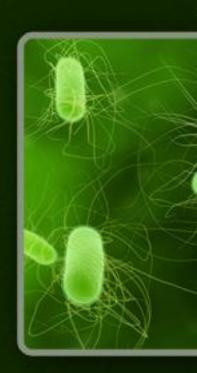




A Practical Biosecurity Audit

August 2nd, 2015





AGRICULTURAL SOCIETIES COUNCIL OF NSW LTD

INFORMATION HANDBOOK

for NSW Country Shows

Written and compiled by John Lee

Director ASC 2015





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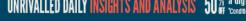


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Four get E coli at Ekka Show in Brisbane

AAP | AUGUST 23, 2013 5:30PM





A WOMAN and three children have been infected with E coli bacteria after petting animals at the Ekka show in Brisbane.

The state's chief health officer Dr Jeanette Young says a 33-year-old Brisbane woman and three children, aged six, 11 and 12, are being treated, but are not in hospital.

"They've obtained this infection and we know it is a very serious infection and potentially can cause significant problems," she told reporters.











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Queensland continues animal testing to find the source.

Another 17 suspected cases are awaiting the results of tests for Shiga toxin-producing E. coli, or STEC.

Ekka-goers alerted to E. coli outbreak

Eleven of the confirmed cases are children.







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LATEST IN NATIONAL



More cases in Ekka E coli outbreak

This story was published: 2 YEARS AGO | AUGUST 30, 2013 8:47PM

ALMOST 20 people are confirmed to have been infected with the E coli bacteria at the Brisbane Ekka show, but that number could still double.

So far, 19 people have tested positive to Shiga toxin-producing E coli (STEC) in Brisbane.

Of these, 11 are children under 13 and 12 confirmed they attended the Ekka.

A further 17 cases of gastroenteritis are being tested, with the results likely to be received next week.



Almost 20 people are confirmed to have been infected with E coli bacteria at the Brisbane Ekka show. Source: AAP



Advertisement

STORY BY

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"If their doctor believes they may have STEC

they should not attend child care or school

until testing shows they do not have STEC."



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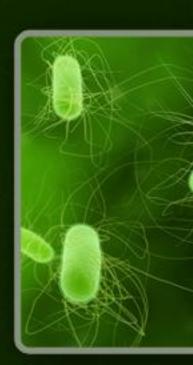
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Topics



Authorities say more than 100 possible cases of E. coli linked to Brisbane's Ekka

Just In Australia World Business Sport Analysis & Opinion Fact Check Programs

By Jesse Dorsett

Updated 5 Sep 2013, 6:34am

More than 100 people are facing an anxious wait to see if they have contracted the E. coli infection linked to the animal nursery at last month's Brisbane Ekka.

Thirty-two people, including some children, have been infected with a dangerous strain of E. coli.

Five have spent some time in hospital.

Another 103 are suffering symptoms from the bacterial infection, including diarrhoea and abdominal pain.

Australian Medical Association (AMA) spokesman Dr Christian Rowan warns people with similar signs.

"There can be significant complications such as hemolytic uremic syndrome, which is a form of the kidneys not working properly," he said.

"Hopefully it's peaked now but you just won't know unless people come forward."

Sorry, this video has expired

VIDEO: Health alerts issued for south-east Qld (7pm TV News QLD)

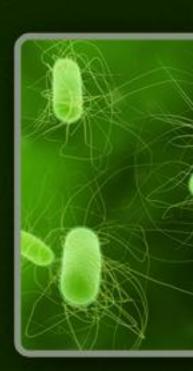
PHOTO: Another 103 are suffering symptoms from the E. coli bacterial infection, including diarrhoea and abdominal pain. (AFP: Christian Charisius - file photo)

RELATED STORY: Reds sign Lachie Turner from Waratahs

MAP: Brisbane Exhibition 4006

TOP STORIES

- Bishop pushes for criminal tribunal to investigate downing of MH17
- Comancheros bikie boss arrested at airport with \$60k; police
- SPORT Goodes may be contemplating AFL retirement
- Investigations continue into fatal Mount Isa caravan blast
- Virgin Galactic crash blamed on lax pilot training
- Domestic violence victim 'gobsmacked' at jail term handed to former partner who ran her off road
- Motorist missing after deadly crash near Orange
- French teen finds 560,000-yearold human tooth
- Gaddafi's son sentenced to death by Libyan court
- US tourist expresses regret after killing and beheading iconic lion Cecil
- Treasure hunter family finds \$1m booty from 18th century shipwreck
- US intelligence officer convicted of spying for Israel to be freed
- SPORT Rogers expected to play third Ashes Test





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Public Health Significance and Occurrence

Most Shiga toxin producing E. coli cases notified in Australia are sporadic infections. Infected individuals usually present with bloody diarrhoea and some may experience kidney failure due to HUS. HUS may occur in 5-10% of individuals during EHEC outbreaks and is more likely to occur among children or the elderly (3). HUS carries a 12% risk of death or end stage renal disease with 25% of survivors suffering long-term renal consequences (4). Therefore, considerable effort is made by public health authorities to investigate and control the spread of STEC infection. In Australia between 2000 and 2010 there were an average of 15 cases of HUS (range 3 to 31) notified annually to NNDSS. In Queensland, an average of two HUS cases (range 0 to 3) were notified annually over the same time period. There were six community STEC outbreaks reported in Queensland between 2001 and 2013. Two outbreaks were caused through zoonotic transmission (both petting zoos), two outbreaks involved person to person transmission and one outbreak was associated with contaminated tank water. No source or mode of transmission was identified in the other outbreak.

Australia's largest outbreak of STEC infection occurred in Queensland during August 2013 associated with a petting zoo at the RNA (Ekka). There were 57 notified cases of E. coli O157:H- infection including 55 primary infections and 2 secondary infections acquired through transmission from a primary case in the same household. The median age of cases was 9 years (65% cases were children). Bloody diarrhoea was reported among 41% cases but there were no reports of HUS. The median incubation period among primary cases was 4 days (range 1 to 11 days).

A case control study covering six Australian jurisdictions over the period 2003-2007 found risk factors for infection to include consuming hamburgers, eating at restaurants, occupational exposure to raw red meat by the case or a member of their household, occupational exposure to animals, consumption of sliced processed chicken meat, consumption of sliced corned beef, bush camping in Australia and eating at catered events (5).

A large outbreak of E. coli O111 infection occurred in Australia in 1995 associated with the consumption of contaminated mettwurst (6). Outbreaks have also been associated with environmental exposures including visiting petting zoos and dairy farms.

The most common cause of sporadic infection and outbreaks of E. coli O157:H7 in the United States has been the consumption of undercooked minced beef (7). Other documented causes of infection include consumption of contaminated alfalfa sprouts, salads (lettuce, coleslaw), fermented meat, unpasteurised milk, apple cider and drinking water (8).

A large international outbreak of E. coli O104:H4, associated with more than 3000 cases of infection and over 800 cases of HUS, occurred predominantly in Germany in May and June 2011 (9). Sprouts grown from fenugreek seeds were implicated as the source of infection on the basis of traceback investigation (10).



What happened at the Ekka



What is E.coli?

Escherichia coli

is the scientific name

uh-sheeruh-keeuh-cole-eye

is how it is pronounced

"Escherichia"

is the family of bacteria and

"coli"

is the species

0157:H7

a number is assigned to identify the type of sub species



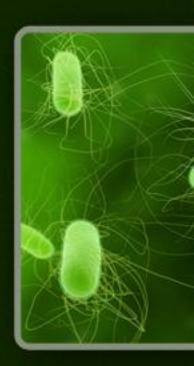
What is E.coli?(cont)

- E.coli is a very common bacteria
- It is part of the natural process of digestion
- It is found in the digestive tract of humans and animals,
 mainly in the small intestine
- The role E. coli plays in digestion is not fully understood, although studies have found it is involved in the process of breaking down vitamins for uptake
- E. coli have evolved over millions of years to suit their hosts, both human and other animals. It is only when they jump hosts that problems arise



Why is E.coli a problem?

- As part of their normal function some species of E.coli produce "Shiga Toxins"
- The E.coli outbreak at the 2013 Ekka was Shiga Toxin # 0157:H7
 which is highly infectious and can cause serious disease
- In rare cases, the infection can develop into a haemolytic-uremic syndrome, which damages the kidneys and can be fatal
- In 1995 an outbreak in Adelaide from contaminated Metwurst sausages resulted in the death of two children from Kidney Failure
- Many animals, mainly Cattle, carry 0157:H7 in their gut without any ill-effect



How Can E.coli get into your gut?

- As seen from the Brisbane Ekka experience the cause was believed to be the Animal Nursery
- Grazing animals generally don't emit E.coli through their faeces unless under great stress
- Few things are more stressful for animals than to be handled by a constant stream of adults and children who want to touch them
- The animals in the nursery often lay down in areas where there are faeces from many other species of animals in the enclosure. Hence ending up on their fleece and hair



How can E.coli get into your gut? (cont)

- All it takes is for a person to pat an animal with often invisible faeces on its coat and then to contact food or their mouth. The E.coli can then enter their digestive tract
- An infected person, regardless of age, can leave E.coli on surfaces they touch. Also surfaces that animals touch can be equally contaminated. So not actually touching animals while visiting the animal nursery does not protect you
- E.coli can survive outside the body for long periods of time in a range of conditions and at temperatures between 4 to 53 C



Prevention & Solutions

- Washing your hands immediately after contact with animals is the best way to prevent ingesting E.coli bacteria
- It has been estimated as many as 60% of people don't wash their hands after going to a public toilet, so why would anyone wash their hands after visiting an animal nursery?
- Education, signage and providing the facilities for hand washing are keys to a solution, along with having an attendant at the hand washing station to direct human traffic



Education & Signage

- Public address warnings about contact with animals and their faeces plus advising patrons to wash their hands
- Signs at entry points warning about contact. Hand contact only, no contact with the face
- "Hand Washing" signs throughout area where contact with animals is possible
- Produce a simple handout for patrons in an animal contact area.



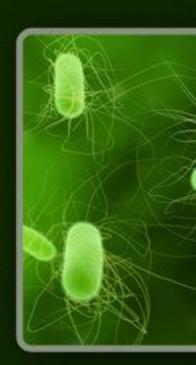
Assess your situation

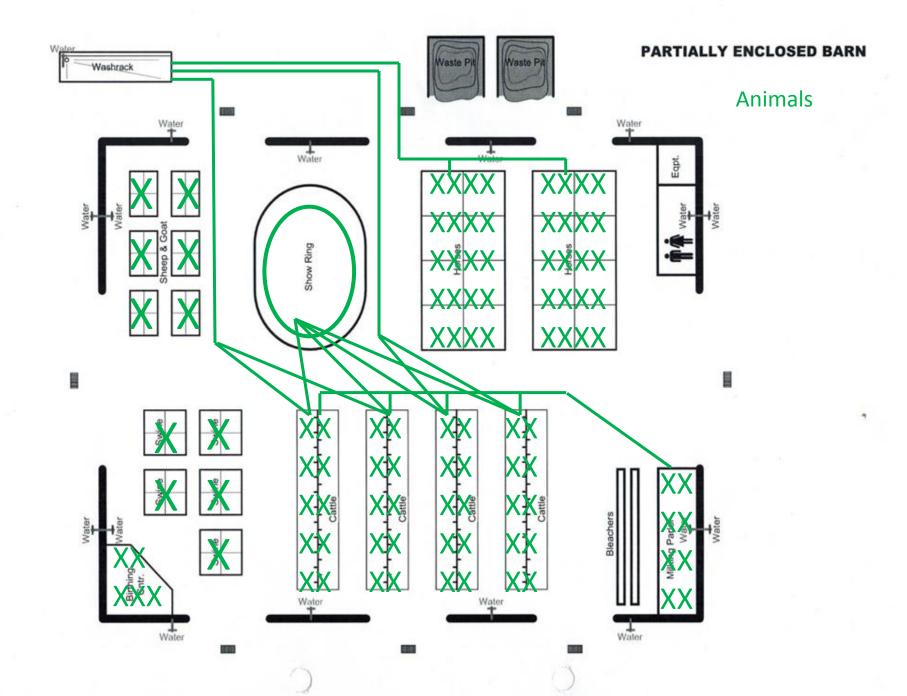
- Consider where the shed waste is housed
- Are there collection points that can overflow?
- Will heavy rain affect waste control?
- Is there a plan for waste monitoring and/or removal?
- Can the passageways where patrons walk be better controlled to reduce contact with wet and dry waste?
- Be mindful about the placement of food vendors in relation to housed animals
- For larger shows with ventilation systems, make sure exhausts are directed away from food vendors and public places

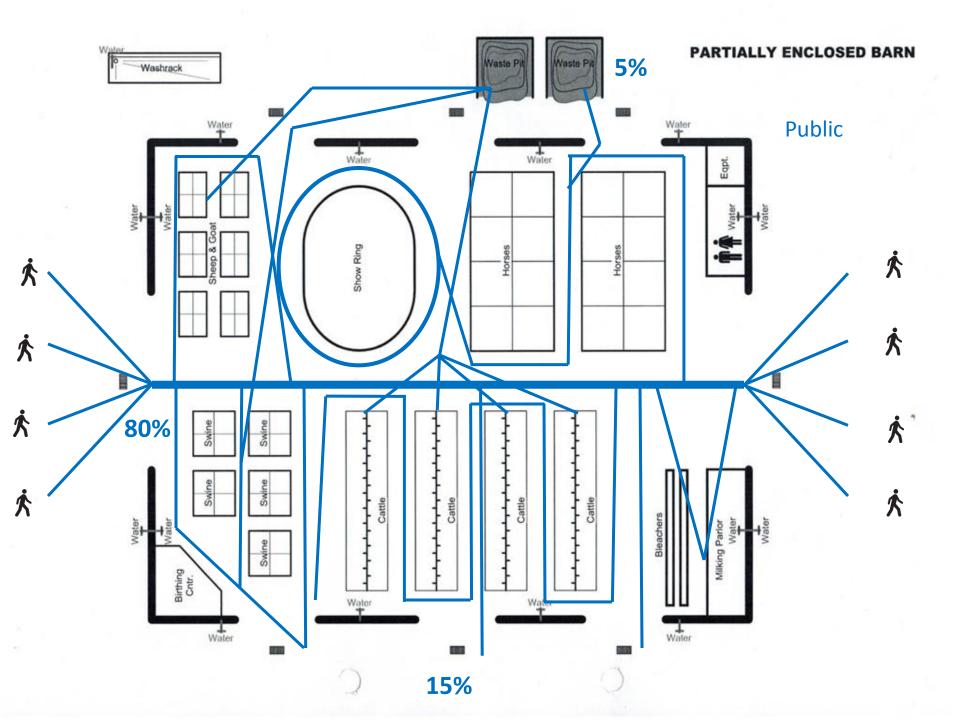


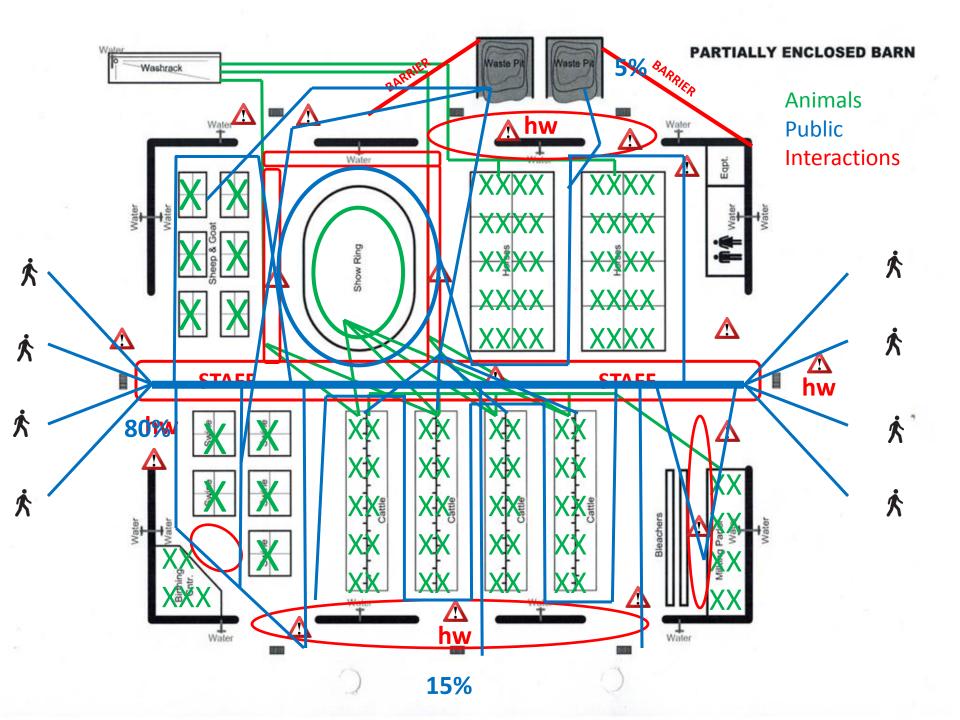
Assess your situation (cont)

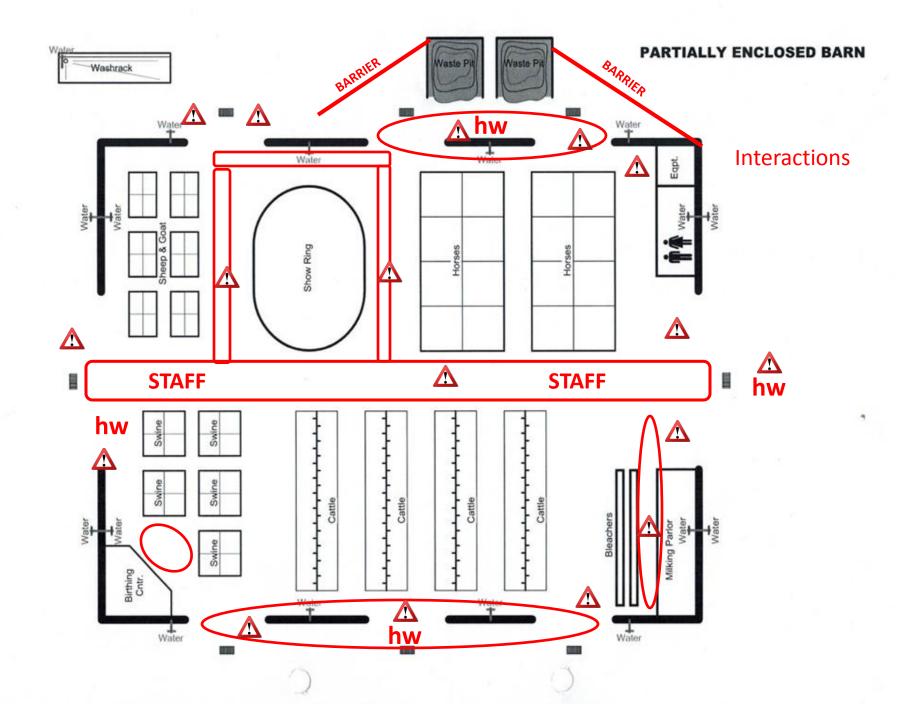
- Consider rotating animals in nurseries to reduce stress on the animal from human contact
- Provide hand washing facilities
- Regular animal waste monitoring and removal
- Post-event, ask staff for feedback that may be helpful for future shows and events







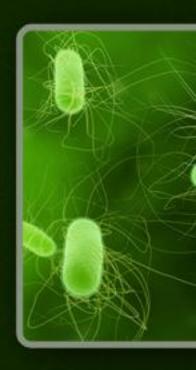




IT'S GAME SHOW TIME!!

....AND THERE'S PRIZES!

SO PLEASE CLOSE YOUR WORKBOOK



Question 1:

Correctly pronounce: Escherichia coli



Question 2:

The 1995 outbreak of E.coli in Adelaide was due to which contaminated food?

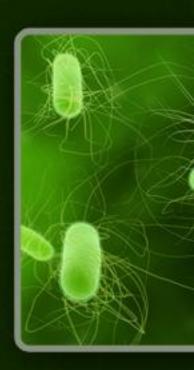
Answer: Sausages or Metwurst Sausages



Question 3:

Name 3 ways to guard against the spread of E.coli at your show

Answer: Handwashing, signage & education



Question 4:

Outside the body, what is the temperature range E.coli can remain alive at?

Answer: 4 to 53 degrees Celsius



Question 5:

What is the name of the biosecurity document shown earlier in this presentation and on the USB drive

Answer: Livestock Biosecurity Information Handbook

