

OTHER IMPORTANT ZONNOSES

OTHER IMPORTANT ZONNOSES ? (SHORT NOTES)

Salmonellosis ?

- **Agent** ? *Salmonella* species
 - **Transmission** ? Contaminated food (eggs, poultry)
 - **Features** ? Diarrhea, fever, abdominal pain
 - **Prevention** ? Food hygiene, proper cooking
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Campylobacteriosis ?

- **Agent** ? *Campylobacter jejuni*
 - **Transmission** ? Undercooked poultry, contaminated water
 - **Features** ? Diarrhea (often bloody), fever
 - **Complication** ? Guillain-Barré syndrome
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Q Fever ?

- **Agent** ? *Coxiella burnetii*
 - **Reservoir** ? Cattle, sheep, goats
 - **Transmission** ? Inhalation of aerosols ?
 - **Features** ? Fever, pneumonia, hepatitis
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Nipah Virus Infection ?

- **Agent** ? Nipah virus
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- **Reservoir** ? Fruit bats ?
 - **Transmission** ? Bat ? human / human-to-human
 - **Features** ? Encephalitis, high mortality ?
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Japanese Encephalitis (JE) ?

- **Agent** ? JE virus
 - **Reservoir** ? Pigs, birds ?
 - **Vector** ? Culex mosquito
 - **Features** ? Encephalitis, neurological symptoms
 - **Prevention** ? Vaccination ?
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Kyasanur Forest Disease (KFD) ?

- **Agent** ? KFD virus
 - **Reservoir** ? Monkeys
 - **Vector** ? Tick ?
 - **Features** ? Fever, hemorrhage
 - **Prevention** ? Tick control, vaccination
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Scrub Typhus ?

- **Agent** ? *Orientia tsutsugamushi*
 - **Vector** ? Mite (chigger) ?
 - **Reservoir** ? Rodents
 - **Features** ? Fever, eschar ?, rash
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Trichinellosis ?

- **Agent** ? *Trichinella spiralis*
 - **Transmission** ? Undercooked pork ?
 - **Features** ? Muscle pain, fever
 - **Prevention** ? Proper cooking of meat
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Psittacosis ?

- **Agent** ? *Chlamydia psittaci*
 - **Reservoir** ? Birds ?
 - **Transmission** ? Inhalation of dried droppings
 - **Features** ? Atypical pneumonia
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Bovine Tuberculosis ?

- **Agent** ? *Mycobacterium bovis*
 - **Reservoir** ? Cattle
 - **Transmission** ? Unpasteurized milk ?
 - **Prevention** ? Pasteurization
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? Ultra High-Yield One-Liners ?

- Nipah ? bat zoonosis, encephalitis ?
 - JE ? pig + mosquito ?
 - KFD ? tick-borne viral zoonosis ?
 - Scrub typhus ? eschar ?
 - Trichinella ? pork-related ?
 - Psittacosis ? bird exposure ?
 - Bovine TB ? milk-borne ?
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Concept Note ?

- Modern zoonoses include:
 - **Bacterial + Viral + Parasitic diseases ?**
- Reflects **expanded One Health approach**
- Important for:
 - Emerging infections
 - Pandemic preparedness

Table: Important Short-Note Zoonoses ?

DISEASE	AGENT	RESERVOIR / SOURCE	KEY FEATURE
Salmonellosis	<i>Salmonella</i>	Poultry, eggs	Diarrhea
Campylobacteriosis	<i>C. jejuni</i>	Poultry	Bloody diarrhea
Q Fever	<i>Coxiella burnetii</i>	Cattle, sheep	Aerosol transmission ?
Nipah ?	Nipah virus	Fruit bats	Encephalitis, high mortality
Japanese Encephalitis ?	JE virus	Pigs, birds	Vector-borne encephalitis
KFD ?	KFD virus	Monkeys	Tick-borne hemorrhagic fever
Scrub Typhus ?	<i>Orientia tsutsugamushi</i>	Rodents	Eschar ?
Trichinellosis	<i>Trichinella spiralis</i>	Pork	Muscle pain
Psittacosis	<i>Chlamydia psittaci</i>	Birds	Atypical pneumonia
Bovine TB	<i>Mycobacterium bovis</i>	Cattle	Milk-borne infection

Table: Emerging and Re-emerging Zoonoses ?

CATEGORY	EXAMPLES	KEY FEATURES
Emerging Zoonoses ?	Nipah, COVID-19	Newly identified / increasing incidence
Re-emerging Zoonoses ?	Plague, Leptospirosis	Previously controlled, now resurging

CATEGORY	EXAMPLES	KEY FEATURES
Factors Responsible ?	Urbanization, deforestation, climate change, globalization	Increased human–animal interaction
Public Health Importance ?	Outbreak potential, epidemic risk	Requires surveillance & One Health approach

Table: Food-borne Zoonoses ?

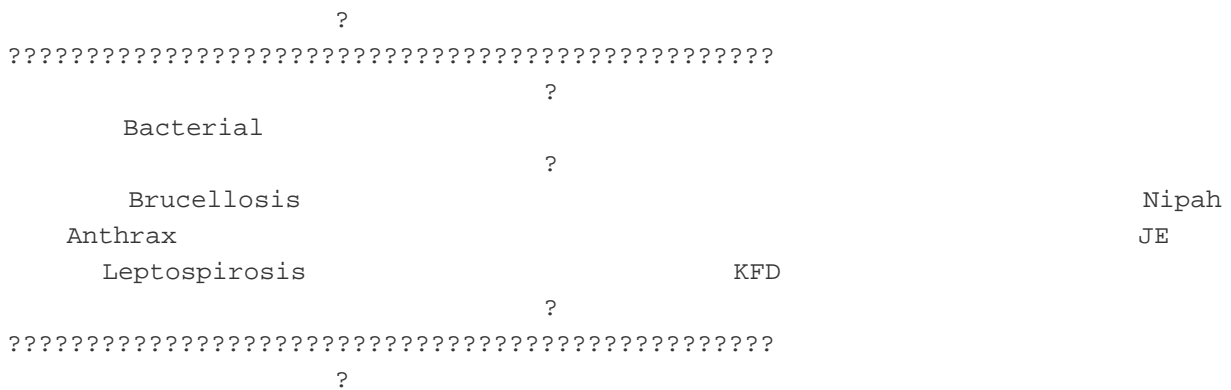
DISEASE	AGENT	SOURCE	PREVENTION
Brucellosis ?	<i>Brucella</i>	Unpasteurized milk	Pasteurization
Salmonellosis	<i>Salmonella</i>	Contaminated food (eggs, poultry)	Proper cooking
Campylobacteriosis	<i>Campylobacter</i>	Poultry	Food hygiene
Taeniasis ?	<i>Taenia</i>	Undercooked pork/beef	Proper cooking
Trichinellosis	<i>Trichinella</i>	Undercooked pork	Proper cooking
Bovine TB	<i>M. bovis</i>	Milk	Pasteurization

? High-Yield Points ?

- Food-borne zoonoses = milk + meat related ?
- Emerging zoonoses = major exam trend ?
- Nipah = high mortality zoonosis ?
- JE = vector-borne zoonosis ?

- Pasteurization = key preventive step ?

Figure: Broad Spectrum of Zoonotic Diseases ?



? Key Concept ?

- Zoonoses include **bacterial, viral, parasitic, and helminthic diseases**
- Reflects **broad One Health spectrum**

Flowchart: Emerging Zoonosis Drivers ?

Environmental changes
(deforestation, climate change) ?
?
Increased human–animal interaction
?
Urbanization & population growth
?
Global travel & trade
?

Wildlife exposure / wet markets

?

Pathogen spillover from animals

?

Emergence of new zoonotic diseases ?

?

Rapid spread (epidemic/pandemic)

?

Need for surveillance & One Health approach ?
