Disease	Causative Pathogen	Region	Main Reservoirs	ModeofTransmissiontoHumans
Anthrax	Bacillus anthracis	Africa, Asia, South America, Middle East, parts of Europe	Cattle, sheep, goats, horses (most mammals), some birds	Occupational contact exposure, ingestion/foodborne, rarely airborne
Campylobacteriosi s	Campylobacter spp	Worldwide	Poultry, farm animals, wild birds	Foodborne (raw meat, milk) and direct contact with infected animals (fecal/oral)
Chlamydiosis	Chlamydia abortus, C. felis	C. felis worldwide; C abortus in most sheep-raising areas (not Australia or New Zealand)	<i>C. abortus</i> in sheep, goats, cattle, other mammals; <i>C. felis</i> in cats	Contact with animals
Enterohemorrhagic <i>Escherichia coli</i> infections	E. coli O157:H7 and other types/serogro ups	Worldwide	Cattle, sheep, goats, bison, deer, pigs, other mammals, birds	Ingestionofundercookedmeat(groundbeef),vegetables,orcontaminatedwater;directcontactfeces or contaminatedsoil
Leptospirosis	<i>Leptospira</i> spp.	Worldwide	Reservoir hosts include rodents, dogs, cattle, pigs, farmed red deer, others	Occupational and recreational exposure, or exposure to urban rodent-contaminated material, especially skin, mucous membrane contact; water- and foodborne
Listeriosis	Listeria monocytogenes	Worldwide	Cattle, sheep, soil	Foodborne via unpasteurized dairy, raw meat, fish, vegetables, contaminated water or soil, direct contact with animals and nosocomial
Lyme disease	Borrelia burgdorferi	North America, cases reported in Europe, Australia, parts	Ticks, rodents, sheep, small mammals	<i>Ixodes</i> spp. bite

Table	S1.	Selected	bacterial	zoonoses *.
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		of Asia, and the		
Methicillin- resistant <i>Staphylococcus</i> <i>aureus</i> (MRSA) infections	<i>S. aureus</i> with <i>mecA</i> gene; some strains maintained in animals or people but animals can become carriers	Amazon Worldwide	Pigs; cats and dogs mainly acquire strains from people; other mammals (horses, cattle); birds and poultry	Usually by direct contact with asymptomatic carrier animals; other routes also described; can be nosocomial in hospitals
Plague	Yersinia pestis	Foci in North and South America, Asia, Middle East, and Africa	Rodents and their fleas; some mammals including cats	Flea bite, scratches or bites from infected cats, handling infected animals or tissues
Q (query) fever	Coxiella burnetti	Worldwide	Cattle, sheep, goats, cats, dogs, birds, and possibly capybara and kangaroos	Mainly aerosol, direct contact with and exposure to the animal placenta and birth tissues and excreta
Salmonellosis	Salmonella spp.	Worldwide	Poultry, cattle, pigs, widespread in mammals, birds, reptiles, amphibians	Direct animal contact, raw meat, food, and fecal-oral infection
Streptococcal infections	Streptococcus spp.	Worldwide	Swine, horses, dogs, cats, fish	Ingestion of unpasteurized dairy products, pork; direct contact often through broken skin; <i>S</i> <i>pyogenes</i> can colonize bovine udder and be transmitted in milk
Yersiniosis	Yersinia pseudotubercul osis, Y. enterolitica	Worldwide	Many domestic and wild mammals, pigs are the main reservoir	Ingestion of raw or undercooked pork, fresh milk, and dairy
Zoonotic diphtheria	Corynebacteri um ulcerans	Probably worldwide, human incidence may be increasing	Cattle, farm animals, dogs, cats, ferrets	Direct contact, unpasteurized milk consumption

* Diseases information sources: Merck Veterinary Manual [28]; GOV.UK [29]

Table S2. Selected viral zoonoses *.

Disease	Causative Pathogen	Region	Main Reservoirs	Mode of Transmission to Humans
Avian and Swine influenza A	Genus Influenzavirus A; swine H3N2, H1N1, avian H5N1, H7N9	Worldwide	Wild and domestic birds, especially poultry; pigs and turkeys	Usually, contact with infected animals shed in respiratory secretions
Buffalopox virus infection	Vaccinia virus, Buffalopox strain (genus <i>Orthopoxvirus</i>)	Indian subcontinent (South Asia), Egypt, Indonesia	Water buffalo, cattle	Skin contact with infected animals, often when milking
Cowpox	Cowpox virus genus Orthopoxvirus	Parts of Europe and Asia	Rodents, wild and domestic cats	Direct contact (broken skin, bites, scratches)
Crimean-Congo hemorrhagic fever	Crimean- Congo hemorrhagic fever virus genus <i>Nairovirus</i>	Africa, Middle East, Central Asia, Southeastern Europe, it may be spreading	Livestock (cattle, sheep, goats), some birds, ticks	Tick bites, direct contact with animal blood, unpasteurized milk ingestion
Ebola hemorrhagic fever	Ebola virus	Africa	Bats are suspected reservoir, primates	Contact with infected primate tissues, possible transmission from cave bats
Foot-and-mouth disease	Foot-and- mouth disease virus (genus <i>Aphthovirus</i>)	Asia, Africa, Middle East, South America	Cattle, swine, sheep, goats, others	Contact exposure
Hantavirus syndromes	Hantaviruses	The Americas, Europe, Asia	Rodents, maybe insectivorous species (shrews and moles), bats	Aerosolized excreta, bites, and direct contact of human broken skin with rodents
Hepatitis E	Hepatitis E virus	Worldwide	Pigs, wild boar, deer, maybe camels	Undercooked animal meat consumption, fecal-oral spread
Lassa fever	Lassa virus (genus <i>Arenavirus</i>)	West Africa	Wild rodents (multimammate rat)	Contact with rodent excretions, secretions, or tissues; aerosol
Nipah virus infection	Nipah virus (genus <i>Henipavirus</i>)	Malaysia, Bangladesh, and northern India	Fruit bats, sometimes swine	Direct contact with contaminated pigs or infected tissue, bat-to- human transmission (contaminated juice, date palm sap)
Rabies	Genus <i>Lyssavirus</i> and related lyssaviruses	Worldwide with some exceptions	Dogs, foxes, bats, cats	Bites of diseased animals; aerosols in closed environments
Rift Valley fever	Rift Valley fever virus genus <i>Flavivirus</i>)	Africa, foci in Arabian peninsula, Indian subcontinent	Cattle, goats, sheep, buffalo, camels, nonhuman primates, squirrels, puppies, and kittens	Mosquito bites, contact with tissues

West Nile fever and	West	Niles	East	and	West	Mostly birds	Mosquito	bite	(Culex
virus infection	virus	(genus	hemis	pheres	;		spp.)		
	Flavivir	Flavivirus)							
Yellow fever	Yellow	fever	South	Ameri	ca and	Non-human	Mosquito b	oite	
	virus	(genus	Africa	ı		primates			
	Flavivir	us)							

*Diseases information sources: Merck Veterinary Manual [28]; GOV.UK [29] For coronavirus zoonoses see Table 2.

Disease	Causative Pathogen	Region	Main Reservoirs	Mode of Transmission to Humans		
Onchocerciasis	Onchocerca Spp.	Species-specific; mostly Europe, the USA, and Japan	Cattle, horses, cervids, wild boars, dogs and other canids, camels	Probably transmitted by black flies		
Pork tapeworm disease; cysticercosis and neurocysticercosis	Taenia solium, Taenia spp.	Worldwide where swine are reared; mostly Africa, Asia, Central and South America	People, pigs, cattle, and other mammals as intermediate hosts	Ingestion of undercooked pork with larvae causes taeniasis; ingestion of eggs (including autoinfection from an adult worm in the intestine) causes cysticercosis		
Toxoplasmosis	Toxoplasma gondii	Worldwide	Domestic cats; other mammals including livestock, deer, and birds considered intermediate hosts	Ingestion of oocysts in feces of infected cats (including contaminated soil, food, water) or tissue cysts in undercooked meat or unpasteurized milk		
Variant Creutzfeldt- Jakob (mad cow) disease	Bovine spongiform encephalopath y prion	Most cases in the UK	Cattle and other ruminants, cats and other felids, lemurs	Ingestion of bovine products contaminated with CNS tissues		

Table S3. Selected	parasitic and	other non-	bacterial	non-viral	zoonoses '	f
Table 00. Delete	parasine and	ould non-	Dacteriai	11011-viiai	LOUIDSUS	

* Diseases information sources: Merck Veterinary Manual [28]; GOV.UK [29]