

Condition	Description	Clinical signs	Diagnosis	Treatment
Ectoparasites	<ul style="list-style-type: none"> multiple species known to infect species of most concern is <i>Demodex merioni</i> often seen with an underlying immunosuppression 	<ul style="list-style-type: none"> alopecia, pruritus, dermatitis, hyperpigmentation 	<ul style="list-style-type: none"> microscopy of deep skin scrapes 	<ul style="list-style-type: none"> treat underlying immunosuppression and prevent stress ivermectin at 0.2mg/kg SC or topically every seven days for three doses extended until skin scrapes are negative treat in-contact animals
Dermatomycosis	<ul style="list-style-type: none"> typically caused by <i>Trichophyton microsporum</i>; however, infections with <i>Microsporum gypseum</i> are possible subclinical carriers possible immunosuppression or stress predisposes zoonotic and highly contagious. 	<ul style="list-style-type: none"> pruritic circular lesions; but can also be irregular or diffuse alopecia, scaling, crusting of head, ears, back and limbs hairs may appear broken 	<ul style="list-style-type: none"> dermatophyte cultures of hair plucks microscopy of hair plucks 	<ul style="list-style-type: none"> topical antifungals, such as miconazole, if there are single lesions. However, there rarely are, so systemic antifungals such as itraconazole should be used at 2.5-10 mg/kg p.o. q24 for two weeks post resolution of clinical signs in-contact animals should be treated causes of immunosuppression investigated thoroughly clean environment
Nasal dermatitis	<ul style="list-style-type: none"> seen mostly in grouped and stressed animals, or if the humidity >50% (Hoppmann and Barron, 2007) porphyrin secretion and subsequent <i>Staphylococcus</i> and <i>Streptococcus</i> infections are possible causes (Hoppmann and Barron, 2007) 	<ul style="list-style-type: none"> erythematous and crusting lesions around the nares and upper labial region can progress to severe moist dermatitis, ulceration and sinusitis 	<ul style="list-style-type: none"> culture and sensitivity husbandry, clinical signs and history 	<ul style="list-style-type: none"> husbandry review/remove sources of stress clean with antiseptic solution topical and systemic antibiotics based on culture and sensitivity results Elizabethan collar to stop the scratching
Diarrhoea	<ul style="list-style-type: none"> multiple causes from environmental stressors, to dietary issues (too many vegetables) to bacterial infections such as <i>Clostridium piliforme</i> (Tyzzer's disease) 	<ul style="list-style-type: none"> loose, discoloured faeces dehydration collapse 	<ul style="list-style-type: none"> faecal cultures clinical signs and history 	<ul style="list-style-type: none"> environmental disinfection improve diet, rehydrate antibiotics based on cultures probiotics quarantine sick individuals some causes can be zoonotic
Respiratory disease (Figure 1)	<ul style="list-style-type: none"> large number of possible causes – viral, bacterial, mycoplasmal, fungal and allergic disease (Kling, 2011) 	<ul style="list-style-type: none"> increased respiratory rate, effort and/or noise nasal discharge can progress to ear disease and subsequent circling 	<ul style="list-style-type: none"> clinical signs imaging nasal flushing, culture and sensitivity, PCR testing 	<ul style="list-style-type: none"> broad spectrum antibiotics, ideally based on culture results F10 nebulisation anti-inflammatories husbandry review
Tail slip/ autoamputation	<ul style="list-style-type: none"> caused by incorrect handling – the skin can tear resulting in a degloving injury. This causes necrosis of underlying tissues and eventual loss of the tail 	<ul style="list-style-type: none"> traumatic lesions to the tail 	<ul style="list-style-type: none"> clinical signs and history 	<ul style="list-style-type: none"> amputation analgesia antibiosis

Table 1. Common infectious conditions seen in gerbils – a short description, the clinical signs observed, diagnosis and treatment >>