Practicals

Introduction to the handling and examining the pig

Biosecurity - Veterinary Dress Code

It is absolutely essential that a veterinarian does not transmit pathogens from one farm to another. The easiest method that a veterinarian may transmit pathogens is through poor hygiene.

Primary philosophy of veterinary medicine – First do no harm

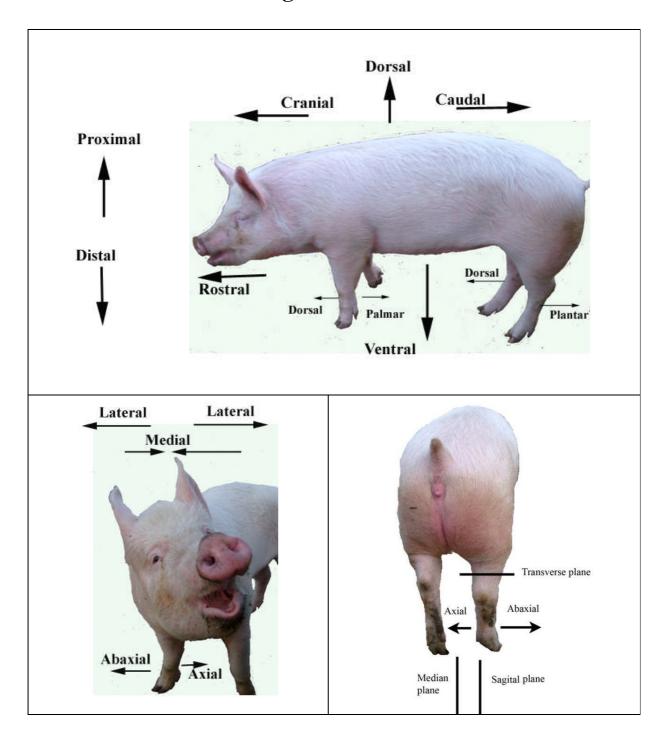
Foot wear Clean boots are essential All faecal material (arrow) must be removed -And heel and sides The foot wear must be easily cleaned and waterproof. Animals can are very inquisitive and will lick any Lace and Swede shoes are totally unsuitable material from your boots - and thus get sick **Protective clothing** Always wear protective clothing on farms Protective clothing must cover all your daily Exposed clothing cap (arrow 1) and street street clothing is unsuitable clothes. Disposable protective clothing area clothes (2) which cannot go to the next ideal farm Showering may be required by some high Ensure all exposed flesh - hands, arms, face Ideally wear protective clothing provided by the

health farms combined with a period of

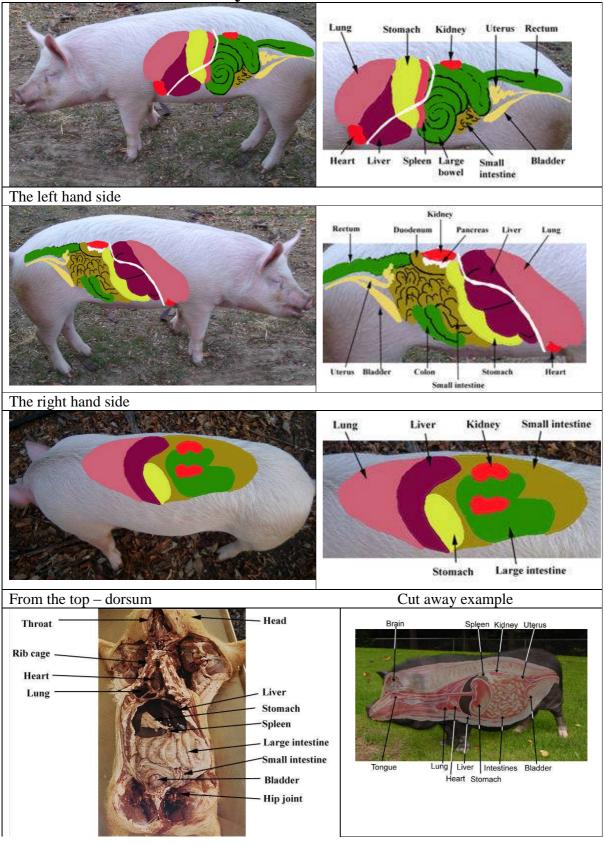
animal absence

are clean and not splattered with faeces or

Pig Orientation



Anatomy – the basic landmarks



HANDLING AND MOVING PIGS

Most pigs are not used to being handled. They become very vocal when caught and will not settle easily. Pigs will work as a herd or as individuals, before moving a group of pigs think of escape routes you would take and then try to block them.

Handling

Young pigs may be picked up and will generally settle



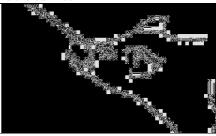




Older pigs examine within a crate or restrain using a loop around the upper jaw behind the canines

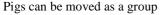






Moving







Design passageway to prevent escapes. Walls 850 mm high



Young pigs may be easier to move in a barrow

Pigs have a wide angle 310 degree vision which allows them to see behind themselves without turning their heads. They are easily distracted by objects to the front and sides and sharp changes in floor texture and appearance. A shaft of sunlight is sufficient to affect pig movement.



When moving growers pigs use a pig boards, hands and your voice. Avoid electric prods



There is never any need to use violence - the pig will object



Pigs move much easier in a quiet controlled environment



Pigs can be trained to a harness. This is how they are used to hunt truffles.

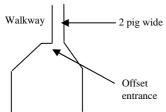


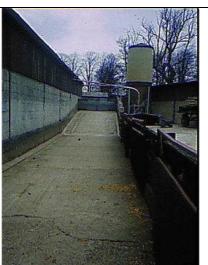
Boars can be trained to walk to heel and follow a route

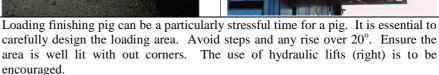


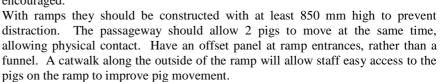
Take special care with boars or lactating sows. Pigs are armed with razor blades











Identification of Pigs

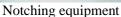
Formal identification of pigs or pens is essential for record analysis

Ear notching

The pig's ears are notched in the farrowing house

The right ear signifies the mother's number the left ear the piglet's number within the litter One of the small notches removed could be kept for future DNA analysis









Ear tattoo

Again applied in the farrowing house. Tattoos can be very difficult to read in older life





Slap maker – prior to slaughter

This is to be read after the animals are dead and de-haired





Ear tag

These can be applied at any age. Two tags are more likely to allow identification to be retained. The tags may be electronic to allow computer identification. The ear tag can be notched to help identification outdoors. Pigs over 60 kg which are treated with njectable antibiotics should be individually tagged





Spray marking

Useful for temporary identification of medicated or selected pigs. However, note that many sprays do not last for the entire length of medicine withdrawal times. Pigs in some parts of the world are spray marked before loading when intended for slaughter. Computerized sorting can mark pigs





Hair Clipping

Can be useful as a temporary marking method. Using a pair of curved scissors trim a line of hair. The hair will regrow in 6 weeks



Clinical Examination Skills Clinical examination of an individual pig

Follow a set procedure to examine the animal



Assess the pig's normal behaviour, its locomotion and its response to its owners. Enquire about eating, urination and defecating patterns.



Remember that the pig may live in a group (sounder) at home and other pigs may be presenting with the same clinical signs



Enquire about the recent history of the pig

Examination of an cooperative pig



Make contact both vocally and physically. Assess the body condition. Check breathing rate



Take the rectal temperature. Normal 39°C. Examine the external genitalia.



Palpate the lumbar muscles, hind legs, abdomen and mammary area.



Some pigs may allow auscultation – but this is generally unrewarding



Pigs like to be scratched particularly behind the ear and along the back. Check the head of the pig for any discharges from the nose, eyes, mouth



When handling the head watch that the pig does not try and bite







Grasp the pig's front legs firmly. The pig is likely to vocally object.

Place the pig on its rear, holding its back with your knees







Palpation of the limbs should start at the top and work down the limb to the feet

Collect any samples are required. A blood sample can be obtained in this sitting position from the jugular vein

Uncooperative pig

In an uncooperative pig, from the sitting position restrain the pig on its back where it will generally stop struggling. A full clinical examination can now be completed starting from the rear of the pig to the front of the pig



Walk backwards and lower the pig between your legs. Support its back with your feet and lower leg.



Keep a hold on the back legs and take the pig's rectal temperature



Examine the anus for any discharge. Take samples if necessary



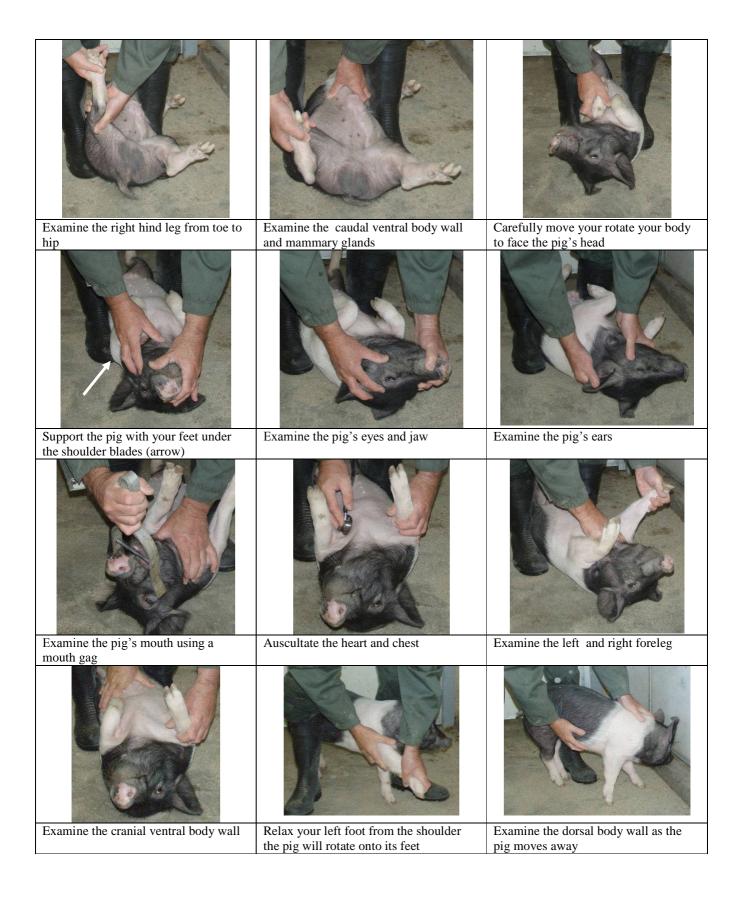
Examine the external genitalia



Examine the superficial lymph nodes



Examine the left hind leg from toe to hip

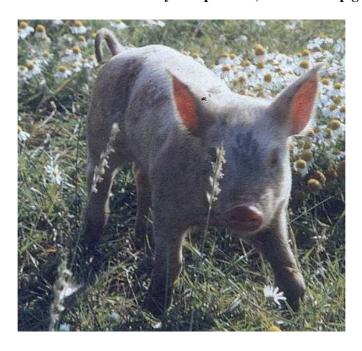


Stockperson's clinical signs of an unwell pig Know what is normal about your pigs – if you don't know what is normal how can you recognize abnormal?

Before entering the pen						
Look	Pig not eating	Pigs generally love food and a change in their eating patterns				
		should always be a cause of further investigation				
	Change in	Depending on the group size pigs individual behaviours may be				
	behaviour	known or the group has its own behaviour patterns Ideally the stockperson will know all the pigs personally, however, even in a large group; individual pigs tend to stand out, whereas the mass, sadly are unknown. The pigs that do standout are the extremes – the top social order pigs, the lower social pigs				
	00100 / 10 001					
		and perhaps a few others who have unusual body markings – wolf				
		pig, leopard spotted etc.				
	Group behaviours					
	Lying patterns	Try to observe the known pigs and note their lying patterns and position				
	Lying patterns	within the group. A sow standing at 2.00 in the afternoon, while all her				
		companions are asleep may be in heat. She is exhibiting an unusual				
		behaviour				
	Individual being	Look for pigs who are separate from the group				
	different	Note groups of pigs gathered around a drinker or a feeder				
Listen	Note noises	On entry to the room notice the sounds of greeting made by the pigs.				
	coughing or	Pigs with Swine Influenza are often very quiet and reluctant to get up as				
	sneezing	you enter. Well managed pigs should be pleased to see you.				
		As the pigs move around, note any coughing or sneezing				
Smell		Become familiar with the normal body odours of pigs. Swine Dysentery				
		and Swine Fever may cause malodorous smells.				
Enter t	Enter the pen and walk the pigs					
Look		Look for the individuals, give them memorable names.				
	Movement	Ensure all the pigs get up.				
		Note pigs can be stiff or rising, but within 5 to 10 strides the stiffness				
		should walk off				
	***	Walk over to any pigs who fail to rise or walk off any stiffness				
	Urination	When pigs rise, particularly in the morning they will urinate within 5				
		minutes. Note the colour of the urine and the posture of the pig urinating.				
	Blood	Look for any blood on the floor or walls.				
	Floor	Look at the floor for the consistency of the stools.				
Listen	11001	As the pigs move around note any coughing or sneezing				
		Smell the air – if a pig has died the first indication may be a smell				
Smell	Sinch the an – if a pig has then this indication may be a shield					

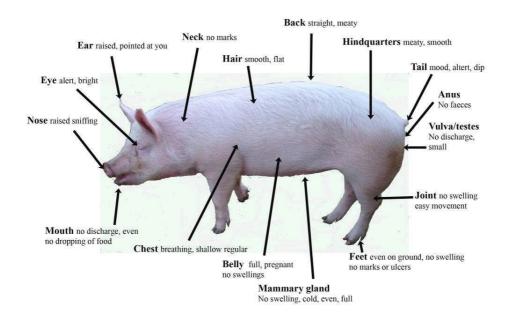
Individual pig behaviour							
This includes any pig placed in a compromised/hospital pen.							
Pigs hou	Pigs housed in small numbers should all be given names. This should include artificial insemination						
centres a	centres and adults on farms of less than 50 sows.						
Know	Behaviour	Know the pig's normal behaviour and note any sudden or progressive					
		change in behaviour					
	Feed	Know what food the pig likes and dislikes.					
	Reproduction	Know what stage of reproduction the pig is at and note if the expected					
		oestrus behaviour patterns fails to materialise					
		Note changes in males (even when castrated) can occur in the presence					
		of receptive females					
Look		Loss of appetite – pigs should beg for food					
		Changes in behaviour – aggressive/less aggressive					
		Changes in head/ear posture					
		Changes in eye's brightness					
		Change in skin colour or hair position					
		Locomotor changes – reluctance to get up, do normal tricks					
		Dirty anal/tail area – diarrhoea. Changes in the stools.					
		Signs of vomit					
Listen		Coughing, sneezing, wheezing and breathing depth					
Feel		Presence of a lump – may be felt rather than seen					

Once you have identified that there may be a problem, examine the pig in more detail

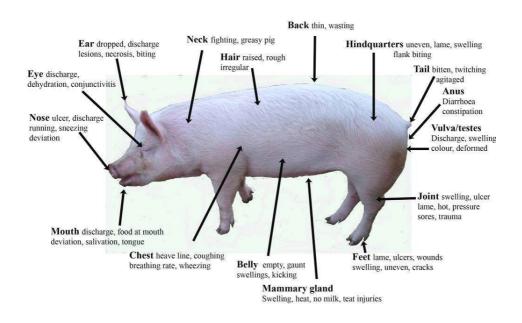


Stockpeople basics Normal and Abnormal Clinical Signs

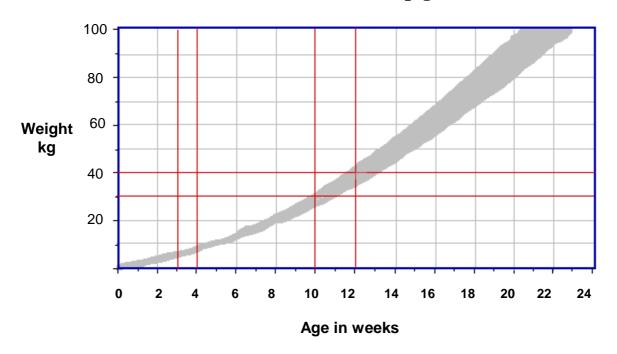
Normal expected signs



Signs which should raise concern

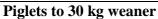


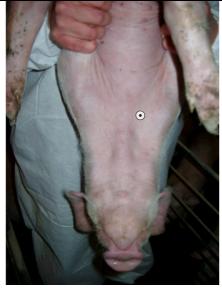
Growth rate of normal pigs



Age of the pig		Daily Liveweight Gain	Weight
Weeks	Days	g/day	(kg)
4	28	215	7.0
6	42	395	12.5
8	56	630	21.3
10	70	660	30.5
12	84	715	40.5
14	98	800	51.5
16	112	965	65.0
18	126	1000	80.0
20	140	1100	95.0
22	154	1100	110.0

Blood Collection in Pigs

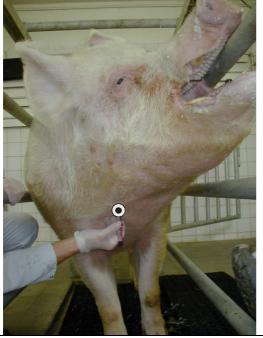






Avoid the left hand side as it is possible to damage the left recurrent laryngeal nerve

Adult



the needle tip is bouncing off the jugular.



