

Basic Medical for Beginners



Basic Medical for Beginners

Weights and measures

How to read a syringe

Vet speak

Dosages



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Weight

- Weigh patients to determine
 - If underweight
 - How much to feed
 - How much medication to give



Weight

- We use the metric system. Why?
- What is a metric unit of measure?
- How much is it?
- What unit of measure is used for large animals (instead of pounds)?



Weight

- 1000 milligrams (mg) = 1 gram
- 1000 grams (g) = 1 Kilogram (Kg)

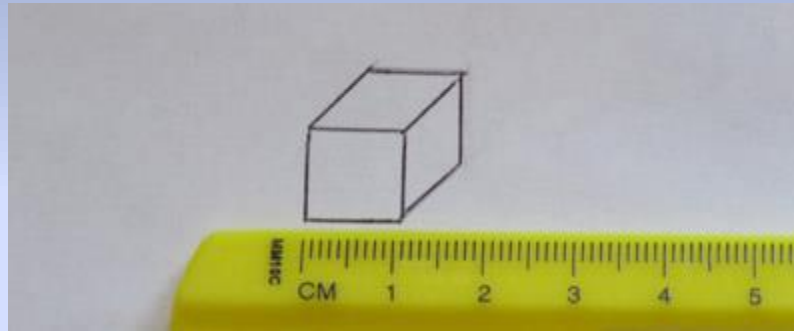


454 grams (g) = 1 pound (lb)
2.2 pounds (lb) = 1 Kilogram (Kg)



Volume

- Medication is administered by volume

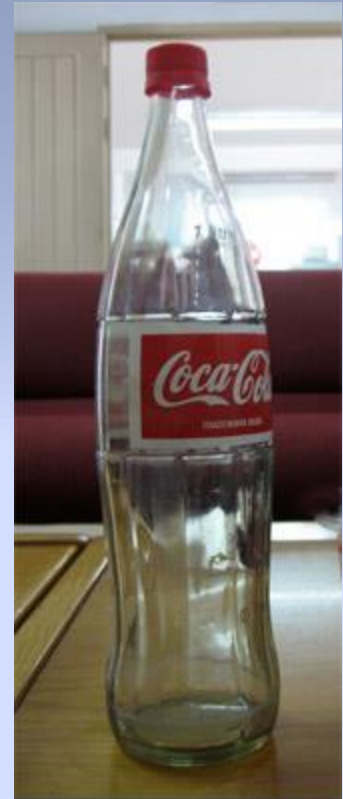


1 cubic centimeter (cc)



Volume

- 1000 milliliter (ml) = 1 liter
- 1 milliliter (ml) = 1 cubic centimeter (cc)



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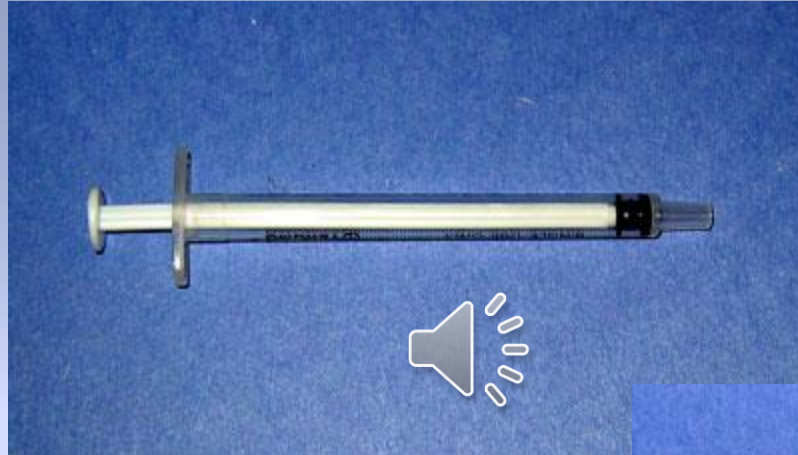
How to read a syringe

Vet speak

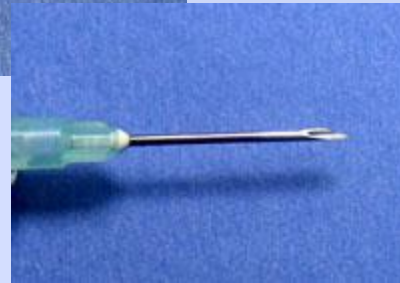
Dosages



How to Read a Syringe



- 1cc syringe



Needle



How to Read a Syringe

- Is 1cc a weight or volume measure?



How to Read a Syringe



How much is actually in a 1cc syringe?



How to Read a Syringe



3 cc syringe



How to Read a Syringe



How much is 3 cc of fluid?



How to Read a Syringe



5cc syringe



How to Read a Syringe



0.1 cc



How to Read a Syringe

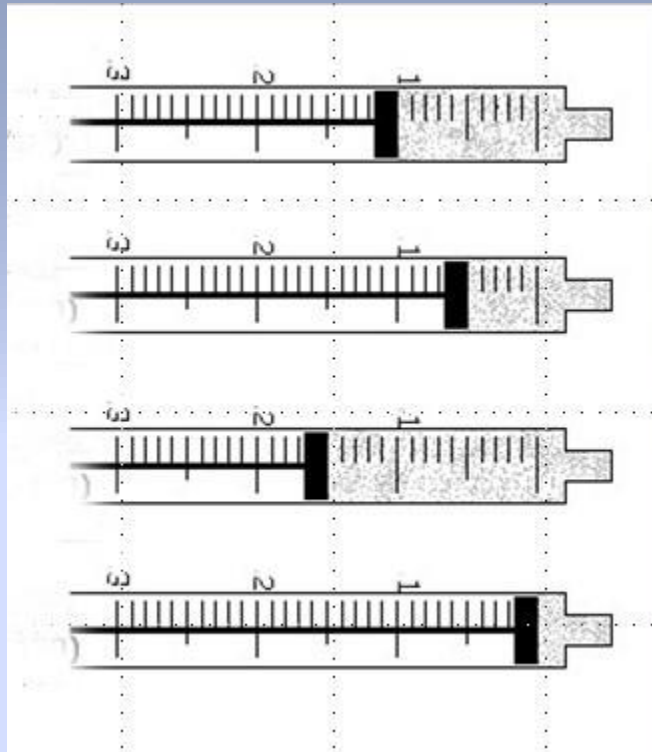


0.1 cc

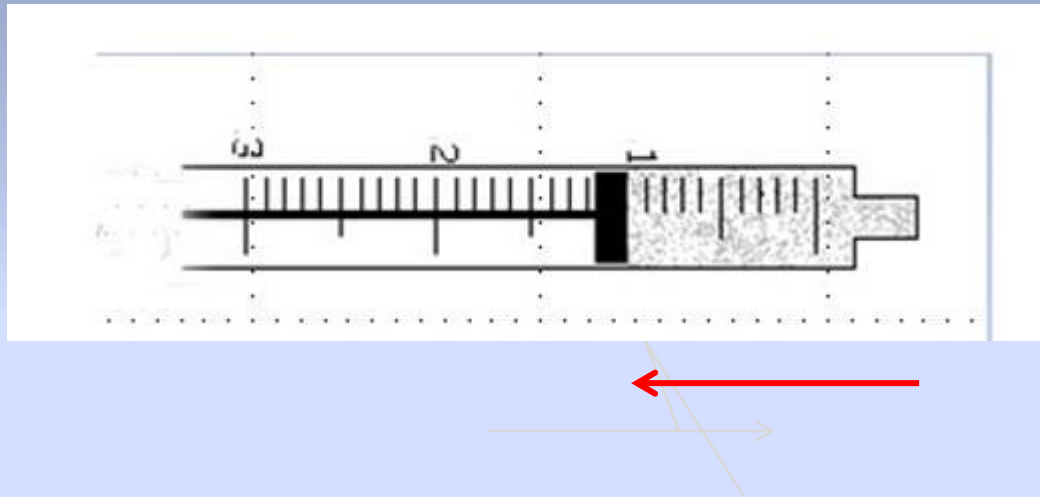
Which is more .10 cc or .1 cc or 0.1 cc?



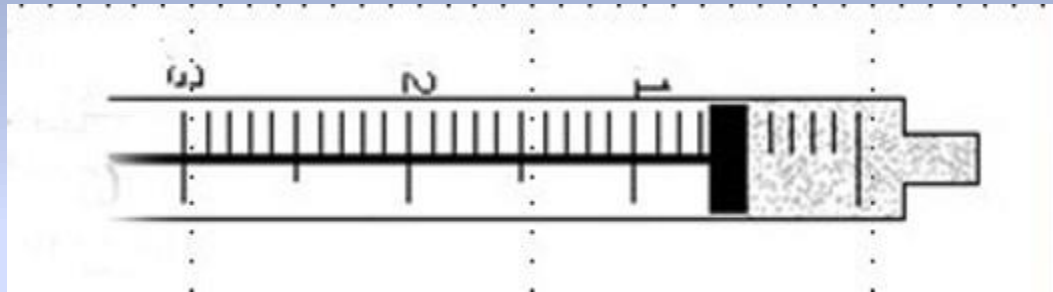
How to Read a Syringe



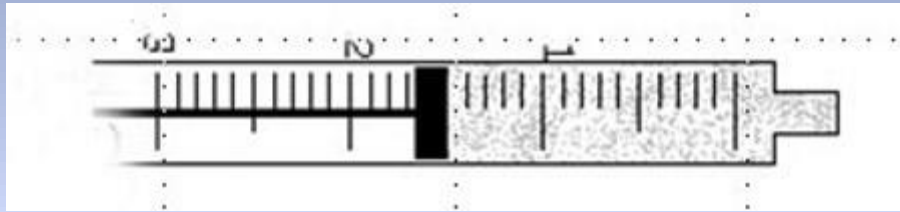
How to Read a Syringe



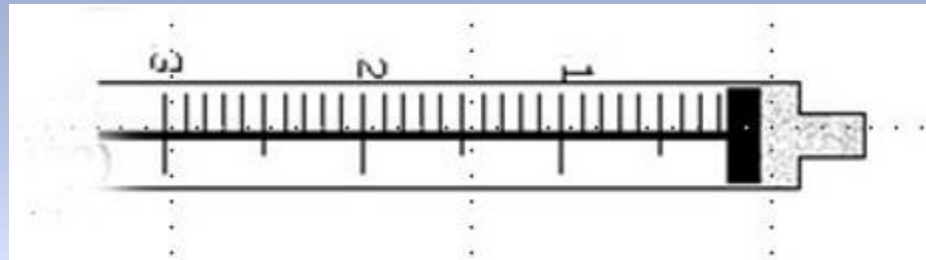
How to Read a Syringe



How to Read a Syringe



How to Read a Syringe



How to Read a Syringe

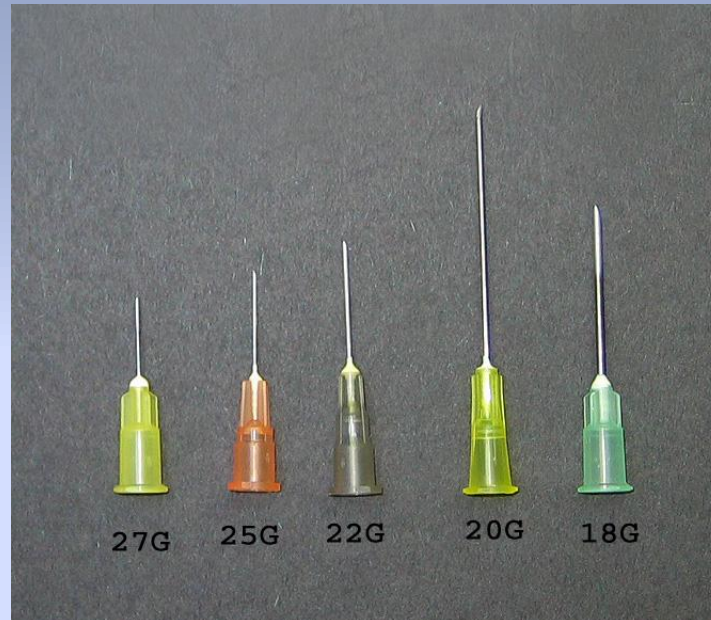


Luer lock

Slip lock



How to Read a Syringe



Needle gauge



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- **Rehabber:** I'm here to pick up the injured adult possum you called about. How is he?
- **Vet:** Well, he's badly injured. We had some problems with hypothermia when he came in but we got that under control.
- **Rehabber:** Uhhh....good?



- **Vet:** He has a nondisplaced hairline fracture of the lower jaw but the uninjured side is stabilizing it so feeding soft foods for a few weeks should take care of that.
- **Rehabber:** Soft foods, OK.



- **Vet:** The biggest problem is a compound fracture of the distal humerus. There were some contusions over the proximal area. We repaired it surgically and sutured the wound, but there's always the danger of sepsis.
- **Rehabber:** Sepsis?



- **Vet:** Yes. I'm sending home an antibiotic. The dosage is 15 mg per kilogram. The possum weighs 1 kg. I've drawn it up for you. Here are six syringes. Each one has 15 mg in 0.2 ml. Give it IM once a day times six.

Rehabber : IM?



- **Vet:** Yes IM, not subq. Although if he becomes dehydrated you can give some saline subq. Try to give lots of PO fluids, though, to prevent it.
- **Rehabber:** What about the wound?



- **Vet:** Dress it b.i.d. and apply Neosporin to the sutures so they don't stick to the dressing. You will need to palpate around the suture line to check for swelling or drainage. There was a pretty large hematoma in there. The radiograph showed a tiny chip fracture on the dorsal side of a vertebrae on the distal portion of the tail, but the ventral side is undamaged. That area shouldn't require any treatment.
- **Rehabber:** Thank goodness!



- **Vet:** bring him back in a week so I can do a recheck OK?
- **Rehabber:** Right. (takes the box and shuffles off mumbling) Oh man.... I've REALLY got to take a class!



- Rehabber: I'm here to pick up the injured adult possum you called about. How is he?
- Vet: Well, he's badly injured. We had some problems with hypothermia (**too cold**) when he came in but we got that under control.
- Vet: He has a nondisplaced hairline (**cracked but still aligned**) fracture (**break**) of the lower jaw but the uninjured side is stabilizing (**holding it in place**) it so feeding soft foods for a few weeks should take care of that.



- Vet: The biggest problem is a compound fracture (bone sticking through skin) of the distal (far/distant portion of) humerus (bone of upper arm). There were some contusions (bruises) over the proximal (near) area. We repaired it surgically and sutured (stitched) the wound, but there's always the danger of sepsis (severe reaction to infection).



- Vet: Yes. I'm sending home an antibiotic. The dosage (amount given at one time) is 15 mg (milligrams) per kilogram. The possum weighs 1 kg (kilogram). I've drawn it up for you. Here are six syringes. Each one has 15 mg in 0.2 ml (milliliter). Give it IM (intramuscular) once a day times six.



- Vet: Yes IM, not subq (**subcutaneous, under the skin**). Although if he becomes dehydrated you can give some saline subq. Try to give lots of PO (**orally, by mouth**) fluids, though, to prevent it.



- Vet: Dress it b.i.d. (**every 12 hours**) and apply Neosporin to the sutures so they don't stick to the dressing. You will need to palpate (**examine by touch**) around the suture line to check for swelling or drainage. There was a pretty large hematoma (**collection of blood**) in there.
- The radiograph (**x-ray**) showed a tiny chip fracture on the dorsal (**top/back**) side of a vertebrae on the distal portion of the tail, but the ventral (**under/belly**) side is undamaged. That area shouldn't require any treatment.



- Vet: bring him back in a week so I can do a recheck OK?
- Rehabber: Right. (takes the box and shuffles off mumbling) Oh man.... I've REALLY got to take a class!



Rehabber: I'm here to pick up the injured adult possum you called about. How is he?

Vet: Well, he's badly injured. We had some problems with hypothermia (**too cold**) when he came in but we got that under control.

Rehabber: Uhhh....good?

Vet: He has a nondisplaced hairline (**cracked but still aligned**) fracture (**break**) of the lower jaw but the uninjured side is stabilizing (**holding it in place**) it so feeding soft foods for a few weeks should take care of that.

Rehabber: Soft foods, OK.

Vet: The biggest problem is a compound (**bone sticking through skin**) fracture of the distal (**far/distant portion of**) humerus (**bone of upper arm**). There were some contusions (**bruises**) over the proximal (**near**) area. We repaired it surgically and sutured (**stitched**) the wound, but there's always the danger of sepsis (**severe reaction to infection**).

Rehabber: Sepsis?

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Rehabber: Thank goodness!

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Dosage

The amount of medicine depends on the weight of the animal



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Dosage

- Amount of medication to administer for each unit of weight of the animal
- Stated in milligrams per kilogram of body weight (mg/kg)

Example: 15 mg/kg



Administration Frequency

- SID – once daily (every 24 hours)
- BID – twice daily (every 12 hours)
- TID – three times daily (every 8 hours)
- QID – four times daily (every 6 hours)



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