

24 behaviours: majority had high odds ratios for lameness (>10x likelihood)

Facial markers

Illustrations by Melissa Cho, courtesy of
The Train With Trust Project

- Ear(s) rotated back behind vertical or flat ≥ 5 s;
repeatedly lay flat



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- Eye lids closed or half closed for 2-5 s



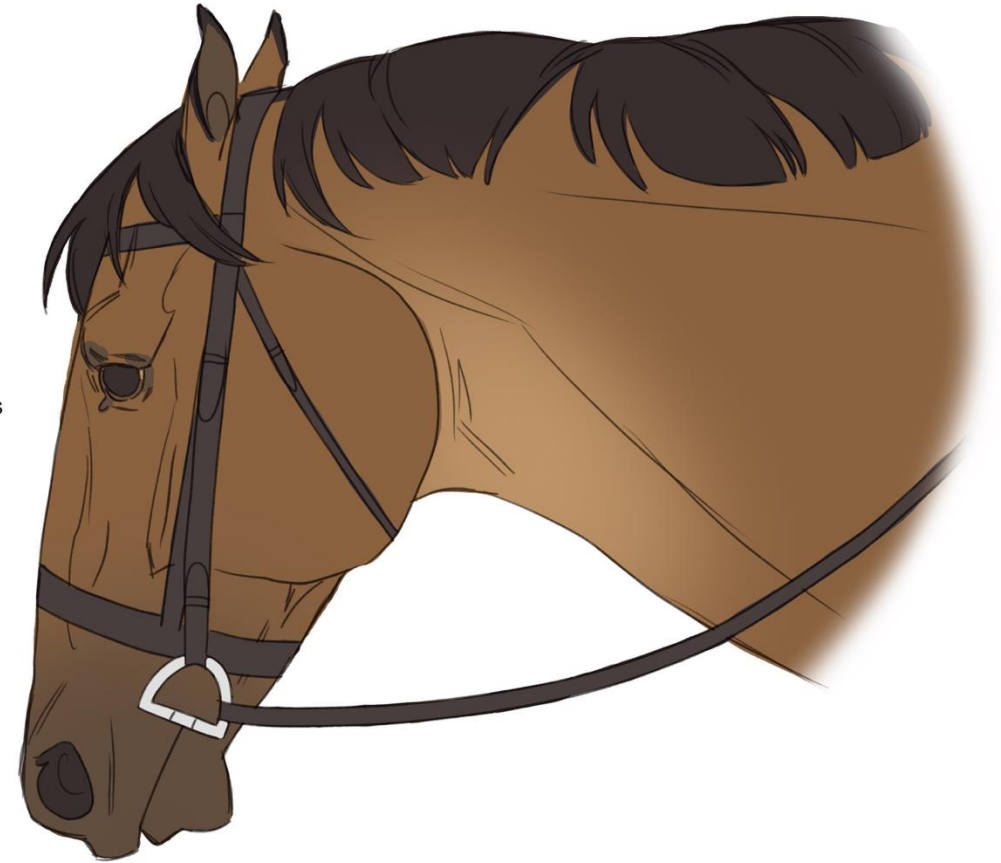
- Sclera exposed



Sclera exposed; head tilt



- Intense stare (glazed expression, 'zoned out') for $\geq 5s$



Intense stare, mouth open with separation of teeth, tip of tongue out

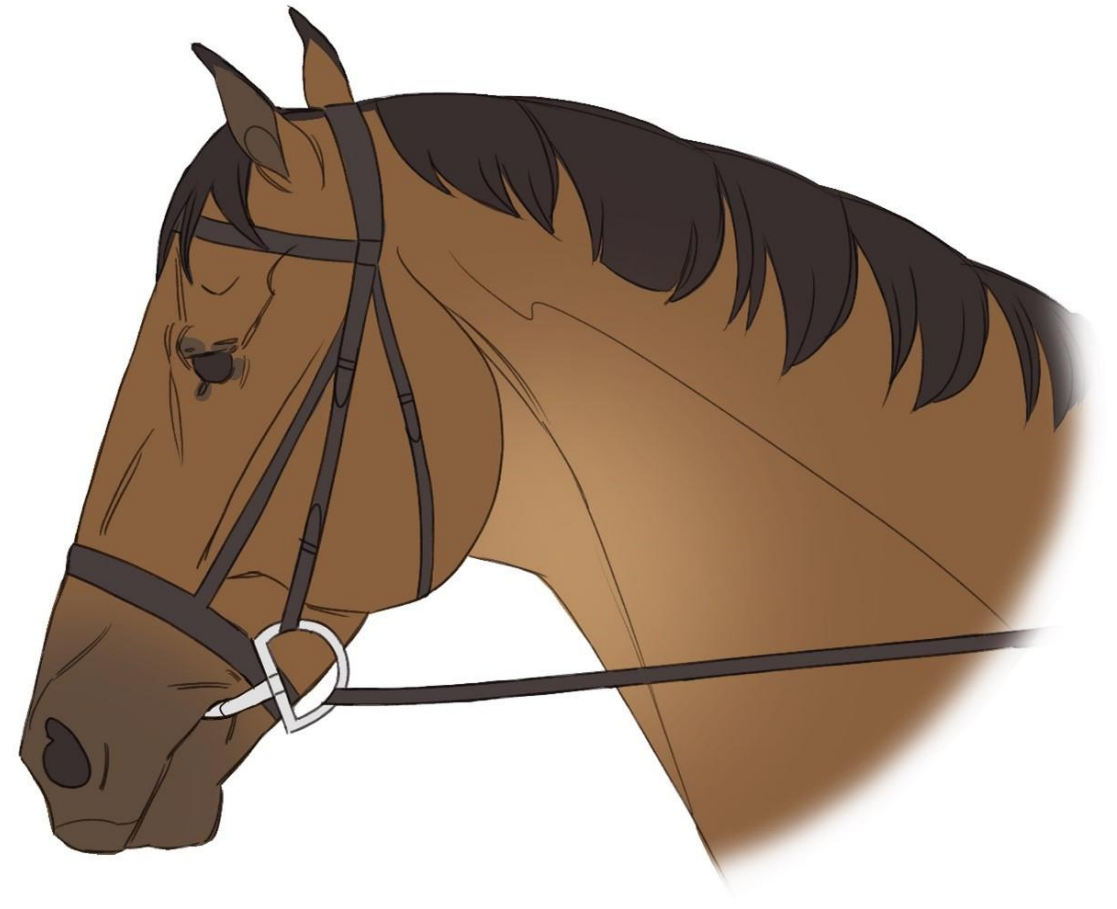
- Mouth opening \pm shutting repeatedly with separation of teeth, for ≥ 10 s



- Tongue exposed, protruding or hanging out, and/or moving in and out



- Bit pulled through the mouth to one side (left or right)



Body markers

- Head tilted repeatedly



- Repeated changes of head position (up/down)



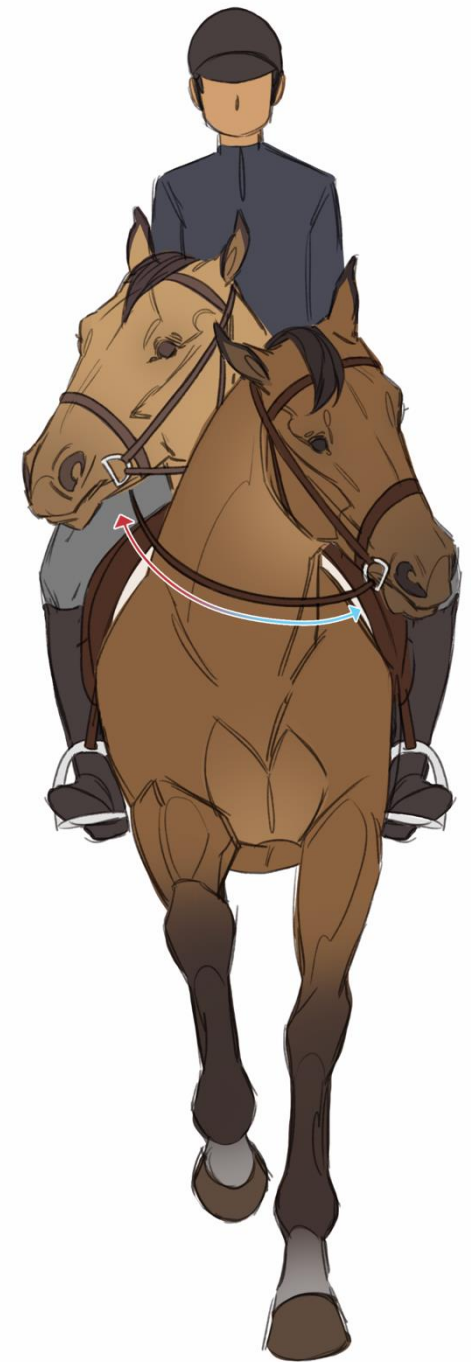
- Head in front of vertical ($>30^\circ$) for ≥ 10 s



- Head behind vertical ($>10^\circ$) for ≥ 10 s

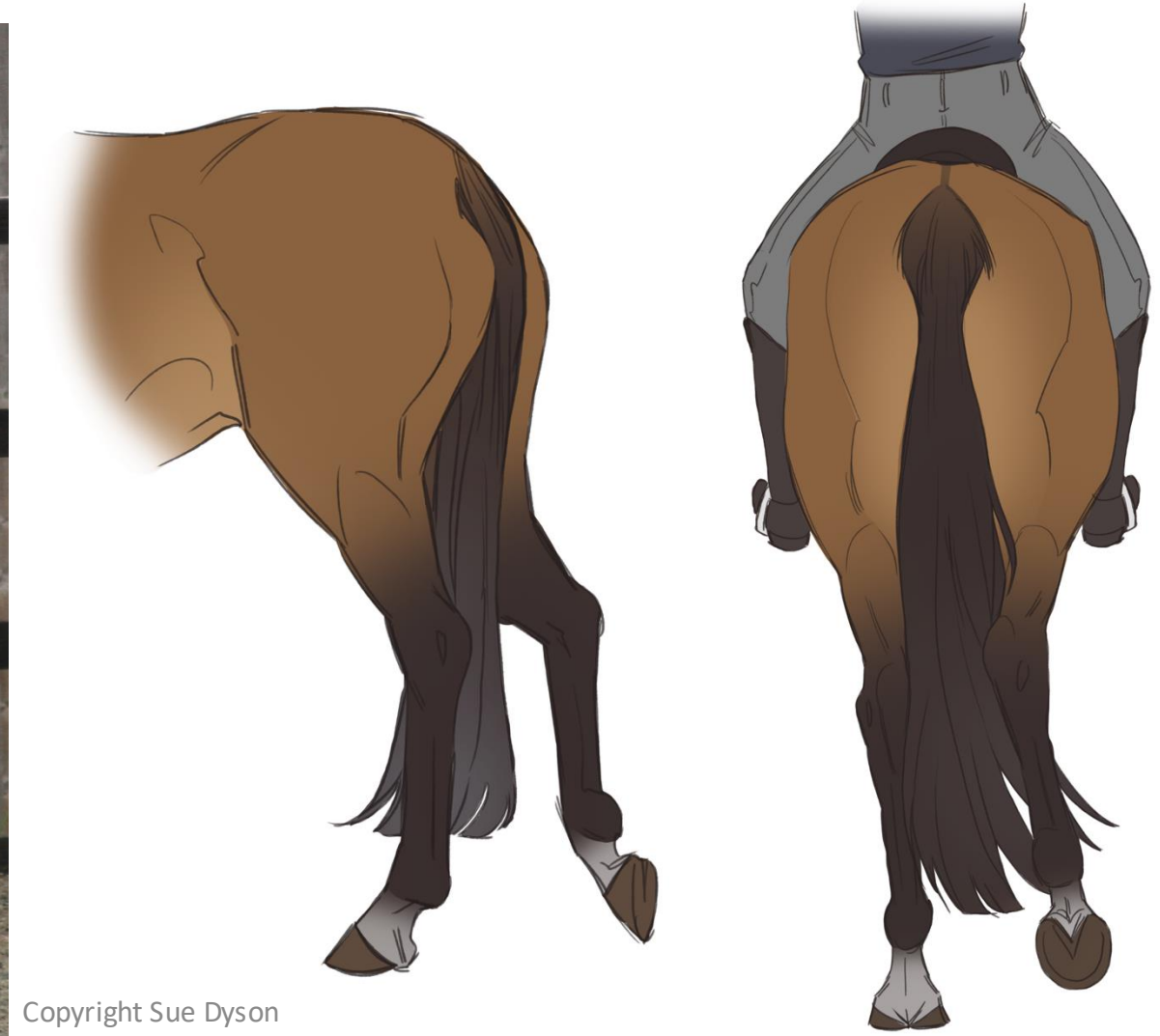


- Head position changes from side to side, repeatedly



- Tail clamped tightly to mid-line or held to one side

Tail clamped to mid-line





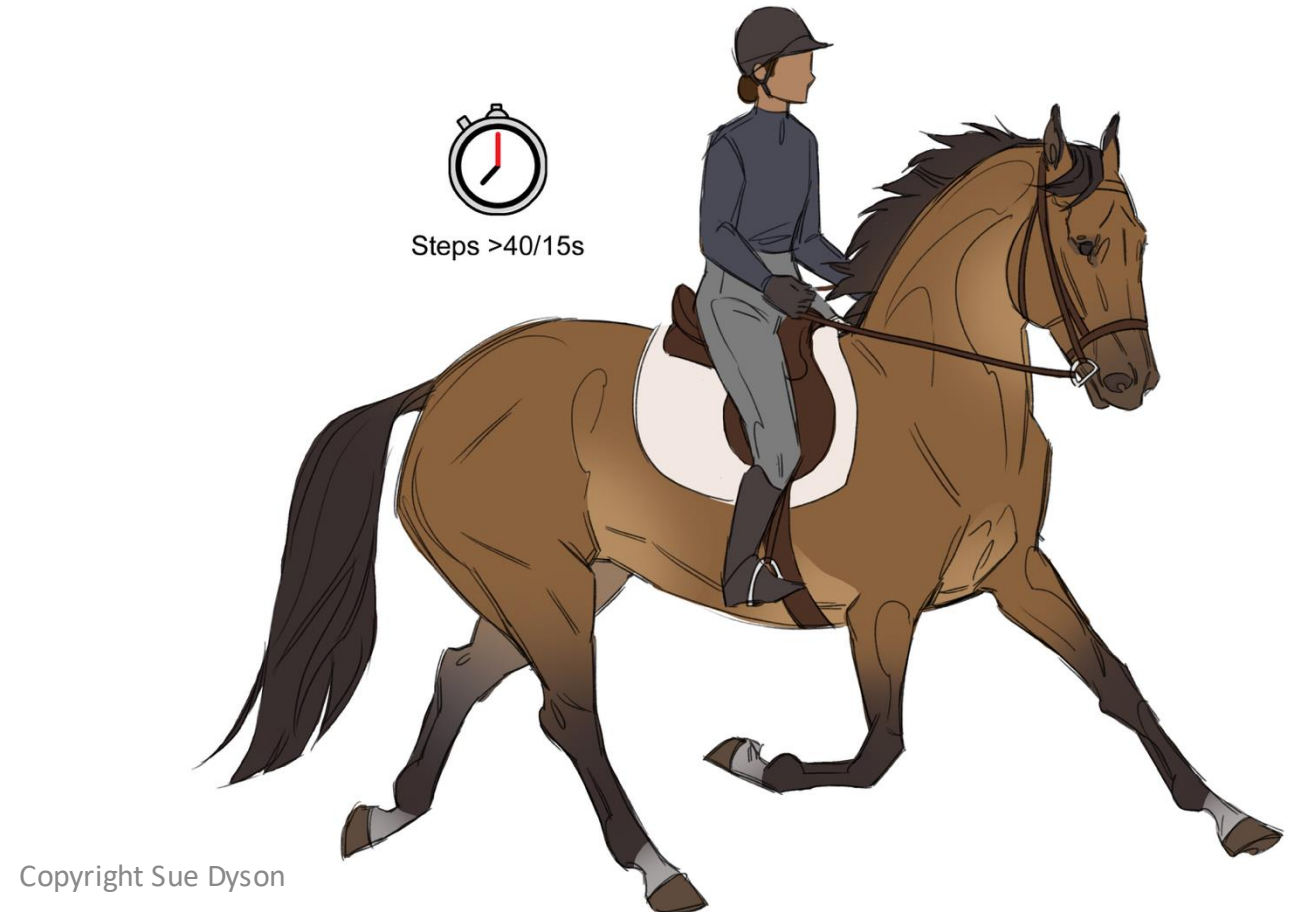
Crooked tail to left

- Tail swishing repeatedly up and down/side to side/ circular; during transitions



Gait markers

- A rushed gait (frequency of trot steps $> 40/15s$); irregular rhythm in trot or canter; repeated changes of speed in trot or canter

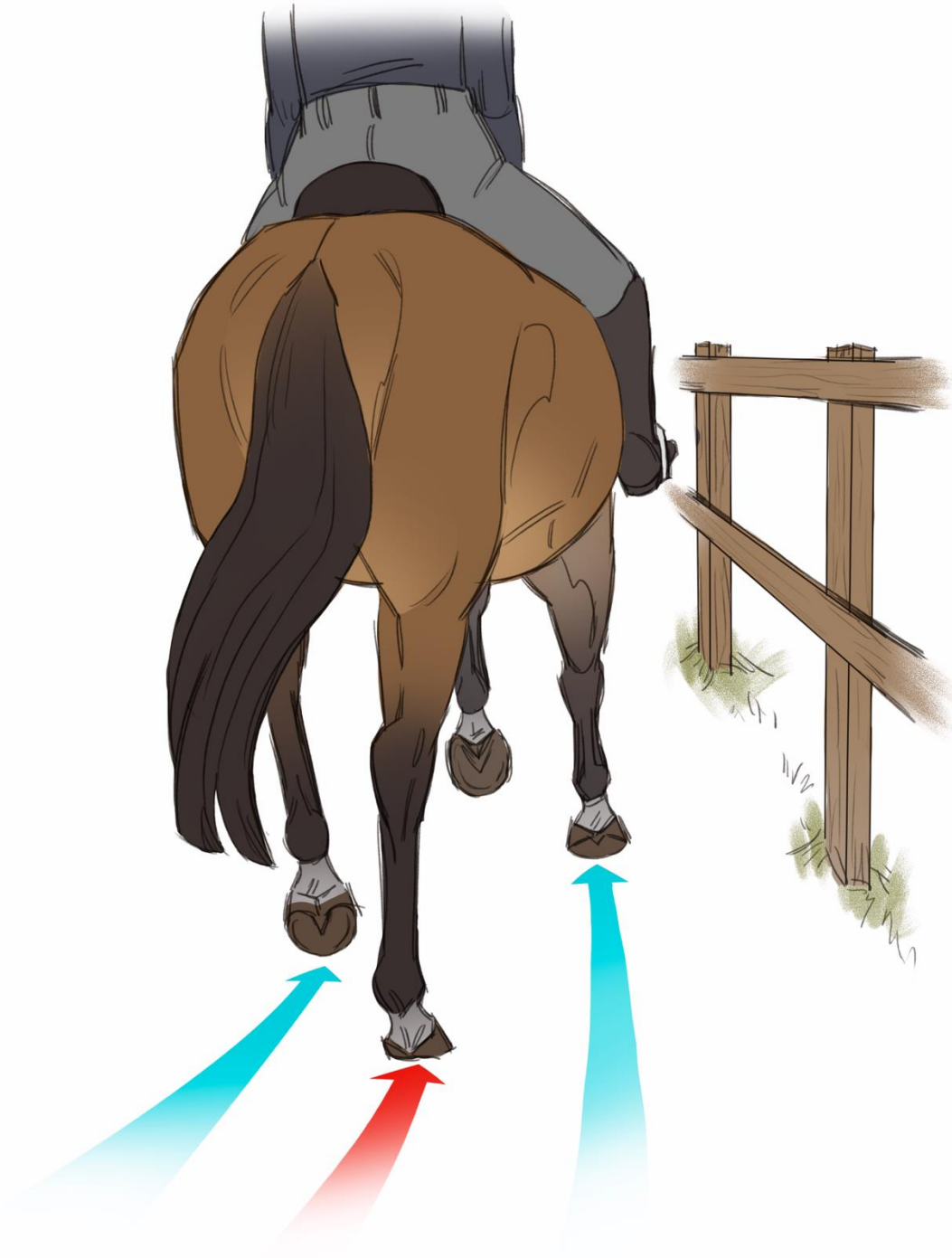


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- Gait too slow (frequency of trot steps $<35/15s$);
passage-like trot



- Hindlimbs do not follow tracks of forelimbs but deviated to left or right; on 3 tracks in trot or canter

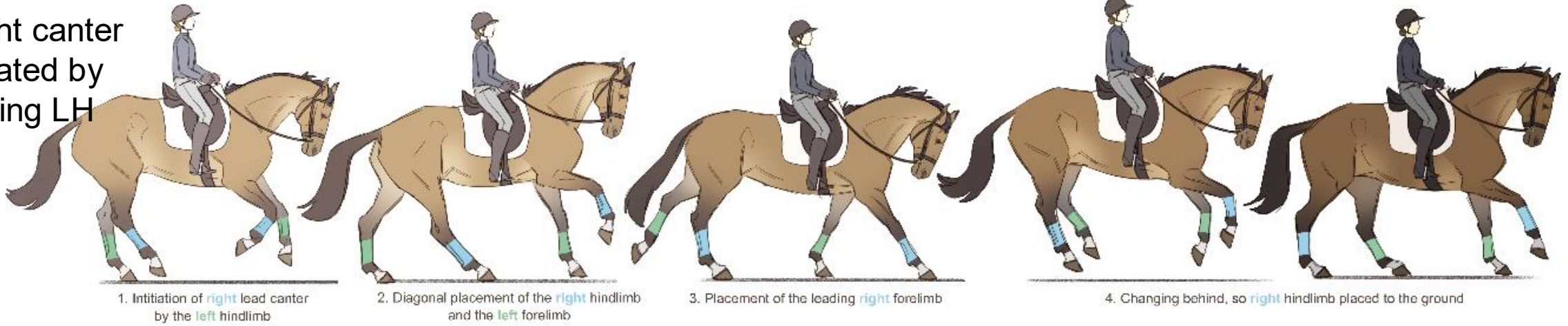


- Canter: repeated strike off wrong leg; change of leg in front and / or behind (disunited)

Incorrect strike off



Right canter
initiated by
trailing LH



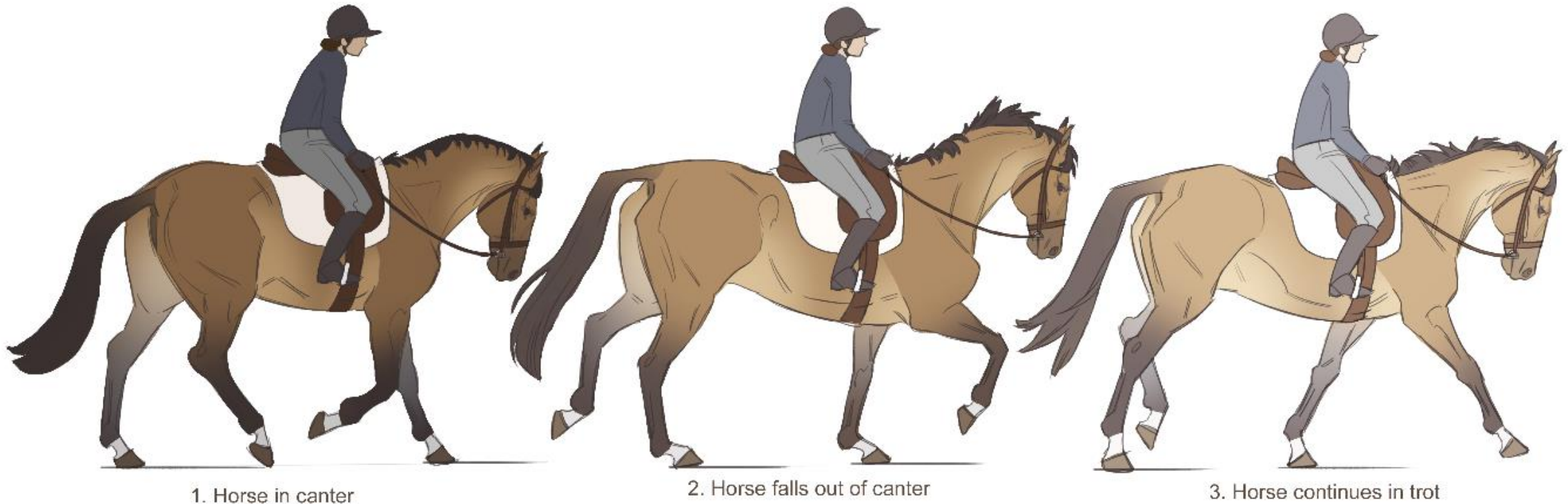
RH has become
the new trailing
HL, but no
change in front



4. Changing behind, so right hindlimb placed to the ground

Becoming
disunited /
cross
cantering

- Spontaneous changes of gait (e.g., breaks from canter to trot or trot to canter)



- Stumbles or trips repeatedly in front or behind; or repeated bilateral hindlimb toe drag



Hindlimb stumble



Forelimb stumble



Bilateral hindlimb toe drag



- Sudden change of direction, against rider's cues; or spooking

Change of direction against rider's cues



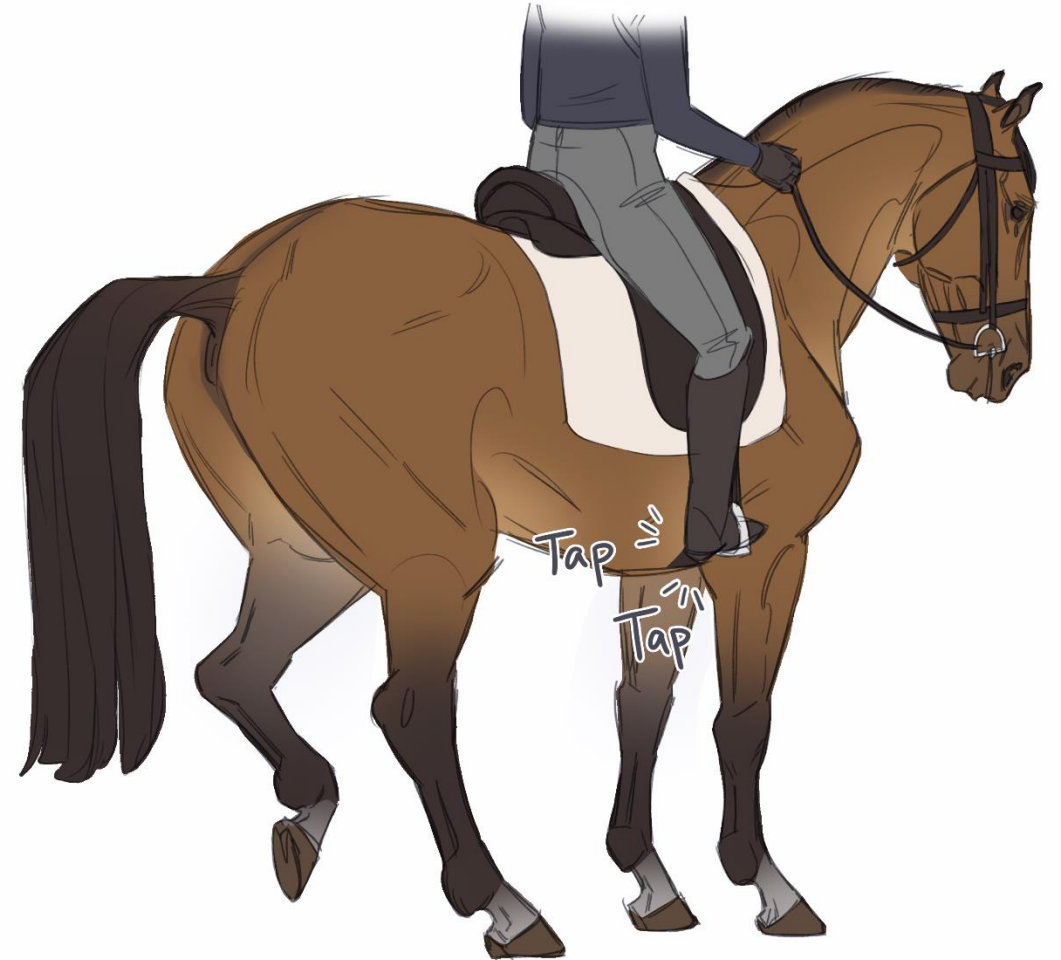
Spooking



- Reluctance to move forward (has to be kicked ± verbal encouragement), stops spontaneously
Strong leg cues, repeated



Stopping spontaneously



- Bucking ± kicking backwards



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- Rearing

