

Supplement 3 – Welfare assessment results

Supplement 3, Table 1 – Welfare assessment [1] results in a cross-sectional study investigating the prevalence and factors associated with equipment-related wounds in Ethiopian working equids. Clustered by equid species.

Welfare Indicator	Horses		Donkeys		Mules		Overall Equids	
General attitude [1]								
<i>Positive</i>	72.5%	177/244	77.9%	95/122	100%	3/3	74.5%	275/369
<i>Non-reactive</i>	0.4%	1/244	4.9%	6/122	0%	0/3	1.9%	7/369
<i>Negative</i>	27.0%	66/244	17.2%	21/122	0%	0/3	23.6%	87/369
Response to spinal contact [1]								
<i>No reaction</i>	3.3%	8/244	4.9%	6/122	66.7%	2/3	4.3%	16/369
<i>Reaction</i>	96.7%	236/244	95.1%	116/122	33.3%	1/3	95.7%	353/369
Body condition score (BCS) [1]								
<i>Mean BCS ±SD</i>	2.00	±0.68	1.89	±0.38	1.67	±0.58	1.96	±0.60
Limb score (forelimbs) [1]								
<i>Mean score ±SD</i>	1.16	±0.45	1.02	±0.24	1.67	±1.15	1.12	±0.41
Limb score (hindlimbs) [1]								
<i>Mean score ±SD</i>	0.15	±0.44	0.07	±0.33	0.67	±1.15	0.13	±0.42
Hoof score (forelimbs) [1]								
<i>Mean score ±SD</i>	1.61	±0.89	1.02	±0.18	1.67	±1.15	1.41	±0.79
Hoof score (hindlimbs) [1]								
<i>Mean score ±SD</i>	1.72	±0.87	1.02	±0.20	1.67	±1.15	1.49	±0.79
Gait assessment [1]								
<i>Not compromised</i>	67.2%	164/244	85.2%	104/122	100%	3/3	72.6%	271/369
<i>Moderately compromised</i>	27.9%	68/244	13.9%	17/122	0%	0/3	23.0%	85/369
<i>Highly compromised</i>	4.9%	12/244	0.8%	1/122	0%	0/3	3.5%	13/369
<i>Unable to bear weight</i>	0%	0/244	0%	0/122	0%	0/3	0%	0/369
Prevalence of Wounds								
<i>Equipment-related wounds</i>	67.6%	165/244	82.0%	100/122	100%	3/3	72.6%	268/369
<i>Any type of wounds</i>	71.3%	174/244	84.4%	103/122	100%	3/3	75.9%	280/369

Supplement 3, Table 2 - Welfare assessment [1] results in a cross-sectional study investigating the prevalence and factors associated with equipment-related wounds in Ethiopian working equids. Clustered by study location.

Welfare Indicator	Bishoftu		Fiche		Shashamene	
General attitude [1]						
<i>Positive</i>	71.3%	87/122	74.0%	91/123	78.2%	97/124
<i>Non-reactive</i>	0.8%	1/122	0%	0/123	4.8%	6/124
<i>Negative</i>	27.9%	34/122	26.0%	32/123	16.9%	21/124
Response to spinal contact [1]						
<i>No reaction</i>	0%	0/122	6.5%	8/123	4.8%	6/124
<i>Reaction</i>	100%	122/122	93.5%	115/123	95.2%	118/124
Body condition score (BCS) [1]						
<i>Mean BCS ±SD</i>	1.99	±0.65	2.02	±0.72	1.88	±0.37
Limb score (forelimbs) [1]						
<i>Mean score ±SD</i>	1.18	±0.53	1.12	±0.35	1.05	±0.31
Limb score (hindlimbs) [1]						
<i>Mean score ±SD</i>	0.16	±0.46	0.15	±0.42	0.08	±0.37
Hoof score (forelimbs) [1]						
<i>Mean score ±SD</i>	1.05	±0.38	2.16	±0.91	1.03	±0.25
Hoof score (hindlimbs) [1]						
<i>Mean score ±SD</i>	1.16	±0.43	2.27	±0.85	1.04	±0.27
Gait assessment [1]						
<i>Not compromised</i>	72.1%	88/122	63.4%	78/123	84.7%	105/124
<i>Moderately compromised</i>	21.3%	26/122	33.3%	41/123	14.5%	18/124
<i>Highly compromised</i>	6.6%	8/122	3.3%	4/123	0.8%	1/124
<i>Unable to bear weight</i>	0%	0/122	0%	0/123	0%	0/124
Prevalence of Wounds						
<i>Harness-related wounds</i>	68.9%	84/122	65.9%	81/123	83.1%	103/124
<i>Any type of wounds</i>	75.4%	92/122	67.5%	83/123	84.7%	105/124

[1] Sommerville R, Brown AF, Upjohn M. A standardised equine-based welfare assessment tool used for six years in low and middle income countries. PLoS One. 2018;13(2):e0192354.

Supplement 3, Table 3 - Number, size and severity of equipment-related wounds in a cross-sectional study investigating the prevalence and factors associated with equipment-related wounds in Ethiopian working equids. Only animals with wounds are included in this description. The median and interquartile range (IQR) are presented.

Wound type	Horses						Donkeys						Overall Equids					
	Number of wounds		Wound Severity		Wound Size		Number of wounds		Wound Severity		Wound Size		Number of wounds		Wound Severity		Wound Size	
	Median	IQR	Median	IQR	Median	IQR	Median	IQR	Median	IQR	Median	IQR	Median	IQR	Median	IQR	Median	IQR
BIT wounds	1	1-2	2	1-2	1	1-1	2	1-2	2	1.3-2	1	1-2	2	1-2	2	1-2	1	1-1.5
BLINKER wounds	1	1-1.5	2	2-2	1	1-1.5	1	1-2	1	1-2	1	1	1	1-2	1.5	1-2	1	1
SADDLE wounds	1	1-2	1	1-2	2	1-2	2	2-2	1	1-2	2	1-3	1.5	1-2	1	1-2	2	1-2
COLLAR wounds	1	1-2	1	1-2	2	1-2	2	2-2	1	1	2	2-3	2	1-2	1	1-2	2	1-2
GIRTH wounds	2	2	2	1-2	2	1-2	2	1-2	1	1-2	2	2	2	1-2	1	1-2	2	1-2
SHAFT wounds	1	1	1.5	1-2	1	1	2	2	1	1-2	2	2	2	2	1	1-2	2	2
LIMB wounds attributable to equipment	2	1-2	2	2	2	1-2	2	1.5-2	1	1	2	2	2	1-2	1	1-2	2	2
TAIL wounds attributable to equipment	1	1	2	2	2	2	1	1	2	2	2	2	1	1	2	2	2	2