





KØBENHAVNS UNIVERSITET Departmen	nt of Large Animal Sciences - Section for Animal Welfare and Disease Control	
Assessment of leg health		
The most commonly used is the Bristol Gait-Scoring system (Kestin et al., 1992).		
GS0: Normal, dextrous, and agile GS1: Slight gait abnormality, but difficult to define GS2: Definite and identifiable abnormality GS3: Obvious abnormality, affects the ability to move GS4: Severe abnormality, only takes a few steps		
	Examples from: Knowles TG, et al. (2008) PLoS ONE 3(2): e1545. doi:10.1371/journal.pone.0001545	
Other methods (less commonly used)		
<ul> <li>Modified scoring systems (e.g. Garner, 2002)</li> <li>Force-plate (e.g. Paxton et al., 2013)</li> </ul>		
Kinematic changes (e.g. Caplen et al., 2013)		

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Activity and leg he	ealth	
Fast-growing broilers are	inactive between 60-90% of their time.	
Several studies have confirmed the link between activity and leg health.		
<sup>↑</sup> Activity will <sup>↑</sup> leg health BUT		
<ul> <li>But how active should they be?</li> <li>When in the growing period should they be active?</li> <li>How can we stimulate activity?</li> <li>Can we control the activity of broiler chickens?</li> </ul>		
Activity can be stimula 1) Increase distance betw 2) Meal feeding ( <i>e.g. Nielsen</i> 3) Dynamic light environm	ted by: veen feeder and drinker (e.g. Reiter and Bessei 2009) et al 2003) ment (Kristensen et al 2006)	

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Many different facto	ors can affect leg healt	h in broiler chickens
Light	T.C.	Genetics
Activity		Parent flock
Nutrition / feed composition		Infections
Feeding regime	Charles 1	Stocking density
(meal feeding vs. ad libitum)		Gender
Growth rate		Litter quality
Weight	Contraction of the second seco	(Litter type, depth, etc)
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Animal Welfare	consequences of leg problems
FAWC's 5 Freedoms	
1. Freedom from Hun	ger and Thirst
2. Freedom from Disc	comfort
3. Freedom from Pair	n, Injury or Disease
4. Freedom to Expres	ss Normal Behaviour
5. Freedom from Fea	r and Distress











