



Whiplash Injury Criteria

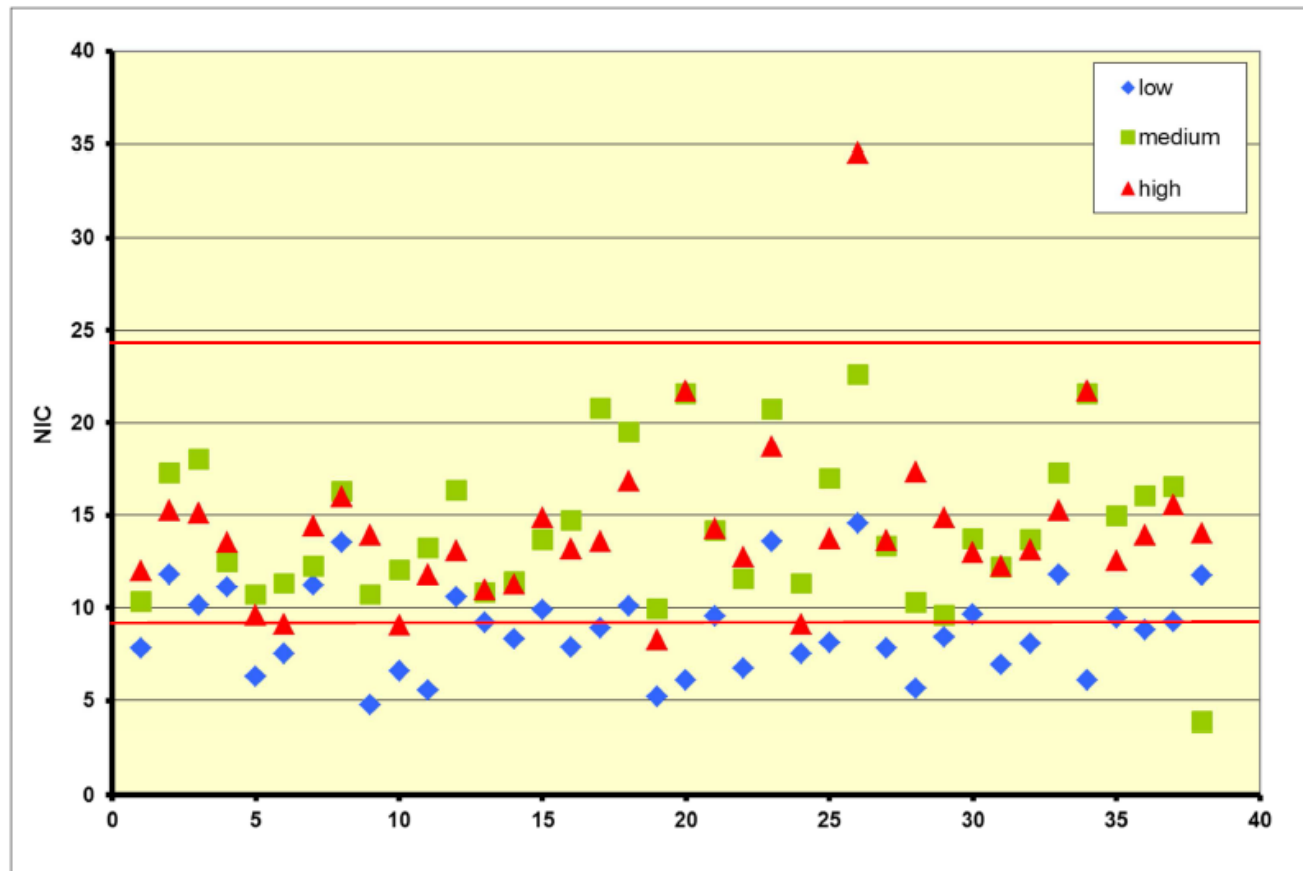
Input to GTR No. 7 meeting – September 8/9, 2014, Berlin, Germany

Riske Meijer, Ton Versmissen





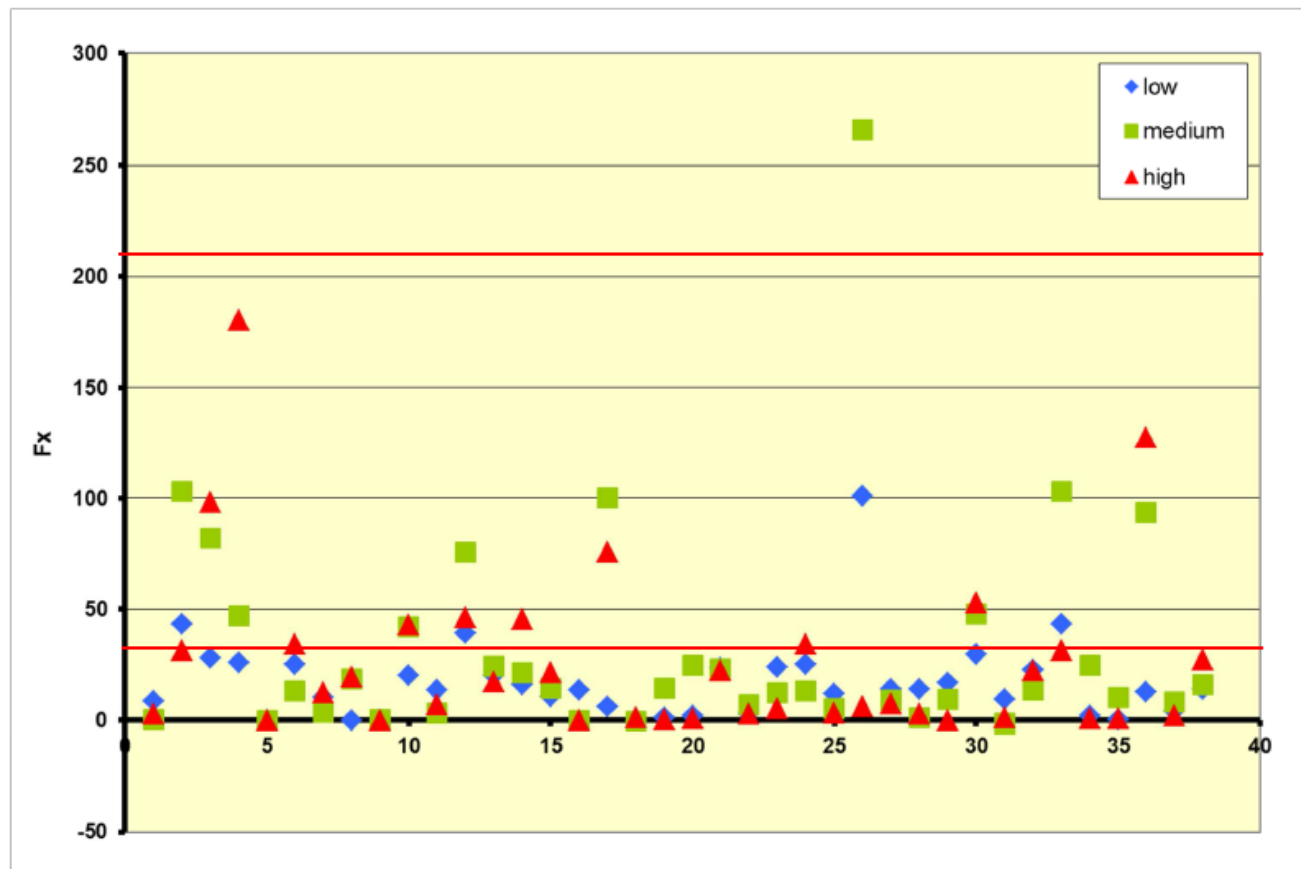
Euro NCAP 2010-2011 rear impact test results NIC for 38 tests with 3 pulses





Euro NCAP 2010-2011 rear impact test results

Upper neck Fx for 38 tests with 3 pulses





Euro NCAP 2010-2011 rear impact test results

Upper neck Fx correlation to NIC

~50% of
all data
points at
 $F_x > 15 \text{ N}$

