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Title: A parametric duration model of the reaction times of drivers distracted by mobile phone conversations

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HIGHLIGHTS

- !! Mobile phone conversations impair reaction times to peripheral traffic events
- !! The reaction times are more than 40% longer in distracted conditions
- !! The impairment of reaction times is almost double for provisional licence holders
- !! Hands-free and handheld phone conversations have similar detrimental effects
- !! The Weibull AFT model with gamma heterogeneity is suitable to model reaction times

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