Asperger's Syndrome:

The implication on driver training methods & road safety

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What is Asperger's?

"After all, the really social people did not invent the first stone spear. It was probably invented by an Aspie who chipped away at rocks while the other people socialized around the campfire. Without autism traits we might still be living in caves"

Temple Grandin.

- Aspergers is prevalent in 62:10,000 in the population (McDermott, et al, 2006)
- Autism is prevalent in 2.6% of the population (Young Shin Kim et al, 2011)
- IQ above 70
- Early speech onset
- Impairment in social interaction
- Failure to develop peer relationships
- Restricted repetitive patterns of behaviour, interests and activities
- Often have other issues i.e depression, anxiety, ADD

Case studies

- James
- Male, 20 yrs
- Aspergers, ADHD
- Medicated
- Not reported
- Passed L test one attempt

- Simon
- Male, 26 yrs
- Aspergers, Anxiety, depression
- Self medicates
- Not reported
- Passed L test one attempt

Case studies

- John
- Male, 20 yrs
- Aspergers, ADHD, depression, suicidal tendencies
- Medicated
- Not reported until RTA test
- Passed L test one attempt
- Passed P1 test 100% first attempt

- Jack
- Male, 18 yrs
- Aspergers, dyspraxia
- Medicated
- Reported to RTA
- Passed L test one attempt
- Passed P1 test first attempt over 95%

Characteristics of Asperger's

- Find social situations hard
- Find it hard making small talk
- Literal thinker, inflexible
- Repetitive routines
- Stress when routine suddenly changes
- Lack of empathy
- Hard to read social cues
- Very narrow topics of interests
- Highly logical thinking, eye for detail
- Normal to above average intelligence

Educational Issues

- Understanding the individual needs of the student with AS
- Structure and routine
- Use of diagrams
- Teaching predicting skills
- Set key words and sequences
- Sensitivities
- Misunderstandings

Issues for Instructors

- Medical conditions generally not declared
- Resulting in poor communication and dangerous situations with students
- Unpredictability of student responses and actions
- Handling emotional outbursts or stress situations
- Dangers of misinterpretation whilst on road
- Teaching transference of knowledge

RMS Testing Procedures (NSW)

- Current learner requirements 120 hours (includes 20 actual night hours)
- ▶ 12 month learner period for 16 24yrs (no time/hour restriction for over 25 yrs)
- If a diagnosed medical condition is recognised in AUSROADS Fitness to Drive a learner <u>must</u> declare on the *Application for licence* form and have their Doctor complete a medical form.

Issues for RMS (RTA)

- Learners and carers not declaring medical conditions or medication use
- Learners use of medication to 'balance' up for test day
- Misunderstanding of instructions given by RMS testing officer
- Taking instructions literally
- Stress point handling reactions
- Effect of medications (or lack of) on driving

Medical Report

Any fee charged for the examination is payable by the licensee and not the RTA. Sections 1 and 2 must be completed in all cases. Please complete all other relevant sections and where appropriate, provide additional information.



History How long have you treated t Years Mo Vision		5 Musculo-Skeletal Condition eg. degenerative or painful joints, arthritis, loss of limbs/digits, orthopaedic defect. Diagnosis Condition likely to affect driving No □ Yes □
VISION STAN Car., Rider and Light Rigid I The criteria for an unconditior - if the person's visual acuit with both eyes together is Heavy Vehicles/Commercia The criteria for an unconditior - if the person's visual acuit better eye; or - if the person's visual acuit either eye. See 'Assessing Fitness to Dri	orivers. nal licence are NOT met y in the better eye or worse than 6/12. I Vehicles. nal licence are NOT met y is worse than 6/9 in the y is wo ive' for 7 Neurolo	6 Epilepsy If No proceed to the next question. If Yes complete the following. Type Date of onset Date of last seizure confirmed by neurologist 24 hour EEG Normal Abnormal Sleep epilepsy gical Condition No Yes
Uncorrected	stance) following. R 6/_ Cognitive Impairmer Dementia	
Poor night vision An ophthalmologist or op this section if you wish.		Brain Injury No Yes Neuromuscular Condition:
NameSignature 3	estion. If Yes complete the	8 Sleep Disorder If No proceed to the next question. If Yes complete the following. Sleep Apnoea
* Angina * Refer to Guidelines - Heave Stress test	No Yes	
Ejection Fraction % Cardiomyopathy CABG Hypertension/Hypotension Recurrent / persistent arrhy	If Yes complete in Non-prescribed	to affect driving No Yes He following. In the following. In the following No Yes Yes He following. In the following No Yes He following Yes He following Yes He following No Yes He following Yes He following No Yes He following Yes He following No Yes He following
Cardiac pacemaker Aneurysm (site) Defibrillator	Comments on any condition likely to affect driving. Append additional pages if necessary.	
If No proceed to the next qualifollowing. Controlled by Compliant with medication Hypoglycaemic awareness	Tablets insulin yes No Yes No	Office Use Only RSO Signature and date (Check that Question 2 has been completed and meets standards.)
(date of last episode) End organ effects	No □ Yes □	Cat No. 45070085 (10/09) Mailling 450711821 RTA ABN: 64 480 155 255

Recommendations

- Further study needed of drivers with AS, the effect of medication and the training methods used.
- Support strategies to be introduced for new and existing drivers with AS or special needs.
- Medical testing and clearance for ALL drivers to screen for undisclosed medical issues that may effect road safety.
- Training for all RMS staff involved in driver testing for special needs clients.