

Best Practice Guidelines for the Safe Restraint of Children Travelling in Motor Vehicles

### ADMINISTRATIVE REPORT





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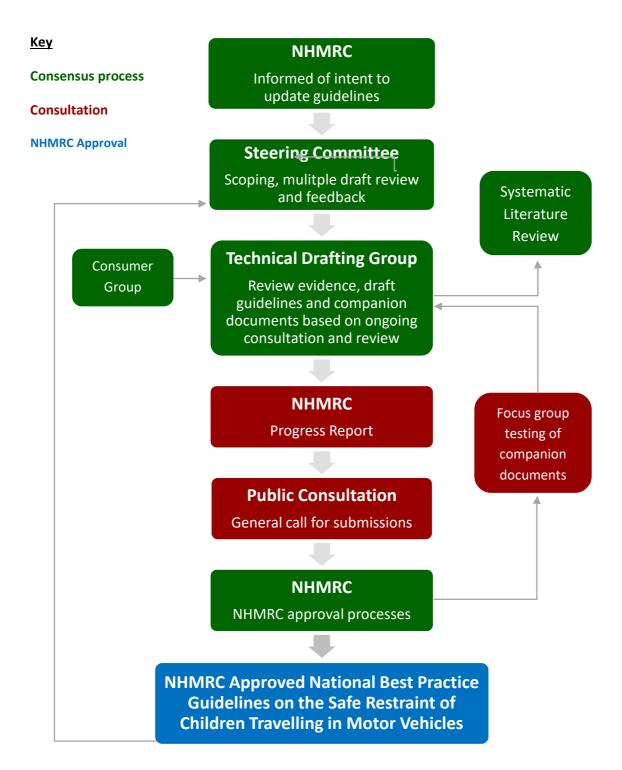
Copies of the guideline and this document can be downloaded from: http://www.neura.edu.au/CRS-guidelines

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### 2 Development process

The development of the Guidelines has followed the key principles and processes outlined in the document NHMRC Standards and Procedures for Externally Developed Guidelines (2011), but conforms to the 2016 NHMRC Standards for Guidelines. The flow chart below details the recommendation, consultation, and dissemination processes of the child restraint guidelines.



### 2.1 Definition of guidelines scope

The *Best practice guidelines for the safe restraint of children travelling in motor vehicles* were initially developed in 2013. The broad scope of the guidelines was set by the convening organisations at the commencement of the process in 2011. Further details and specific topics to be considered for inclusion during the update were defined by the Steering Committee at a meeting on the 30<sup>th</sup> of October 2018.

### 2.2 Systematic Literature review

The systematic review was conducted by an appointed consultant, Dr Jane Elkington, who has expertise in systematic reviews and guideline development in road safety. Potential candidates for providing high level assistance with the systematic review were identified by the convening organisations and Dr Elkington was appointed with approval from the technical drafting group. Dr Elkington was chosen because she has extensive relevant expertise in both guideline development and road safety. A brief summary of her credentials and experience is contained in Appendix 1.

Full details and explanation of the choice of the methodology for the systematic review are contained in the Technical Report. Briefly, the process was to conduct literature searches in the medical literature (using the PubMed database), the transport literature (using the Australian Transport Research Index) and Cochrane reviews using key terms relating to child restraints and child passenger safety until no new articles emerged. Articles were then reviewed for relevance to each research question, and assessed for quality using all the dimensions specified in the NHMRC Evidence matrix (NHMRC, 2011).

### 2.3 Drafting of guidelines

In preparation for updating the guidelines, a scoping meeting was held which involved all members of the Steering committee and technical drafting group. The issues raised during this meeting were then incorporated into the systematic review. For each research question within the scope, recommended practices were developed and reviewed by the technical drafting group, based on the evidence. Evidence tables for each recommendation were drafted and/or updated as required. Where evidence was either very poor or there was no evidence, but where there was a need to provide guidance (based on the scope defined by the Steering Committee), consensus based recommendations were developed by the technical drafting group. Practice points were developed to mention a small number of issues that were outside the scope of the guidelines, but deemed important issues for consideration by those providing advice to consumers in this area.

Much of the work of the technical drafting group was conducted in teleconferences and by email. A final review of the whole draft guidelines was conducted by each member of the steering committee and technical drafting group prior to the consultation phases. Consensus was reached by the steering committee and technical drafting group for all recommendations, and practice points, and all consensus based recommendation. Formal methods of mediating this process (i.e. through the use of an external mediator) were not required, as agreement was reached in all cases. Consensus was achieved by the following (informal) process:

- Each broad issue, and the supporting evidence, was discussed during teleconferences. Each drafting group member had the opportunity to provide his/her viewpoint. The discussion continued until agreement was reached on the broad content of the recommendations.
- This broad agreement was then turned into a draft wording, which was circulated, and then discussed in follow up teleconferences, and by group emails and some one-on-one phone calls between the chair and drafting group members.
- Wording was then revised, and recirculated and re-discussed, until all members of the technical drafting group were in agreement with (or raised no further objections to) the

wording of the recommendation, or it was clear that complete agreement was unlikely. In this instance the alternatives under consideration were voted on, and the majority view was adopted.

• The final version was circulated again, and formal endorsement was given by all drafting group members, prior to commencing approval processes with Kidsafe and the Steering Committee member organisations.

### 2.4 Consultations

The draft guidelines documents were provided to the Steering Committee members for comment prior to the release for public comment.

The resulting draft guidelines and associated documentation were then made publicly available through the Neuroscience Research Australia website. A public announcement was published in The Australian newspaper on the Wednesday October 2, 2019. A broad range of stakeholder groups, identified during the project development phase, were invited to provide comment on the guidelines. Any individuals or organisations who had self-identified to the convening organisations were invited to comment on the draft. In addition to the members of the steering committee (see 3.4) all Australian Child restraint manufacturers and the following organisations were separately invited to comment on the draft:

- ACT Health
- Access Canberra, Road Transport Authority (ACT)
- Australian Child Restraint Resource Initiative (ACRI)
- Australian Competition and Consumer Commission
- Child Restraint Fitters (via Kidsafe mailing lists and existing networks)
- Consumers Health Forum of Australia
- Department of Health (Federal)
- Department of Health (Queensland)
- Department of Health (Northern Territory)
- Department of Health (Western Australia)
- Department of Health and Human Services (Victoria)
- Department of Health and Human Services (Tasmania)
- Department of Infrastructure, Planning and Logistics (NT)
- Department of Planning, Transport and Infrastructure (SA)
- Department of State Growth (Tasmania)
- Department of Transport (VicRoads)
- Department of Transport and Main Roads (Queensland)
- Dorel
- Medical Services Advisory Committee (MSAC)
- National Transport Commission
- NSW Health
- NSW Authorised Fitters Network Members (via Mobility Engineering)
- Pharmaceutical Benefits Advisory Committee (PBAC)
- Roads and Maritime Services (NSW)
- Royal Australian College of Surgeons
- Royal Children's Hospital (Melbourne)
- SA Health
- Therapeutic Goods Administration (TGA)
- Transport and Infrastructure Council
- WA Authorised Fitters Network Members (via WALGA RoadWise)
- WA Road Safety Commission

All stakeholders, steering committee members and drafting group members were encouraged to notify their professional networks of the public comment process. Members of the public were also encouraged to provide input by advertising via Kidsafe mailing lists and social media pages.

### 2.5 Review processes

In addition to reviews by the Technical Drafting Group and Steering Committee noted above, NHMRC arranged two scientific (expert) reviews and an independent methodological review. One internal NHMRC AGREE II assessment was conducted. Two independent AGREE II assessments were conducted by A/Prof Kim Delbaere, Neuroscience Research Australia, and A/Prof Anne Tiedemann, University of Sydney. Neither of these two reviewers were involved in any aspect of the development of the guidelines.

### 3 Governance and stakeholder involvement

The project was jointly convened by Neuroscience Research Australia and Kidsafe Australia.

An expert working committee (the Technical Drafting Group), chaired by Professor Lynne Bilston was formed in October 2018 to guide, advise and author the development of the Best Practice Guidelines on the Safe Restraint of Children Travelling in Motor Vehicles.

Name	Organisation	Discipline/Expertise			
Professor Lynne Bilston (Chair)	Neuroscience Research Australia & University of New South Wales	Engineering, Road Safety, Child Injury			
A/Prof Julie Brown	Neuroscience Research Australia & University of New South Wales	Anatomy, Road Safety, Public health			
Prof Judith Charlton	Monash University Accident Research Centre (MUARC)	Road Safety, Behavioural science, Public Health			
Dr Jeffrey Dutschke	Centre for Automotive Safety Research, University of Adelaide	Engineering, Road Safety			
Professor Lisa Keay	George Institute for Global Health, UNSW	Public health, Road Safety, Child Safety			
Dr Kate Hunter	George Institute for Global Health, UNSW	Public health, Road Safety, Child Safety			
Ms Melita Jeffries	Kidsafe Western Australia	Child Safety, Consumer Education			
Ms Kellie Shewring (until 16/5/19)	Kidsafe Northern Territory	Child Safety, Consumer Education			

### 3.1 The technical drafting group

### 3.2 Project staff

Dr Jane Elkington (Expert Reviewer, consultant), Jane Elkington & Associates

### 3.3 Methodological Advisor

Professor Robert Herbert, Neuroscience Research Australia

### 3.4 Steering committee

The steering committee was appointed to provide input on the development of the guidelines and was selected to be multidisciplinary, representing relevant disciplines and clinical experts in the area of child occupant protection in motor vehicle crashes, and to be from all states and territories in Australia. The group included organisations representative of the end-users of the guidelines. The steering committee were consulted at each stage of the guideline development, from determining the initial scope, reviewing the draft guidelines, providing additional input during the public comment phase and then again prior to submission to NHMRC for review and endorsement.

Name	Organisation	Discipline/Expertise
Basuki Suratno	Transport for NSW	Engineering, road safety policy
Belinda Maloney	Royal Automobile Association, South Australia	Child road safety, child restraint fitting
John Leditschke	Queensland Child Restraint Education and Safe Travel Committee	Paediatric surgeon
Elvira Lazar	Royal Automobile Club of Victoria	Road safety
David Andrews	State Insurance Regulatory Authority (NSW)	Injury prevention
Dimitra Vlahamitros	National Roads and Motorists' Association (NSW)	Road safety
Craig Newland	Australian Automobile Association	Vehicle and road safety policy
Jana Leckel	VicRoads	Road safety policy
Nicole Middleton	South Australia Department for Transport Energy and Infrastructure (DTEI)	Road safety policy
Emma Hawkes	WA Road Safety Commission	Road safety policy
Ali Akbarian	Mobility Engineering	Child restraint fitting
Tammie Deshon	WA Local Government Association – RoadWise Program	Child restraint fitting
Russ Milner	WA Department of Health	Injury prevention policy
Kathleen Clapham	University of Wollongong	Indigenous health
Tracey Rossetto (until 26/3/19)	NSW Department of Education	Transport of children with disability
Joel Tucker & Louise Hart	Royal Automobile Club of Queensland	Road safety policy
Will Oakley	Royal Automobile Club of Tasmania	Road safety policy
Derek Wainohu	InfaSecure Pty Ltd	Child restraints
Brad Bickley	Joie Baby/Nuna Baby Products	Child restraints
Sebastian Beltrami	Britax Childcare Pty Ltd	Child restraints

The organisations represented on the steering committee or providing funding have endorsed the guidelines.

### 3.5 Organisations formally endorsing the guidelines

Neuroscience Research Australia and Kidsafe have agreed to formally endorse the guidelines. Additionally, all steering committee members and funders will commence the processes for formal endorsement once the guidelines are finalised after public comment.

### 3.6 Industry involvement

Unlike the development of initial guidelines in 2013, industry representatives were invited to participate on the Steering Committee during the guideline update. This was done because engaging with industry during the development of the guidelines was seen as providing greater transparency and understanding on product use, and to ensure that product manufacturers were fully engaged in the research evidence base for best practice of how child restraints are used and can thus provide consistent advice to consumers. It also assists in child restraint usage recommendations being consistent with manufacturer's instructions for correct use. Their involvement also has the potential to influence product development which will ultimately assist consumers to achieve best practice when choosing and using child car restraints. In addition to the industry representative involved on the steering committee, further industry input was sought during public comment. Potential for commercial conflicts of interest from industry representatives to influence the guidelines development process were considered in detail by the Technical Drafting Group whenever industry representatives provided comment or input to the process, including at the Scoping Meeting, input on Guidelines drafts, and submissions during the public comment phase.

### 3.7 Consumer input in guideline development

Consumer organisations were involved in the development process as members of the steering committee (Kidsafe, NRMA, RACV, RACT, RACQ, AAA, RAA), the technical drafting group (Ms Melita Jefferies, Kidsafe WA), and were consulted extensively. Attempts were made to include an independent consumer representative (who was not an employee of a consumer organisation and did not have a personal relationship with any of the developers or drafting group members) on the steering committee. When this proved unsuccessful we instead established a *consumer representative advisory group*, consisting of parents and carers of young children, developed and managed by Kidsafe Australia, to provide direct consumer input on guidelines scope, advice needs, input on draft materials, and other consumer perspectives during the course of the guidelines development.

Direct consumer input was encouraged during public consultations, by:

1. Advertising in The Australian newspaper and distributed to stakeholders identified in section 2.4;

2. Advertising in all the Kidsafe Centres nationally and through Kidsafe distribution lists

3. Focus group testing of companion materials among parents and carers of young children of ages covered by the guidelines, including Aboriginal and Torres Strait Islander input and people from other culturally and linguistically diverse groups who frequently access services from Kidsafe.

Submissions from five consumers were received during the public comment process and the Consumer representative advisory group were consulted at each stage throughout the process.

### 3.8 Aboriginal and Torres Strait Islander input in guideline development

A specialist in Indigenous health was appointed to the Steering Committee (Professor Kathleen Clapham) and Technical Drafting group (Dr Kate Hunter) for the 2018/19 guidelines update. In addition, input from Aboriginal and Torres Strait Islander groups was sought during the public consultation phase as follows. The draft guidelines were sent to Aboriginal Health and Medical Research Council of NSW, National Aboriginal Community Controlled Health Organisation, Aboriginal Health Council of WA, and individual Aboriginal Medical Services. No submissions were received during public comment relating to the implications of implementing these guidelines for Aboriginal and Torres Strait Islander groups in remote communities.

### 4 Funding

Funding Organisation	Funding Received	Funding %
NSW Centre for Road Safety	\$10,000	16%
NSW State Insurance Regulatory Authority	\$10,000	16%
RACQ - Royal Automobile Club of Queensland	\$1,000	1.6%
RACT – Royal Automobile Club of Tasmania	\$5,000	8%
VicRoads	\$5,000	8%
WA Road Safety Commission	\$5,000	8%
Mobility Engineering	\$1,000	1.6%
InfaSecure Pty Ltd	\$3,000	4.8%
Britax Childcare Pty Ltd	\$2,500	4%
Joie Baby Products	\$10,000	16%
Nuna International	\$10,000	16%
TOTAL	\$62,500	100.0%

The organisations funding the guideline development process were:

### 5 Management of potential competing interests

All steering committee members and technical drafting group members have signed NHMRC disclosure of interest (DOI) forms at entry point into the project. At each stage of the scoping, evidence, draft review and signoff members of the development process were asked to declare any changes to their existing declarations of interests. Each meeting began with a review of members' declarations and summary of relevant disclosures to ensure all potential conflicts were managed appropriately.

If at any stage members declare a conflict of interest regarding a facet of the guidelines, they will abstain from any decision making in regards to that particular aspect of the document. Once the issue is resolved by the remaining members of the steering committee and technical grafting group, the abstaining member will be reintegrated into the discussion making process.

### 5.1 Summary of declared interests

No member of either the Technical Drafting Group or the Steering Committee declared any gifts, gratuities or payments.

### 5.1.1 Technical drafting group

A majority of the members of the Technical Drafting Group have affiliations with various organisations that have an active involvement in child restraints, motor vehicle safety, and injury prevention research. These include the Child Restraint Evaluation Program (CREP), the Centre for Automotive Safety Research (CASR), Monash University Accident Research Centre (MUARC), Kidsafe, Neuroscience Research Australia (NeuRA), the Australian Injury Prevention Network (AIPN), Australian College of Road Safety (ACRS), NSW Child Death Review team, and The George Institute.

As a result of these affiliations, many Technical Drafting Group members have published research protocols, papers, and reports, and have conducted studies in the field of injury prevention for children in motor vehicle crashes. These affiliations are not expected to result in any conflicts of interest as the members of the Technical Drafting Group were specifically selected for their previous experience and knowledge with related to child restraints.

Five members of the Technical Drafting Group provide consultation services and advice related to child restraint use. Three members of the Technical Drafting Group are on the Australian Standards committee for child restraints, with one member the chair of this committee.

Three members are currently employed within the child restraint industry. Two offer training and education on the use and installation of child restraints, and one is a consultant for CREP. Melita Jefferies works for an organisation that provides paid and free advice to consumers on child restraint issues and manages accredited training of child restraint installers nationally.

Finally, five members of the Technical Drafting Group receive research funding from various sources including the Transport NSW, NSW Health, Aboriginal Health and Medical Research Council, RACV, NRMA, VicRoads, NHMRC, Child restraint manufacturers and an Australian Research Council Linkage Grant.

A more detailed and comprehensive Disclosure of Interest table is listed in Appendix 2.

### 5.1.2 Steering committee

Three of the Steering Committee members are currently employed by restraint manufacturers, and one is co-owner of an engineering company who provides fee for service training, restraint installation and inspection services, state government contract for fitting network management. Other than these four Steering committee members no others declared any ownership interests, research funding or payment/gifts/gratitude's related to child restraints.

The Steering Committee members declared a wide range of advisory positions related to child restraint use. Thirteen of the members are either employed, or provide consulting services. Five of these members are employed by the RAA, RACV, RACQ, or NRMA, which sell child restraints, child restraint accessories, and may also provide fitting services. There are two the Steering committee members that have no interests to declare.

A more detailed and comprehensive Disclosure of Interest table is listed in Appendix 2.

### 6 References

National Health and Medical Research Council. *Procedures and requirements for meeting the 2011 NHMRC standard for clinical practice guidelines*. Melbourne: National Health and Medical Research Council; 2011.

### 7 Appendix 1 – Systematic Literature review consultant

Dr Jane Elkington conducted the systematic review, in consultation with the Technical Drafting Group. Dr Elkington has had previous experience in guideline development and systematic reviews, including undertaking the narrative review of the initial Best Practice child restraint guidelines in 2012 (See Evidence Review Section).

Dr Elkington has developed evidence-based guidelines and best practice principles for a range of government agencies and non-government organisations including guides to: Safe Celebrating for young people (YouthSafe), Safety Pack: Occupational Health and Safety (WorkCover, NSW), Community-based Safe Driving Programs for Novice Drivers and Passengers (NSW Raods & Traffic Authority) and Managing Loss & Grief in the Aged-Care Industry (WorkCover, NSW). She was appointed as Technical Editor to the NHMRC publication: Unintentional injury in young males, 15-29 years', ISBN 0 644 39752 7, Commonwealth of Australia 1997.

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Name	Organisation	Employment	Consultancy	Ownersnip Interests A	Ownersnip Interests- B	Kesearch Funding	Payments, Gitts, Gratuities
Professor	Neuroscience	Nil	Consultant, advisor	Nil	Nil	Australian Research Council	Nil
Lynne	Research		for people who do			Discovery Grant, NHMRC	
Gliston (Chair)	Australia & University of New South Wales		restraint fitting/advice			Project grant, NSW Centre for Road Safety Research Contract	
A/Prof Julie	Neuroscience	Nii	<b>Consultant services</b>	Nii	Nil	Research funded by child	Nii
Brown	Research		for CREP funded by			restraint manufacturers, RTA,	
	Australia &		government, car			NRMA, RACV, VicRoads	
	University of New South Wales		clubs and industry				
Prof Judith	Monash	Nil	Advice to CRS	Nil	Nil	Current: 1) Australian	Nil
Charlton	University		use/design to			Research Council Linkage	
	Accident Research		organisations such			Grant with Industry partners	
	Centre (MUARC)		as Holden, RACV, VR,			RACV, VicRoads, TAC, Britax,	
						3) EU Erasmus. 4) Australian	
Dr Jeffrey	Centre for	I am employed at a research organisation		Nii	Nil	My employer has received	Nii
Dutschke	Automotive	with interests in all aspects of road safety.				research grants to study child	
	Satety Researcn, University of					satety seat use. I nere is an existing project to study	
	Adelaide					injuries occurring in older	
						children.	
Professor	George Institute	Nil		Nil	Nil	Investigator of studies funded	
בוזמ ועכמץ	UNSW					Medical Research Council of	
						NSW; NSW Health &	
						Transport for NSW; NHMRC &	
						ARC on use of child car seats.	
Dr Kate	George Institute	Nil	Advice on assessing	Nil	Nil	AHMRC (NSW), NSW Health	Nil
Hunter	for Global Health,		equitable access to			and Transport; NHMRC;	
	WSW		health services for			Australian Research Council	
			Torres Strait Islander				
			people				

# 8 Appendix 2 – Disclosure of interest tables

## 8.1 Technical drafting group

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Name	Organisation	Employment	Consultancy	Ownership	Ownership	Research Funding	Payments, Gifts
				Interests A	Interests- B		Gratuities
Ms Melita Jefferies	Kidsafe Western Australia (on	Employed by a not-for-profit charitable organisation who conduct child restraint	Nil	Nil	Nil	Nil	Not personally, but my employer has a
	behalf of Kidsafe nationally)	training, installation, checking, hiring and advice services. Fees are charged for these services. All profits are reinvested into					partnership arrangement with Britax. Specific details
		undertaking road safety education activities with particular emphasis on occupant					of this sponsorship are confidential.
		protection. This is the only aspect of our					
		organisation's business that may be deemed					
Ms Kellie	Kidsafe Northern	Employed by a not-for-profit charitable	Nil	Nil	Nil	Nil	Not personally, but my
Shewring	Territory (on	organisation who conduct child restraint,					employer has a
(until	behalf of Kidsafe	installation, checking, hiring and advice					partnership
16/9/19)	nationally)	services. Fees are charged for these services.					arrangement with
		road safety education activities with					of this sponsorship are
		particular emphasis on occupant protection.					confidential
		This is the only aspect of our organisation's					
		business that may be deemed commercial in					
		relation to occupant safety.					

d vehicles for children under 12 d presented on change project insport children as credited training for	Dr Kate         Senior Research Fellow. Body of work primarily in         Deputy chair of Kidsafe NSW, which runs child car sea           Hunter         Aboriginal and Torres Strait Islander child and         workshops for a fee. Member of Australasian Injury           family health and the social determinants of         Prevention Network.           health. Research expertise includes the conduct         and evaluation of community based programs,           translational research, and assessing equitable         access to health services for Aboriginal and           Torres Strait Islander people.         Torres Strait Islander people.	Professor         Investigator on the Buckle up Safely project         Member NSW Child and young person injury           Lisa Keay         focusing on Pre-school based interventions for         prevention working group, office of the advocate for           appropriate use of child restraints         children and young people. Member AIPN,	Dr Jeffrey         Research Fellow at the Centre for Automotive         ACRS (SA); Member of the Standards Australia           Dutschke         Safety Research. Academic papers and research         committee CS-085 – child car seats and accessories           analysis of mass data, at scene crash         investigation, mathematical modelling, and         biomechanics.	Prof         Academic papers (Journal papers and reports),         Australian College of Road Safety (Vic Chapter). AAAM           Judith         media launches and public speaking         member (Association Advancement of Automotive           Charlton         engagements at schools , community, industry         Medicine)	A/Prof         Published, advocated and publically debated on         CREP program, board member of NSW Kidsafe. Special advisor NSW child death review team; US NTSB           Brown         Occupant protection subcommittee; Australian Standards committee CS-085; Member of Australian College of Road Safety, Australian Injury Prevention Network	edia appearances. Lots of academic earch	Name Experience Affiliations
We work with all child restraint manufacturers to ensure our staff are kept up to date with new product releases and changes to ensure we have the most up to date information when educating the consumer and assisting them to make an informed choice on the safest options for child car restraints. However, we are independent and do not recommend specific brands or models of restraints but instead offer advice on what       Guidelines 2013	hich runs child car seat Nil f Australasian Injury	person injury Nil e of the advocate for mber AIPN,	lards Australia Nil ats and accessories	y (Vic Chapter). AAAM Auto CRC Report - Child Safety Guidelines. (Vic Kidsafe/Coroner's Office Guidelines on driveway safety for Children); Best Practice Child Restraint Guidelines 2013	of NSW Kidsafe. SpecialEmployed at NSW RTA between 1985 - 1998 and was directly involved in ttee; Australianttee; Australiandevelopment of guidelines, policies and recommendations relating to child occupant safety in cars; Best Practice Child Restraint Guidelines 2013	ii f	Participation in Guideline
<u>N</u>	<u>2</u>	Nil	Nil	ty	<ul> <li>NO - however,</li> <li>informally has</li> <li>endorsed numerous</li> <li>guidelines, but not</li> <li>in a formal capacity</li> </ul>	Endorsement . Best Practice Child ids, Restraint Guidelines 2013	Guideline

Ms Kellie Shewring		Name
Manages fitting service and MAC car seats for kids program for Kidsafe NT		Experience
	these features or how well they fit in the customer's vehicle or will fit with their existing restraints. Kidsafe Australia representative on Australian Standards committee CS-085;	Affiliations
Nil		Participation in Guideline Development
Nil		Guideline Endorsement

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Name	Organisation	Employment	Consultancy	Ownership	Dwnershin	Research
Name	Organisation	Employment	Consultancy	Ownership Interests – A	Ownership Interests – B	
Ali Akbarian	Mobility Engineering	Our business offers training and advice services in use/fitment of child restraints. We use the guidelines for this.	Offer free and paid advice in use and fitment of child restraints	Shareholder of Mobility Engineering	Nil	
Dr Basuki Suratno	RTA	<u>Ni</u>	<u>2</u>	Ni	Zi	Z.
Belinda Maloney	RAA	Royal Automobile Association - Sales of restraints, advice, training of organisations, fitting service, collection of statistics.	Provide child restraint advice to such organisations - Families SA, Novitatech, Disability and Family Day Care Services, DTEI, etc STDs committee	Zi	Ni	Z.
Brad Bickley	Joie Baby / Nuna Baby Products	Currently employed by Wonderland Nursery goods Co., Ltd	I am a consultant to Nuna International B.V. and Joie baby products.	Nil	Nil	N.
Craig Newland	Australian Automobile Association	The AAA is a not-for-profit organisation and is the national secretariat for Australia's motoring clubs. The clubs provide advice to members and consumers, and some clubs offer child restraint fitting services, including sales of child restraints - the AAA is not directly involved with these activities	Nil	Nil	Nii	Nii
David Andrews	State Insurance Regulatory Authority (NSW)	Nil	Nil	Nil	Nil	Nii
Derek Wainohu	InfaSecure	Currently employed as the product engineering manager for InfaSecure	I was initially working on contract for InfaSecure, prior to my offer of full time employment.	Nil	Nil	Nil
Dimitra Vlahamitos	National Roads and Motorists Association (NSW)	NRMA provides car seat fitting service and car seat advice. Thrifty rents out seats.	Nil	Nil	Nil	Nil
Elvira Lazar	RACV	Nil	Nil	Nil	Nil	Nil
Emma Hawkes	WA Road Safety Commission	Nil	Nil	Nii	Nil	Ni

Louise Hart	Kathleen Clapham	Joel Tucker	Jana Leckel	Dr John Fred Leditschke	Name
RACQ	University of Wollongong	RACQ	Vic Roads	Queensland Child Restraint Education and Safe Travel Committee (CREST)	Organisation
RACQ fits and installs child restraints for a fee.	<u>₹</u>	Sale of child restraints and child restraint accessories to RACQ members, general public and other organisations or agencies as requested. These restraints and accessories are primarily sources from Britax. Installation of child restraints for RACQ members, the general public and other organisation or agencies. These are provided at a fee. Where a child restraint has been purchased from RACQ, the initial installation and first turn on convertible seats, the installation will be provided as a complimentary service	NI		Employment
<u>Z</u>	Expert advisor to child death review team with meeting fee of \$75 per hour	Consultation with various government and industry bodies in relation to ensuring safer vehicles including child restraints and their use by Queensland motorists. Provision of advice regarding Child Restraints selection and installation to RACQ members, general public and other organisations	Nii	Advice to RACQ as Chairman of CREST	Consultancy
<u>Z</u>	<u>Z</u>	Z	Nil	<u>2</u>	Ownership Interests – A
<u>Z</u>	<u>Z</u>	N.I.	Nil	<u>Z</u>	Ownership Interests – B
<u></u>	NSW Health & Transport for NSW	Z	Zii	Z.	Research Funding
<u> </u>	<u>2</u>	Nil	Nil	<u>2</u>	Payments, Gifts, Gratuities

Will Oakley	Tracey Rossetto (until 26/3/19)	Tammie Deshon	Sebastian Beltrami	Russ Milner	Nicole Middleton	Name
RACT	NSW Department of Education	WALGA Roadwise Program	Britax Childcare Pty Ltd	WA Department of Health	SA Department for Planning, Transport and Infrastructure (DPTI)	Organisation
My current employer RACT sells child restraints and charges for fittings.	<u>2</u>	Nil	Currently employed as Engineering Manager at Britax Childcare	NI	N	Employment
N <sub>ii</sub>	Ni	Nil	Ni	Ni	Nii	Consultancy
Nii	Zi	Nil	Nil	Ni	N.	Ownership Interests – A
Z.	N.	Nil	Nii	Nii	<u>Z</u>	Ownership Interests – B
Nii	N.	Nil	Ni	N.	Z	Research Funding
Nii	<u>N</u>	Nil	Ni	N.	NI	Payments, Gifts, Gratuities

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Administrative Report	Dimitra Vlahamitos	Derek Wainohu	David Andrews	Craig Newland	Brad Bickley	Belinda Maloney	Dr Basuki Suratno	Ali Akbarian	Name
ive Report	NRMA media spokesperson on child car safety. Provide advice on media, social media and educational collateral.	Not specified	Ni	Research papers on dynamic performance of child restraints. Has given oral presentation of material contained in research papers. Was on steering committee on previous edition of guidelines.	Not specified	Media interviews both spoken and written on child safety with guidelines mentioned as basis for advice. Developed a range of fact sheets on various issues with guidelines acting as a basis for our advice and content	We included parts of the first edition of the guidelines in our publication Fitters Manual. I have a few papers about child restraint issues and manage child restraint evaluation program	I often provide keynotes to various relevant groups around child car restraints. I am often asked to review materials produced by other organisations as an expert in this field. In most cases I do this on a voluntary basis.	Experience
	NRMA rep on CREP. NRMA education program provides car seat advice to primary school kids.	Current committee member with Australian Standards committee CS-085	Ni	The AAA is an advocacy organisation with road safety as a key advocacy issue and interacts with a broad range of stakeholders. Affiliated with motoring clubs and ANCAP who use/recommend/sell child restraints.	I am a member of the Standards Australia committee for Prams and Strollers (CS-020).	CS-085 Committee - Child restraint Standards responsible for the AS/NZS1754, 8005 and 4370s. (AAA Rep)	Project manager of CREP, Authorized Restraint Fitting Station Scheme. Austroads representative in CS-085 committee. Biomechanics Panel. I work for NSW Centre for Road Safety with its interests are aligned with the subject matter.	We are engaged with RMS on a contract to provide advice on child restraints to the public. The training and audit activity we conduct may influence may be seen as to influence my contribution in a positive manner given my experience.	Affiliations
	Z	Z	<u>Z</u>	Z	Nil	Internal RAA brochures + fact sheets + website Dept Transport, Energy + Infrastructure brochure + Website	I am involved in the implementation of child restraint laws in NSW. Exemption for children with disability. Restraint fitting station manual. Brochures, DVDs	National CRS Guidelines 2013 on Steering Committee	Participation in Guideline Development
Page   20	Zi	<u>N</u>	<u>2</u>	<u>Z</u> i	Ni	Submissions to Government on legislation (SA). DTEI Brochure	I developed, managed and endorsed Authorized fitting station scheme and CREP	Nii	Guideline Endorsement

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Name	Franciasco	Affiliations	Darticipation in Guidalina	Guideline
			Development	Endorsement
Elvira Lazar	CREP child restraint evaluation program (also financial contributor). TOCAN – Transportation of children with additional needs.	RACV is committed to providing the latest and up to date information to ensure that children travel safely in cars. RACV provides child restraint advice via our website, our electronic newsletter and media comment.	<u>2</u>	<u>2</u>
Emma Hawkes	Not specified	Unpaid membership of child car restraints reference group – State government group considering child car restraint issues in WA.	Policy advice on changes to WA rules regarding child car restraints, enacted June 2018.	<u>2</u>
Dr John Fred Leditschke	Multiple media appearances as an advocate for ASA affirmed infant and child restraints and consequences of inappropriate adherence of restraints and incorrect anchorage of infant and child in the restraint. Spokesperson for Kidsafe Qld; Paediatric Surgeon Royal Children's Hospital Brisbane: Past Chairman Trauma	Member Kidsafe Qld: Past national president. Member Royal Australasia College of Surgeon, Trauma Committee Queensland	CREST - Subcommittee of the RACS Queensland Trauma Committee. RACS QLD Trauma Committee	<u>2</u>
Jana Leckel	Development of related educational material/fact sheets on child car restraints for VicRoads	Nil	Ni	Ni
Joel Tucker	Provision of information sessions to various community and educational groups in Queensland on Child Restraints, their selection and installation as part of our advocacy message. Those sessions and programs are provided free of charge. However, a fee is charged for the information sessions conducted by our Drive Education team and which involve Child Restraint issues	RACQ advocated for child safety on behalf of its 1.7 million members, and correct selection and installation of child restraints is part of that.	Was on last NHMRC Guidelines on Child Restraints – Steering Committee.	<u>Ni</u>
Prof. Kathleen Clapham	A senior Aboriginal researcher and anthropologist with extensive health and social research experience. Within the broad area of Indigenous health, her research focuses on the safety, health and wellbeing of children and young people, community-based interventions, the social and cultural determinants of health, and health services improvements.	Membership of Kidsafe NSW Council, Expert advice to Child Death Review Team; Member of the Australasian Injury Prevention Network	Active and Safe: Preventing unintentional injury to Aboriginal children and young people in NSW.	<u>N</u>

### 8.3 Project staff

Name	Organisation	Employment	Consultancy	Employment Consultancy Ownership Interests – Ownership Interests – Research A Funding	Ownership Interests – B	Research Funding	Payments, Gifts, Gratuities
Dr Jane Elkington	Jane Elkington & Associates	Research fellow, Neuroscience Research Australia, related to child road safetv	Epidemiologist Nil and road safety consultant	<u>Ni</u>	<u>Z</u>	<u>2</u>	<u>N.</u>

Dr Jane Elkington	Name
Epidemiologist and road safety consultant	Experience
Independent Consultant	Affiliations
Systematic literature review, document drafting	Participation in Guideline Development
N/A	Guideline Endorsement

### 9 Appendix 3 - Summary of Changes to Best Practice Guidelines for the Safe Restraint of Children Travelling in Motor Vehicles (2020 Update)

Below is a *summary* of the key changes made to the guidelines during the 2020 update. This summary was provided to the Technical Drafting group, Steering Committee representatives and as part of the public comment package to enable readers to identify the key changes. Full details of the evidence underpinning these changes is contained in the main Guidelines document.

### Substantive Changes:

Introduction - Additional information on use of child restraints for children with disability.

Recommendation 1.9 (booster to adult belt transition):

• Stronger recommendation for use of the '5 step test' to guide booster seat to adult seat belt transition, and removal of 145-150cm height as approximate target for transition.

Consensus-Based Recommendation 2.1 (taxis and other vehicles):

• Addition of private hire cars and ride share services to the recommendation for children to use their recommended restraint in taxis.

Recommendation 2.11 (integrated restraints):

- New recommendation for use of add-on high back booster seats in preference to integrated boosters for children aged 4-8
- New recommendation that for older children, integrated boosters are suitable for use if adjacent to a curtain airbag

Consensus-Based Recommendation 4.2 (seating position for child restraint users):

• Removal of advice to use centre rear position for children seated in booster cushions

Consensus-Based Recommendation 5.8 (inflatable seat belts and child restraints):

• Advice that child restraints should only be used in seating positions with inflatable seat belts if advised to be safe by both vehicle and child restraint manufacturer.

Recommendation 5.7 (seat belt pretensioners)

New advice that it is safe for children in child restraints and booster seats to sit in seating
positions equipped with seat belt pretensioners

### Recommendation 6.7 (seating posture):

• New recommendation to ensure child is in good upright seating posture when travelling

Recommendation 6.10 (ISOFIX):

 Additional advice that there is no evidence to recommend ISOFIX compatible restraints over restraints installed with a seat belt

Practice Point 6 (small infants):

• New practice point advising parents of small infants (<2.5kg) to use rear facing restraints designed for low birthweight infants until they get good fit in a standard rear facing restraint

Practice Point 7 (preterm infants and apnoea):

• New practice point advising parents of premature infants to minimise time in the child restraint and observe the child in the restraint to minimise the risk of apnoea (stopping breathing)

### Minor changes:

- Altered wording on consensus-based recommendation use of extended rear facing restraints (Type A4) noting no recommendation can be made about their safety in comparison with forward-facing restraints for children over 12 months of age who have outgrown their Type A1 or A2 restraint. (CBR 1.6)
- Altered wording on consensus-based recommendation use of extended forward facing restraints (Type G) noting no recommendation can be made about their safety in comparison to booster seats for children who have outgrown a Type B restraint (CBR 1.8)
- Addition of advice to check for missing components in second hand restraints (CBR 2.16)

### 10 Appendix 4 - Summary of responses to public comments received

Below is a *summary* of the responses to more than 100 comments received during public comment for the updated National Best Practice Guidelines on the Safe Restraint of Children Travelling in Motor Vehicles, developed jointly by Neuroscience Research Australia and Kidsafe. There were many minor editorial, stylistic, terminology and wording changes suggested, that are not listed in detail below, but which have been addressed. The revised document has had thorough editorial and stylistic checking done.

The responses (summarised below) were prepared by the Technical Drafting Group, and changes reflected in the revised Guidelines. The responses were reviewed by the Technical Drafting Group who subsequently suggested changes to the Guideline. These changes are summarised below. The revised Guideline was then submitted to NHMRC for approval after endorsement by the developing organisations and project Steering Committee Organisations.

### Major Issues Raised:

- 1. Some clarification of the 'strength' of the wording used to recommend practices when there is a legal requirement that is relevant to the practice.
  - Incorporated information around language and legal requirements into introduction of the Plain English Summary to ensure clearer understanding on the use of terminology in the guidelines.
  - Currently most recommendations use the word 'should', a lot of feedback suggesting text is reworded to use the word 'must'. Amendments were made to text and the word 'must' is used when it is associated with a nationally consistent legislative requirement.
- 2. Clarification on the transition point from Booster seat to adult seatbelt after removal of the standing height measurement of 145-150cm from recommendation text
  - Revised wording to be consistent with 'can fit within it' as per other recommendations.
  - Updated response text reflecting booster/seatbelt gap, evidence around booster effectiveness in this age range.
  - Maintained the focus on the use of the '5 step test' as the best measure for determining suitability of a child travelling without a booster seat.
- 3. Clarification on the wording around the use of accessory items when they are 'not supplied by the manufacturer with the restraint'.
- 4. Clarification that children with additional needs (physical, cognitive or behavioural) are not specifically covered by these guidelines, and the adoption of consistent terminology.
  - This has been further clarified in the scope of the guidelines, and reference made to the need to individually assess children with additional needs, in line with the guidelines embodied in AS/NZS 4370, which have been included in the relevant Practice Point.
- 5. Clarification of text around evidence for recommendations to include "peer reviewed published" as some supporting evidence presented in submissions during public comment doesn't meet the guidelines criteria (e.g. not peer reviewed).
- 6. Clarification of suitability of using child restraints in side facing and rearward facing seats if there are no other options available.
  - Removed allowance for use of restraints on side facing seats in 'troop-carrier' vehicles in the NT, as no longer legally allowed.

- Removed words 'unless no forward facing seating positions are available' to ensure recommendation is clearer.
- 7. Clarification of when a child restraint should not be re-used after a crash.
  - 'Moderate to severe crashes' was previously defined in the text. This has been clarified further, and will be included in the consumer documents developed from the guidelines.
  - Included reference to 'damage may not be visible' to the text.
- 8. Recommendation that seatbelt extenders are not recommended expanded to include additional points if their use is unavoidable.
- 9. Clarification on the use of 'Parents/Carers' throughout document when the driver of the motor vehicle is deemed responsible under legislation and this may not always be the 'Parent/Carer'.
  - The guidelines text was revised, specifically in relation to Practice points 5-7. All other references appeared appropriate, and others have been amended as recommended.
- 10. Recommending not to allow twists in harnesses
  - Current laboratory studies have shown that while 1-2 twists do not compromise restraint performance unless they allow additional slack in the harness, when combined with other minor forms of incorrect use, the effect can be cumulative.
  - The recommendation was reworded to include mention of avoiding twists in harnesses, including the plain English summary text.
- 11. Recommendations for how to present information for consumers
  - Plain English summary would be better presented as recommended website content
  - Consider providing plain English summary in several other languages (CREP encourages this for instruction manuals)
  - Consider adding some diagrams to illustrate the terminology used in the glossary.
  - Development of a quick reference guide a series of diagrams and captions for the guidelines.
  - The recommendation was reworded to include mention of avoiding twists in harnesses, including the plain English summary text.
  - These suggestions will be considered during the development on the consumer documents where funding is available and usage is noted in the dissemination plan.

A full summary table of the comments received in relation to the draft recommendation, additional evidence presented, response and subsequent action are provided below.

Recommendation	Comment/Submission	Supporting Evidence	TDG Agreed Response/Action	Final Response
1.1 (Recommendation) <i>The use of any</i> restraint is preferable to not using a	<ul> <li>Rear facing until 4 years minimum using torso length and weight on extended rear facing</li> </ul>	Nil	None - this recommendation is only about whether to be restrained or	No further action required
restraint.	seats		unrestrained.	
	<ul> <li>No maximum rear facing age</li> </ul>		The evidence for fit around shoulder height labels and shoulder height vs	
			strap height is stronger than a specific	
			torso length. Weight is not a significant	
			limitation, as restraints are tested with	
			larger dummies than the maximum	
			aligned with the upper age range.	
			There is insufficient evidence to	
			recommend rear facing up to 4 years of	
			age.	
1.3 (CBR)	<ul> <li>Booster seat use until 13 years or once the</li> </ul>	Nil	Boosters to fit all children up to age 13	No further action
Parents/carers are encouraged to exhaust	child's torso has reached the vehicle		are not available so cannot be	required
all options for restraints in the child's	manufacturers specified recommendations for		recommended.	
current or 'recommended' category	correct seatbelt placement			
before transitioning them to the next	<ul> <li>Minimum 12 months rear facing</li> </ul>		Already addressed	
category of restraint, except for the cases	<ul> <li>Harnessed till minimum 8</li> </ul>		There is no evidence to support the use	
noted in recommendations 1.6 and 1.8.			of harnessed seats up until 8 years of	
			age compared to boosters.	
1.5 (Recommendation) Children, from	<ul> <li><u>Alteration to wording</u>: Children, from birth, to</li> </ul>	Same text edit to be applied to section	The guidelines specify that best	Additional
birth, should use rearward facing child	at least 6 months of age, must use rearward	6.1.1; R1.5	practice, which is the focus of these	explanation
restraints (RFCR) for as long as they fit	facing child restraints (RFCR) for as long as they		guidelines, differs from the minimum	added to plain
within them.	fit within them.		required by law. TDG reviewed text	English summary.
			explaining best practice vs legislation,	
			and agreed to add additional	
			explanation to plain English summary	
<ul> <li>For restraints certified to AS/NZS</li> </ul>	• As per the manufacturer's specifications in the	Manufacturer instruction manual	None - Weight is not a significant	No further action
1754(2004) or earlier which do not have	supplied manual for these restraints (AS/NZS		limitation, as restraints are tested with	required
shoulder height markers, the sign of the	1754: 2004) the time to turn forward facing		larger dummies than the maximum	
child having outgrown the restraint is	would be determined by the recommended		aligned with the upper age range.	
when the child's shoulders are above the	weight. A1 - up to 9 kg, A2 - Up to 12kg.		This is unchanged from the 2013	
top shoulder harness strap slot for			edition – extensive discussion at the	
rearward facing use.			time and subsequent discussions	
<ul> <li>For restraints certified under AS/NZS</li> </ul>			warrant no change to recommendation	
1754(2010) or later, the sign of the child			text in update. Weight ranges were	
having outgrown the restraint is when the			required guidance in earlier versions of	
child's shoulders are above the upper			AS/NZS 1754 and was not evidence	
shoulder height marker for rearward			based.	
facing restraint use.				

Added "peer reviewed published" to supporting text for CBR 1.8, and note that further research is required.	The TDG discussed the research referenced in this comment. Clarify in the text that there is no "peer reviewed literature" on this. The suggested reference is not peer reviewed, and is a single test of a single restraint. Include a statement around further research being required.	Further details of the research outcomes to support the above comments can be found in the reference below: Suratno, B., Leavy, D. Sherry, D. and Lai, A. "Are Type-G Child Restraints (Large Forward-Facing Restraints with Inbuilt Harnesses) Safer than Booster Seats? A Preliminary Crash Test." Proceeding of the 2018 Australasian Road Safety Conference 3 – 5 October 2018, Sydney, Australia. https://acrs.org.au/files/papers/arsc/2 018/JACRS-D-18-00141-Suratno.pdf	<ul> <li>It is inaccurate to state that there is currently no field or laboratory testing research with Type G restraints. A laboratory test research had been done in this field comparing the crash protection performance of a Type G restraint with a booster seat using a full frontal impact test It is strongly recommended to include a guideline that when using a Type-G restraint, safety may be improved by providing extra space in front of the child occupant, for example by moving the front seat forward.</li> </ul>	1.8 (CBR) Restraints designed for extended forward facing use with an inbuilt 6 point harness for children up to approximately 8 years of age are now available (Type G in AS/NZS 1754). These are an acceptable alternative to use of a booster seat for children who fit within them.
Additional explanation added to plain English summary. Amendment made to all guidelines documents. Text amendments made.	The guidelines clearly specify that best practice, which is the focus of these guidelines, differs from the minimum required by law. TDG reviewed text explaining best practice vs legislation, and agreed to add additional explanation to plain English summary Accept correction and use consistent units of cm. None - This is unchanged from the 2013 edition. Agreed this could be clarified further in the supporting text - amend text as per 1.5.	Same text edit to be applied to section 6.1.2; R1.7	<ul> <li>Alteration to wording: Children, 6 months but less than 4 years old, must use forward facing child restraints (FFCR) with an inbuilt 6 point harness (Type B) system from the age that they outgrow their shoulders are above the maximum allowable height for their forward facing restraint</li> <li>Use of mm is used and in the plain English summary section above cm is used</li> <li>Suggest adding in the weight requirement as per comments in 1.5</li> <li>There is also misinformation about children not being able to use a harnessed seat (legally) past 7 years old. I'm just wondering if this could be addressed somehow too.</li> </ul>	1.7 (Recommendation) Children should use forward facing child restraints (FFCR) with an inbuilt 6 point harness (Type B) system from the age that they outgrow their rearward facing infant restraint, until their shoulders are above the maximum allowable height for their forward facing restraint.
Added text applicable to 2010 Standard height marker transition as per 1.5 to 1.6 as well as including in main text. None	Agreed to clarify further in the supporting text. Same shoulder height transition as 1.5 applies here – add to text. None required None – the suggested revision is unclear which restraint child fits in.	<u>2</u>	<ul> <li>It would be wonderful to use this point to establish that an upper age limit does not apply as there is current misinformation around '4 years' of age being a law maximum for Rear facing.</li> <li>CBR 1.6 and 1.8 Type A4 and Type G restraints respectively are appropriate and welcomed to keep up with developments in the child restraint industry.</li> <li>Type A4 -<u>Suggest re-word</u>: These are acceptable alternative to use in the place of a forward-facing child restraint for children who fit within them</li> </ul>	1.6 (CBR) Restraints designed for extended rearward facing use up to approximately 2-3 years of age are now available (Type A4). These are an acceptable alternative to use of a forward facing child restraint for children who fit within them.
Final Response	TDG Agreed Response/Action	Supporting Evidence	Comment/Submission	Recommendation

	guidelines are about 'best practice',	height (>4 feet 9 inches, i.e.	Q	
	variations in vehicles and children. The	validity of the typical age (>8 years).	might have good seatbelt fit. which can be	
1.12	marker of good belt fit due to large	<ul> <li>Morse et al. (2017) examined the</li> </ul>	parents/guardians to gauge when the child	
Also added to	145cm height is not an accurate	evidence:	and is also a simple and effective guide for	
	noted in the evidence review, the	Several references provided as	removed because it remains evidentially sound	
7 years of age.	future focus on this as a transition. As	perform the more detailed 5-step test.	height as a guiding indicator should not be	
children beyond	than an actual transition point, to avoid	parents/caregivers to think about and	particular vehicle. However, firmly believes	
effectiveness in	belt fit before this age range rather	would be a precursor for	protection from an adult seatbelt in a	
of booster	children are highly unlikely to get good	seatbelt. This height recommendation	a child is big enough to obtain optimal	
limited evidence	could reword to better clarify that	transition from a booster seat to adult	step test should be used to determine whether	
restraint gap and	evidence. TDG considered whether we	are able to attain good seatbelt fit and	supportive of CBR1.12 which states that the 5-	
booster/seatbelt	'best practice' according to the	recommendation about when children	geometry. We are also correspondingly	
present the	using standing height did not reflect	the updated best practice guidelines	accounts for body proportions and seat	
more clearly	reached unanimous agreement that	guidance relating to height remain in	best way to determine good seatbelt fit since it	
Text updated to	TDG discussed this issue at length, and	Thus, we strongly advocate that the	<ul> <li>We acknowledge that the 5-step test is the</li> </ul>	
			booster. Use in conjunction with 5-point test.	
			bring them in to see if they can come out of a	
			once their child is around this height they will	
			145cm." Many parents use this as a guide and	
			most vehicles when the child is around	
			suggest adding Good seatbelt fit is attained in	
			<ul> <li>support the use of the 5 step test nowever,</li> </ul>	
			provide sear to addresseativelt, latitet tilalita	halt fit
			hoostar soat to adult soathalt rather than a	will require a hooster seat to obtain anod
			good seathelt fit for the transition from	Most children up to 10-12 years of age
			<ul> <li>Great to see the emphasis being placed on</li> </ul>	test' in the vehicle they are riding in.
			suitable booster seat.	seat belt fit as assessed by the '5 step
	other recommendations.		would allow the child to be safely seated in a	they are too tall for it or can achieve good
	consistent with can fit within it as per		when in fact there could be another seat that	(Type E or Type F In As/NZS 1754) until
	Agreed to change wording to be		misunderstood as too tail for the existing seat	Time E or Time E in ACANZE 1 ZEAL instil
				cargiown unen jor ward jacing crina
Minerial made	commonts on recommondation 1.0		<ul> <li>Use language until they are too tall for it ,</li> </ul>	1.3 (Reconnice indication) once a child
Amondamont to	TDC discussed together with all			10 (Bosommondation) Open a shild has
			forward facing, or forward facing to booster	
			next type of restraint (e.g. rearward facing to	
			outgrown their seat, before graduating to the	
			possible, and as long as they have not	
action.			their current child restraint type for as long as	
No further	None required		principle and our advice to keep children in	
			<ul> <li>These changes reflect the best practice</li> </ul>	
	within.		booster seat for children who fit within them.	
action.	unclear on which restraint children fit	(CBR 1.3/1.8)	acceptable alternative to use in place of a	
No further	None - The suggested revision is	See also evidence supplied with 6.1	<ul> <li>Type G - Suggest re-word: These are an</li> </ul>	
Final Response	TDG Agreed Response/Action	Supporting Evidence	Comment/Submission	Recommendation

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guidelines.

State/Territories.			requirement for ride share services?	
1 by (%), symbo	legal section indicated by '%' symbol	services	<ul> <li>support addition of this information. Should</li> </ul>	
tions noted in	Checked that this information is in the	services to carry child restraints in a	minimum 8.	
actually accura	This comment is not factually accurate.	there should be a requirement for all	<ul> <li>Requires an age appropriate car seat until</li> </ul>	
		Implemented as law; the exemption for taxis needs to be removed and		
		recommendation should be		
		We further believe that this		
		easily conveyed to these relevant organisations and drivers.	the purpose of the vehicle.	
		correctly is readily available and can be	road safety issues are the same regardless of	
		available and how to use them	recommended restraints in taxis. The child	
żgγ.	communication strategy.	and support on the types of restraints	recommendation for children to use their	
and	consumer documents and	best practice recommendation. Advice	<ul> <li>we support the addition of private line cars and ride share services to the</li> </ul>	
part of overall	Will be considered as	to ensure they align their	the guidelines were first written.	private hire cars, and ride share services.
		private hire car and rideshare drivers	these services has grown considerably since	their recommended restraint in taxis,
		must be publicly communicated to	in the guidelines. The availability and use of	For optimal safety, children should use
	None required	This update to the recommendation	<ul> <li>Good to see the inclusion of ride share services</li> </ul>	2.1 (CBR)
	recommended.		too old to continue using or are illegal to sell"	
and not	longer manufactured and not	dropped from the standard.	Standard and any that are available are either	rather than booster cushions
en though no	legally still be used even though no	based on 0.1.3 - It is now nearly to	<ul> <li>Consider adding Booster custions are no longer permitted under the Australian</li> </ul>	1.11 (neconnicial during) High back booster seats are preferred
Fill in the and a	No action they are st	to remember and perform.		1 11 (Bocommondation)
		step test, which requires more effort		
		by parents/caregivers than the 5-		
		appealing and easily remembered		
		a single number or range is more		
		perspective, height indicators using		
		<ul> <li>From a communications</li> </ul>		
		qualitative 5-step test.		
		improving legislation better than the		
		would serve this purpose of		
		Hence, age and height indicators		
		translated into enforced rules.		
		accessible, quantifiable and easily		
		appropriate restraints should be		
		child restraint use indicators of		
		ingrained in legislation surrounding		
		guidelines to influence and be		
		<ul> <li>The potential of the best practice</li> </ul>		
e/Action	<b>TDG Agreed Response/Action</b>	Supporting Evidence	Comment/Submission	Recommendation

Text amendments made.	Agreed to remove reference for allowance to use in NT, as no longer allowed for.	seats. I have contacted Northern Territory Motor Registry and the claimed Northern Territory approved modification to allow a rearward facing restraint to be fitted to a side facing seat does not exist anymore. NT advises that only one application for an engineering solution to fit a booster seat to a side facing seat has ever been approved. Their general advice is to either modify the vehicle by fitting forward facing seats or use another vehicle. The statement "Child restraints are not recommended to be used in side- facing seats in 'troop carriers' and similar vehicles unless no forward facing seating positions are available" could be seen as promoting an unacceptable practice. The consensus-based recommendation appears to be at odds with the background information provided.	<ul> <li>when fitted on side facing seats? Is there evidence to show what happens with restraints when fitted on side facing seats? Is there evidence to show that it is detrimental to the performance of the child restraint?</li> <li>Apart from the Northern Territory example when historically a RFCR is able to be installed on a sidewards facing seat in a troop carrier (however with the RFCR still having a rearward orientation), it is my understanding that CRS are not able to be installed sidewards facing in accordance with manufacturer's instructions. Unless this has changed, the line "unless no forward facing seating positions are available" should be removed.</li> <li>I believe recommendation 2.3 and its evidence base 6.2.2 needs to be reconsidered for the following reasons (Outlined in Evidence Column). My view is that the recommendation needs to be firmer i.e. Restraint devices should not be used on side facing seats. Instead, a more appropriate vehicle should be</li> </ul>	be used in side-facing seats in 'troop carriers' and similar vehicles unless no forward facing seating positions are available.
Recommendation and supporting	TDG agreed to remove the words "unless no forward facing seating	Restraint manufacturers do not support use of restraints on side facing	<ul> <li>Given the warning labelling requirements within the 1754 Standard I would have thought</li> </ul>	2.3 (CBR) Child restraints are not recommended to
included	Changed the wording to must where this is required by law. Add note to legal requirements text to clarify.	in section 6.2; CBK2.2 replace the word "should" with "must"	<ul> <li><u>Alteration to wording</u>: For optimal safety, children under 7 years of age must use their recommended restraint in rental cars.</li> <li>Rental cars are no different from private cars under the law. Suggest: "Children <b>must</b> use their recommended restraint in rental cars."</li> <li>Consider adding "Drivers of rental cars are not exempt from the road rules requiring the use of appropriate child restraints for children in their vehicle"</li> </ul>	2.2 (CBR) For optimal safety, children should use their recommended restraint in rental cars. cars.
Final Response	TDG Agreed Response/Action		Comment/Submission	Recommendation

Recommendation	Comment/Submission	Supporting Evidence	TDG Agreed Response/Action	Einal Recoonce
2.4 (CBR)	<u>Alteration to wording</u> : Children under 7 years	In section 6.2.2; CBR2.4 replace the	Changed the wording to must where	Included ''' in
vehicles that do not have appropriate forward facing vehicle seats upon which	that do not have appropriate forward facing vehicles seats upon which the appropriate child		legal requirements text to clarify.	where applicable
the appropriate child restraint can be	restraint can be properly installed.			and
properly installed.				reinforcement of "legislative
				requirements" throughout.
2.5 (CBR) Children should never travel unrestrained	<ul> <li><u>Alteration to wording</u>: Children must never travel unrestrained in vans, non-passenger</li> </ul>	In section 6.2.2; CBR2.5 replace the work "should" with "must"	Changed the wording to must where this is required by law.	Included '''' in table for 2.1-2.5
in vans, non-passenger parts of a vehicle, such as luagage compartments of cars	parts of a vehicle, such as luggage			where applicable for consistency
and station wagons, or the trays of utility	the trays of utility vehicles and trucks.		Add note to legal requirements text to	and reinforced
עבוזוגובא מוזמ נומכאא.	<ul> <li>Once again this is required by law and should be a 'must not' statement.</li> </ul>			requirements"
				נוווסמצווסמרי
2.10 (CBR) If a child between 4 and 7 years of age is	<ul> <li>SA legislation only requires that 4 -7 years use the provided lap/sash seatbelt or lap belt with</li> </ul>		Edit wording in 2.10 to clarify that this is only if they can meet the 5 step test	Text amendments
seated in an additional seat which has only a lap seat belt available, they should	harness. There is no requirement to use a booster. In most cases a booster would raise		and do not need a booster seat.	made to 2.10.
use a child safety harness with the lap- only seat belt.	the child up too high with the potential for their head to make contact with the roof of		Originally CBR 2.6-2.10 were meant to be read together, but recommend	
	<ul> <li><u>Alteration to wording</u>: If a child between 4 and</li> </ul>	In section 6.2.3; CBR2.10 replace the	rewording as suggested to ensure not misinterpreted.	
	which has only a lap seat belt available, they may use an Australian Standard approved	approved booster seat secured with a child safety harness with the lap-only		
	booster cushion with a fastened and adjusted child safety harness with the lap-only seat belt.			

Recommendation	Comment/Submission	Supporting Evidence	TDG Agreed Response/Action	Final Response
2.11 (CBR) For children aged 4-8 years, add-on high back boosters are preferred over	<ul> <li><u>Alteration to wording</u>: Change 8 to 7 for consistency with legislation</li> </ul>	Specifically, while parents found integrated boosters easier to use and made fewer installation errors	None - Boosters are not only for children up to the minimum required by legislation.	
integrated booster seats. For older children, integrated boosters	<ul> <li>Support the addition of this information.</li> </ul>	compared to add-on boosters, there was a significantly larger number of	None required	
are suitable for use in seating positions adjacent to a curtain airbag.	<ul> <li>The guidelines could also note any effects of parent-introduced or child-introduced errors in use relating to the integrated booster restraint</li> </ul>	use errors for the integrated boosters (E.g. child leaning sideways or forward enough for sash belt to slide off the	TDG agreed to add further explanation in the supporting text around why the recommendation is different for	Text edits made to 2.11.
	et al., 2017a) for Recommendation 2.11.	shoulder; unbuckling seat belt; placing the sash belt under the arm; holding sash belt away from body). Such misuse would lead to children being	different age children.	
		misuse would lead to children being not optimally protected by the integrated booster in real-world		
		situations. Thus, the larger potential of misuse by the child occupant should		
		in support of Recommendation 2.11.		
2.13 (CBR)	<ul> <li>Clarification and questioning of the</li> </ul>		Agreed to leave CBR unchanged - little	No action.
On long distance coaches, children should use a size-annronriate restraint If the	recommendation that when an appropriate		evidence around this issue apart from that cited in previous version of	
size-appropriate restraint is a rearward or forward facing child restraint, it should be	year of age (regardless of age eg. 1 week old) be seated unrestrained in their own seating		guidelines	
correctly installed in one of the supplied	position. This recommendation could be better		As per 2013: There is little evidence	
tether strap anchorages. If these seats or	WA taxis, where parents have the options of		months would benefit from the use of	
anchorages are not available, children	holding on their laps or seating in their own		a seatbelt on a long distance coach. It	
over 1 year of age should use a lap-sash seat belt and children under 1 year of aae	position, a child under one year.		was decided that the recommendation should be that 'best practice' for all	
should be seated in their own seating			children is to be restrained in their size-	
position if possible.			appropriate restraint on long distance	
2.15 (CBR) Restraints older than 10 years should not	<ul> <li>Illegal to use if over 10 years old</li> </ul>		None – there is no law requiring this.	No action.

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Recommendation Comment/Submission	nission	Supporting Evidence	TDG Agreed Response/Action	Final Response
• ed for missing r and degradation ged restraints should hould be disposed of in s they cannot be re- •	We support the addition of advice to check for missing components in second hand restraints. Research done by We found that approximately 25% of parents only had second-hand restraints which were handed from family or close friends. For this substantial proportion of parents, this additional precaution is warranted to ensure that even if the second-hand child restraint is undamaged, the seat still needs to be checked properly before used. Support the inclusion of this information.		None required	No action.
2.17 (CBR)  • We have cons <i>Restraints that have been in moderate to</i> given we asse	We have considerable experience in this area given we assess and replace child restraints	All child restraints are manufactured to Australian/New Zealand Standards	TDG discussed - Edit wording to note that restraint damage may not be	Recommendation and supporting
	given we assess and reprace critit restraints when claimed through insurance. This statement surprised me as this is not what is stated in the Standard and quoted in manuals - 6.2.6 (CBR 2.17) Moderate to severe crashes include those where any of the following occurred: there were serious injuries to any vehicle occupant, any airbag deployed, there is any visible damage to the child restraint, the vehicle was unable to be driven away from the crash, or there was any damage to the door nearest the child restraint.	Austianally New Zedalius Standards which requires us to advise users of child restraints to "Destroy the entire restraint if it has been in use in a severe crash, even if no damage is obvious". The joint Australian/New Zealand Standards committee CS/85, advise that this statement applies whether a child was in the child restraint or not. We consider a "severe crash" as being one where the main body structure of the vehicle is distorted.' There are many instances where the crash is minor but still the car cannot be driven away from the crash e.g. damage to mudguard. Where it is difficult to determine the level of crash or where glass may have fallen into the restraint, the restraint is replaced. Where has this advice regarding airbags, not being able to be driven away, etc. originated?	visible. Note: this was unchanged from 2013. The Standard statements are not evidence based.	text edits done to ensure it is clear that restraint damage may not be visible. be visible.

	Supporting Evidence		TDG Agreed Response/Action
<ul> <li>Other devices should only be used when prescribed in accordance with AS/NZS 4370.</li> <li>Add clarity on the padding used. It is acceptable to use padding that comes with the CR but the use of accessory padding is not recommended at all, also due to the complacency in quality with people purchasing them online and not at their car dealership. They are an added point of failure and designed for adult passengers unable to safely fit a vehicles seatbelt.</li> </ul>			None - covered in practice points a
<ul> <li>Add clarity on the padding used. It is acceptable to use padding that comes with the CR but the use of accessory padding is not recommended.</li> <li>Seatbelt extenders are not generally recommended at all, also due to the complacency in quality with people purchasing them online and not at their car dealership. They are an added point of failure and designed for adult passengers unable to safely fit a vehicles seatbelt.</li> </ul>	s and 370.	<u> </u>	None - covered in practice points, and guidelines scope. Guidelines not aimed at children with disability.
<ul> <li>Add clarity on the padding used. It is acceptable to use padding that comes with the CR but the use of accessory padding is not recommended.</li> <li>Seatbelt extenders are not generally recommended at all, also due to the complacency in quality with people purchasing them online and not at their car dealership. They are an added point of failure and designed for adult passengers unable to safely fit a vehicles seatbelt.</li> </ul>	buckle covers and other ( recognise the potential ri with removing a child fro in an emergency when or	er devices. We al risks associated from a restraint one of these	
<ul> <li>Add clarity on the padding used. It is acceptable to use padding that comes with the CR but the use of accessory padding is not recommended.</li> <li>Seatbelt extenders are not generally recommended at all, also due to the complacency in quality with people purchasing them online and not at their car dealership. They are an added point of failure and designed for adult passengers unable to safely fit a vehicles seatbelt.</li> </ul>	in an emergency when or devices is used, together	one of these er with the	
<ul> <li>Add clarity on the padding used. It is acceptable to use padding that comes with the CR but the use of accessory padding is not recommended.</li> <li>Seatbelt extenders are not generally recommended at all, also due to the complacency in quality with people purchasing them online and not at their car dealership. They are an added point of failure and designed for adult passengers unable to safely fit a vehicles seatbelt.</li> </ul>	potential for a child to qu	quickly learn to	
<ul> <li>Add clarity on the padding used. It is acceptable to use padding that comes with the CR but the use of accessory padding is not recommended.</li> <li>Seatbelt extenders are not generally recommended at all, also due to the complacency in quality with people purchasing them online and not at their car dealership. They are an added point of failure and designed for adult passengers unable to safely fit a vehicles seatbelt.</li> </ul>	operate such a device, ne	negating its	
<ul> <li>Add clarity on the padding used. It is acceptable to use padding that comes with the CR but the use of accessory padding is not recommended.</li> <li>Seatbelt extenders are not generally recommended at all, also due to the complacency in quality with people purchasing them online and not at their car dealership. They are an added point of failure and designed for adult passengers unable to safely fit a vehicles seatbelt.</li> </ul>	solutions are preferred.	<u>.</u>	
•			Agreed to clarify in the text to add 'not
•	s with the	16	supplied by the manufacturer with the
	's not	_	restraint'
•			
•			
			Agreed to amend text and include: 'If
nd me			their use is unavoidable, the buckle
nd	ourchasing ≏rship.		should not be located over the child."
and main seat belt	<u>a</u> -		
	to safely		

here				
need to be stated				
and does not	recommendation text.			
covered in 4.2	review text again - no change to			age should sit in a rear seating position.
the point is well	the supporting text and agreed to		are occupied by younger children"	Children up to and including 12 years of
Reviewed and	TDG considered whether to clarify in		<ul> <li>Consider including "unless all other rear seats</li> </ul>	4.1 (Recommendation)
text.			especially on capsules.	
and supporting	broader		the muslin cloths as a type of sun protection,	child and restraint are not recommended.
included in CBR	other cloths" to make statement		"blankets or other cloths" as some parents use	Sun shades or insect nets which cover the
Amendments	Agreed. Add to items list "blankets or		<ul> <li>In addition to language used, consider adding</li> </ul>	3.10 (CBR)
		seatbelt provisions (or similar).		
		complying with exemption from		
		product is only legal to use when		
		available. In most jurisdictions this		
		popular product which is widely		
		Houdini Stop is an example of a		
		one of these devices is used. The		
		from a restraint in an emergency when		
		increased difficulty of removing a child		
		potential risk associated with the		
		recommendation, can create a		
		which as noted in this		
		make it difficult for the child to undo –		
		add-on chest clips is to intentionally		
		rules for legal use. The design of some		
		longer complies with the relevant road		
		may mean that the child restraint no		
		as legal for use. In some cases, this		
		assisted by products being marketed		
		otten self-prescribe, and this is		
		report nowever that parents/ carers		
		period. Allied fiealth protessionars		
		neriod Alliad health professionals		
		child's needs and includes a review		
		with the overall assessment of the	accessories.	
		chest clip is prescribed in accordance	be considered in preference to non-compliant	preferred.
		process ensures that the use of the	those that comply with AS/NZS 8005) should	recommended. Behavioural solutions are
		accordance with AS/NZS 4370. This	standard notes that compliant accessories (i.e.	under AS/NZS 8005, are not
		allied health professionals in	accordance with AS/NZS 4370. Section 2 of this	supplied with the restraint or certified
		on chest clips are often prescribed by	on chest clips only be used when prescribed in	from the harness, other than those
	at children with disability.	real-world injury data. However, add-	availability, it is our recommendation that add-	the child from removing his/her arms
	guidelines scope. Guidelines not aimed	not been well studied and there is no	context of current practice and product	Add-on chest clips designed to prevent
No action.	None - covered in practice points, and	We note that add-on chest clips have	<ul> <li>To support the safety of children, in the</li> </ul>	3.9 (CBR)
rinal Kesponse	ing Agreed Response/Action	supporting Evidence	comment/submission	Kecommendation
	TDC Accord Bosponso (Astion		Commont (Submission	Docommondation

		limited the amount dummy occupant excursion towards the upper edge of the seat." (Tylko 2011, p. 10).		
		from gaining the necessary speed to forcefully strike the seat back. It may also reduce exposure of the head by	reed to leave enough space so the Kid's head won't hit the seat in front. It needs to be reworded so that the recommendation is clear.	
		head acceleration of 80g or greater. This blocking effect prevents the seat	While this wording is basically saying that they need to leave enough space so the kid's head	
		initially touching the seat back at installation was found to result in a	and hit their head on the back of the front seat in frontal crashes. Sometimes called 'ramping'	
		the 15 infant/child seats that were	<ul> <li>Found 9 is confusing, write the explained issue is that they slide up the rear facing restraint</li> </ul>	
		seat and front row seats was not		
		available distance between the infant	put it in the car without neur rest Juny extended to the shoulder height marker for FF	
		facing child was not supported by the	'worst case scenario' setting. Many retailers	
		seats offers better protection to a rear	Should be checked with the head rest in the	
		infant/child seat and the front row	is moveable head rest within the restraint.	
		It was also stated that The perception that greater clearance between the	children in rear facing restraints: Support the inclusion of this advice particularly when there	
		2011, p. 5).	adequate clearance from the front seat for	
		rigidity of the second-row seats (Tylko	<ul> <li>Comment on addition of advice to check for</li> </ul>	
		seat in front, or the typically higher	recommendation(s) by the CR manufacturer	
		variations between the RFCR and the	<ul> <li>Agree clarity for "adequate clearance" - check</li> </ul>	
		association was because of spacing	available."	
		could not be determined whether this	guidelines accurate reflect the evidence	
		in the draft updated guidelines, it	be reassessed to ensure the best practice	
		However, contrary to what was noted	study cited for the newly added advice should	
		the vight front percention the driver or	Interpreted. I nus, while we agree that further	
	of concern in that study.	accelerations more frequently than	third row seats – may have been inaccurately	
	from back of front seat is not an issue	associated with higher head	reduce the risk of head contact especially in	
	suggestion, since RF CRS clearance	behind a second-row bench seat were	seat for children in rear facing restraints to	contacts, especially in third row seats.
9 removed.	wording to match findings, in line with	tested when installed in the third row	check for adequate clearance from the front	front for RFCRs to reduce the risk of head
Amended - Point	Reviewed Tvlko 2011 study and revised		rited as evidence for the addition of advice to	9 Adequate clearance from the seat in
	TDG discussed point 9 at length.	As noted in this CBR, the study notes	<ul> <li>"It is noted that the study by Tylko (2011) –</li> </ul>	4.2 (CBR) cont
		venicie.	position.	seating position will have as many of the following attributes as practicable:
	centre position.	make contact with the pillar of the	that they must not be used in the outboard	rear seat, the most appropriate choice of
	evidence for not using them in the	on the side where the head could	cushions: Instructions on these boosters state	using a child restraint or booster in the
	the suggested point, but there is	some concern around lifting a child up	<ul> <li>Comment on removal or advice to use centre rear position for children seated in booster</li> </ul>	4.2 (CBR) When deciding on the position of a child
-				
Final Response	TDG Agreed Response/Action	Supporting Evidence	Comment/Submission	Recommendation

Recommendation	Comment/Submission	Supporting Evidence	TDG Agreed Response/Action	Final Response
5.1 (Recommendation) Rearward facing child restraints are not recommended to be used in front seating positions where an active front passenger airbag is installed.	<ul> <li>Rearward facing should be a 'must not' compared to the forward facing given manufacturer's instructions.</li> </ul>		TDG Advised no change, consistent with using must for legal requirements.	No change
5.3 (CBR) If it is unavoidable to seat a child in a forward facing restraint or booster seat in a seating position where an active front passenger airbag is installed, the front seat should be pushed as far back as possible.	<ul> <li>5.3 &amp; 5.4 Agree with wording. Consider adding to section 6.5 and tables A23 &amp; A24 this reference: Paine M. et al (2015) "Crash Protection Offered to Small Occupants in an Offset Frontal Crash" Proceedings of 24th Conference on the Enhanced Safety of Vehicles. Retrieved from https://www- esv.nhtsa.dot.gov/Proceedings/24/files/24ESV- 000337.PDF</li> </ul>	These words are relevant: "The [6yo] child ATD injury measurements also indicated a low risk of serious injury. The restraint system [with booster seat] appeared to work well with no sign of submarining or lap-belt penetration into the abdomen. It is likely that the head contact with the airbag would reduce head, neck and chest loads, compared with no airbag."	Reference not peer reviewed, so not included as it does not meet literature inclusion criteria	No change
5.4 (Recommendation) It is not recommended that children up to and including 12 years of age be seated in the front seat of vehicles where active airbags are installed.	<ul> <li>Vehicle manufacturers state 'under 12 years of age' - consistency of message.</li> </ul>		None - vehicle manufacturers advice is inconsistent and not evidence based	No change
6.6 (Recommendation) When using lap-sash seat belts, the sash belt should be positioned over the mid- shoulder, and not be worn under the arm or behind the back.	<ul> <li>It is a requirement under the Australian Road Rules to wear the seatbelt properly fastened and adjusted so this should be a must not a should statement.</li> </ul>		None - this is guidance on how to achieve good fit.	No change
6.7 (Recommendation) Parents are encouraged to ensure that their child maintains a good upright posture with their head back against the seat when traveling in vehicles, particularly when sleeping, as poor posture, such as leaning against the car window, can increase the risk of injury window, can increase the risk of injury	<ul> <li>The use of phrases like 'encourage to ensure' is confusing.</li> <li>Support the inclusion of this information.</li> <li>We appreciate the importance of proper posture when children travel in vehicle and supports the inclusion of this new recommendation to ensure that children maintain a good upright seating posture when travelling. However, there are concerns about the practicality of this recommendation. Parents can encourage and educate their children to maintain good seating posture when travelling in vehicles, but it is difficult to correct unintentional postural changes that might occur when a child falls asleep.</li> </ul>	It is unclear in the guidelines if there is an expectation of parents to reposition a sleeping child while driving. Furthermore, if a young restrained child falls asleep during a journey and unintentionally fails to maintain an upright posture, it is unrealistic and potentially unsafe for a parent who is driving to stop the vehicle to correct their position. This problem is exacerbated if there is no adult in the back seat to re-position the sleeping child. Recommendations provided should be practical and realistically possible to achieve, and the addition of Recommendation 6.7 should be considered with this point in mind.	TDG discussed. The guidelines are only suggesting that parents discourage children from sitting in bad postures to the extent that they can. Revise wording to say: Children should be encouraged to sit in an upright Add to supporting text: Parents should not use supplementary padding or accessories to achieve this, or lean over from the front seat to reposition a child while moving.	Amendments made according to TDG advice. Revised in PP6 & PP7 also – all other references appropriate. Additional sentences added to clarify parents shouldn't try to move children into better posture while driving.

No change	Agreed not to change this to be more specific due to potential for state legislation changes.	<ul> <li>the AS/NZS 4370 process is captured in the paragraphs that follow. The AS/NZS 4370 standard includes the prescribing of an AS/NZS 1754 restraint as the first option.</li> <li>Comments: We suggest deleting this text and rewording to refer to the applicable laws in each jurisdiction. In recent times the legislation in a number of jurisdictions has been amended – to reference AS/NZS 4370 and AS/NZS 8005.</li> </ul>	<ul> <li>explored in the first instance. If the child is at risk and their individual needs cannot be accommodated in an AS/NZS1754 approved child restraint, parents should partner with their child's allied health team to ensure correct prescription."</li> <li>If an AS/NZS 1754 compliant child restraint is not suitable, then an individual prescription is required by a suitable medical professional, and a medical certificate provided, that should be carried in the vehicle if required by the local jurisdiction".</li> </ul>	
Reworded as suggested.		suggests partnering with the child's allied health team only if an AS/NZS 1754 child restraint is not suitable. We suggest deleting these words as	<ul> <li>"Restraint of children with disabilities or medical conditions in motor vehicles".</li> <li>Broadly, it is recommended that the suitability of using an AS/NZS1754 child car restraint be</li> </ul>	AS/NZS 4370 "Restraint of children with disabilities or medical conditions in motor vehicles".
Glossary also updated.	Agreed.	<ul> <li>due to a medical condition or</li> <li>behaviours of concern"</li> <li>Comments: The current wording</li> </ul>	specialist, multidisciplinary, case-by-case assessment. Restraint use for these children should follow guidelines in AS/NZS 4370	specialist, multialsciplinary, case-by-case assessment. Restraint use for these children should follow guidelines in
Review completed and amendments to text done.	TDG reviewed PP4 and all references to children with disability and correct to use consistent wording	<ul> <li>Comments: We recommend the consistent use of "disability" throughout the document – e.g. as per 5.6.3 "Children with disability,</li> </ul>	<ul> <li>2.7 Practice Point Page 15, 6.7.2.3 Practice Point 4: "Children with additional needs (whether these additional needs are medical, cognitive, physical or behavioural) require</li> </ul>	PP4 Children with additional needs (whether these additional needs are medical, cognitive, physical or behavioural) require
Areferencing amended.	TDG discussed. Determined no further amendments to be included during this revision, as the current statements reflect the evidence base. Referencing issue to be addressed.	Considering the different advantages and disadvantages across both ISOFIX systems, it would be helpful to parents and practitioners to include a statement comparing the benefits of the rigid ISOFIX and flexible ISOFIX systems. The guidelines are currently unclear if either ISOFIX system can be recommended over the other. If this is not possible based on the available evidence, this should be clearly stated and each ISOFIX system's benefits should be summarised in the recommendation. This would help parents and practitioners make informed choices when purchasing the safest restraint and giving advice about the safety of different child restraints respectively.	<ul> <li>We support the addition of advice that no recommendation can be made about the overall benefit of using ISOFIX compatible restraints over restraints installed with a seatbelt. However, whether a preference of the rigid ISOFIX system over the flexible ISOFIX system, or vice versa, is not mentioned.</li> <li>We also note that Appendix A, Table A39 (p.143-144) includes Kapoor et al. (2011a) and Hauschild et al. (2018) as references for evidence statement 1; these studies were not included in Table 24 (p. 68) detailing the evidence statements supporting Recommendation 6.10.</li> </ul>	6.10 (Recommendation) Approved restraints that can be used with ISOFIX lower anchorages should be used as instructed by the restraint manufacturer only in seating positions specified by the vehicle manufacturer. No recommendation can be made on the overall benefits of ISOFIX restraints compared to restraints installed using a seat belt.
Einal Resnonse	TDG Agreed Response/Action	Supporting Evidence	Comment /Submission	Recommendation

Recommendation	Comment/Submission	Supporting Evidence	TDG Agreed Response/Action	Final Response
	<ul> <li>There are specialist services available for assessing the needs of children with disabilities in each state and territory, and these can be accessed by contacting the local road authority.</li> </ul>	• Comments: This is also inconsistent in each jurisdiction. We suggest deleting this wording and referring to allied health professionals.	Add reference to allied health team.	Amended wording.
PP6 Parents or carers of small infants (<2.5kg) are advised to use a rear facing restraint designed to accommodate low birthweight infants until their child is large enough for a good fit in a standard rear-facing infant child restraint.	<ul> <li>Support the inclusion of this information, however there is currently only one A0 product on the market and there is often installation issues, particularly in vehicles with heavy contouring. Harness fit and angle on the baby safety capsule is still far superior. We are currently working on a project which will support further product research in this area.</li> </ul>		None	Reviewed use of Parents or carers in PP6 & PP7.
	<ul> <li>Query why the Practice Point was referring to infants less than 2.5kg rather than the 2kg referred to in AS/NZ\$1754:2013.</li> <li>Pleased to see some guidance included for appropriate restraint of low birth-weight/ small babies</li> </ul>		The weight of the dummy used for testing is not really relevant to the fit, which is based on Clarke <i>et al</i> . Any child above 2.5kg could fit in a regular restraint.	
PP7 Parents of premature infants should minimise the time in a car seat, and observe the child while in the seat when	<ul> <li>Pleased to see some guidance for appropriate restraint of pre-term infants</li> <li>This is excellent advice. I would possibly add that some restraints may not be compatible</li> </ul>	Reference examples: <u>www.childcarseats.org.uk</u> – carrying premature and low birth weight babies evidence review	None - this is addressed in PP6.	Amendments to text addressed.
possible, to minimise the risk of apnoea (stopping breathing).	<ul> <li>with low birthweight babies under 3kg, so check with a child restraint fitter.</li> <li>We recognise the considerable body of work relating to practices supporting the safe transport of children born prematurely. In particular the American Academy of Pediatrics work, dating back to 1990, which has influenced various practices relating to hospital pre-discharge car seat challenge observation. This practice is most notable in the United States, with examples also in Portugal and the United Kingdom, to name a few. This Practice Point, whilst useful, only represents a very small part of the elements relating to supporting safe transport for children born prematurely, and if read in isolation could potentially be misleading. We believe further work is needed to better understand current practice and research</li> </ul>	Bras A, et al. Car Seat Challenge Test in the Neonatal Intensive Care Unit. 2019; 8(2):e080202.	Evidence for car seat challenge is inconsistent. No change to recommendation. Recommend further research in text.	Included in 6.7.4 Further research is required on this issue. Reviewed use of Parents or carers in PP6 & PP7. in PP6 & PP7.
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Recommendation	Comment/Submission	Supporting Evidence	TDG Agreed Response/Action	Final Response
	<ul><li>This would inform a more holistic practice response.</li><li>Support the inclusion of this information.</li></ul>			
6.1 Secondly, forward facing child restraints with internal harnesses that accommodate children up to approximately 8 years of age (Type G) are available, but there is currently no evidence to support a recommendation to either encourage or discourage the use of these restraints compared to well-fitting high back booster seats	<ul> <li>In situations where the child falls asleep the 5- point harness holds the child in position whereas the booster with seatbelt tends not to. If the child moves out of position with just a seatbelt the seatbelt will not be positioned correctly and may cause further injury in a crash. Similarly, this is the case for non- compliant children that move the seatbelt out to reach something on the back seat or put under their arm for comfort.</li> </ul>	This is what has been observed in the Safety Centre. (as per the research - Forward facing child restraints offer optimal protection for children who fit within them (Brown et al., 2006a; Zaloshnja et al., 2007).) Is this not enough to encourage Type G over booster seat use?	No change. Since there is also anecdotal evidence of poorer protection in at least one Type G, the statement remains true.	No change
6.2.2 'troop carriers' and side facing seats. 6.2.7 Australian Legislative requirements for appropriate restraint use in non-typical situations	<ul> <li>Child restraint manuals not only recommend but they warn against using restraints on side or rear facing vehicle seats - 'Do not use on any vehicle seat which faces sideways or rearwards.' Suggest removing reference this. The legislation would prohibit the use of the front seat in preference to the rear seats as children up to the age of 7 years are required to travel in the rear row and there is currently no exemption for these vehicles. See further comments in CBR 2.3</li> <li>The Queensland Road Rules (QRR) exempts drivers of booked hire vehicles from the requirements to ensure that passengers under seven years are restrained in an approved child restraint, if there is no suitable approved child restraint available.</li> </ul>		As above - this should be changed. TDG agreed to double check the legal requirements referenced in guidelines document.	Amended as per CBR 2.3 above Reviewed and amended as per requirements.
6.2.7 Australian Legislative requirements for appropriate restraint use in non-typical situations	<ul> <li>The Queensland Road Rules (QRR) exempts drivers of booked hire vehicles from the requirements to ensure that passengers under seven years are restrained in an approved child restraint, if there is no suitable approved child restraint available.</li> <li>Ride share vehicles, such as Uber are considered booked hire vehicles in Queensland.</li> </ul>		TDG agreed to double check the legal requirements referenced in guidelines document.	Reviewed and amended as per requirements.

			removed.	
advised.			word "twists": all looseness, twists or slack	
Amended as	Accept change recommended.		<ul> <li>(also see row 6.2 of Table 2.1). Include the</li> </ul>	1.4 (Fourth Bullet Point)
laws.			exemption.	
the restraint			need to be accompanied by a medical	
exemption from			be justified (e.g. special needs) and would	
medical or other			Modifications to the installation would need to	
thus require a			manufacturer's specifications be followed.	
jurisdictions and			be used as the law requires that the	
some			for use in the child restraint manual, must not	
modifications in	text		(including seatbelt extenders), if not included	
restraint	additional approvals in the supporting		to be used legally. Likewise, fitting accessories	
be considered	modifications, and may require		therefore would require a medical exemption	approaches fail.
accessories may	considered unapproved restraint		would be considered a modification and	considered for use if behavioural
at 6.3 noting that	supplied with the restraint may be		this Standard. Any accessory under the law	been certified to AS/NZS 8005 may be
introductory text	approved by the manufacturer or		are not likely to be any products certified to	accessories for this purpose that have
sentence in the	add a comment that accessories not		not a compulsory standard, there aren't and	Future designs of after-market
Added a	TDG Reviewed wording and decided to		<ul> <li>Unfortunately, given that the 8005 Standard is</li> </ul>	6.3 (CBR3.4/3.6/3.7/3.9)
Final Response	<b>TDG Agreed Response/Action</b>	Supporting Evidence	Comment/Submission	Recommendation