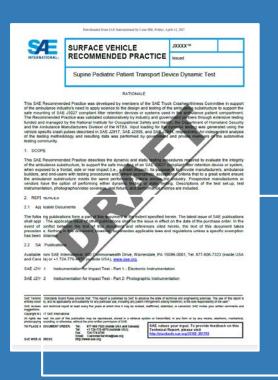


# Transporting Children Safely

Standardizing Testing
Requirements for
Pediatric Transport
Devices

# We Propose Publishing Three Unique SAE Test Methods







**Supine Pediatric Patients** 

**Seated Pediatric Patients** 

NASEM

**Neonatal Patients** 



#### Who is SAE?

- SAE stands for the Society of Automotive Engineers
- SAE writes and publishes <u>consensus</u> test methods for:
  - Ground vehicles: cars, trucks, buses and now ambulances (a form of a truck)
  - Airplanes
  - Trains



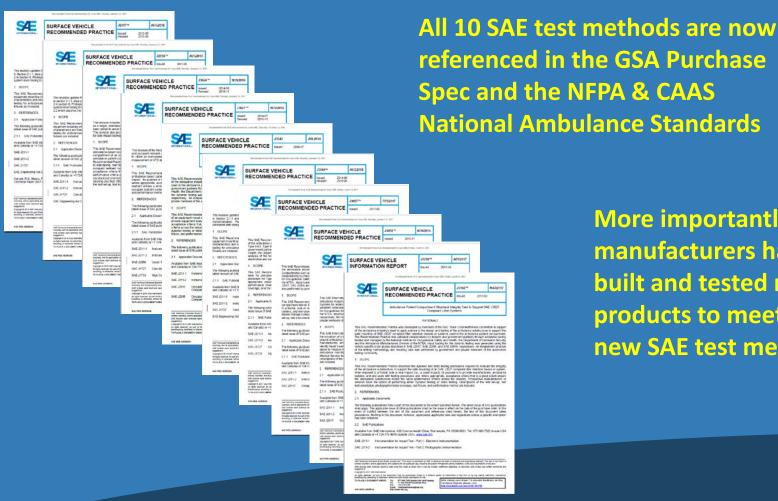
#### Why use SAE?

- SAE consensus test methods are referenced in US and international regulations and standards
- SAE provides industry leaders with opportunities to improve products collaboratively
- SAE provides GSA, NFPA and CAAS with access to independent vehicle engineering expertise
- Ambulance manufacturers have built a strong relationship with SAE and now have SAE's confidence

GSA = General Services Administration
CAAS = Comm on Accreditation of Ambulance Services
NFPA = National Fire Protection Association



#### Standardized Testing Improves Safety: **The Process Works!**

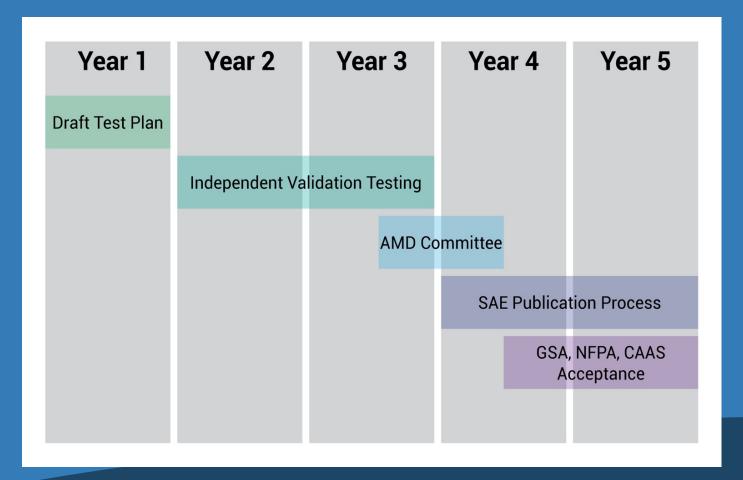


referenced in the GSA Purchase Spec and the NFPA & CAAS **National Ambulance Standards** 

> More importantly, manufacturers have now built and tested new products to meet all 10 new SAE test methods!!



# Program timeline for a each test method





## **Committee Composition**

- Independent test labs
- Product manufacturers
- Ambulance builders
- Government regulators
- EMS prectitioners



### Committee responsibilities

- Draft a step-by-step testing procedure to include:
  - Component definitions and scope
  - Patient positioning (seated or supine, fwd or rear facing, cot fowler angle)
  - Patient weight ranges
  - Test loading requirements (front, side, and rear impacts?)
  - The range of crash test dummies to be used
  - Pass/fail criteria will this include NHTSA published Injury Assessment Reference Values by dummy size?



## Validation testing – what is it?



- We will test each draft test method in an independent test lab
- Product manufacturers will be asked to provide their products for testing
- Our first tests will likely reveal needed changes to both the test method and the products tested



#### Publishing process & activities

- NASEMSO has already met with SAE to make them aware of our program
- NASEMSO will not move a "draft" test method to SAE until we are satisfied with the draft language AND have products that have passed the test
- SAE is an independent consensus body with representatives from across the transportation community
- SAE's review will likely identify areas we must address
- SAE review and publishing process will last 1 2 years



#### **Adoption of SAE Test Methods**

- Once published, each SAE test method must be referenced by a national standard: GSA, CAAS, and/or NFPA
  - GSA's Purchase Specification is updated annually
  - CAAS and NFPA are both currently updating their standards every 3 years
- Ultimately, for the SAE test method to become "effective" individual state regulators must adopt one or more of these national standards

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#### **Current Activities**

- NASEMSO Executive Director Dia Gainor leading a team to develop complete proposal package
- Seeking support from like-minded associations and industry and government partners
- Developing funding partnerships now and in coming months
- Targeting program kickoff with first subcommittee meetings in Fall 2019 at EMS World



#### **Questions and Contacts**

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