Method:

Multnomah County EMS is an all advanced life support system including first-responder fire units

Protocols allow the use of 2 doses of benzodiazepines for on-going seizures for any-aged patient without accessing on-line medical control (OLMC)

Diazepam was replaced with midazolam on January 1, 2000 in all EMS units including fire first-responder ones

Studied patients were < 16 years old, with a primary assessment of seizure, and received benzodiazepine as treatment for seizures

EMS charts were available electronically from July 1, 1998 to December 31, 2001 and were downloaded into a database

Several benzodiazepines are available for use in the field

Pediatric seizures are a frequent condition treated by EMS providers

Protocols allow the use of two doses of benzodiazepines for on-going seizures for any-aged patient without accessing on-line medical control (OLMC)

Omnimol County EMS is an advanced life support system including first-responder fire units