### Haddon Matrix Applied to the Problem of Dog Bites

<table>
<thead>
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<th>Host/Human</th>
<th>Agent/(Dog)</th>
<th>Physical Environment</th>
<th>Social Environment</th>
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| **Pre-event (Before the dog attack occurs)** | - Teach kids about dogs: don’t go near food, strange dogs, yards, mother with new puppies, etc.  
- Teach parents, elderly,  
- Socialization training.  
- Spay and neutering of dogs.  
- Dogs in fenced yards/enclosures  
- Dogs chained up  
- Install electronic “invisible” fencing | - Teach dogs not to bite—socialization training.  
- Spay and neutering of dogs.  
- Dogs in fenced yards/enclosures  
- Dogs chained up  
- Install electronic “invisible” fencing | - Community awareness of the problem  
- Leash laws passed | - Stray dog ordinances |
| **Event (During the dog attack)** | - Teach kids not to run from dogs  
- Yell for help  
- If knocked to the ground, protect head, neck and face.  
- Fight back if attacked | - Dangerous dogs are muzzled  
- Alarm system sounds if dog escapes from fence or gate is opened | - Passage of dangerous dog laws ordinances  
- Enforcement of such laws | - Stray dog ordinances |
| **Post-event (After the attack)** | - Provide first aid/trauma care  
- Victim’s general health status  
- Age of victims | - Destroy violent dogs  
- Availability of effective EMS systems  
- Distance to quality trauma care  
- Rehabilitation programs in place  
- Quarantine, Impoundment of violent dogs | - Laws requiring impoundment of violent dogs, and/or laws requiring violent dogs are destroyed.  
- Animal control programs in place to pick up violent dogs | - Stray dog ordinances |