

paper they must be so. I frequently hear the assertion that all dogs are created equal and it is just the outer shape of the skin that is different. Extensive research over many years and many thousands of interviews and event reconstructions has shown that just a handful of dog breeds cause more than one half of the public health dog attack problem in Australia. Further more the same data show that over all breeds male dogs are 6.2 times more likely to cause injury than a female dog. This is creditable information that cannot be denied.

- **Beware of bias.** There are many examples. As a public health practitioner I have a role to protect the public from unnecessary pain and suffering. This "high moral ground" may subconsciously tempt me to adjust the data to a better outcome. Thus I need to be scrupulously careful to avoid such a bias. There are many potential bias that will cause problems with credibility. The opinion of a person who dislikes dogs for example will clearly differ from a dog lover. The bias usually manifests itself in the way that the expert uses or chooses not to use arguments that support or do not support their argument. The academic imperative is always to consider and discuss creditable information that does not agree with your hypothesis and establish good reasons if possible for by-passing it, not simply to ignore it because it does not suit your required outcome.
- **Beware of hidden agendas.** These can come in many and often rather subtle forms. If a study, research, or position paper is prepared by an organisation whose members derive profit from a particular result or the cost of the work is subsidised by a commercial company who will benefit from preferred conclusion or a group of enthusiasts who already have an outcome in mind thus their contribution is already potentially flawed. It may in fact be very useful, but it will need to be examined carefully.
- **Assertions must always be supported with evidence.** Many of the papers I have read on the topic of dog management contain significant statements that have no science, data or logic to support them. If no substantial information is provided to support such an assertion then reject it and the paper as well. There are several of these presently circulating. One of the most popular attributes the dog attack problem to a minority of irresponsible owners. This has the bias of shifting the responsibility away from all dog owners and instead onto just a few wrongdoers. Nothing could be further from the truth. I have examined in detail thousands of attacks for more than a decade. Only a very small proportion could be described as truly problem owners. The responsibility therefore still remains with all dog owners and not a small, villainous band of phantoms.
- **Watch out for "smoke and mirrors".** Be cautious of papers that are lengthy, with multiple objectives, data, charts, diagrams, tables, conclusions and pages of references. It may be that it is all designed to impress and at the same time camouflage a lack of evidence. The best reports are short with a clear hypothesis, understandable method, clearly displayed results and an unambiguous outcome. Most top rate scientific papers are around 2,000 words. With a long, complex paper try to determine what the premise is, what method is being used, are the results relevant, do they support the conclusion and are the references appropriate?

Summary

These are only some of the criteria that need to be considered when examining evidence for credibility, but they are the more common and the more important. All expert opinion whether it is spoken or written is valuable, but its credibility varies. Just because it is written on paper or published in a book does not mean it is "gospel". Similarly spoken words from an established expert may not always be relevant. All of these need to be considered in context and totality for their value.

The above guidelines will help the reader and listener to be better able to recognise creditable from non-creditable information and assist those who are uncertain to at least seek another opinion.

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Peter is an Injury Epidemiologist and holds the qualification of Degree of Master of Public Health. For 20 years he has specialised in the prevention of injury in the community. Peter has researched and published widely on many hazards including the public health impact of dog attacks. In particular his work focuses on solutions as well as causes. In 2001 Peter was presented with the Child Accident Prevention Award of Australia by the Governor General for his work in the prevention of injury to children. In the same year, he was awarded the Public Health Practitioner of the year by the Public Health Association of South Australia. Peter is the public health advisor on the S.A. Dog and Cat Management Board.