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Considerations for Human and Non-human Primate Coexistence¹

As human beings expand into and destroy natural habitat, there is a concomitant increase in interactions with non-human primates. Historically, this has been defined as 'conflicts', a pejorative term that is based on an anthropocentric view of the issue. It is important to understand, however, that *activities by non-human primates considered undesirable by people are not the result of purposeful behaviour against people*. The non-human primates are only trying to survive in an increasingly diminishing and hostile environment due to human activity. They are not 'crop raiding' nor are they 'competing'; rather, they are being forced to overcome their innate fear of people in order to survive by foraging on whatever is available. Our language, therefore, should not only be free of negativity and be sensitive to the plight of the non-human primates, it should also imbue a sense of hope and optimism for resolution that emphasises the interests of all concerned.

Interactions between people and non-human primates arise primarily due to human population growth and an ever-increasing expansion into and destruction of wildlife habitat². This continues despite a growing awareness of the importance of the natural world not only for wildlife, but also for the future of the human species. In an effort to resolve unfavourable interactions, people will often use methods that are inhumane and ineffective, such as the killing of individual non-human primates. Although this may provide a short-term reduction in numbers, it is cruel and fails to address the issue over a longer period of time³. The large scale trapping and exportation of monkeys for the food and research-toxicity testing industries is also inhumane. Moreover, this has been shown to be largely ineffectual in reducing damage to human property and crops or in reducing the number of individuals long-term. For example, despite the trapping and exportation for research of 10,000 vervet monkeys over a 14 year period in Barbados, this did not have the desired effect of reducing crop foraging, as the population of monkeys remained stable due to the species' high breeding rate⁴. On the other hand, humane methods of population control can provide a long term resolution to issues such as crop foraging, urban intrusion and aggression towards human beings⁵.

Complicating this issue is the mistaken belief that free-living ("wild") monkeys are a threat to human health due to transmission of diseases. There is considerable misinformation about what diseases monkeys carry and which might be transmissible to human beings. There is very little likelihood that free-living monkeys could transmit any disease to human beings, *unless there is close contact with individuals who have become highly stressed as a result of trapping or similar human intrusions*⁶. It is more likely that they would become ill from humans, either from direct contact or as a result of human activities, rather than the reverse⁷.

The tourism industry, which brings people into close contact with non-human primates, is far from benign with respect to its impact⁸.

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This is a brief review of the subject. It is my hope that people will recognise and accept their responsibility with respect to unfavourable interactions with free-living non-human primates, and make a commitment to use only non-lethal methods of resolution.

2 [Barua 2009](#); [Dittus et al 2019](#); [Francés et al 2022](#); [Hardwick et al 2017](#); [Hill 2017](#); [Kifle & Beehner 2022](#); [Koirala et al 2022](#); [Lappan & Ruppert 2019](#); [McKinney et al 2023](#); [Parathian & Maldonado 2010](#); [Priston & McLennan 2013](#); [Shano et al 2021](#); [Sharma 2016](#); [Strum 2010](#)

3 [Siong 2016](#)

4 [Boulton et al 1996](#); [Horrocks & Baulu 1988](#)

5 [Dittus et al 2019](#); [Hill & Wallace 2012](#); [Saeki 2011](#); [Shek 2012](#); [Wallace & Hill 2016](#)

6 [Centers for Disease Control and Prevention 2016](#); [Lee et al 2015](#); [Lempang et al 2022](#); [van de Straat et al 2022](#)

7 [Afonso et al 2021](#); [Balasubramaniam et al 2022](#); [de Oliveira et al 2021](#); [Kuthyar et al 2020](#); [Leith et al 2020](#); [Molyneaux et al 2022](#); [Nandi et al 2021](#); [Wilson et al 2022](#)

8 [ABP News Bureau 2022](#); [Afonso et al 2021](#); [Badiella-Giménez et al 2021](#); [Boumenir et al 2022](#); [Chen et al 2021](#); [Cui et al 2021](#); [Davila-Ross et al 2022](#); [Molyneaux et al 2022](#); [Sengupta & Radhakrishna 2020](#); ...2

Because the long-tailed macaque (*Macaca fascicularis*) is widely persecuted due to negative interactions with people, it is important to consider its situation specifically. It is a protected species under Appendix II on CITES (Convention on the International Trade in Endangered Species, Fauna & Flora), and is important to biodiversity. A global assessment of the species by the International Union for Conservation of Nature's (IUCN) Red List of Endangered Species, the world's most comprehensive inventory of the global conservation status of biological species, was done in 2022⁹. As a result, the status of the species has been increased to **Endangered**. The IUCN assessment – Endangered A3cd – is based on the current degree of exploitation of the species, including national and international trade, hunting, capture for 'pet' trade, and killing due to negative interactions with people. These, together with ongoing habitat destruction, have contributed to the alarming decline in populations. If something is not done now to change the trend, it is expected that the species will be on the verge of extinction within the foreseeable future.

Although there is no easy solution to the problem of negative interactions with people, a continued commitment by the relevant authorities will be essential in developing a plan that works, is humane and is sustainable. A multi-prong approach is likely to yield the best results. Here are some of the most important measures to consider, bearing in mind that variables such as geographic location, human cultural issues, time of year and species of non-human primate may be important factors in whether a method is successful:

- **Sterilisation**. This should only be used for finite situations, not as a strategy for overall management. Further, it should be understood that sterilisation will take time to reduce the number of monkeys in order to result in reduced interactions. Because of this, people would still have to do what they could to discourage monkeys from causing problems (see later). It is, however, an effective long-term solution that would ensure that fewer and fewer monkeys would be involved over time. It is increasingly being used by authorities who recognize its importance to humanely and effectively provide long-term resolution¹⁰.

As for the method of sterilisation, because the monkeys are completely free-living, the most effective method would be to remove the ovaries (ovariectomy) of females, tie off their Fallopian tubes (tubal ligation) or remove part of the Fallopian tubes (salpingectomy)¹¹. Although these are somewhat difficult surgeries, once done, they would ensure that the female would not be able to reproduce. Tubal ligation or salpingectomy may be better than ovariectomy because the female will go into oestrus and mate essentially normally and, perhaps, somewhat reduce the chance of males mating with those who are not yet operated. The drugs needed for sterilising the females are not particularly expensive, a combination of ketamine and xylazine being a good one because of its ease of administration.

Another way to sterilise females (and males) is the use of chemical or similar sterilants. One is GonaCon™, a gonadotropin-releasing hormone immunocontraceptive vaccine developed by USDA-APHIS-Wildlife Services¹². It has been shown to be effective in a variety of species. There is some evidence that it

[...1 Wenner 2007](#)

9 [Hansen et al 2022](#)

10 [AFP 2012](#); [Anon 2011](#); [Anon 2016](#); [Bunluesitp 2009](#); [Giraud et al 2021](#); [isantraveller 2016](#); [leah 2022](#); [Nelson 2013](#); [Phuket News 2023](#); [Reddy & Chander 2016](#); [Saeki 2011](#); [Staff Writer 2009](#); [Sullivan 2020](#); [Thakur & Sharma 2017](#); [Vishnoi 2013](#)

11 [Deleuze et al 2021](#); [Lacitignola et al 2022](#); [Yu et al 2015](#)

12 [USDA-APHIS-Wildlife Services 2017](#)

may be effective in non-human primates¹³. Research in horses suggests that a second dose of the vaccine may increase effectiveness¹⁴. Another form of chemical castration involves injection into the testes while the individual is under anaesthesia¹⁵.

Reversible Inhibition of Sperm Under Guidance (RISUG) contraceptive was developed for human males, but is being advocated for use in non-human primates¹⁶. It appears to provide lifelong sterilisation.

Suprelorin has been used in baboons to provide a safe, effective means of sterilisation¹⁷.

Contraceptives such as medroxyprogesterone acetate not only have an effect on the females, they appear to signal lack of fertility to males¹⁸. This situation might be exploited to develop a non-invasive, olfactory means of deterring reproduction.

As with any sterilisation procedure, a method of permanently marking the animal who has been done has to be instituted in order to prevent duplicative efforts. Also, if a method that has to be repeated for continued effectiveness is used, such as a vaccine, a means of identifying the animals based on when they were done has to be developed in order to know not only that an individual has been done, but also when it is time to re-apply the method.

Although easier to do, sterilising the males will be less effective than doing the females, whether surgically or with vaccine, as it will only take one fertile male to impregnate perhaps several dozen females. Even if the alpha or other high-ranking males in a troop are done, lower ranking individuals may still impregnate females.

- **Preventive measures.** There are preventative measures that can be taken to reduce or avoid unfavourable interactions with monkeys in urban or other areas. Educating residents to make small changes to their lifestyle will be necessary. Monkey-proofing their trash receptacles¹⁹ and deterring entry into their homes through the use of suitable window screening are essential. Food or garbage must not be allowed to accumulate anywhere the monkeys can have access to it²⁰. A systematic method of scaring away the animals, by using unnatural sounds or the sounds of their predators, or other methods should be instituted and vigorously used every time there is an intrusion. For example, in some communities, specific people are assigned the duty of scaring and chasing away monkeys from residential or other areas so that a consistent message is sent to the monkeys²¹. The same principle can be used for deterring crop foraging²². In some cases, dogs have been used successfully to deter crop foraging²³ or entering areas of human habitation²⁴. It has been alleged that spreading chicken manure along access pathways will have a

13 [Dascanio et al 2014](#)

14 [Baker et al 2018](#)

15 [Karuppannan et al 2013](#)

16 [Adak 2019](#)

17 [Taberer et al 2022](#)

18 [Crawford et al 2011](#)

19 [Mazue et al 2023](#); [Peralta 2016](#)

20 [Anon 2014](#)

21 [Anon 2008](#); [van Doorn & O'Riain 2020](#)

22 [Hill & Wallace 2012](#); [Kaplan et al 2011](#); [Wallace & Hill 2016](#)

23 [Anon 2010](#); [Anon 2020](#)

24 [Anon 2020](#)

detering effect²⁵. Solar powered electric fencing can be economical and effective in reducing access to crops²⁶. Another strategy involves the use of laser pointers²⁷ or taste aversion²⁸.

Although visual deterrents such as 'scarecrows' are often quickly ignored by the monkeys, a Saudi farmer has found that a large toy in the shape of a predator can be effective²⁹. He used a tiger toy, in combination with an occasional 'tiger roar' and changing the position and location of the toy. He claimed that this has kept baboons out of his crops for many years.

It is essential that people involved with management methods understand that adverse interactions between wild animals such as monkeys and people are usually due to inappropriate behaviour on the part of human beings, not the other animals. Feeding of non-human primates (anthropogenic food) is a major problem that is complicated by various human societal aspects ranging from cultural traditions to improving mental health through interactions with the non-human primates³⁰. Because of the importance of this issue with respect to initiating and enhancing unfavourable interactions, some authorities and others have instituted bans on feeding³¹. Wild animals are typically fearful of human beings. If, however, people feed or in any way tolerate or encourage the presence of the animals, the animals become less fearful. Feeding can also make the monkeys reliant on a human food source, causing them to spend less time foraging for natural sources of food as well as other problems³². It is critical, therefore, that the public and residents be taught that no encouragement of any kind should be allowed, that cultural or self-interest aspects need to be set aside if unfavourable interactions are to be avoided. This not only includes feeding or easily-available food sources, but also attempts at being 'friendly' with the monkeys.

- **Coexistence.** In addition to the above, careful consideration of all the issues may lead to discoveries that allow for reasonable coexistence³³. For example, in Indonesia, it was found that monkeys and human beings depended on the same native tree and that cultivation of this tree might not only help the ecosystem, it might result in a reduction in crop foraging³⁴. In South Africa, crop-foraging baboons could be deterred by planting crops specifically for them some distance from the farm³⁵. A similar strategy of buffer crops has been proposed in Nepal³⁶. Moving crops away from forest habitat may be effective³⁷.

Steps can be taken to reduce the negative and often fatal impact of human developments on non-human primates. Roads are a major source of injuries and fatalities when they cause fragmentation of habitat. The December 2022 issue of

25 [Springer 2020](#)

26 [Bisht 2015](#)

27 [Anon 2017](#)

28 [Pebsworth & Radhakrishna 2020](#)

29 [Salama 2021](#)

30 [ABP News Bureau 2022](#); [Barua et al 2021](#); [Leca et al 2021](#); [Mansell & McKinney 2021](#); [Muehlenbein et al 2021](#); [Sengupta & Radhakrishna 2018,2020](#)

31 [Anon 2009-03-23,2009-05-10,2018-02-14,2019-08-21](#); [Gilhooly et al 2021](#); [Tan 2020](#)

32 [Mohd-Daut et al 2021](#); [Sha & Hanya 2013](#)

33 [Dittus et al 2019](#); [McLennan et al 2017](#); [Pebsworth & Radhakrishna 2021](#)

34 [Riley & Fuentes 2011](#)

35 [Kaplan et al 2011](#)

36 [Koirala et al 2021](#)

37 [Anand et al 2021](#); [Rundus et al 2022](#)

Folia Primatologica is a special issue on various forms of habitat fragmentation mitigation, such as using various bridges for non-human primates to cross over roads³⁸.

- **Trapping and relocation.** Success with this approach depends on having suitable habitat located a sufficient distance away to deter the monkeys from simply returning to the original site. There is no distance that has been shown to ensure their not returning, but perhaps a location at least several kilometres away might be helpful. The area to which the monkeys are to be re-homed would not only have to be suitable for them in terms of food and shelter, it would also have to be free of other similar monkeys, or else they or the other monkeys will simply be chased away. Such a translocation of monkeys took place in India in 1997, when 600 rhesus macaques were successfully moved to different sites following an increase in monkey-human interactions³⁹.

Other sources of additional information are available. The People and Wildlife Initiative⁴⁰ is a communications forum for human-wildlife coexistence issues and innovative solutions. The IUCN SSC Human-Wildlife Conflict & Coexistence Specialist Group provides specific and general information⁴¹. The Ministry of Environment and National Beautification, Barbados, has published a reasonably comprehensive review and assessment of various methods of resolution⁴². The Jane Goodall Institute has put together a detailed program on co-existence solutions for long-tailed macaques specifically⁴³ as has the National Parks Board in Singapore⁴⁴.

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38 [Folia Primatologica 2022](#)

39 [Imam et al 2002](#)

40 [WCRU 2021](#)

41 [IUCN 2022](#)

42 [Springer 2020](#)

43 [Jane Goodall Institute 2022](#)

44 [Loo 2022](#)

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