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The Green Mamba

This short story tells how a zoo keeper from the University of Ibadan Zoological Garden in Nigeria, West Africa, was bitten by a green mamba snake, not in the Zoo but when he was out and about one day. He was treated in hospital with antivenom but this was soon followed by a second big shock. To avoid embarrassment to those directly involved in this story, I have given false names to the three main characters. The events described here took place early 1970s

by Bob Golding



Green mamba - head and skull showing fangs.

As Director of the Zoological Garden at the University of Ibadan in Nigeria, West Africa, I began my working day at around 8.15 most mornings. I drove my car the short distance from my home to the Zoo, both located on the large University campus. The matters that needed my attention differed from one day to another. On arrival I first walked around at least some sections of the Zoo and talked to the staff as they went about their early morning checks on the animals and started work on the daily cleaning and feeding operations. In this way I became informed quickly of any births, deaths, sickness, staff problems, and so on. I also had a preliminary discussion with my secretary when she updated me on those administrative matters that would need attention that day.

My office was located just inside the Zoo, near the main public entrance, and was accessed by a flight of concrete steps, the bottom of which was located between a large, wire mesh tree hyrax cage and a hinged tortoise enclosure. The same solitary female tree hyrax lived there for most of the 16 years I was there. She was already in the Zoo when I arrived there and, unfortunately, we never managed to find any companions for her. I went up and down those steps many times most days and often glanced into her quiet, secret little world, partly hidden by the plants that grew over the cage.



Newly hatched hinged tortoise (*Kinixys homeana*) with egg of sibling also about to hatch

In my office, fixed to one wall, was a large, glazed vivarium. Its interior was furnished with a few slender branches that we cut and renewed regularly from a particular tree growing nearby. First time visitors, in particular, often assumed that, because it was my office and in the Zoo, there must be some sort of animal in the vivarium and they usually took a good look inside it as they entered. Often, as I was eventually told, they could at first make out only the branches. Then suddenly they noticed that, unmoving and intertwined with the branches, was a slim, green snake about 1.5 metres long. The snake's body language matched the natural rhythms of the branches with such magical symmetry that the snake sometimes just seemed to disappear into thin air - and then reappear again.

This snake was a young Jameson's green mamba (*Dendroaspis jamesoni*). I shall tell you a little more about it because it was a green mamba that later brought about the near tragedy that is the focus of this story.

Mambas are venomous and their bite is dangerous to humans. There are several species of green mamba, and there is also a black mamba, and each



Eggs of the Jameson's green mamba (*Dendroaspis jamesoni*). These eggs have soft, parchment-like shells and are laid by the female in a moist, hidden location on the ground. When the young snakes are ready to hatch they slit the eggshell open using a temporary egg tooth at the front of the upper jaw.

is found in a particular region of Africa. Mambas regularly bite people while working on their farms or in the African countryside and many of them die. Having said that it would, in my opinion, be unusual for a mamba to attack a human being without itself being attacked or threatened in some way. Certainly all the wild green mambas I encountered in Nigeria made every effort to move away quickly from any threat or human disturbance near them.

Green mambas are attractive snakes to look at, with green or yellow-green scales, some with black edges. I enjoyed having this one living right behind me in my office. One important reason for keeping it there was to introduce the concept of managing and handling venomous snakes to selected zoo staff in readiness for the planned construction of a new reptile house. The mamba in my office had been brought to the Zoo by a farmer who had captured it on his land without



Jameson's green mamba (*Dendroaspis jamesoni*). It was a green mamba that bit Peter Aruba, a zoo keeper at the University of Ibadan Zoo. Mambas are fast moving, agile snakes both on the ground or in the branches of a shrub or tree. Mamba venom is potent, can kill a human and attacks the victim's central nervous system. However, before the indiscriminate killing of any snake species is encouraged, and whether dangerous to man or not, it is important that we consider carefully that species' role in its ecosystem as, for example, it may be routinely destroying large numbers of rodents and thus possibly benefitting agricultural production.

harming it; it was then very small and very young. It would have hatched a few weeks previously from an egg similar to those in the photo on page 2 of this story, laid in some moist and sheltered place by its mother. The eggs in the photo are just over 5cm long.

Since then the mamba had grown and appeared to have become entirely accustomed to the disturbances associated with the close proximity of humans, for example the regular moving objects it could see through the glass sides of its vivarium and the vibrations transmitted through the ground and possibly through the air from nearby human activities. The snake gave every indication that it was living contentedly in a suitable environment. It appeared to be alert but unstressed and totally unbothered by movements around its vivarium. It ate a dead mouse every few days and generally kept an eye on things in my office. It always looked spectacularly healthy. I am sure that if snakes could smile, that mamba would have had a permanent grin on its face.

My daily working routine usually included a break from around 1.30pm when I drove from the Zoo to the Senior Staff Club for a beer and an exchange of news and views with friends and colleagues from the many different

departments and areas of activity of the University of Ibadan. In the general scheme of things, the Senior Staff Club was extremely important for many of us as it was the main social centre where staff from a number of countries, as well as the many Nigerian staff, could gather, talk, play tennis, swim, play darts, argue, play liar dice, discuss virtually everything and form friendships, many of which have lasted until today. For several years I was elected Social Secretary of the Club and was the first to bring a live band from Lagos for a memorable Saturday night event with amazing music and non-stop dancing. I believe that many of us enjoyed and benefited from the international mix of people who congregated in that Club and that in many cases, certainly mine, our experiences in Nigeria changed us and changed our lives permanently.

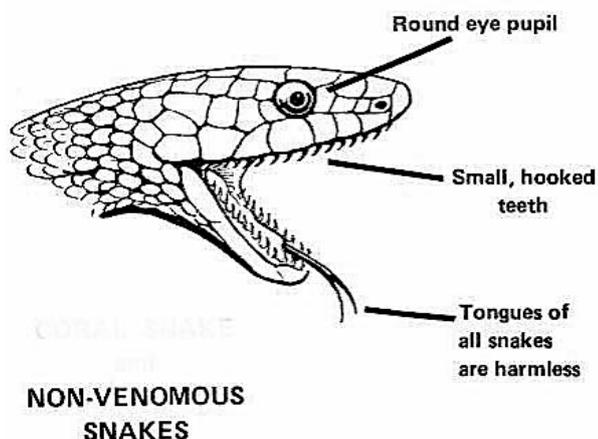
From the Staff Club I drove home each working day for a late lunch, had a short siesta (remember, this was tropical West Africa), then returned to the Zoo for the remainder of my working day.

At the Zoo I usually left routine matters such as the day to day control of zoo staff and the allotment and management of tasks to the head keeper, Simon Ukoli, who kept me fully informed of all important animal and staff matters. Thus I learned one day that zoo keeper Peter Aruba had asked the head keeper if he could take two days' casual leave the following week in order to attend to some family matter in Lagos. Simon agreed to this and made alternative arrangements for Peter's work at the Zoo to be done on those two days.

Lagos is about 100 miles from Ibadan. A one-way road journey between the two usually took between two and three hours, occasionally more, depending on the weather, time of day and the level of traffic. A few days later, on the agreed day, Peter went to the motor park in teeming central Ibadan to negotiate the cost of a ride to Lagos. He soon agreed a price with the driver of one of the many taxis and passenger-carrying vehicles and climbed aboard. These vehicles were privately owned and hurtled all day between Ibadan and Lagos and back again. They offered a passenger service to the many less well off Nigerians to and from virtually all parts of the country. The largest of these vehicles were known as mammy wagons but there were also other passenger vehicles of different sizes and capacities. Mammy wagons had slogans painted across the front, above the driver's cab. 'Sea Never Dry' and 'No Condition is Permanent' spring to mind. These vehicles often literally overflowed with passengers and it was a common sight to see mammy wagons travelling at high speed along the main road with passengers apparently glued - unmoving, arms and legs outspread - to the outside of the truck, clinging like limpets to a sunken ship.

Nigeria na wa oh!

The following day Peter, having sorted out his family matter in Lagos, was due to return to Ibadan. As it happened I had a long meeting to attend, away from the Zoo, and was not there for most of that morning. I finished my



Teeth as in a typical, non-venomous snake – solid, sharp, backward-pointing for holding often still-struggling prey while it is hooked back to the throat by alternate action of each side of the lower jaw. *See page 8.*

meeting at around 1.00pm and drove to the Senior Staff Club for my usual early afternoon break with colleagues and without returning to my office. An hour later, as I was preparing to leave the Staff Club to drive home, I suddenly saw one of the zoo keepers, Johnson Udowu, walk into the Club through the main entrance. He seemed agitated and pushed his way through the people talking at the entrance area and strode quickly into the Club premises, looking all around him as he did so.

I was slightly surprised to see Johnson there because, within the University, and indeed many other organisations in Nigeria, there was a fairly clear social demarcation between the so called senior staff and the junior staff and normally the only junior staff inside the Senior Staff Club were those that worked there. Not that many of us actually approved of, or directly contributed to, this separation, but that was the way it was, and the arrangement was as widely accepted by Nigerian staff as others. The other reason I was surprised was because of Johnson's unusually agitated demeanour. He looked around, a worried frown on his face, apparently looking for someone or something. I assumed, rightly as it turned out, that he was probably looking for me so I stood up and called his name. He hurried over and, without further ado, told me he had some bad news.

What bad news?

Peter Aruba had been bitten by a green mamba earlier that morning on his way back from Lagos! He was now back in Ibadan and had been admitted to the University College Hospital, three or four miles away from the Zoo. Johnson was just coming from the Hospital where he had spoken with Peter.

I remember I was so surprised and shocked I could hardly speak.

I asked Johnson to continue. Peter had told him that, several miles out of Lagos on the drive back to Ibadan, his vehicle was forced to slow right down by some sort of commotion near the side of the road. People were yelling and rushing around. Peter soon learned from one of the bystanders that a large snake had appeared earlier from somewhere and 'attacked' a local woman whose fate was unclear. The locals had chased and trapped the snake in a large bush or shrub nearby. They now wanted to kill it but were not sure how to go about this without being bitten by what they assumed was a snake that could kill.

Peter had then asked his passenger vehicle driver to wait for just a few minutes, explained to everybody there that he was from the University of Ibadan Zoo and offered to try to catch the offending snake and take it away with him back to Ibadan.

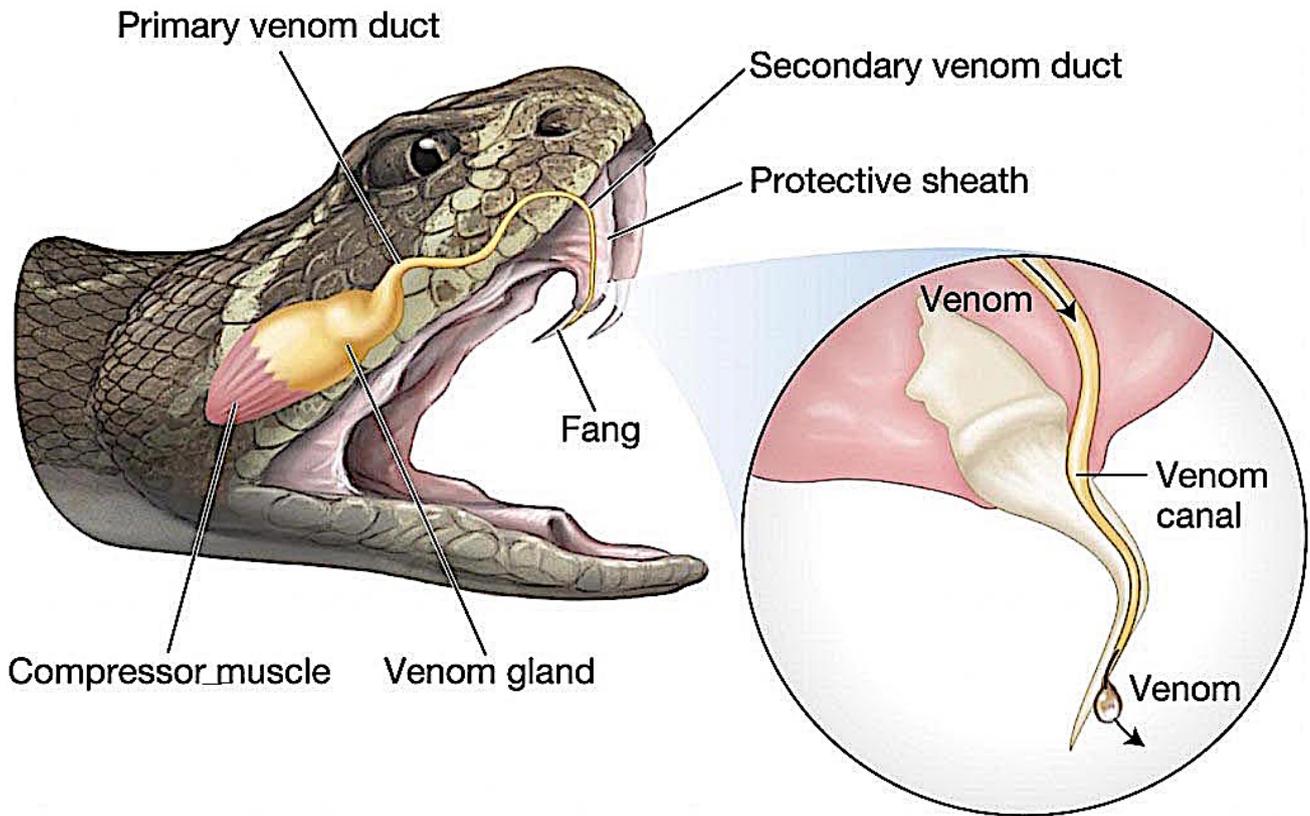


Fangs of a back-fanged snake; they are located at the back of the upper jaw on each side. The venom is conducted to the wound in the victim's soft tissues by the open groove along the fang. *See page 9.*

Peter was told to go ahead - the locals had probably heaved a big sigh of relief after listening to what he had to say. Peter didn't waste time. He walked up to the large bush armed with a couple of sticks someone had given him and peered into the interior of the bush. He spotted the snake among the branches, scared it into action with his long stick and, as it moved through the branches near him, reached into the bush with the much shorter stick to hook the snake rapidly sideways out of the bush and onto the ground. From there he hoped he could pin the snake down and grab it behind the head.

Alas, it was not to be. As Peter reached into the bush with the short stick the mamba bit him on the hand!

It was only during those last few minutes that Peter had recognised the snake as a Jameson's green mamba, a species he was familiar with. As he was wearing no protective clothing, not even padded gloves, and was generally quite unprepared for dealing with a mamba, he should really have walked away. But... what is it they say about the benefit of hindsight?



Showing some of the features and principles involved in a venomous snake bite. The fangs shown here are typical of a viper's fangs in that they are long, hinged and fold back along the roof of the mouth when the mouth is closed. Note the venom gland and the compressor muscle overlying it which, when contracted, forces the venom along the duct, through the hollow fang and into the victim's tissues.

I am interrupting here, just briefly, the story of Peter and the mamba bite as I would like to explain one or two matters that may assist the reader. When I say that Peter was bitten by a green mamba I wonder what that conveys. I know that many people don't really understand what a snake bite is, what it



Showing the fangs of a viper. The drop of liquid hanging from the nearest fang is venom that has oozed from the hole at the tip. See page 9.

involves or what happens to a prey animal - or for that matter to a human being - when bitten by a venomous snake. A little more information on snakes, in particular venomous snakes, may help to clarify some of the issues raised here. I shall soon return to Peter in the hospital and what happened to him (little did I know that another big shock was to come).

Snakes vary enormously in size and form and are found in many different habitats throughout the warm and temperate regions of the world. Some live in deserts, some in the sea where they swim as well as many fish, some are found in trees from

where they can glide down to lower branches or to the ground, some are large constrictors measuring up to ten metres long, some have a body smaller in diameter than a human finger and hide away just below the surface of the soil.

There are around 3,600 species of snake worldwide of which around 770 are venomous. Thus most species are non-venomous and have relatively simple teeth that typically are long, sharp, solid and point backward. Their function is to hold the prey animal, often still alive and struggling, securely in the mouth as the snake hooks it

further back toward its throat prior to swallowing it. The snake moves each side of its lower jaw alternately forward and backward. As it moves one side backward, the teeth on that side also hook the prey backward. A snake such as the non-venomous grass snake, found in the UK, has only these simple,



Jameson's green mamba (*Dendroaspis jamesoni*) showing the two fangs. It was this species that bit Peter on the hand on the Lagos – Ibadan road. Unlike a viper's fangs the mamba's fangs are not hinged. They are fixed in the position seen here and are located right at the front of the mouth for easy and rapid injection of venom.

oblique or elongated opening just behind the sharp tip. At the base it is connected to the snake's venom gland by a small duct or tube. When the venom is forced along the duct by the contraction of a muscle overlying the



This fang was removed from a dead Gaboon viper in Nigeria. A wire has been threaded through it to show the route of the venom when the viper bites. The fang is hinged at its base (on the left in this image). An amazing design in miniature from the natural world...

solid teeth, the sort of teeth you would expect to find in a snake that feeds on live frogs, toads or fish and is not a constrictor.

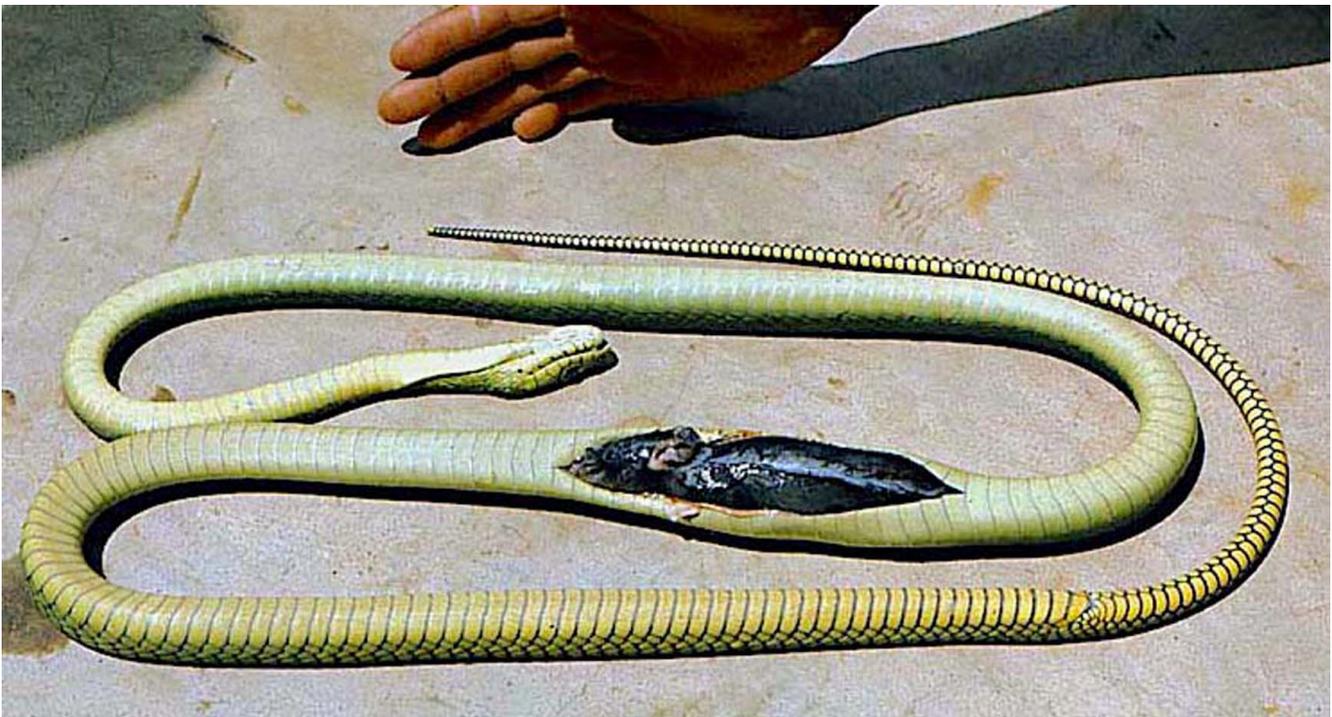
A venomous snake has modified teeth called fangs. Fangs vary in design with the different species of snake but are essentially long, sharp, hollow or grooved teeth that have evolved to inject venom into prey animals and thus kill or immobilise them before they are swallowed. A mamba's fangs remain fixed in position at the front of the mouth. Each one resembles a hypodermic needle in that it is hollow and has an

gland, the fang delivers the venom into the victim's soft tissues from the tiny opening just behind the tip. Most highly venomous snakes have two functional fangs, one on each side at the front of the upper jaw. Most also have simple, solid teeth, as described above which, just as in the non-venomous species, enable the snake to hold, manipulate and swallow its food.

The fangs of large vipers such as the Gaboon viper and rhinoceros viper are also hollow but they are longer and more curved than the mamba's. To accommodate the greater length they are hinged at the base and when the viper closes its mouth they fold back and lie along the roof of the mouth. As the viper strikes, the mouth opens wide and the fangs hinge forward and downward into an erect position. As the snake makes contact with its prey, the fangs pierce the body and inject the venom. Usually the snake then opens its mouth and withdraws from its prey – all in the blink of a (human!) eye. The simplest form of snake fang has an open groove along its length that conducts the venom. Species with such fangs are referred to as back-fanged snakes because the grooved fangs are in most cases at the back of the upper jaw (*see photograph page 6*).

The reader may wish to take another look at the photograph of a Gaboon viper's fang on page 8. The adult viper was brought to the Zoo for sale. It had been badly injured when some people had tried to kill it and it soon died. I then removed its fangs taking care to insulate my hands from the blood and fluids on the damaged mouth and head. Three separate fangs were grouped together on each side of its mouth, but in each group there was one fang that was longer than the others; I believe it was probably this longest fang that was in active use at that time and delivered the venom into the prey animal. One only has to look at these fangs to understand what little jewels of natural engineering they are. I am sure that whoever designed the hypodermic needle must first have studied a Gaboon viper's fangs!

Snake venom may be divided into two general types, haemotoxins and neurotoxins. Haemotoxins break down the blood cells, circulatory system and muscle tissue; neurotoxins attack the central nervous system and can cause breathing difficulties and heart failure. There are, however, many variations of both types of toxin as well as combinations of the two. Species vary considerably from being only mildly venomous to species such as mambas and vipers that can kill large animals. Snake venoms presumably evolved principally to enable venomous snakes to secure food. However, some species also use their venomous bite defensively and respond accordingly to danger or threats. Venom effectiveness is often related to the size or speed of the prey animal and how far it can travel after being bitten;



This green mamba (*Dendroaspis jamesoni*) was brought to the Zoo already dead. It had been killed on the University campus by young men who saw it in a tree and managed to knock it down with long sticks; they then killed it. The rodent in its stomach is a black rat, an imported vermin species that now seems common in Nigeria. It is probable that green mambas kill large numbers of rodents every year.

the snake must be able to find it fairly quickly by following its scent. Most snake species are non-venomous and prey on animals such as frogs or fish or indeed other animals that can simply be seized in the teeth and swallowed alive without the snake being harmed. However, pythons and boas and indeed many other non-venomous species kill their prey by constriction before swallowing it.

We can now return to the moment when Peter was bitten by a green mamba on the Lagos Road. Peter's zoo keeper friend Johnson was with me in the University Staff Club and was telling me what had happened to Peter.

As one would expect, immediately following the mamba's bite Peter was deeply shocked and anxious about what would now happen to him. Apparently he was already experiencing some pain at the site of the bite although he could still talk and stand normally. The driver of Peter's taxi vehicle and some of his fellow passengers took over; none of them knew anything about snake bite of course but they assumed the mamba's bite could kill Peter and rushed to help him. They all agreed that the best place to take Peter was to the highly regarded University College Hospital (UCH) in Ibadan although they were still many miles away. On arrival there about an hour or a little more later, Peter was admitted immediately. He asked the hospital staff to please get a message to the Zoo to inform them of what had happened. In my absence from the Zoo that day, Johnson was despatched immediately to the hospital and was allowed to visit Peter in his ward.



Copperhead (*Agkistrodon contortrix*). Venomous.

Johnson was told by a nurse that the hospital had a stock of snake antivenom and that Peter had already been treated with this. However, Johnson reported that Peter looked and sounded very unwell; in particular, he was having difficulty with his breathing.

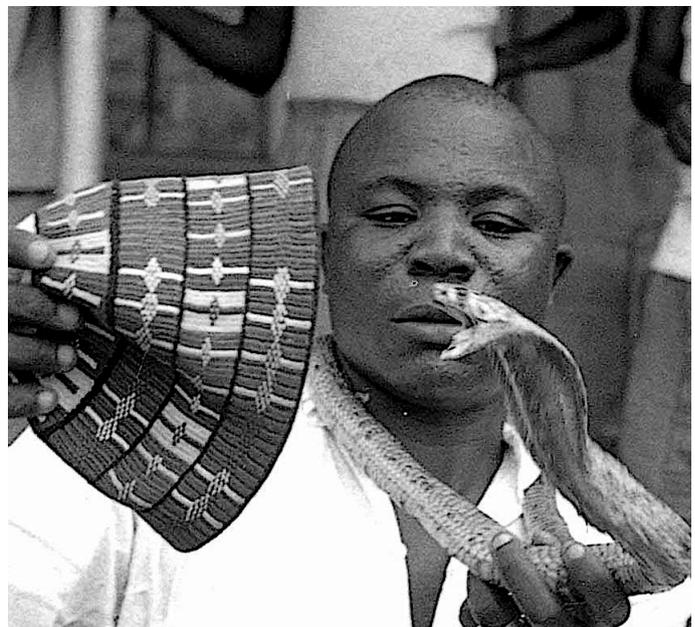
As Johnson related all this to me I was hugely relieved to hear that the hospital had treated Peter with antivenom. This medication is produced by injecting a horse or a

sheep with small but increasing quantities of venom from selected species of venomous snake. The host animal then reacts by producing antibodies in its blood. Blood is later removed and refined to form the antivenom which is injected into a bitten person to neutralize the effect of the venom.

Before I heard all this via Johnson, I had no idea whether or not the hospital stocked antivenom, or at least the correct antivenom. However, I hadn't been too concerned because I had my own supply in the Zoo in case of an accident there. When necessary, I brought a supply back with me from the UK when I returned from my annual leaves in the summer.

After Johnson had given me this information I felt somewhat more relaxed about Peter's situation, even though I hadn't yet seen him. At least Peter was in the right place, with modern medical expertise available to treat him. I felt able to finish quickly what I had been doing at the Staff Club and then asked Johnson to go with me back to the hospital so that I could see Peter for myself.

I drove with Johnson the three or so miles to the University College



Hausa man from northern Nigeria with Egyptian cobra (*Naja naja*). He appeared to take quite unnecessary risks when handling this snake. When he allowed me to inspect the snake I discovered that its fangs had been pushed crudely out of place and removed. Not that this eliminated all risk of envenomation.

Hospital. On arrival we were taken to Peter's bedside where a curtain had been drawn around his bed.

I was immediately concerned at Peter's condition. He lay in bed looking ill and frightened. He said the site of the bite was somewhat painful but not unbearably so. However, my main cause for concern was that he couldn't breathe very well and was tending to gasp for breath; and he told me these symptoms were becoming worse. A mamba's bite affects the victim's nervous system and, although this was the first time I had observed anybody suffering from any kind of snake bite, I assumed that the snake venom was affecting the nervous supply to the muscles controlling Peter's breathing movements. It was then around three hours since Peter had been bitten. He confirmed he was quite certain that the snake that bit him was a Jameson's green mamba and was able to give me a little more information about what had happened. However, I was soon advised by a nurse to leave him in peace to continue his treatment and recovery.



Gaboon viper (*Bitis gabonica*). Venomous.

I still felt uneasy though. Peter didn't look well at all. As I have said, I had never observed anyone who had been bitten by a venomous snake, and I was aware that individual conditions and circumstances can vary the victim's response to a bite, in particular the quantity of venom injected. There were questions I wanted to ask but there was nobody for me to talk to in any detail except the nurses. The nurse in charge confirmed to me that the doctors had injected Peter with a dose of snake antivenom very soon after his admission but that it could be some time before Peter began to improve. There was nothing more I could do.

I bade Peter farewell and said I would come to see him tomorrow morning. I went over to the senior nurse, who was sitting behind a large table, and thanked her. I was about to walk off when a small carton sitting there on the table caught my eye. I recognised the same logo and packaging as on my stock of antivenom at the Zoo. I remarked on this and the nurse confirmed it was indeed the antivenom they had used to treat Peter. Just being curious, and with the nurse's permission, I picked up the carton and took out the printed sheet inside to look at the complete list of venomous snake species

covered by this particular antivenom. Several species were included there, all of them indigenous to that part of West Africa, and were identified by their scientific names only. Common or English names were not used. I looked down the short list for *Dendroaspis jamesoni*. I couldn't see it. I couldn't see any other species of mamba either. That's strange, I thought, and checked again. No, it's definitely not there. Not there!! The implications of this omission suddenly hit me. Maybe Peter had been given the wrong antivenom!

For the second time that day, my heart missed several beats. Could this be possible? Johnson was still with me. I almost shouted at the senior nurse



Egyptian cobra (*Naja naja*) from northern Nigeria.
Venomous.

and we had a brief and noisy exchange. However, she sent a colleague to fetch a doctor.

I waited no longer. Leaving Johnson there, I ran outside to the car park, leaped into my car and sped back to the University campus and the Zoo. Fortunately I knew exactly where the Zoo's stock of antivenom was kept, grabbed a carton and drove back to the hospital at speed. When I arrived back at Peter's ward about forty five minutes later a doctor was by his bed; he was cautiously receptive to what I had to say. After a short discussion, he accepted that he and other hospital staff simply had no reliable way of knowing the identity

of snakes that bit their patients, largely because they hardly ever saw the snake. They could not even be sure that a polyvalent antivenom covered a particular species.

Without further ado, however, and right there before me, Peter was treated with the correct antivenom from the Zoo and, after some calming down all round, I again said good bye to him and the hospital staff and left to go home.

I am delighted to say that Peter showed an improvement soon after this which continued over the next few days. His recovery was essentially uneventful and in due course he returned to his keeper's job at the Zoo. The entire drama of his snake bite, however, including that quite unfortunate and

unnecessary second scare, lived with some of us for some time. At least the episode had a positive effect in that it impressed on the Zoo's animal staff, especially the reptile keepers, the need for careful and thoughtful preparation before attempting to handle any venomous snake. A general feeling persisted for some time that Peter had had a very close shave indeed! I hope, too, that the staff at University College Hospital were able to review their approach to snake bite treatment and make changes that ensured the correct antivenoms were always used for snake bite patients.

* * * * *

That's the end of this short story. I just want to make a few, probably rambling, points in the context of the future of venomous snakes, planet Earth and indeed Homo sapiens.

The reader is probably aware of the deep concerns that increasing numbers of scientists now have for the future of our planet. In fact one can hardly be a responsible citizen at this time, at least of one of the more developed



Banded krait (*Bungarus fasciatus*). Venomous.

countries, and be unaware of some of the many proven ecological changes that have already taken place in our forests, our oceans, our back gardens and across the planet. In many cases the changes are continuing all around us and seem to be gathering pace. We are seeing the accelerating extinctions of the larger land vertebrates, the acidification of the oceans, the continuing changes in the gases that swirl around our planet, the non-stop destruction of vast areas of

ancient forest, and man's staggering consumption of the earth's non-renewable natural resources. These and other changes are seen by many as basically unstoppable processes that will continue and end only with the self-extinction of Homo sapiens.

Despite all the warnings, outrage and advice from the many concerned professionals regarding what is already happening to the planet and how we should deal with it, the vast majority of ordinary people either don't understand the seriousness of what is happening or they simply don't want to know. Life in many countries is pleasurable and fulfilling for tens of millions of people, while for many millions of others it is a dreadful, filthy, poverty-stricken struggle. Either way, and for different reasons, the masses are preoccupied with their lives and most politicians are reluctant to say anything too controversial. Maybe they just don't get it either!

Venomous snakes have an additional layer of human dislike or even repulsion to contend with. Having recently written this story about a green mamba, I have been reminded of just how much snakes are feared and disliked by people virtually everywhere. It is a fact that venomous snakes kill somewhere between 80,000 and 120,000 human beings around the world each year. Many of those dying in this way are poor, uneducated and have no effective political or economic voice to support them. It is unfortunate but understandable, therefore, that the mention of venomous snakes gives rise to mostly negative human reactions and comment. Quite simply, they are seen as snakes ('Ughh!'), are venomous ('Let's run') and they kill a lot of people. Thus most people fear them and will kill them if they can. It seems I am unusual in that I find most snakes, venomous or otherwise, fascinating and beautiful. I have had snakes around me for most of my life.

My earnest hope is that, over the next few decades and beyond, the alarm bells that we now hear so often and so loudly become a little less shrill as we discover new ways of existing within stable ecosystems on this planet, ie, without killing off or damaging other species. And my strong personal wish and hope is that snakes will be there as a part of the scenery and, in particular, that venomous snakes and people will be able to live in some sort of proximity without conflict.

The fact is that venomous snakes need friends and I have declared myself to be one. I shall, at least for the time being and in my own small way, promote their value and support their continuing existence on this planet while looking for ways in which the often deadly results of their contact with people can be prevented. Maybe all this conjecture amounts to pointless time wasting. However, I want to be able to look to the future with a degree of optimism and remain motivated to do what I can to ensure a future for snakes as well as the planet itself. Impossible, unrealistic? Quite possibly. Any good reasons to believe that future events will in any way reflect my personal ramblings? No, absolutely none.

Maybe a miracle will yet come to the rescue of snakes, mankind and the planet itself.

Who knows? Chi sa?

The End

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