Dehorning rhinos: why there may be a case for doing it

①The large bull rhino was about a hundred metres away. The jeep carrying the <u>darting</u> team moved closer, there was a popping sound and the bull <u>twitched</u> and moved off with a <u>dart</u> clearly visible in his upper leg. Within two minutes he was down on his knees. The dehorning team approached quickly, attached <u>blinkers</u> to cover his eyes as a group of ranch hands held him down and attached a rope to his back leg. (<u>dehorn</u> (動物の) 角(つの)を取る <u>twitch</u> \mathcal{O} く \mathcal{O} く \mathcal{O} する, ひきつる <u>dart</u> 投げ矢 blinker 目隠し革)

⁽²⁾Things then happened quickly but with an assured and rapid routine. The vet monitored the rhino's vital signs - it was sedated but not unconscious and not obviously alarmed or in any pain. The dehorners measured and recorded the circumference and height of the horn and calculated how much to remove.

③Once the measurements were done, a line was carefully drawn around the large front horns and the smaller rear ones leaving about four or five centimetres below the cut line to ensure growth would continue and there would be no damage to the horn <u>bed</u> where it joins the skull. A battery driven saw was then used to cut through the horn, which took little more than a minute. Someone sprayed cold water on to the horn to prevent over-heating and burn injuries. ④Then the horn was off. The team cleaned up the edges of the horn stump and gathered up any <u>shaving</u> or horn dust and sealed them in marked bags. The two horns were measured, weighed and marked with <u>indelible</u> ink. When a rhino is first dehorned DNA samples are taken for future identification. (bed 爪床 (そうしょう) 動物の爪の基部を包む肉 shaving [通例複数形で] 削りくず indelible 〈インクなど〉消えない〉

(5)The main horn from the first rhino I saw dehorned weighed 565g, the smaller horn 67g and the shavings 45g. This would be worth an estimated US\$40 000 in Vietnam and China, the main markets for poached ivory horn. That's according to rhino owner John Hume and Kruger Park Chief Ranger Nicholus Funda, who gave me the latest estimates of horn prices. The horns and shavings from dehorned rhino are kept in a bank safe or secure depository.

⑥Dehorning is practised on many South African private reserves and is seen as a way of <u>deterring</u> poachers. It has even been used on some parks and <u>conservancies</u> in Zimbabwe and Namibia, according to a study on the effects of dehorning. Dehorning itself is not hugely controversial - what is, is whether the harvested horn should be sold. This will be debated, with <u>vehement</u> arguments on both sides, at the <u>CITES</u> conference in Johannesburg in September 2016.(*deter* 思いとどまらせる conservancy 資源保護団体, 自然保護管理地区 vehement 熱のこもった CITES = Convention on International Trade in Endangered Species of Wild Fauna and Flora 絶滅のおそれのある野生動植物の種の国際取引に関する条約)

A ranch full of rhinos

中略 ⑦Dehorning doesn't totally stop poaching as there is still a band of horn left which could be hacked off. But evidence from <u>peer-reviewed</u> studies has shown that dehorning, when widely advertised, does deter poachers. They will seek to find the most lucrative targets according to a study and will generally avoid farms and ranches with dehorning and good security. Even so, Hume has had attempted incursions by poachers. (peer-review ピアレビュー 論文や研究費申請書などの同じ分野の学者による審査》)

(8)The horn grows back on the rhinos and Hume dehorns his every 18 months to two years. The same study of dehorning suggests there is no long-term impact of dehorning, as long as all rhinos in an area are dehorned. In the wild, there could be reduced ability of cows to defend calves from predators like hyenas and lions.

(9) But on ranches, there is no obvious change in behaviour or health. When I saw the two dehornings there seemed to be no great trauma involved and the rhino were on their feet and walking away in less than 15 minutes.

10 The horn is made of <u>keratin</u>, the same substance as hair and fingernails. Rhino horn has been used in Chinese traditional medicine for <u>millennia</u> and now is believed, <u>erroneously</u>, in Vietnam to cure both cancer and <u>hangovers</u>.中略_(keratin ケラチン, 角質 millennia millenniam の複数形 erroneously 誤って, 間違って hangover 二日酔い 服薬後の副作用)

The debate rages on

①There is currently a ban on the international trade in rhino horn. As a result the booming demand in China and Vietnam has created a huge and lucrative black market with horn <u>fetching</u> \$60,000 a kg. (*fetch* (福力)) 仮定値の 売いる) ②Hume believes that rhinos in the wild will only be saved through a combination of good security and dehorning, at

least on private ranches. A few national parks and reserves want to dehorn and there is a lobby for a regulated and closely monitored legal trade in rhino horn.

^(B)This view is strongly opposed by many conservation and animal rights NGOs which means that this approach is unlikely to get sufficient support from governments to end the 39 year old CITES ban on trade.

④The issue will be debated at the CITES Conference in Johannesburg at the end of September, when Swaziland applies to be allowed to trade in rhino from legal stocks and natural mortality. But no change is <u>remotely</u> possible at this stage. (<u>remotely およそ [全然] (...でない</u>))

\bigstar Ice breaker for active discussion

1. What's your first impression about the article?

- 2. What can you say about the "medical uses" of rhino horns?
- 3. Despite the regulations on the international trade of rhino horns, why do you think the problem still exists?
- 4. What's your opinion about dehorning? Could it deter illegal poaching?
- 5. Make sentences using the following words: indelible, deter, peer-review, fetch and vehement.