



'The Hot Zone' Notes

Class

Biology

Pgs. 1-25	Introduces Charles Monet, explains how he got the virus, shows how the virus spreads and kills him
Pgs. 26-50	Charles Monet is treated by Shem Musoke and dies, Shem Musoke gets the disease and causes confusion amongst the hospital, David Silverstein tries to resolve Dr. Musoke's condition. They find out that it is a Marburg virus, which exploded in Germany, and about the isle of plagues with the monkeys. Introduces the Jaaxs
Pgs. 51-75	It describes Nancy Jaax and Ebola, before describing how Jaax will begin to work with Ebola
Pgs. 76-100	Nancy Jaax and Gene Johnson go to look at the monkeys, but it appears that Jaax gets infected by Ebola blood, However, it is a close call, Mr. Yu. G. in a town is infected and causes an outbreak called Ebola Sudan, but it dies down after hitting a hospital, Another lethal case occurred called Ebola Zaire
Pgs. 101-125	Explains how Ebola Zaire began and how it spread through uncleaned needles, Two nuns went a hospital called Ngaliema Hospital and one dies, The effects of Ebola are explained, The other nun is cared for by Nurse Mayinga and that nun dies, and Nurse Mayinga starts to feel symptoms, Nurse Mayinga dies her infection because she has a scholarship to study in Europe and doesn't want to lose the ability to travel, Finally, she goes to hospitals and eventually comes back to Ngaliema Hospital where her conditions worsens, The government sends troops to section off the Bumba Zone, which includes the Ngaliema Hospital, The nun's blood reaches Dr. Karl M. Johnson and another doctor named Frederick Murphy is able to look at it under a microscope and identifies it as a new virus, Richard Preston (the author) visits Karl Johnson and Johnson isn't disturbed by a mass extinction of people, Finally, the doctors go into the Bumba Zone

Pgs. 126-150	In Ngaliema Hospital, Nurse Mayinga is being quarantined but she dies, Later, Gene Johnson receives a package of blood from a boy named Peter Cardinal, Eventually, they found out that Cardinal also went to Kitum Cave, like Charles Monet, the Army funds a research expedition into Kitum Cave, However, the expedition finds no trace of Marburg in the cave, making the expedition a failure
Pgs. 151-175	Nancy and Jerry Jaax are sent to the Institute of Chemical Defense, Reston is a wealthy suburb where the international monkey trade takes places, Dan Dalgard is a consulting veterinarian for the monkeys, Jerry Jaax's brother, John, dies, Bill Volt is the house manager of the monkeys and calls Dalgard about certain monkeys dying with some shared symptoms, Dalgard sends samples from a monkey to virologist Peter Jahrling who examines the samples
Pgs. 176-200	When the monkeys catch with disease, Dalgard has to kill them, Thomas Geisbert studies viruses and pathogens and comes to look at the monkey cells, finding them to be breaking and exploding apart, Dalgard believes simian fever is affecting the monkeys but finds out that the virus is spreading throughout the rooms, Geisbert looks once more at the monkey cells and finds the filovirus, believing it to be Marburg, causing him great anxiety, Geisbert goes to talk to Peter Jahrling about what he thinks is Marburg
Pgs. 201-225	C.J. Peters is the chief at the Institute where Jahrling works, Jahrling and Geisbert go deeper into making sure it's Marburg to not scare people unnecessarily, Jahrling and Geisbert don't mention that they smelled the Marburg blood because they don't want to go into the "Slammer," where people are uncontaminated if they have a terrible virus, Jahrling and Geisbert get their blood and Jahrling takes it to test it, Geisbert's pictures confirm to C.J. Peters that the agent is in monkeys, Jahrling's tests would be the final confirmation that it's Marburg, Jahrling calls Dalgard and implies that there is a second agent which Dalgard understands as Marburg, Jahrling tests for the different strains and finds that the monkeys had Ebola Zaire, Jahrling tests C.J. that the results are of Ebola Zaire, There is a meeting between Jahrling, C.J., Nancy Jaax, and Colonel David Huxsoll and Major General Philip K. Russell of USAMRIID, They recall that the disease is airborne, but they don't know how airborne, Jahrling doesn't mention that he sniffed it, They come to the conclusion that it is a national emergency

Pgs. 226-250	<p>There were only three ways to stop a virus: vaccines, drugs, and biocontainment, The only possible method is biocontainment, They decide to either contain the monkeys or a full biohazard operation, They question if the virus is a military threat and if they should bring the Army to fight it, Everyone for C.J. to be the team leader of their mission, Major General Russell decides to first ask Frederick Murphy of the CDC, C.J. calls Dalgard and tells him that Ebola is much worse than Marburg, Dalgard learns of a monkey caretaker who got a heart attack, Bill Volt brings dead monkey samples to them</p>
Pgs. 251-275	<p>Nancy and Lieutenant Colonel Ron Trotter go into Level 4 to look at the monkeys, While looking into one, Nancy is unsure if the first monkey has Ebola, There is a large meeting between most of the people with knowledge of Ebola, Joe McCormick, a CDC representative, has difficulties with Gene Johnson and had a near-Ebola experience in the past while looking for the virus, C.J. Peters gets Jerry Jaax to assemble a team to go and check the monkeys, Johnson thinks about the best way to manage the virus and the team's check-in on it, Dalgard types his diary and receives a call from Nancy Jaax that the results on the monkey necropsies were inconclusive, either Ebola or simian fever, The Army investigates Room H where the outbreak in the moneys began and order all entrances to Room H to be closed off, However, they are unaware of another entrance</p>
Pgs. 276-300	<p>Lab workers are fearing because of an exaggerated news report but Nancy calms them down, Dalgard invites C.J. Peters and Nancy Jaax to look at the monkeys in the monkey house, Jaax gets some fear from the monkeys, While Nancy works late, Jerry gets a phone call that Nancy's dead is on the verge of passing, making Nancy feel a bit guilty for not being there, Jerry Jaax goes to the Institute, Gene Johnson is there and ready with his gear from the Kitum Cave, The Washington Post runs a story on the virus, C.J. is able to keep the situation calm, Jerry and Johnson go inside to look at the monkeys, Nancy and Captain Steven Denny also go in, the monkeys are then taken to be looked at further, Jerry and Johnson work and kill all the monkeys and their organs are taken to be studied</p>
Pgs. 301-325	<p>Nancy and her Hot Zone partner Ron Trotter work on the monkeys, They show clear signs of Ebola now, Dalgard goes to the monkey house and sees a monkey caretaker vomiting liquid, Frantig has a high fever, Dalgard made up his mind to evacuate the monkey house, C.J. Peters wants to put him in the Slammer but Joe McCormick sends him</p>

	<p>to a community hospital, Channel 4 News finds Frantig being taken to the hospital and the monkey caretakers leave the building, Dalgard turns the monkey house over to the Army, Jerry Jaax was the commander of the animal-care technicians (91-T), Jerry gets a team from 91-T to come with him to euthanize the remaining monkeys, Gene Johnson is worried deeply about his close calls with many hot agents, When the soldiers arrive, Johnson tells them and Jerry about the man who got sick through airborne transmission, The soldiers begin to get to work in euthanizing the monkeys</p>
Pgs. 326-350	<p>One of the workers loses air but makes it out safely, while a news van doesn't notice the operation, The operation concludes successfully, Meanwhile, Thomas Ksaizek makes a test for Ebola, finding Frantig only with the flu, The 91-T team continues their operation the next day, but a monkey gets loose, Jerry and Sergeant Thomas Amen go to try and capture it, but it is constantly escaping, They leave the monkey there overnight, Meanwhile, Peter Jahrling continues investigating his own blood for signs of Ebola, Jahrling and Geisbert's blood doesn't test for Ebola, Nancy is notified by her brother that their father is dying, but Nancy decides that she can't go and leave her post, Nancy goes to work on the monkey, Her father dies while she is working, She goes to his funeral, Soon enough, all the monkeys were killed including the escaped one</p>
Pgs. 351-375	<p>Sergeant Curtis Klages finds a freezer with dead monkeys and is instructed to decontaminate them, Gene Johnson sends a team to fully decontaminate the monkey house, Jahrling and Geisbert believe themselves to be definite survivors after nineteen days with no Ebola symptoms, the CDC traces the monkeys' disease to the Philippines, but the workers they were never sick, The team conducts a mission to completely sterilize the monkey house, ridding it of all life, A month later, monkeys start dying again with Ebola, A man performing necropsies on them named John Coleus accidentally got exposed to Ebola, Eventually, all four monkey caretakers tested positive for Ebola but had no symptoms or disease, The virus just proliferated in them and then removed itself from their bloodstreams, Everyone at USAMRIID agreed that the virus could spread through the air, Preston talks to Nancy Jaax about Ebola, Jahrling and Geisbert named the new Ebola type Ebola Reston, from where it was discovered, Preston looks back at how no one knows exactly where Ebola Reston comes from</p>
Pgs. 376-400	<p>Robin MacDonald takes Preston a guide in Africa while Preston reminisces of the time he spent in Africa before, They continue their</p>

	<p>journey towards Mount Elgon, They reach and describe Kitum Cave, There are many interacting animal species in Mount Elgon, making it easier for a virus to jump species, Preston gets in a suit to go into Kitum Cave, recounting the events prior, including a man named Ian Redmond's three-month stay in the cave with him remaining healthy, Preston continues his exploration through the cave, avoiding any danger</p>
Pgs. 401-422	<p>Preston finally returns and decontaminates his entire suit and accessories with bleach, Preston thinks of viruses as the Earth's immune response to human actions and how they are detrimental to the environment, Along his journey, he also thinks about AIDS and HIV as terrible viruses, Preston also goes to the monkey house in Reston, Finally, he mentions how Ebola has gone and will return</p>