



In Confidence
For Exercise Planners Only
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EXERCISE

Red Wing

Serial 2.1
Scenario

Scenario Timeline for Exercise Red Wing

18 September

It is the end of an exhausting day for **Albrecht Baptist** who has just made his way from the Tai National Parc in the Ivory Coast to Abidjan International Airport where he is awaiting the overnight Air France flight to Paris (Charles de Gaulle). For the last 4 or 5 days he has had a 'flu-like illness, and he is keen to reach the comfort of his own home. Albrecht is a French Scientist who has just completed a 2-month research mission in the Parc where he was studying chimpanzees.

During the overland trip from the Parc to the airport, Albrecht developed a worsening headache and sore throat and had to make a stop because of an attack of diarrhoea. He is generally feeling very tired and unwell and is experiencing widespread muscle pains and quite severe generalised abdominal pain. He puts this down to exhaustion and the bumpy ride, but takes some headache pills to relieve some of the symptoms.

When the flight is called Albrecht wakes up and, feeling worse, staggers onto the plane. He slumps into his window seat, located near to the back of the economy class cabin and tries to remain as still as possible and sleeps from time to time.

19 September

After an uneventful night and with about 2 hours until the plane is due to arrive in Paris, the flight attendants serve the breakfast meal to all passengers. Albrecht has some water and coffee as he is feeling dehydrated and suffering from chills, but feels too ill to eat.

Albrecht is feeling progressively worse and is beginning to sweat profusely. He is troubled by the need to open his bowels so he heads to the middle of the plane and joins the busy queue for the toilets. As a flight attendant squeezes past the queue with duty free for a passenger, Albrecht vomits violently and leans against a seat to steady himself. The vomit lands on **Evette Sangier** (a flight attendant), and 2 passengers (**Grigor Petrov** and **Magdalena Smidova**) waiting in the queue.

Fabien Gautier, a senior flight attendant and a nearby seated passenger **Lauren Jones** rush to help Albrecht. The vomit appears to have some blood in it and a call is made over the PA system for a doctor. A Belgian physician, **Dr Adriaen Scherer**, comes to assist and instructs that Albrecht is moved to the galley where the Doctor then loosens Albrecht's clothing. Albrecht has a rigor and vomits again, splashing the Doctor and Fabien, before he collapses onto the floor, losing control of his bowels, discharging a quantity of dark watery stool. The flight attendant and Doctor clean up the area and make him as comfortable as possible with pillows and a blanket. This takes a considerable time to complete as Albrecht is now rather weak and sleepy, but he thanks them for helping him and asks for some water. They then give Albrecht sips of water. The pilot decides that there is no point in diverting the flight at this stage and calls ahead to Paris to arrange an ambulance for Albrecht.

On landing in Paris, Albrecht is taken by ambulance to Hospital Pitié-Salpêtrière. After initial assessment in 'Urgences', Albrecht is isolated. He requires intensive supportive care and has impaired kidney and liver function.

The hospital suspect a tropical disease: various specimens are taken and sent to a number of laboratories for blood counts, malaria tests, blood chemistry and cultures.

In addition the specialist on duty arranges for Lassa/Ebola PCT tests to be done at the Institute Pasteur.

Early laboratory findings produced by the evening show low counts of white blood cells and very low platelets as well as elevated liver enzymes. Antigen tests are negative for malaria.

20 September

Over the next day Albrecht deteriorates further and dies of intractable multi-organ failure with internal and external bleeding. The laboratory results from the Institute Pasteur have not yet arrived, however the physician suspects a viral haemorrhagic fever and notifies French Health Authorities.

21 September

Tests on blood specimens by the Institute Pasteur detect the gene of the Ebola virus.

Evette Sangier's story

18 September

After an overnight stop in Abidjan staying at the Sofitel Hotel, Evette Sangier, a French Air Stewardess for Air France, takes the crew shuttle bus to the airport to board the daily Air France flight to Paris (Charles de Gaulle). The plane is full with tourists and businessmen.

19 September

After an uneventful night, the breakfast meal service goes ahead smoothly and as usual as the trays are cleared there is a rush for the toilets. Evette receives a request from a colleague for a duty free item. She gets it from the galley and on route to First Class makes her way past the queue for the toilet. As Evette squeezes past, a passenger standing in the queue vomits violently around her. Some of the vomit lands on her face and uniform. A senior flight attendant comes to the man's aid and Evette goes to the galley to clean herself up before helping nearby passengers do the same.

On arrival in Paris, Evette takes the RER to her home in Neuilly sur Seine, Levallois. She spends the morning catching up on sleep and then visits her family (mother, father and brother) who live around the corner. On her way home she drops her soiled uniform off at the dry cleaners before retiring to bed for an early night in.

20 September

Evette gets up early and takes the RER back to central Paris where she joins her best friend for a pamper day at the spa at La Villa Maillot. She returns home by train and after catching up on the day's news, goes to bed.

21 September

Evette returns to Charles De Gaulle late morning to join her next flight leaving for Istanbul at 1235. On arrival in Istanbul (1655) Evette travels by shuttle bus with the

rest of the 9 crew to the Hilton Istanbul. After checking in most of the crew head straight for the bar, however Evette is feeling tired, so she retires to bed early.

22 September

After a restless sleep, Evette wakes late and joins her colleagues for a light lunch in the hotel. She feels dehydrated with a sore throat, so drinks plenty of water and retires to her hotel room for a quick nap.

A telephone message from Air France Occupational Health asking Evette to contact them urgently is left with ground staff at Istanbul. Evette does not get the message.

Although Evette is feeling worse than yesterday she knows she has 3 days off work coming up, so she puts on a brave face and catches the 1845 flight to Charles de Gaulle, returning to her home late that evening.

During a fitful night Evette develops a high temperature and begins vomiting. Despite taking paracetamol and a travel-sickness pill (the only medication she has in the house) her temperature continues to rise and her situation deteriorates.

23 September

In the morning Evette's housemate comes to check on her and finds her drenched in sweat, rather sleepy and a little confused about the day and time. The housemate calls for an ambulance and Evette is taken to her local hospital. After examination she is admitted to a communicable disease ward. The attending physician (aware of Evette's job) suspects a tropical disease and investigating further contacts Air France who advise of the positive Ebola case.

Fabien Gautier's story

19 September

Fabien Gautier, a French senior flight attendant, has just finished overseeing the breakfast meal service on a busy flight from Abidjan to Paris (Charles de Gaulle). As is usual after the meal, a queue is forming near the economy class toilets. Fabien is in the galley when he hears a cry from the queue and he looks out to see a passenger vomiting violently. He rushes to assist the man who is leaning against the back of some seats to steady himself. Fabien notices that there appears to be some blood as well as vomit and so puts a call out on the PA system to see if there is a Doctor on board. A Doctor appears quickly and recommends that the ill passenger is moved to the galley. Fabien assists the passenger into the galley and stays with him while the Doctor checks him. During this time the passenger vomits again, splashing Fabien's uniform. Fabien uses some tissues and water from the toilets to wipe his uniform clean, disposing of the tissues in the general waste bin in the galley. Fabien and the Doctor clean up the area and make the passenger as comfortable as possible with pillows and a blanket. This takes a considerable time to complete as Albrecht is now rather weak and sleepy, but he thanks them for helping him and asks for some water. They then give Albrecht sips of water.

On arrival in Paris, Fabien takes the RER to his home in Boulogne-Billancourt, Issy. He spends most of the day catching up on sleep. Having swapped a shift with a colleague, Fabien has another long haul flight the next day. However he still decides to meet up with 8 friends for a birthday celebration and enjoys dinner and drinks with them at a local restaurant before getting to bed at around midnight.

20 September

Fabien returns to Charles De Gaulle late morning to join his next flight leaving for Tokyo at 1315.

21 September

On arrival in Tokyo, Fabien travels with the rest of the 12 crew to the Narita Excel Hotel. After a short sleep and a room service lunch, Fabien spends the afternoon at a special exhibition of Japanese folding screens taking place at the Suntory Museum of Art. He joins the crew for dinner in the hotel and enjoys his favourite dish, sushi, followed by some cocktails in the bar before going to bed around 11.

22 September

In the morning Fabien does some last minute shopping before he returns to the airport for the flight back to Paris. On arrival in Paris, Fabien takes the RER to his home in Boulogne-Billancourt, Issy. He arrives back home early evening. There is a telephone message for Fabien to contact Air France, but not wanting to be bothered with work matters, Fabien decides to call them back the next day.

23 September

Fabien awakes in the early hours of the morning feeling nauseous with a severe headache and dry mouth. He puts it down to jetlag or the sushi he ate, so drinks plenty of water and tries to get some more sleep. He is woken by a call from Air France Occupational Health who advise him of the positive Ebola case.

Grigor Petrov's Story

18 September

Grigor Petrov is a Bulgarian freelance operations manager ending a one week assignment for a large shipping company in Abidjan. He boards the busy Air France flight to Paris and finds his seat near the back of the plane.

19 September

After watching the in-flight movie and a relatively quiet night, Grigor enjoys the breakfast meal before joining the queue for the toilet at the back of the plane. As a flight attendant squeezes past the queue with duty free for a passenger, a man in the queue behind Grigor vomits violently. As Grigor turns to see what has happened, some of the vomit lands on his shirt and trousers. Grigor helps to steady the ill passenger before attempting to clear up his suit in the now vacated toilet. A doctor is called, so not wanting to get in the way, Grigor returns to his seat.

On arrival at Charles de Gaulle airport, Grigor makes his way to the Business Class Lounge where he awaits his onward connection to Sofia, Bulgaria. While waiting to be called for his flight, Grigor changes out of his suit into clean clothes. He decides that the suit is not worth keeping and so disposes of it in a bin in the Gent's toilets. He notices some dry material in his hair; having no time to shower, he cleans it with a damp disposable towel, and then with some cologne from the dispenser behind the washbasin. After an uneventful flight to Sofia, Grigor collects his car from the long term car park and drives to his home in the ski resort of Vitosha, arriving early evening. He has a quiet evening with his wife, son and 2 daughters and a teenage friend of the oldest daughter.

20 September

After a good night's sleep Grigor spends a busy day in his office catching up on the backlog of e-mail and telephone messages which have gathered while he has been away. He spends the evening with his family at home.

21 to 22 September

Grigor is pleased to be back amongst the mountains and so he and his family spend the next two days rock-climbing and caving. During this time Bulgarian Authorities attempt to contact Grigor without success.

23 September

After a restless night, Grigor's muscles are aching which he attributes to the vigorous exercise of the day before however he decides to have a lazy day. He spends much of the day in bed, sipping endless cups of coffee, reading the paper and dozing from time to time. However this relaxation doesn't seem to have done the trick, as he is still uncomfortable and has begun to develop a fever. During the night he begins vomiting. His wife becomes concerned at the speed that he has deteriorated and calls his local Doctor, who after visiting admits him to the local hospital for observation.

Magdalena Smidova's story

18 September

Magdalena Smidova, a Czech national had always dreamed of spending her honeymoon in the wilds of Africa. So despite the many warnings not to travel to the Ivory Coast, she spends a blissful two weeks with her new husband on safari at the d'Abokouamekro Game Reserve. On the final day of their honeymoon, the couple do some last minute shopping in the wide tree-lined boulevards of Abidjan before joining the many international travellers at Abidjan International Airport awaiting the overnight Air France flight to Paris (Charles de Gaulle). When the flight is called, they board quickly and find their seats in the centre aisle at the front of the economy class cabin. The flight is surprisingly smooth with little turbulence.

19 September

After the breakfast meal service, Magdalena joins the queue for the toilet in the middle of the plane. She notices that the man in front of her looks quite unwell, he appears to be shivering, but is sweating. To allow a flight attendant to get past the queue, Magdalena steps closer to the man, at which point he vomits violently. Some of the vomit lands on Magdalena's sleeve and in her hair. Magdalena tries to help the man who is now leaning on a seat and looks for some cloths to wipe up.

She finds some cloths in the galley, however by the time she gets back to the man an air steward is assisting him. So, Magdalena returns to her husband to tell him what has happened, before she goes back to the toilets to try and clean herself up. She uses the cloths and tries to rinse her hair under the taps, with some success. She then returns to her seat and reads a book to try and take her mind off what she has just seen.

On landing at Paris Charles de Gaulle, Magdalena and her husband move quickly through the airport to catch their connecting flight to Prague. On arrival in Prague they are collected by Magdalena's parents who drive them across town to their home

in Branik. They spend some time with Magdalena's parents catching up on the family news, before unpacking and doing the washing. They have an early night.

20 September

After a long lie-in, Magdalena and her husband spend most of the day indoors except for when they pop to the supermarket to buy groceries and get their holiday photographs developed. The evening is spent listening to classical music at the Rudolfinum Concert Hall as part of the Prague Autumn Festival.

21 September

Magdalena and her husband get up early and spend the day preparing for a dinner party which they are hosting at their house in the evening. They are looking forward to a special evening where they will be showing everyone their holiday photos as well as announcing the good news, that Magdalena is pregnant. Shortly before the guests (3 couples, the neighbours from the adjacent apartments and a couple from the Church) start to arrive Magdalena begins to feel lethargic; her muscles are aching and she has a sore throat. Thinking she is coming down with the 'flu, she takes some headache tablets and gets ready for the party. The dinner party goes very well and everyone is delighted with the news. The guests finally depart at about midnight, and Magdalena feeling no better is happy to sink into bed, while her husband clears up.

22 September

Magdalena manages to get some sleep in the night, but by the morning has developed a fever. Conscious of her newly pregnant state and remembering the ill man on the aeroplane, Magdalena's husband calls their doctor out. The Doctor arrives about an hour later and following a thorough examination admits Magdalena to her local hospital. Shortly after her arrival the Doctor and Magdalena are informed by Czech Authorities of the man from the flight testing positive for Ebola. Magdalena undergoes a series of tests.

23 September

Initial test results indicate Malaria.

Lauren Jones's story

Lauren Jones is an English Financial Consultant working for a large international Insurer. She is based in London, but regularly travels to Africa on business. Lauren has only recently returned to work from long term sickness, but was pleased that her first trip abroad was to the Ivory Coast.

18 September

Following a productive meeting in Abidjan, Lauren boards the overnight Air France flight to Paris. She is looking forward to catching up with her colleagues in the Paris office, before finally returning to London at the end of the week.

The plane is full, so Lauren is pleased that she has been able to secure an aisle seat near the toilets. Lauren spends most of the flight trying to sleep.

19 September

After the breakfast meal, to pass the time, Lauren does some Sudoku. A queue is forming near the toilets and a number of people are leaning on the back of Lauren's

seat. Lauren puts her headphones on to try and cut out the background noise. As she settles down, she feels something land on her shoulder. Taking her headphones off she turns to the queue where a man is vomiting violently. The man is steadying himself against her chair and whilst doing so has transferred some of the vomit onto Lauren's shoulder and business suit. Lauren jumps up to help the man who is very unsteady. A Doctor arrives and takes over, allowing Lauren to walk down the cabin and find an empty bathroom where she attempts to clean herself up. By the time she returns to her seat, the ill man has been moved. In the absence of an available flight attendant, the passenger sitting next to her has kindly cleaned her seat.

On arrival in Paris, Lauren waits in the baggage lounge for over an hour, but her luggage does not appear. She liaises with the Air France Customer Service team to try and trace the bag, without success. They advise that she is unlikely to get her bag for a few days. Lauren is very frustrated as she had hoped to change from her soiled suit before her next meeting. However she has no choice but to make her way to the Sheraton Paris Airport hotel for her morning meeting with 10 colleagues.

After the meeting Lauren returns to the airport for her connection to London Heathrow. Following an uneventful flight, she takes the London Underground to Waterloo station where she hopes to catch a train to Guildford, Surrey. Due to flooding in the region, many trains have been cancelled, so Lauren spends 3 hours at the station in a coffee shop before finally catching the train to Guildford.

20 September

Despite very little sleep, Lauren is back in the City by 9am for the start of a 2-day meeting with her project team of 4 people. She leaves the office at 1800 and then takes the train home to Guildford, where she spends a quiet evening in front of the television.

21 September

The second day of the project team meeting is very constructive and the team end the day with drinks in a local pub. Lauren takes the train home and does a little bit of gardening before she goes to bed.

22 September

Lauren is woken up by the delivery of her lost luggage. The bag appears to have been opened, so she decides to take all the clothes, including the soiled suit to the Laundromat.

As the day progresses Lauren develops a severe headache and starts to feel very lethargic and weak, so she cancels her evening engagements and goes to bed early.

During the night her condition deteriorates rapidly. She has a high temperature and begins vomiting. Alarmed that her old illness may be reoccurring she calls for an ambulance which takes her to hospital.

23 September

Lauren remains under observation in her local hospital and undergoes extensive tests. British Authorities, who have been struggling to contact Lauren, manage to speak to the physician and advise him of the positive Ebola case.

Dr Adriaen Scherer's story

18 September

Following a week long intensive mission to the WHO Country Office in Abidjan, Dr Adriaen Scherer, a Belgian physician, boards a busy Air France flight to Paris. He gratefully sinks into his Business Class seat and spends most of the night sleeping.

19 September

Just as Adriaen is finishing his breakfast, a call comes across the PA system, asking for a doctor. Reluctantly Adriaen makes himself known to a member of cabin crew and is taken to outside the economy class toilets where he finds a man covered in vomit, mixed with blood. Adriaen instructs that the man is moved to the galley. He attempts to get a closer look at the man and loosens his clothing, at which point the ill man has a rigor and vomits again, splashing the doctor. The man then collapses on the floor, losing control of his bowels, discharging a quantity of dark watery stool.

Adriaen makes use of the onboard paramedic's kit to stabilise the passenger and with the assistance of the cabin crew makes arrangements for an ambulance to meet the aircraft. Adriaen and the Flight Attendant clean up the area and make the passenger as comfortable as possible with pillows and a blanket. This takes a considerable time to complete as Albrecht is now rather weak and sleepy, but he thanks them for helping him and asks for some water. They then give Albrecht sips of water. Adriaen stays with the patient throughout the remainder of the journey.

On landing in Paris, Adriaen ensures that Albrecht is taken by ambulance to Hospital Pitié-Salpêtrière before he catches his train to Brussels. He spends the rest of the day catching up on emails before going to bed early.

20 September

Adriaen wakes up late and as he has a day off, decides to go and see a lunch time movie before meeting 4 friends at the pub to watch his favourite team play football. When Adriaen gets home, he goes straight to bed.

21 September

In the morning on arrival at his office, Adriaen contacts the hospital where the ill passenger had been taken and discovers that he had died the previous day of intractable multi-organ failure with internal and external bleeding. Adriaen sees 6 patients in the morning session and then goes home to do paperwork for the rest of the day. By early evening he feels nauseous so has a light supper and retires to bed early. During the night Adriaen feels worse with symptoms including vomiting and diarrhoea

22 September

In the morning Dr Scherer receives a call from the Belgian Authorities about the positive testing of Ebola in the patient from flight from the Ivory Coast. Following the advice given, Dr Scherer checks himself into his local hospital where he is isolated and kept under observation.

Radulf Swartzkopf's story

18 September

Radulf Swartzkopf boards Air France flight AF703 in Abidjan for Paris. He is a journalist and has just completed a week long assignment for Reuters in Abidjan

where he is compiling a report on the ongoing conflict. He finds his seat in Economy Class, conveniently located near the toilets. He settles down to watch the in-flight movie.

19 September

After the breakfast meal, Radulf passes the time by reading the in-flight magazine and chatting to the passenger seated next to him. Radulf keeps getting bumped by the people in the queue for the toilets who are leaning on his chair. As he turns towards the queue a man vomits violently, with some of the vomit landing on Radulf's face and arm. Radulf quickly wipes his face and arm with a napkin he had left over from breakfast. The ill passenger is moved away from the queue and so Radulf then gets up and washes his face in an empty bathroom. Radulf returns to his seat. He is quite surprised by what has happened and so makes a note of what he has seen including recording people's reactions.

On landing, Radulf immediately makes his way to the departure gates where he catches the next available flight to Frankfurt. Once in Frankfurt, Radulf takes a taxi straight to the Reuters office where he spends the rest of the day writing a report on his time in Abidjan. He shares a car home to Karben with a colleague.

20 September

Radulf spends all day in the office to complete his report and update his boss on his visit to the Ivory Coast. He works late and then cycles home to Karben. Radulf spends the evening on the internet chatting to his friends on 'facebook'.

21 September

Radulf has the day off as he and 3 friends are off on a long weekend to cycle the scenic routes near Dresden. After a six hour train journey the friends arrive in Dresden and after checking into their bed and breakfast 'Pension Käubler' they head to Bierhaus Dampfschiff for the rest of the evening.

22 September

After rising early Radulf and his friends spend the day cycling the scenic routes around Dresden returning to the 'pension' late afternoon. The friends spend the evening in local beer houses before retiring to bed around midnight.

23 September

On waking in the morning Radulf has muscle ache, a headache and feels nauseas. He puts this down to the pressure of work and the exertion of the cycling the day before. He tries to get some sleep on the long train journey home, but feels progressively worse. On arrival at home late evening, Radulf picks up his voicemail which includes a message from local health authorities asking him to contact them urgently. He returns the call and hears about the infectious Ebola passenger. Radulf becomes very worried and so immediately checks himself into his local hospital.

Movements of the A330-200 Airbus

19 September

On arrival at CDG the plane taxis to its stack at Gate C91, located at the end of Terminal 2C. An ambulance meets the plane and Albrecht is taken to Hospital Pitié-Salpêtrière.

After the passengers have disembarked the contract cabin cleaners arrive. As the plane is scheduled to leave for Abidjan at 1330 they conduct the standard 'quick transit clean' which involves, seat cleaning, seat pocket cleaning, galley cleaning, toilet cleaning and replenishment, floor cleaning and blanket management.

The cover from the seat where Lauren Jones was sitting is removed and replaced.

At 1755 local time the plane arrives in Abidjan. Once again it receives a quick transit clean before the return 2155 flight to Paris.