

Patient History for Olivia Viergutt— MHN #8000915

Initial Patient Screening Slip Information

Olivia Viergutt (MHN #8000915) is 3'2" tall, 32 lb., 3.5-year-old female. Olivia attends a daycare center Monday through Wednesday on a weekly basis. She stays at home under the care of her nanny on Thursdays and Fridays during business hours. The father took off work and brought Olivia in when her symptoms got worse. The admitting nurse gleaned the following physical symptoms from the father: bouts of diarrhea, intermittent vomiting and a probable headache. Olivia's blood pressure read 87/44 with a heart rate of 90 bpm. Her temperature was elevated at 102° F.

Additional Patient Information

Activities/Hobbies/Interests

- Likes to play with toys and read children's picture books.
- Loves to play with friends at daycare.
- Dad is a middle school math teacher; mom is a dental hygienist.
- Both parents are health conscious and eat healthy organic foods, take daily multi-vitamins, drink electrolyte-rich beverages and exercise daily.

Diet

- Basic assortment of bite-size portions of cooked organic meals, hash browns, tofu, apple sauce, peanut butter and jelly, non-high fructose cereal, egg whites and yogurt

Lifestyle

- Lives in a remodeled old house in the metro area.
- Attends daycare Monday through Wednesday at a center that provides care for forty other children, ranging in age from 0–5 years.

Recent Travel

- None

Medical Condition

- Allergic to food coloring (FD&C Yellow #5) and shellfish

Vaccinations

- Received her influenza vaccine one month ago

Physical Symptoms

- Fever, 102 °F
- Headache
- Vomiting
- Diarrhea
- Chills
- Metallic taste in mouth
- Pale skin
- Abdominal pain
- Low blood pressure, 87/44
- Bloody stool
- Dehydration

Lab Test Results

- Blood test for metals: elevated iron levels 800 µg/dL
- All other tests normal

Diagnosis: Iron blood poisoning likely from accidentally ingesting too many adult multi-vitamin pills while unsupervised

Patient History for Doris Matterhorn— MHN #8000171

Initial Patient Screening Slip Information

Doris Matterhorn (MHN #8000171) is a 5'9" tall, 138 lb., 52-year-old financial analyst. The admitting nurse noted Doris was experiencing vomiting, a dull headache and fatigue. Her blood pressure read 110/65 with a heart rate of 70 bpm. Her temperature was recorded to be 99.9 °F.

Additional Patient Information

Activities/Hobbies/Interests

- Likes to play pickle ball at the local YMCA.
- Enjoys pedaling the local bike trails.
- Loves to watch her daughter play college softball.
- Proud owner of two cats; one friendly and one not-so-friendly.

Diet

- Partial to sushi, salads and grilled chicken

Lifestyle

- Is a devout Methodist.
- Has a demanding job, but values her time spent outdoors biking or as a sports spectator.

Recent Travel

- Flew to Boston two weeks ago for a convention.

Medical Condition

- None

Vaccinations

- Recent influenza vaccine

Physical Symptoms

- Fever, 99.9 °F
- Fatigue
- Headache
- Vomiting
- Body aches
- Sore throat
- Chills
- Diarrhea
- Dry cough

Lab Test Results

- Antibody-antigen blood test: positive for viral RNA
- RDT, influenza: positive
- RT-PCR, nasal swab: influenza RNA present

Diagnosis: Influenza A—Her recent flu vaccine built up her immunity to a different influenza strain.

Patient History for Lachlan Bigsby— MHN #8000697

Initial Patient Screening Slip Information

Lachlan Bigsby (MHN #8000697) is a 3'6", 43 lb., 5-year-old male. The admitting nurse noted the patient had a headache, spells of vomiting, and a fever. His blood pressure read 98/55 with a heart rate of 85 bpm. He had a temperature of 105.1 °F.

Additional Patient Information

Activities/Hobbies/Interests

- Likes to watch cartoons.
- Loves to play with his tablet daily.
- Plays at the local trampoline park once a month.
- Is a gifted artist for his age.

Diet

- Favorite two meals are chicken nuggets and hamburgers cooked medium-rare.

Lifestyle

- Pre-K student at McGovern Hills Elementary School
- Loves his pet dogs, Hugo and Blitz

Recent Travel

- Flew with his family to Disney World; parents stated that several people on the plane were coughing.

Medical Condition

- Asthma

Vaccinations

- Recent DPT (Diphtheria, Pertussis and Tetanus) vaccine
- Recent influenza vaccine

Physical Symptoms

- Fever, 105.1 °F
- Joint pain
- Headache
- Vomiting
- Fatigue/lethargy
- Muscle aches
- Bloody stool
- Systemic skin rash
- Sensitive abdomen due to swelling in GI tract

Lab Test Results

- No clinical tests will confirm diagnosis

Diagnosis: Adverse reaction to DPT (Diphtheria/Pertussis/Tetanus) vaccination

Patient History for Melody Sandberg— MHN #8000292

Initial Patient Screening Slip Information

Melody Sandberg (MHN #8000292) is a 5'6", 150 lb., 30-year-old female who was brought into urgent care unconscious after being discovered passed out on the curb of Felicity Boulevard at two o'clock in the afternoon. The admitting nurse recorded a high blood pressure of 150/100 with an elevated heart rate of 110 bpm. Melody had a temperature of 98.2 °F.

Additional Patient Information

(The teacher will assume the role of the police or a medical staff assistant who is able to impart personal information gleaned from Melody's purse. The student doctors should be advised to brainstorm types of personal information typically found in purses and from there ask specific questions to piece together a patient profile.)

Activities/Hobbies/Interests

- Has a library card in her purse.
- Possibly enjoys shopping, as evidenced by numerous retailer credit cards in her purse.
- The life proof case on her cellphone has a camouflage design, indicating a possible interest in hunting and the outdoors.
- A wide rubber wrist band suggests support for MADD (Mothers Against Drunk Driving).
- Has vomit stains on front of shirt.

Diet

- Possible preference toward pasta, based on an inference from two Panera Bread coupons cut out and stashed in her purse.

Lifestyle

- Possibly a single parent—photos of her with a young child in the purse
- Likely healthy, based on a membership card to Gold's Gym
- No pictures of a spouse or phone numbers written of emergency contacts; cellphone is locked.
- No phone number listed upon looking up address found on driver's license

Recent Travel

- Unknown

Medical Conditions

- Unknown; not in the system as a prior patient

Vaccinations

- Unknown

Physical Symptoms *(Encourage student doctors to brainstorm and ask specific ways to examine the passed out patient.)*

- High blood pressure
- Elevated heart rate
- Unconsciousness
- Vomit stains on front of shirt
- Pale skin
- Slow, irregular breathing
- Breath reeks of alcohol

Lab Test Results

- Breathalyzer test: elevated alcohol level (3.9)
- Comprehensive metabolic panel: elevated alcohol level (3.9), low glucose level

Diagnosis: Alcohol poisoning from binge drinking (may need to have the stomach pumped)

Patient History for Phoenix Ditmeyer— MHN #8000111

Initial Patient Screening Slip Information

Phoenix Ditmeyer (MHN #8000111) is a 5'9", 160 lb., 55-year-old male. The admitting nurse noted he was experiencing muscle aches and pain, sporadic vomiting and fatigue. He had a temperature of 100.8 °F. His blood pressure was 120/80 with a heart rate of 90 bpm.

Additional Patient Information

Activities/Hobbies/Interests

- Enjoys playing bridge and often travels to play in bridge tournaments.
- Is an equestrian, owning and riding two horses.
- Is an avid LA Dodgers fan.
- Is good at culinary arts and enjoys preparing exquisite dishes for guests.
- Is a wine connoisseur.

Diet

- Steak, seafood and chicken dishes

Lifestyle

- Public Works Department Director

Recent Travel

- Vacationed in Belize for a week at an all-inclusive resort with his wife for their 32-year wedding anniversary

Medical Condition

- Allergic to bee stings and penicillin

Vaccinations

- Hepatitis A and typhoid vaccines

Physical Symptoms

- Fever, 100.8 °F
- Extreme fatigue
- Nausea
- Vomiting
- Runny nose
- Conjunctivitis
- Dry cough
- Diarrhea
- Muscle aches and pain

Lab Test Results

- Complete blood count: high number of white blood cells present
- ELISA (Enzyme Linked Immunosorbent Assay): positive reaction to H5N1 virus particles

Diagnosis: H5N1—bird (avian) flu virus, with an unknown mode of contraction

Patient History for Star Sagelight— MHN #8000614

Initial Patient Screening Slip Information

Star Sagelight (MHN #8000614) is a 5'1", 120 lb., 65-year-old female. The admitting nurse noted she was experiencing a rash, pain, fatigue and irritability. She had a temperature of 98.6 °F. Her blood pressure was 100/65 with a heart rate of 60 bpm.

Additional Patient Information

Activities/Hobbies/Interests

- Church organist
- Gardening
- Tai Kwon Doe
- Photography

Diet

- Fruits, vegetables, and bread, rice and wheat rich in gluten

Lifestyle

- Retired florist
- Piano lesson instructor

Recent Travel

- Two-week trip to the Holy Lands

Medical Condition

- Addison's disease
- Tested negative for celiac disease five years ago

Vaccinations

- None recently

Physical Symptoms

- Itchy rash with bumps and blisters
- Joint pain
- Fatigue
- Irritability
- Hair loss
- Numbness in extremities
- Anxiety
- Weight loss
- Seizures
- Greasy stool
- Fluid retention (bloating)
- Constipation
- Gas

Lab Test Results

- Immunoglobulin blood test for IgA, IgG and IgM: IgG and IgA elevated
- ELISA for antibodies: IgA and IgG
- Biopsy, fine needle, small intestine: damaged villi visible
- Biopsy, fine needle, skin rash with immunofluorescence: granular IgA deposits

Diagnosis: Celiac disease triggered by ingesting gluten

Patient History for Bart Hydrastool— MHN #8000010

Initial Patient Screening Slip Information

Bart Hydrastool (MHN #8000010) is a 6'3", 215 lb., 20-year-old male. The admitting nurse noted he was experiencing diarrhea, fatigue and weight loss. He had a temperature of 98.8 °F. His blood pressure was 110/88 with a heart rate of 64 bpm.

Additional Patient Information

Activities/Hobbies/Interests

- College football player
- Weight lifting and fitness classes
- Course studies
- Waiter at a local restaurant

Diet

- High calorie meals, lots of pasta

Lifestyle

- Attends classes at university

Recent Travel

- Fishing trip one month ago

Medical Condition

- Lactose intolerant

Vaccinations

- None recently

Physical Symptoms

- Weight change (loss of 30 pounds)
- Diarrhea
- Fatigue
- Loss of appetite
- Dehydration
- Greasy stools alternating with diarrhea
- Abdominal cramps (pain)
- Dark yellow urine
- Headache from dehydration
- Gas

Lab Test Results

- PCR, stool sample: Giardia DNA present
- Stool analysis: motile or cysts of Giardia present and visible

Diagnosis: Giardiasis obtained from drinking untreated water from a lake

Patient History for Anne Awful-Ease— MHN #8000413

Initial Patient Screening Slip Information

Anne Awful-Ease (MHN #8000413) is a 5'2", 135 lb., 30-year-old female. The admitting nurse noted she was experiencing chills, nausea, vomiting and sweating. She had a temperature of 104 °F. Her blood pressure was 110/78 with a heart rate of 70 bpm.

Additional Patient Information

Activities/Hobbies/Interests

- Loves to take her two golden retrievers for a walk.
- Loves to cross-stitch.
- Likes to watch crime and justice shows on television.

Diet

- Rich in pure Angus beef
- Moderate consumer of alcohol

Lifestyle

- Texas County sheriff
- Performs as a guitarist for a local band at indoor and outdoor concert venues.

Recent Travel

- No recent travel outside the region

Medical Condition

- Allergic to food coloring

Vaccinations

- Recent flu shot

Physical Symptoms

- Chills
- Hyperpyrexia, 104 °F
- Nausea
- Vomiting
- Sweating
- Headache
- Fatigue/lethargy
- Urine/stool changes
- Signs of jaundice

Lab Test Results

- Blood cell and serum culture: motile Plasmodium in RBC
- Complete blood count: low RBC count, low platelet count
- Comprehensive metabolic panel: elevated bilirubin, elevated aminotransferases
- PCR: positive for Plasmodium
- RDT, malaria: positive

Diagnosis: Malaria contracted when Anne was bitten by an infected Anopheles mosquito. Likely that the local mosquito bit a traveler that returned from a tropical area to Texas prior to Anne.

Patient History for Dominic Coffe— MHN #8000222

Initial Patient Screening Slip Information

Dominic Coffe (MHN #8000222) is a 5'6", 165 lb., 32-year-old male. The admitting nurse noted he was experiencing chills, fever, fatigue, swollen lymph nodes and a chronic cough. His fever registered at 101 °F. His blood pressure was 120/80 with a heart rate of 72 bpm.

Additional Patient Information

Activities/Hobbies/Interests

- Is a Dave Matthews Band fanatic.
- Likes to spend time on the beach.
- Frequently visits local vineyards to taste wine.
- Works out daily at a fitness club.

Diet

- Tea, wine, salads and any lean meat entrée

Lifestyle

- Manager for an Internet firm

Recent Travel

- Spent two weeks in France three months ago.

Medical Condition

- HIV

Vaccinations

- None recently

Physical Symptoms

- Chills
- Fever, 101 °F
- Fatigue
- Chronic cough
- Loss of appetite
- Night sweats
- Pain in the chest
- Nausea (from HIV)
- Diarrhea (from HIV)
- Swollen lymph glands (from HIV)
- Weight loss (unintentional)
- Sores, lesions (from HIV)

Lab Test Results

- Antibody-antigen blood test: positive for both active and latent infection
- Immunoblot: positive for both active and latent infection
- PCR, blood, sputum or lung tissue: used to test for specific antibiotic resistant plasmids
- Sputum culture: contains cultures of *M. tuberculosis* bacterium
- Tuberculosis skin test: positive for both active and latent infection
- X-ray, chest: active infection shows dense areas within the lungs from fluid build-up
- Western blot: shows HIV antibodies
- ELISA (Enzyme-Linked Immunosorbent Assay): shows HIV antibodies
- WBC differential: low WBC count (from HIV)
- Complete blood count: low WBC count (from HIV)

Diagnosis: Active tuberculosis contracted from a fellow traveler on the flight of his trip three months ago. The bacterium was latent (inactive) for nearly three months until it changed into an active form.

Patient History for Roxanne Bowtox— MHN #8000505

Initial Patient Screening Slip Information

Roxanne Bowtox (MHN #8000505) is an 85-year-old female. The admitting nurse noted she was experiencing fatigue, diarrhea and fever. Her temperature was 102 °F. Her blood pressure was 114/67 with a heart rate of 60 bpm.

Additional Patient Information

Activities/Hobbies/Interests

- Likes to solve Sudoku puzzles.
- Enjoys watching local news telecasts and game shows.
- Likes to go for slow walks in the quiet neighborhood.

Diet

- Chicken, soup, salad, ginger ale and an occasional hot dog
- Any cheese product—loves cheese

Lifestyle

- Retired actuary who lives in Southern California year-round
- Finishing up post-surgery rehabilitation protocol

Recent Travel

- Visited the state fair with her grandchildren.

Medical Condition

- Infrequent bouts of gout
- Total knee replacement four months ago

Vaccinations

- Flu vaccine

Physical Symptoms

- Fatigue
- Fever, 102 °F
- Diarrhea
- Headache
- Stiff neck
- Pain (muscle aches)
- Seizures (convulsions)
- Loss of balance

Lab Test Results

- Blood culture: shows presence of *L. monocytogenes*
- CSF test and culture: shows the presence of *L. monocytogenes*

Diagnosis: Listeriosis (Listeria)—possible portal of entry was ingestion of unpasteurized milk in a particular brand of soft cheese. Roxanne Bowtox was higher at risk for contracting Listeria because of her weakened immune system due to her age.

Diagnosis—You Are the Doctor

Initial Patient Screening Slips

Instructions: Cut along the dotted lines. Each student group will receive one slip at the start of the activity.

Olivia Viergutt MHN #8000915 is 3'2" tall, 32 lb., 3.5-year-old female. Olivia attends a day care center Monday through Wednesday on a weekly basis. She stays at home under the care of her nanny on Thursdays and Fridays during business hours. The father took off work and brought Olivia in when her symptoms got worse. The admitting nurse gleaned the following physical symptoms from the father: bouts of diarrhea, intermittent vomiting and a probable headache. Olivia's blood pressure read 87/44 with a heart rate of 90 bpm. Her temperature was elevated at 102 °F.

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