**OP – Circulatory System Blood Disorders**

Name: **KEY** **(Outcome 27)**  Date:

**Using pages 951-954 in your textbook and the internet, complete the following chart.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Define | Causes (is it genetic?) | Symptoms | Treatment | **EXTENSION:****Impact on Homeostasis** |
| Blood Clot (thrombus) | Gel-like blood (partially solid) forming in veins/arteries where it should not be | * not genetic
* parts of blood thicken to form solid mass
* body attempting to clot after an injury
 | * pain/nausea (abdomen)
* swelling, warmth, redness (limbs)
* problem speaking, blurred vision (brain)
* chest pain, hard to breath (heart/lungs)
 | * anticoagulants
* compression socks
* surgery
* stent
* vena cava filters
 |  |
| Anemia | Low number of RBC in the body | * genetic influence
* blood loss
* decreased/faulty RBC production
* destruction of RBC
 | * dizzy/lightheaded
* fast or irregular heartbeat
* cold hands/feet
* tiredness/weakness
 | * increased fluids
* blood transfusion
* iron supplements
* bone marrow transplant
 |  |
| Hemophilia | Bleeding disorder in which the blood does not clot properly | * genetic
* blood doesn’t have enough blood-clotting proteins
 | * excessive bleeding
* large/deep bruises
* pain/swelling in joint
* blood in urine/stool
 | * replacement therapy – clotting factor injections
 |  |
| Leukemia | Cancer of the blood-forming tissues in the body (includes bone marrow and lymphatic system) | * genetic influence
* blood cell mutation
* Bone marrow produces excessive amounts of abnormal WBC that don’t function correctly
 | * fever & fatigue
* frequent illness
* weight loss
* bleed/bruise easily
 | * chemotherapy
* targeted drug therapy
* radiation therapy
* bone marrow transplant
 |  |

**­­OP – Circulatory System Blood Pressure Disorders**

Name: **KEY** Date:

**Using pages 948-950 in your textbook and the internet, complete the following chart.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Define | Causes(Is it genetic?) | Symptoms | Treatment | **EXTENSION:****Impact on Homeostasis** |
| Hypertension | Chronically high BP (consistently above 140/90 mmHg) | * not genetic
* cause unknown, develop over time
* obstructive sleep apnea
* kidney disease
* thyroid problems
* many risk factors
 | * commonly no signs/symptoms
* headaches
* shortness of breath
* nosebleeds
 | * lifestyle changes – reduce salt intake, physical activity, healthy weight, limit alcohol
* medications – ACE inhibitors, ARBs, diuretics
 |  |
| Hypotension | Chronically low BP (consistently below 90/60 mmHg) | * genetic influence
* dehydration
* pregnancy
* blood loss
* lack of nutrition
* medications
 | * dizziness
* fainting
* blurred vision
* nausea
* fatigue
 | * increase salt
* increase fluids
* compression socks
* medications
 |  |
| Atherosclerosis | Thickening or hardening of the arteries. | * not genetic
* buildup of plaque in inner lining of an artery due to inflammation of artery walls
 | * chest pain/angina
* pain in limbs shortness of breath
* heart attack
* stroke
* blood clot
 | * reduce cholesterol
* exercise
* no smoking
* anticoagulants
* LDL medications
* angioplasty
* bypass surgery
 |  |
| Varicose Veins | Twisted, enlarged veins | * weak/damaged valves
* blood flows backward and pools 🡪 results in stretch or twist
 | * veins dark purple or blue in colour
* veins appearing twisted/bulged
* achy/heavy legs
* burning/throbbing
 | * exercise
* weight loss
* wear loose clothes
* elevate legs
* compression socks
* avoid sitting long
 |  |