**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 |  |