**Topic 9: ‘International conflicts and crises in the 20th century (I) – the two world wars’**

**Case study: War and Inventions—Medicine**

**Pre-lesson worksheet**

Study Source A, and also make reference to ‘Chapter 3: War and Medicine’, *Multiple History from Multiple Perspectives: Economy, Medicine, International Law and Others*. Collect relevant information on medical inventions, and then complete the following questions about medical inventions.

**Source A**：The following passage is about the medical inventions during the two world wars.

|  |
| --- |
| Military conflicts affect changes in medical sciences and medical care. The return of wounded soldiers to the front line is crucial for a military to sustain its fighting power; on the other hand, the provision of advanced medicine and medical care to combatants is also a sign of modernity and better understanding of humanitarian ideals. Many wartime medical advancements also benefited the post-war world, often in unexpected ways. X-ray machine, ambulance, vaccination, pill, blood transfusion, psychological treatment, and reconstructive surgeries are all common features of modern medical science.  Adapted from“Chapter 3: War and Medicine”,  *Multiple History from Multiple Perspectives: Economy, Medicine, International Law and Others* |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| A | Name of medical invention: | X-ray machine |  | B | Name of medical invention: | Ambulance |
| Key injuries concerned: | Wounds caused by bullets, bone fracture, etc. |  | Key injuries concerned: |  |
| Key function: | Understand the injury of the injured person |  | Key function: |  |
| Situation of invention in today’s society: | Widely used in today’s society |  | Situation of invention in today’s society: |  |
|  |  |  |  |  |  |  |
| C | Name of medical invention: | Vaccination |  | D | Name of medical invention: | Pill |
| Key injuries concerned: |  |  | Key injuries concerned: |  |
| Key function: |  |  | Key function: |  |
| Situation of invention in today’s society: |  |  | Situation of invention in today’s society: |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
| E | Name of medical invention: | Blood transfusion |  | F | Name of medical invention: | Psychological treatment |
| Key injuries concerned: |  |  | Key injuries concerned: |  |
| Key function: |  |  | Key function: |  |
| Situation of invention in today’s society: |  |  | Situation of invention in today’s society: |  |
|  |  |  |  |  |  |  |
| G | Name of medical invention: | Reconstructive surgeries |  | H | Name of medical invention: | Thomas splint |
| Key injuries concerned: |  |  | Key injuries concerned: |  |
| Key function: |  |  | Key function: |  |
| Situation of invention in today’s society: |  |  | Situation of invention in today’s society: |  |

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|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| A | Name of medical invention: | X-ray machine |  | B | Name of medical invention: | Ambulance |
| Key injuries concerned: | Wounds caused by bullets, bone fracture, etc. |  | Key injuries concerned: | Injuries requiring immediate treatment |
| Key function: | To understand the injury |  | Key function: | Transport the wounded to hospitals |
| Situation of invention in today’s society: | Widely use in today’s society |  | Situation of invention in today’s society: | Widely use in today’s society |
|  |  |  |  |  |  |  |
| C | Name of medical invention: | Vaccination |  | D | Name of medical invention: | Pill |
| Key injuries concerned: | Disease like gangrene and typhus |  | Key injuries concerned: | Disease such as “trench fever” |
| Key function: | Prevent soldiers being infected |  | Key function: | Prevent soldiers being infected |
| Situation of invention in today’s society: | Widely use in today’s society |  | Situation of invention in today’s society: | Widely use in today’s society |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
| E | Name of medical invention: | Blood transfusion |  | F | Name of medical invention: | Psychological treatment |
| Key injuries concerned: | Over-bleeding soldiers |  | Key injuries concerned: | Soldiers in mental collapse |
| Key function: | Enable soldiers to have a higher chance of survival |  | Key function: | Possible treatment for ‘shell shock’ |
| Situation of invention in today’s society: | Widely use in today’s society |  | Situation of invention in today’s society: | Widely use in today’s society |
|  |  |  |  |  |  |  |
| G | Name of medical invention: | Reconstructive surgeries |  | H | Name of medical invention: | Thomas splint |
| Key injuries concerned: | Soldiers who were disfigured |  | Key injuries concerned: | Soldiers injured their limbs |
| Key function: | Restore part of the facial functions of the wounded soldiers |  | Key function: | Avoid unnecessary amputation of soldiers |
| Situation of invention in today’s society: | Widely use in today’s society |  | Situation of invention in today’s society: | Similar types of splint are widely used in today’s society |