**Case Study 1**

**ABO/Rh Type**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Forward** | | | **Reverse** | | |
| **Anti-A** | **Anti-B** | **Anti-D** | **A1 cells** | **B cells** | **Interpretation** |
| 0 | 0 | 4+ | 4+ | 4+ | O Positive |

**Antibody Detection Test**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Rh | | | | | | MNS | | | | Lutehran | | P1 | Lewis | | Kell | | Duffy | | Kidd | | Gel |
|  | D | C | E | c | e | f | M | N | S | s | Lua | Lub | P1 | Lea | Leb | K | k | Fya | Fyb | Jka | Jkb | IAT |
| 1 | + | + | 0 | 0 | + | 0 | + | + | + | + | 0 | + | 0 | + | 0 | 0 | + | 0 | + | 0 | + | 1+ |
| 2 | 0 | 0 | 0 | + | + | + | + | 0 | + | 0 | 0 | + | +w | 0 | + | + | 0 | + | + | + | 0 | 1+ |
| 3 | 0 | 0 | + | + | 0 | 0 | 0 | + | 0 | + | 0 | + | +s | 0 | + | + | + | + | 0 | 0 | + | 1+ |

**Antibody Identification Panel**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | | | | |  | |  | |  | |  | |  | | | | **Serum**  **Reaction** | | |  |
|  | **D** | **C** | **E** | **c** | **e** | **K** | **k** | **Fya** | **Fyb** | **Jka** | **Jkb** | **Lea** | **Leb** | **M** | **N** | **S** | **s** | **IS** | **37** | **AHG** | **cc** |
| 1 | + | + | 0 | 0 | + | 0 | + | + | + | + | + | 0 | + | + | 0 | + | + |  | 0 | 2+ |  |
| 2 | + | 0 | + | + | 0 | 0 | + | + | 0 | 0 | + | 0 | + | 0 | + | 0 | + |  | 0 | 2+ |  |
| 3 | + | + | 0 | + | + | 0 | + | + | + | 0 | + | + | 0 | + | + | + | 0 |  | 0 | 2+ |  |
| 4 | 0 | 0 | + | + | + | 0 | + | 0 | + | + | 0 | 0 | + | + | + | + | + |  | 0 | **--** | 2+ |
| 5 | 0 | 0 | 0 | + | + | 0 | + | 0 | + | + | + | 0 | + | + | 0 | + | + |  | 0 | **--** | 2+ |
| 6 | 0 | 0 | + | + | + | + | + | + | 0 | + | + | 0 | + | + | + | + | 0 |  | 0 | 2+ |  |
| 7 | 0 | 0 | 0 | + | + | + | 0 | 0 | + | + | + | + | 0 | 0 | + | 0 | + |  | 0 | **--** | 2+ |
| 8 | 0 | 0 | 0 | + | + | 0 | + | 0 | + | + | 0 | 0 | + | + | + | + | 0 |  | 0 | **--** | 2+ |
| 9 | 0 | + | 0 | + | + | 0 | + | 0 | + | + | + | + | 0 | 0 | + | 0 | + |  | 0 | 2+ |  |
| 10 | + | 0 | + | + | + | + | + | 0 | 0 | + | + | 0 | + | + | 0 | 0 | 0 |  | 0 | **--** | 2+ |
| 11 | + | + | + | + | + | 0 | + | + | + | 0 | + | + | 0 | + | + | + | + |  | 0 | 2+ |  |
| AC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 | **--** | 2+ |