How Pacemakers Can Use the OSI Model
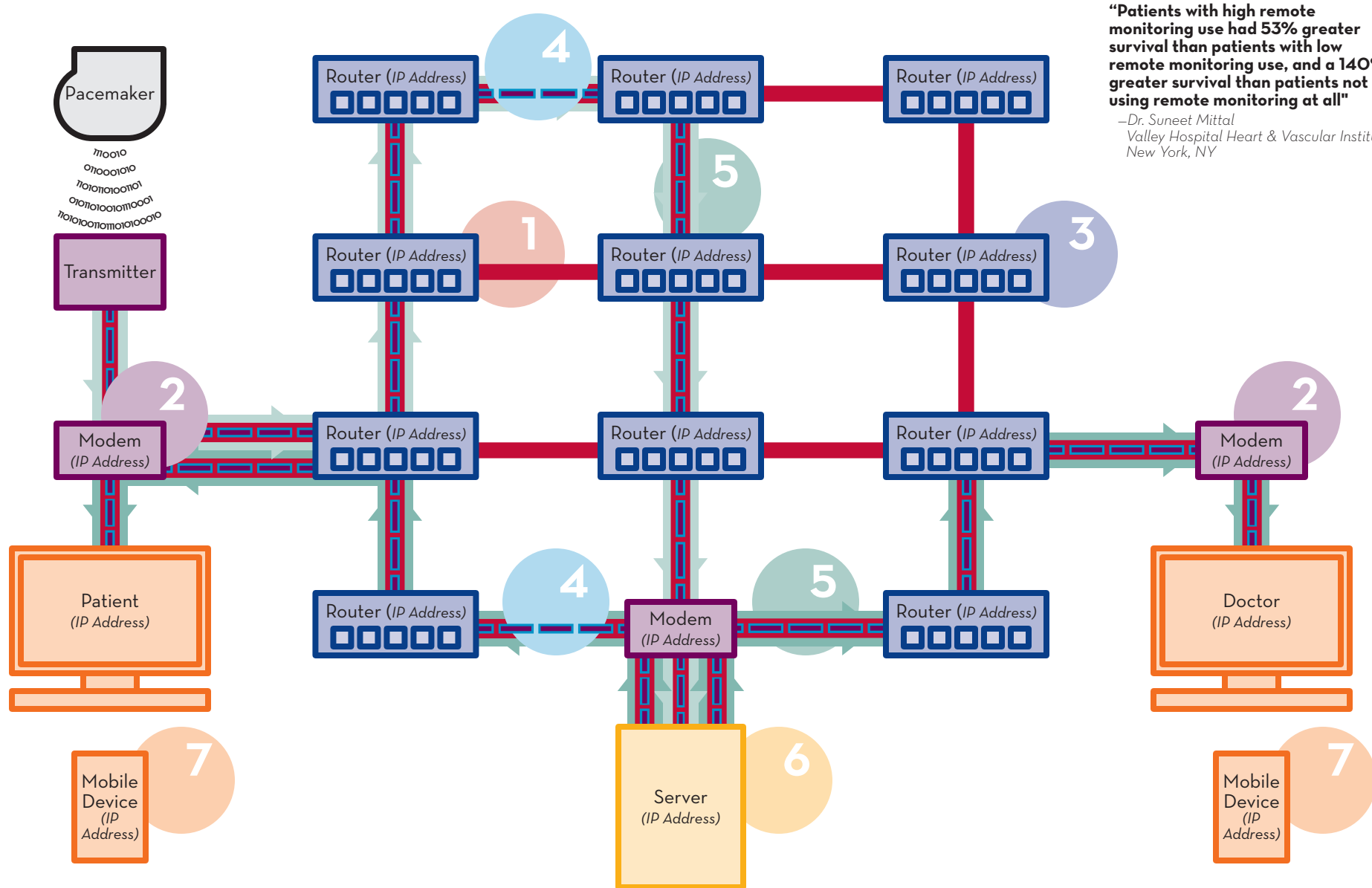
Pacemaker

Transmitter

Patient *(IP Address)*

Modem *(IP Address)*

Mobile Device *(IP Address)*

Router *(IP Address)*

Modem *(IP Address)*

Server *(IP Address)*

Doctor *(IP Address)*

Mobile Device *(IP Address)*

1 **Physical**
The heart data travels along a physical path of cables

2 **Data Link**
Modems and other devices are used to transfer data to network devices

3 **Network**
Routers use IP addresses to route data along a physical path to a secure server

4 **Transport**
Breaks data into smaller segments and reassembles data at the destination

5 **Session**
Establishes and terminates a stable connection between a computer and servers

6 **Presentation**
Translates, formates, and encrypts, the data for the application to use

7 **Application**
Software helps the doctor view heart data and remotely monitor a patient