Bandwidth Allocation Report: Emergency Situations

Summary

The report summarizes the bandwidth allocation during emergency situations, highlighting the priorities being managed, the nodes involved, and the emergencies left unmanaged.

Handled Emergencies

Three high-priority emergencies were successfully handled:

1. **Emergency #1: Traumatic injury**

 * Node ID: b83db409-36be-4cc9-8038-85724327a4da

 * Emergency Priority: High

 * Emergency Type: Traumatic injury

 * QoS: 0.0036889713457991333

 * Bandwidth: 0.5101325867517881

 * Patient Reference: Patient/1

2. **Emergency #2: Traumatic injury**

 * Node ID: b83db409-36be-4cc9-8038-85724327a4da

 * Emergency Priority: High

 * Emergency Type: Traumatic injury

 * QoS: 0.0579675273646145

 * Bandwidth: 6.81573324970508

 * Patient Reference: Patient/2

3. **Telemedicine session**

* Node ID: 306410e7-d51d-4b31-a76e-94bc269e517a

* Emergency Priority: Normal

* Emergency Type: Telemedicine session

* QoS: 0.10989913089191947

* Bandwidth: 6.4273159621177856

* Patient Reference: null

Unhandled Emergencies

Four emergencies were left unmanaged due to limited bandwidth:

1. **Emergency #3: Severe allergic reaction**

 * Emergency Priority: High

 * QoS: 1.085686703093805

 * Bandwidth: 62.15905583038469

 * Patient Reference: Patient/3

2. **Telemedicine session**

 * Emergency Priority: Normal

 * QoS: 0.13487950163339668

 * Bandwidth: 22.45097710290804

 * Patient Reference: null

3. **Telemedicine session**

 * Emergency Priority: Low

 * QoS: 0.40415349790571303

 * Bandwidth: 63.930718631597315

 * Patient Reference: null

4. **Telemedicine session**

 * Emergency Priority: Low

 * QoS: 3.9887656755013308

 * Bandwidth: 96.61775270041366

 * Patient Reference: null

Initial and Remaining Bandwidth

The initial bandwidth was 32.20134828549898, and the remaining bandwidth after handling the emergencies is 18.44816648692433.

Node Bandwidth Initial Allocation

The node b83db409-36be-4cc9-8038-85724327a4da was initially allocated 8.565195081232712, while node 306410e7-d51d-4b31-a76e-94bc269e517a was allocated 23.636153204266265.

Node Bandwidth Final Allocation

The final allocation for each node is:

* b83db409-36be-4cc9-8038-85724327a4da: 1.2393292447758446

* 306410e7-d51d-4b31-a76e-94bc269e517a: 17.20883724214848