Case 11		
Use Case Step	**Information Transfer**	**Transaction level functions**
1. Patient brought to Emergency Dept. as Trauma. Patient immediately taken to Trauma room and connected to monitor, iv.	Patient was found or reported by others. The patient has no id or there is confusion about id.	
2. Nurse initiates bedside flowsheet in ED and confirms patient location		
3. Nurse "admits" patient to devices		
4. Monitor & vent data flow to flowsheet	The device(s) does not use the ADT Placer assigned patient id within the message. The CIS system has made the association between the device and the patient.	Device or gateway sends ORU^R01
5. Emergency Registration assigns a temporary "Jane Doe" number while trying to identify the patient		ADT Placer sends ADT^A04 to register patient visit in ED. The CIS and Device (or gateway) receives this. Additionally an A10 message could be sent to indicate the exact location in the ED.
6. Patient is taken to OR for emergency surgery		HIS could generate an A09 indicating departure from ED and an A10 indicating arrival in the OR.
7. Nurse initiates bedside flowsheet in OR and confirms patient location		
8. Monitor & vent data flow to flowsheet	The devices use the temporary ID assigned by the ADT Placer.	Device or gateway sends ORU^R01
9. Registration has finally determined who this patient is and they merge the temporary "Jane Doe" to a stable patient id. (The patient has already been in this hospital before so this is an existing id.)		ADT Placer sends ADT^A40 to merge the patient identifiers. The CIS and Device (or gateway) receives this.
10. Patient is admitted to ICU.	A Physician creates an order to admit the patient. Admitting office assigns patient to a bed. The patient is still in the OR. The assigned patient location is now the ICU.	ADT Placer sends ADT^A06 to admit patient and change the patient class. The CIS and Device (or gateway) receives this.
11. Patient is taken to RR post surgery	The assigned patient location is the ICU. The temporary location is now the Recovery Room. Physician writes/updates admission orders.	HIS could generate an A09 indicating departure from OR and an A10 indicating arrival in the RR.
12. Patient is taken to the ICU.	Nursing/transport take the patient from RR to ICU.	HIS could generate an A09 indicating departure from OR and an A10 indicating arrival in the ICU.
13. Nurse initiates bedside flowsheet in OR and confirms patient location		

14. Monitor and vent data flows to flowsheet	The device uses the temporary ID assigned by the ADT Placer.	Device or gateway sends ORU^R01
15. Nurse positions infusion pump (to fulfill IV order)		Infusion pump has not received ADT messages and doesn't query.
17. Nurse barcode-scans IV bag	in CIS, as usual for meds administration; “5 rights” confirmed	
18. Nurse picks infusion pump from short list in CIS or uses bar code to identify a pump	In CIS, the short list is devices "sensed" as in room and not already assigned; pump ID now known to CIS	
19. CIS sends order information to the infusion pump	The pump does not use the ADT Placer assigned patient id within the message. Since the pump doesn't have the ADT data, then the CIS must send pump id.	CIS sends RGV Message to pump or pump gateway
20. Nurse starts infusion pump	The pump does not use the ADT Placer assigned patient id within the message. The CIS system has made the association between the device and the patient.	Device or gateway sends ORU^R01
21. Nurse validates data on the flowsheet to be included in patient permanent record.		
22. Patient improves and is transferred from ICU to General Surgery		ADT Placer sends A02 which is received by some devices.