

Patient Transitions and Air Traffic Control - Safety by Design Comparison



Time for standard phraseology for healthcare handover and transitions ?

Wrae Hill, Brent Hobbs, Kim Petryshun, Bev Grossler, Kathy Houston (Interior Health), Greg Down (NAV CANADA - Vancouver Area Control Center)

Problem: Transitions within and across healthcare sectors are complex, dynamic, and variable. They tend to be locally improvised. There is relentless pressure to move patients to different levels of care, all under time and resource constraints.
Background: We are working on several fronts to standardize; 1) Transition language, 2) Documentation, 3) Role Definitions and 4) Alternate level of care (ALC) classification. In September 2014, we visited the NAV CANADA Vancouver Area Control Center (VR ACC) to learn how these experts in air traffic control keep us safe during all phases of flight.

HEALTHCARE LEARNS FROM AVIATION: VR ACC provides the safe, orderly and efficient flow of air traffic over most of the landmass of British Columbia and a large portion of airspace off the West Coast. The intervention consisted of direct observation of the provision of air traffic services (control / process) and mapping to both (Real) Interior Health Patient Transitions and (Ideal) processes.

Learning: In our patient transitions, there is a heavy reliance upon individual practitioners' resourcefulness, vigilance and mostly paper documentation (many forms) <u>without</u> training/ or clear expectations about verbal handovers. Few processes are consistent across the health authority and local improvisation seems the rule.

This contrasts significantly with air traffic controllers who are trained from day one to communicate with clear, concise, and standardized <u>phraseology</u> (the way in which words and phrases are used in speech). These individuals are highly trained, adaptable and follow standard procedures which ensure that control information is passed from controller to controller in a consistent manner. The result is sustained situational awareness, minimized controller workload, and the effective management of various dynamic operational conditions (number of aircraft, weather, terrain, etc).



Napkin Sketch: All Air Traffic transitions are linked by a **10-15 second "burst**" of standard verbal communications. Even automated ATC-Pilot communications are similarly formatted .



In dynamic environments, experts MUST interact verbally with clarity, brevity and precision. In Healthcare we have relied too heavily upon vigilance and documentation (alone). Now is the time for some simple standards.

Transitions Progress:

Handover "Phraseology" IDRAW We have developed simple, verbal guidelines and videos (IDRAW) for all handovers focusing on three principles: i) Patient / MRP identification, ii) Relevant clinical detail, iii) Active receiver who clarifies intent. See youtube; Interactive Handover

Interactive Handover App – scan this

Standard Role definitions – TLN

We are harmonizing the **T**ransition **L**iason **N**urse (TLN) role across the health authority and beginning to create common tools and processes.

Repatriation Coordination: OTIS

At our own "area control center" the IH Patient Transport Office (PTO) conducts a daily teleconference between many sites to coordinate and expedite patient repatriation back to their home facility using their Online Transport Information System (OTIS) . In a pilot study , this resulted in a 90% decrease (24 to 2.5 hrs) in lead time, fewer refusals, proactive planning, decreased workload

By comparing to a high reliability organization, we hope to accelerate and simplify our patient transitions