



Interior Health

Patient Transport The Good, Bad and Ugly

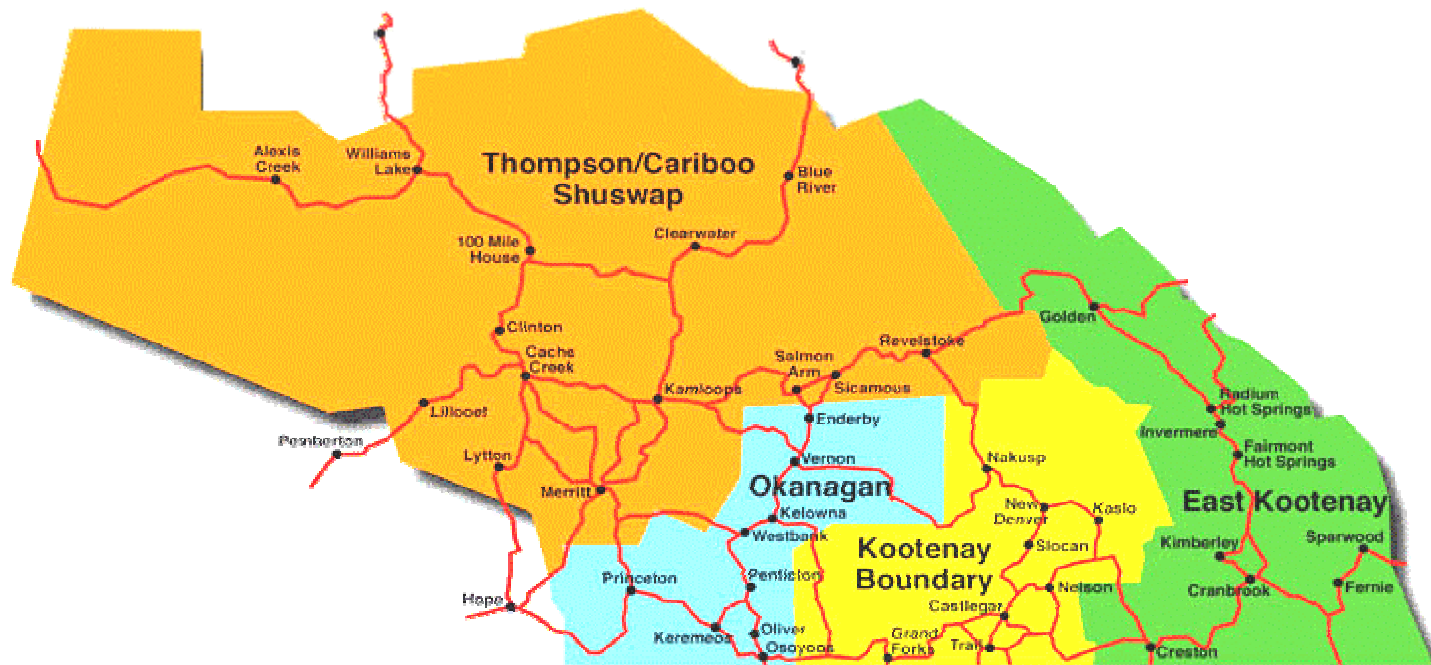
**The Rural Emergency Continuum of Care Conference
Kelowna, BC
June 2010**

Patient Transportation Services (Brent Hobbs)

Vision: To set new standards of excellence in the delivery of health services in the Province of British Columbia.



About Interior Health

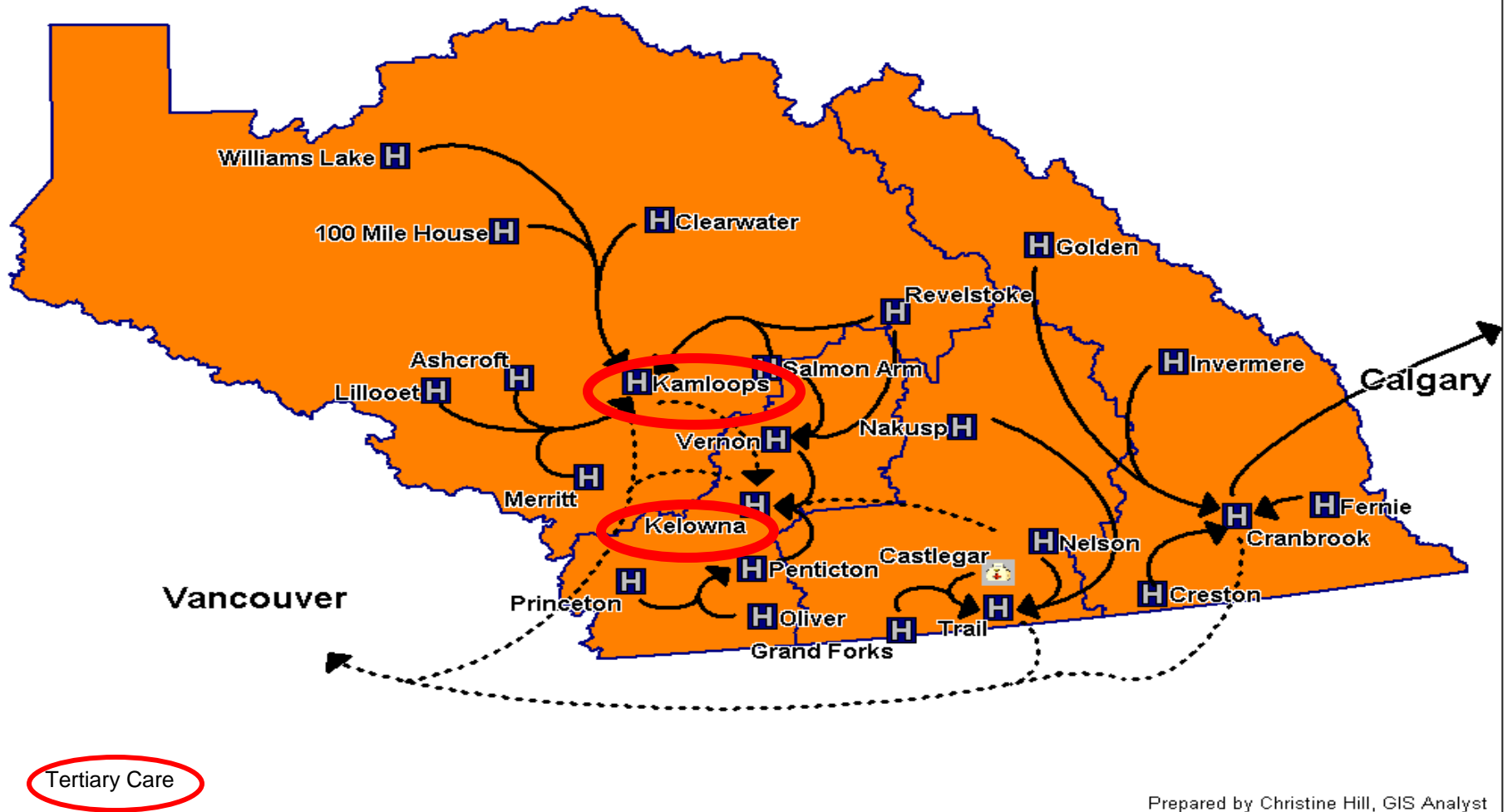


- Pop. 740,000
- Urban & Rural Health Care Delivery
- Mountainous Terrain & Huge Geography
- Centralized Acute Care Delivery Model



Referral Patterns

Interior Health Interfacility Trends



Transport Challenges

- **Limited fixed wing**
 - 1 aircraft after midnight
 - Mountains, Weather, Limited daylight (winter)
- **No dedicated rotary**
 - Ad hoc contracts (exception of STARS in EK)
- **Basic life support in rural / remote**
 - Skill set does not meet high acuity patient needs
 - Bridge gap with scarce rural resources (RN, MD escorts)
- **Fragmented referral processes**
 - Multiple silos
 - BC Bedline, ground / air ambulance, MDs, bed control



The Ugly

Pediatric Head Injury in Rural IH

- ED arrival to transfer request—delayed by 30 min.
- Transfer refused by RIH/KGH (“capacity”)
- 3 hours/10 phone calls to find accepting MD (VGH)
- Transport initiated after bed secured
- Pt. expires prior to transport team arrival
- Dx Epidural Hematoma

Time from ED Arrival to Death = 3hrs 30 min.

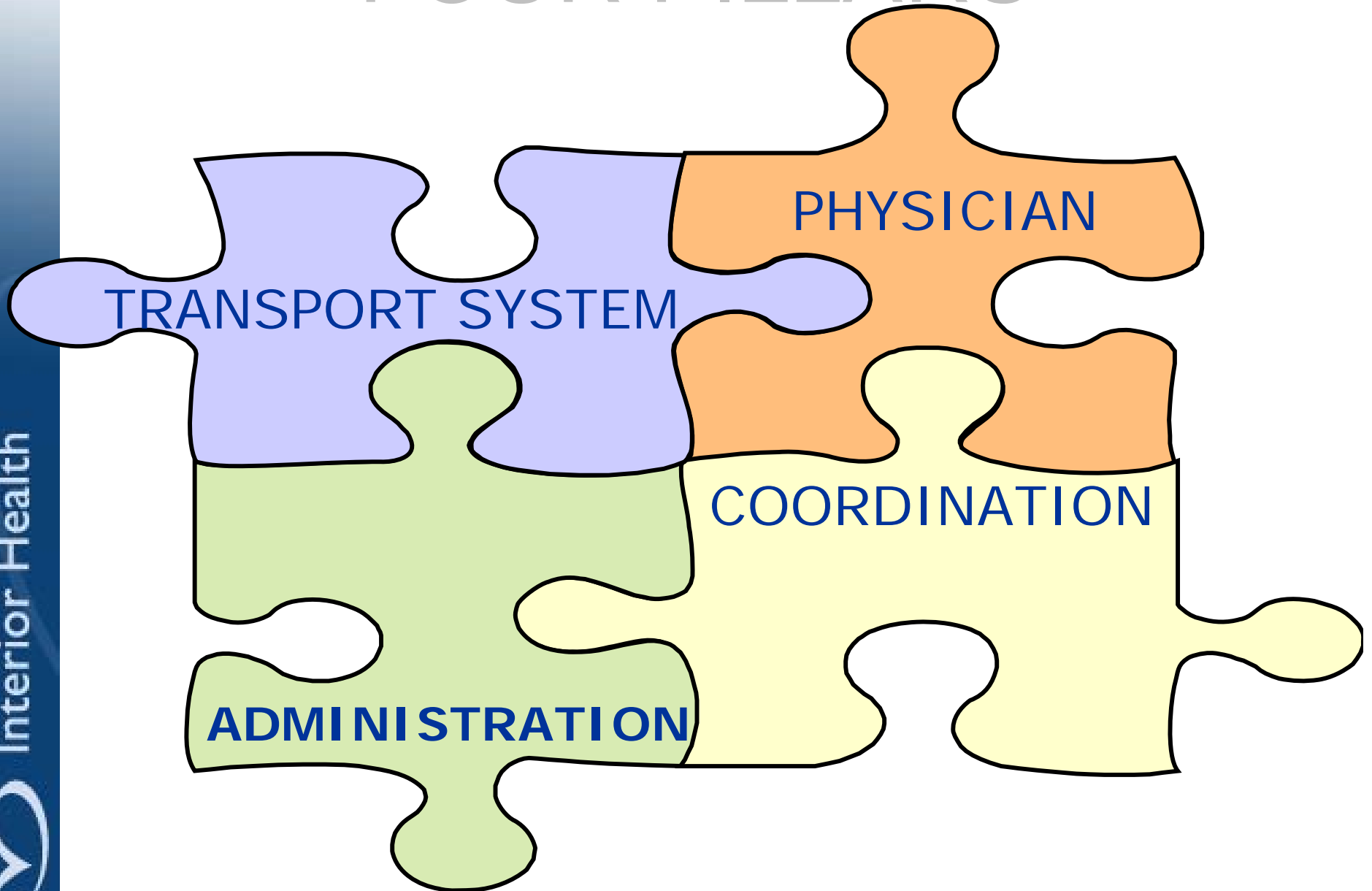


Clinician Feedback

- **Single point of entry (one call)**
- **Seamless interagency communication**
- **No refusal for life and limb threatened organ**
- **Autolaunch before a bed is found**
- **Dedicated resources**
 - **Rotary, Fixed Wing, Ground**
 - **Expert clinicians**
- **Accountability**
 - **Audit & Continuous Quality Improvement**



FOUR PILLARS



The Good

Combative Head Injury (skier into tree)

- Accident time 1130
- BLS on scene 1140
- Autolaunch rotary CCT 1140
- ED arrival (ground BLS) 1235
- ED arrival (rotary CCT) 1240
- Arrival tertiary ICU 1433

Total Time (accident to definitive care) = 2 hrs. 30 min.

Dx Subdural Hematoma



Vision

High Acuity Response Teams

- 1. Provide a rapid response to higher level of care**
 - Linkages with fixed wing, rotary wing, ground ambulance
 - Improve patient outcomes by minimizing delays
- 2. Reduce impact on scarce human resources**
 - Scope: greater than basic life support transfers
 - Dedicated clinicians reduce need for rural escorts
- 3. Address low volume of high acuity transfers**
 - Small cadre will achieve critical mass to maintain skills
 - Maintain clinical competence by performing patient care in the base hospital when not performing transfers



Vision

High Acuity Response Teams

4. Economically sustainable with low call volume

- 1-2 transfers a day per catchment area
- Must support patient care activities in the base hospital when not performing transfers

5. Reach out to support catchment area

- Teams based in regional referral centres
- Follow patient through continuum of care
 - Consistency in patient care (rural ED through to tertiary ICU)
- Opportunity to assess, treat and support patient care at rural site where appropriate (e.g. through telehealth)

