

Technical Data Definitions and Data Sourcing^{1,2}

IDENTIFYING INFORMATION	
Name:	Hospital occupancy
Calculation:	<p>Hospital occupancy =</p> $\left(\frac{\text{Average number of acute care inpatients in hospital during the reporting period}}{\text{Average number of staffed beds in the hospital during the reporting period}} \right) \times 100$ <p>Metric: Percentage of a facility's total staffed beds that are occupied by inpatients.</p>
Description:	<p>All patients admitted as inpatients are included in the numerator regardless of whether they are in day surgery areas, surgical suites, emergency, etc. Therefore, the hospital occupancy calculation can be over 100%.</p> <p>Numerator – Inclusions:</p> <ul style="list-style-type: none"> ▪ Adult and child acute care inpatients ▪ Emergency inpatients (EIPs) (i.e., admitted patients in the emergency department waiting for an inpatient bed) ▪ Post-anesthetic recovery patients (PARs) ▪ Admitted day-of procedure patients (ADOPs) ▪ Patients in operating room (OR location as an inpatient) ▪ Patients in special care units (e.g. ICU, NICU, CCU, CVICU) ▪ Inpatients in all spaces (including holding beds) ▪ Patients on passes (out of hospital but still flagged as an inpatient) ▪ Maternity patients <p>Denominator – Inclusions:</p> <ul style="list-style-type: none"> ▪ Staffed beds (i.e., beds that have designated nursing staff). This is reported in the Bed Survey as “staffed and in operation.” <ul style="list-style-type: none"> ○ Labour and delivery rooms ○ Special care units ○ Acute care units ○ Subacute units (transition/rehab)

¹ Documentation and sourcing for the reported emergency department measures is the result of collaborative work between members of the HQCA's Health System Analytics team and members of AHS' Analytics team. Credit regarding determining the appropriate data definitions should be attributed to the AHS Analytics team for most of the measures below.

² While the HQCA used all reasonable efforts to ensure the accuracy, completeness, and reliability of the data used in this website, data continues to expand in scope and completeness. As such, the values reported may change over time.

<p>Data source:</p>	<p>Numerator:</p> <p>Admit/Discharge/Transfer (ADT) source systems:</p> <ul style="list-style-type: none"> ▪ Connect Care ▪ Emergency Department Information System (EDIS) ▪ Regional Emergency Department Information System (REDIS) ▪ Sunrise Clinical Manager (SCM) ▪ Clinibase ▪ Tandem/Vax ▪ MediTech <p>Denominator:</p> <ul style="list-style-type: none"> ▪ AHS Bed Survey (bed tracker tool) <p>The bed tracker data relies on bed count information recorded daily via the online AHS Bed Survey. Staff at each acute care facility are responsible for submitting the number of staffed beds in operation on a daily basis via this tool. Beds are counted as staffed and in operation unless they will be closed for more than 24 hours (i.e., beds are counted if they will be available at any point during a 24 hour period).</p>
<p>Assumptions:</p>	<ol style="list-style-type: none"> 1. There are different information systems capturing this data in different hospitals. It is assumed the data is comparable between the different ADT source systems. 2. Beds that will be open at some point during a 24 hour period are considered open for the entire 24 hour period.
<p>Exclusions:</p>	<p>Numerator:</p> <ul style="list-style-type: none"> ▪ Day procedures, day medicine ▪ Outpatient (ambulatory) registrations ▪ Newborns in bassinets (per above, all patients in the NICU are included) <p>Denominator:</p> <ul style="list-style-type: none"> ▪ Over complement/overcapacity/overflow spaces (e.g., beds located in lounges, shower rooms, hallways, etc. to handle surge capacity) ▪ Closed beds (i.e., permanent closures physically ready to open if staffing and funding were available) ▪ Operating rooms ▪ Blocked beds (i.e., beds closed temporarily for more than 24 hours due to staffing, isolation, weekends, holidays, maintenance, renovations, special patient care needs, etc.) ▪ Bassinets <p>Results from May and June 2016 are not reported for the Northern Lights Regional Health Centre due to the forest fire that affected Fort McMurray and forced the closure of the Northern Lights Regional Health Centre.</p>

Limitations:	The bed tracker data is updated on a daily basis, with no adjustments being made throughout the day. It is fairly common practice for beds to be opened and closed throughout the course of a day, as required to meet patient demand. Capturing bed counts once-a-day implies that the number of open beds for a given day is static, when in reality this may be fluid over the course of a day.
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Alberta Health Services, Analytics. "Acute Care Occupancy." (2018) [Dashboard of monthly and quarterly hospital occupancy by facility]. *AHS Tableau Reporting Platform*. Retrieved from <https://tableau.ahs.ca>