

CT Dose Analytics Report

Leapfrog Survey Preparation

Facility: Demo Medical Center

Analysis Date: 2026-02-10

Reporting Period: 2025-01-01 to 2025-12-30

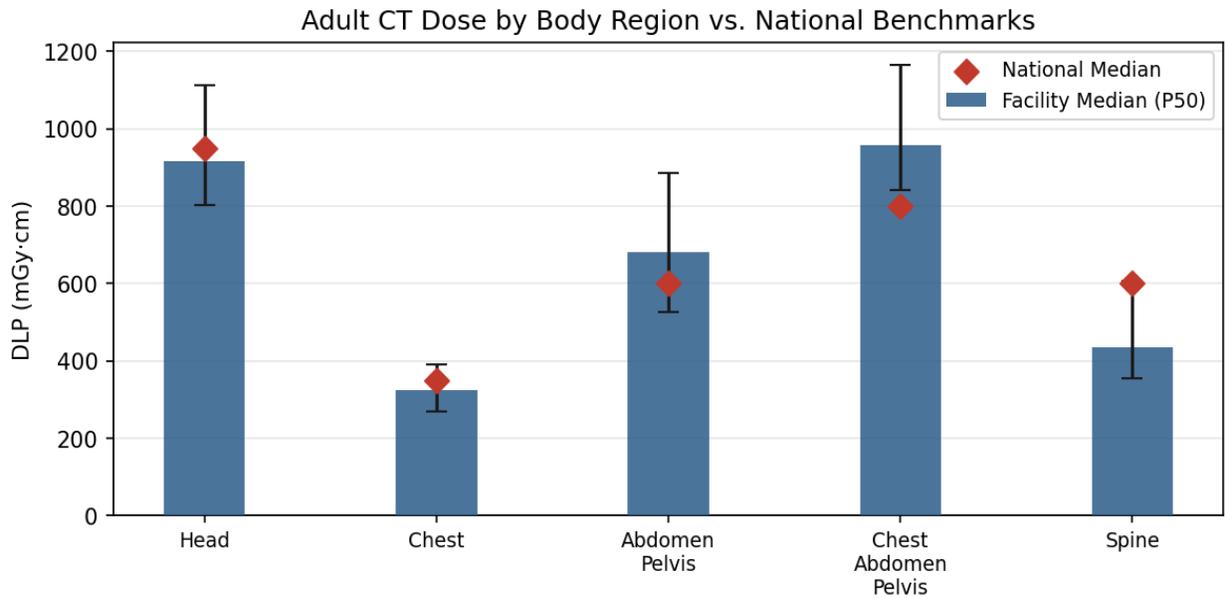
Total Exams: 500

Summary: Analyzed 425 adult and 75 pediatric CT exams across 5 body regions. **1 region(s) above national benchmarks.** 15 individual outlier exams flagged for review.

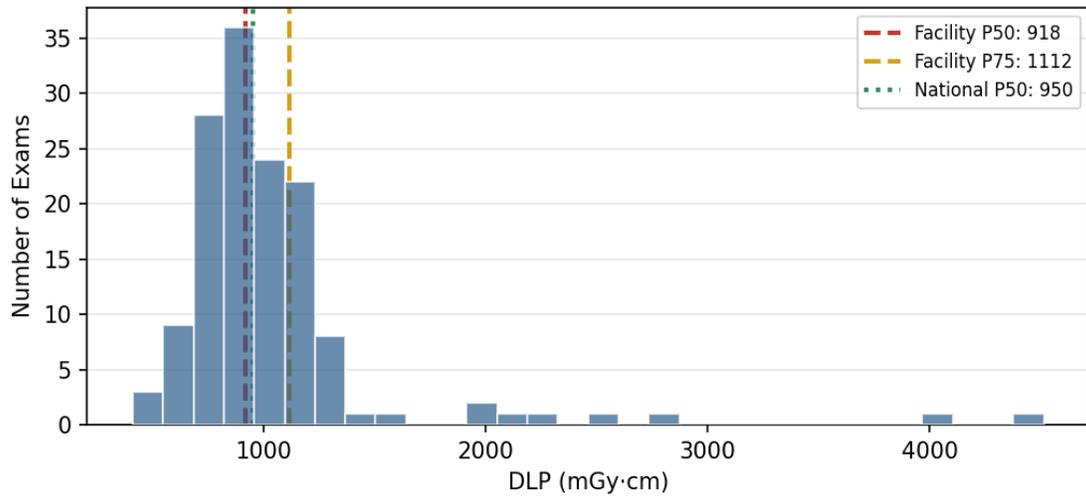
Adult CT Dose Results

DLP values in mGy·cm. Status based on comparison to national ACR DIR benchmark percentiles.

Body Region	N	P25	P50 (Median)	P75	Natl P50	Natl P75	Status
Head	140	804	918	1112	950	1100	ABOVE BENCHMARK
Chest	95	269	324	391	350	500	ACCEPTABLE
Abdomen-Pelvis	123	527	681	887	600	900	ACCEPTABLE
Chest-Abdomen-Pelvis	36	842	956	1165	800	1200	ACCEPTABLE
Spine	31	355	436	606	600	900	ACCEPTABLE



DLP Distribution: Adult Head CT



Pediatric CT Dose Results

DLP values in mGy-cm by Leapfrog age strata. Minimum 10 encounters per stratum required for Leapfrog reporting.

Head

Age Group	N	P25	P50	P75	Natl P50	Natl P75	Status
0-1 years	8	276	299	319	300	400	ACCEPTABLE
1-5 years	9	343	376	398	400	550	GOOD
5-10 years	4	381	464	535	550	700	GOOD
10-15 years	9	604	691	737	700	900	ACCEPTABLE
15-18 years	9	739	814	883	800	1000	ACCEPTABLE

Abdomen-Pelvis

Age Group	N	P25	P50	P75	Natl P50	Natl P75	Status
0-1 years	7	78	86	93	100	200	GOOD
1-5 years	6	102	138	188	150	250	ACCEPTABLE
5-10 years	3	215	234	539	200	350	ABOVE BENCHMARK
10-15 years	7	294	370	421	300	500	ACCEPTABLE
15-18 years	13	376	505	609	450	700	ACCEPTABLE

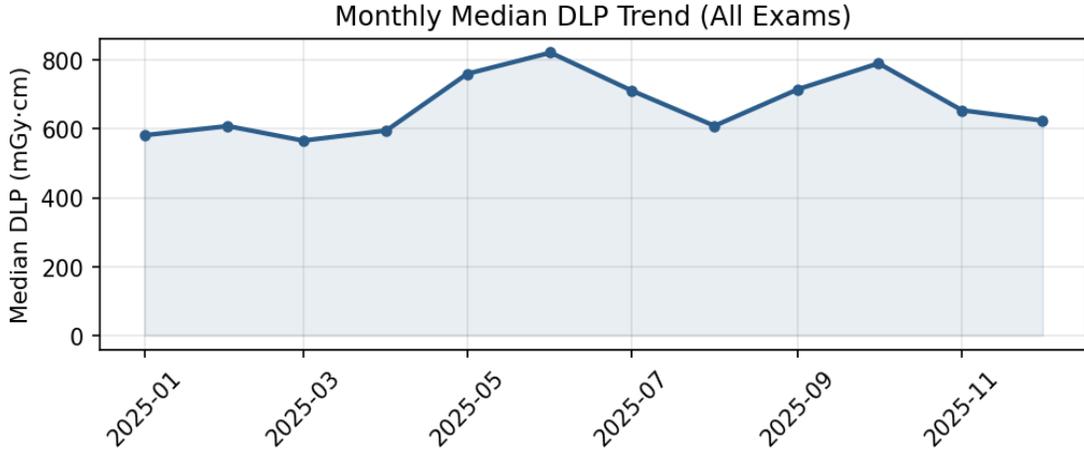
Flagged Outlier Exams

Exams with DLP exceeding 2x the facility's 75th percentile for that body region. These may indicate repeat scans, multi-phase studies, or protocol deviations warranting review.

Region	DLP	Threshold	Date	Description
Head	4513	2225	2025-07-11	CT Head w/o Contrast
Head	2744	2225	2025-02-21	CT Head w/o Contrast
Head	2225	2225	2025-05-18	CT Head w/o Contrast
Head	4095	2225	2025-10-19	CT Head w/ Contrast
Head	2594	2225	2025-03-02	CT Head w/o Contrast
Chest	1438	782	2025-01-05	CT Chest w/o Contrast
Chest	1020	782	2025-05-30	CT Chest w/o Contrast
Chest	969	782	2025-10-21	CT Chest w/o Contrast
Chest	930	782	2025-01-21	CT Chest w/o Contrast
Abdomen-Pelvis	2282	1774	2025-05-09	CT Abdomen Pelvis w/ Contrast
Abdomen-Pelvis	3186	1774	2025-03-12	CT Abdomen Pelvis w/ Contrast
Abdomen-Pelvis	3697	1774	2025-10-10	CT Abdomen Pelvis w/ Contrast
Spine	1362	1212	2025-05-31	CT Lumbar Spine w/o Contrast

Spine	1631	1212	2025-12-17	CT Cervical Spine w/o Contrast
Spine	1249	1212	2025-07-23	CT Lumbar Spine w/o Contrast

Dose Trend Analysis



Methodology: DLP percentiles calculated from all qualifying CT examinations during the reporting period. Exams classified by body region using protocol/study description matching. Benchmarks based on ACR Dose Index Registry national reference levels. Outliers defined as exams with DLP > 2x facility 75th percentile. This report is prepared for Leapfrog Hospital Survey submission and internal dose optimization review.

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