

Supplementary Table 1. Annual visits at the PED and CT use from 2000 to 2014

	Age group	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Annual visits at the PED ^{a)}	Overall ^{b)}	10,785	9,018	9,778	8,057	7,671	10,236	11,069	11,020	11,928	13,555	15,578	16,778	19,005	19,301	22,592
	Infants	5,433	4,034	4,572	3,343	3,041	4,245	4,690	4,456	5,145	5,913	7,503	7,885	9,412	9,265	10,858
	Children	4,481	4,049	4,337	3,806	3,668	4,824	5,085	5,111	5,332	5,942	6,400	7,107	7,733	8,058	9,431
	Adolescents	871	935	869	908	962	1,167	1,294	1,453	1,451	1,700	1,675	1,786	1,860	1,978	2,303
Total CT at the PED ^{c)}	Overall	470	415	511	656	633	909	1,079	1,286	1,274	1,088	1,031	1,058	930	825	831
	Infants	153	108	137	155	197	252	288	348	335	259	221	222	242	190	167
	Children	270	252	301	419	353	524	627	722	726	621	549	452	386	349	355
	Adolescents	47	55	73	82	83	133	164	216	213	208	261	384	302	286	309
Brain CT at the PED ^{d)}	Overall	387	342	397	480	450	650	751	866	806	675	627	587	529	459	439
	Infants	131	87	106	122	150	202	219	277	256	188	157	129	161	106	117
	Children	220	210	234	309	250	376	445	480	453	374	357	253	223	209	181
	Adolescents	36	45	57	49	50	72	87	109	97	113	113	205	145	144	141
Abdomen CT at the PED ^{e)}	Overall	44	43	70	125	122	180	209	298	304	248	262	251	206	198	202
	Infants	11	15	16	21	19	28	35	40	31	29	32	33	29	38	19
	Children	26	27	46	82	81	109	126	185	197	161	129	114	84	74	83
	Adolescents	7	1	8	22	22	43	48	73	76	58	101	104	93	86	100

Values are presented as numbers.

CT, computed tomography; PED, pediatric emergency department.

^{a)}Pediatric patients visiting the PED. ^{b)}Total CT use in all pediatric age groups. ^{c)}Total CT use according to the pediatric age group. ^{d)}Brain, head, and neck regions. ^{e)}Abdomen and genitourinary region.

Supplementary Table 2. The rate of CT use per 1,000 visits at the PED from 2000 to 2014

	Age group	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total CT at the PED ^{a)}	Overall ^{b)}	43.6	46.0	52.3	81.4	82.5	88.8	97.5	116.7	106.8	80.3	66.2	63.1	48.9	42.7	36.8
	Infants	28.2	26.8	30.0	46.4	64.8	59.4	61.4	78.1	65.1	43.8	29.5	28.2	25.7	20.5	15.4
	Children	60.3	62.2	69.4	110.1	96.2	108.6	123.3	141.3	136.2	104.5	85.8	63.6	49.9	43.3	37.6
	Adolescents	54.0	58.8	84.0	90.3	86.3	114.0	126.7	148.7	146.8	122.4	155.8	215.0	162.4	144.6	134.2
Brain CT at the PED ^{c)}	Overall	35.9	37.9	40.6	59.6	58.7	63.5	67.8	78.6	67.6	49.8	40.2	35.0	27.8	23.8	19.4
	Infants	24.1	21.6	23.2	36.5	49.3	47.6	46.7	62.2	49.8	31.8	20.9	16.4	17.1	11.4	10.8
	Children	49.1	51.9	54.0	54.0	68.2	77.9	87.5	93.9	85.0	62.9	55.8	35.6	28.8	25.9	19.2
	Adolescents	41.3	48.1	65.6	54.0	52.0	61.7	67.2	75.0	66.9	66.5	67.5	114.8	78.0	72.8	61.2
Abdomen CT at the PED ^{d)}	Overall	4.1	4.8	7.2	15.5	15.9	17.6	18.9	27.0	25.5	18.3	16.8	15.0	10.8	10.3	8.9
	Infants	2.0	3.7	3.5	6.3	6.2	6.6	7.5	9.0	6.0	4.9	4.3	4.2	3.1	4.1	1.7
	Children	5.8	6.7	10.6	10.6	22.1	22.6	24.8	36.2	36.9	27.1	20.2	16.0	10.9	9.2	8.8
	Adolescents	8.0	1.1	9.2	24.2	22.9	36.8	37.1	50.2	52.4	34.1	60.3	58.2	50.0	43.5	43.4

CT, computed tomography; PED, pediatric emergency department.

^{a)}Total CT use according to the pediatric age group. ^{b)}Total CT use in all pediatric age groups. ^{c)}Brain, head, and neck regions. ^{d)}Abdomen and genitourinary region.

Supplementary Table 3. US use from 2000 to 2014

	Age group	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total US at the PED ^{a)}	Overall ^{b)}	906	778	847	814	776	965	1024	907	1,021	976	1,302	1,279	1,439	1,216	1,240
	Infants	470	388	429	369	306	447	442	409	466	432	633	586	702	529	519
	Children	349	312	343	354	387	421	481	407	446	448	539	583	606	538	552
	Adolescents	87	78	75	91	83	97	101	91	109	96	130	110	131	149	169
Abdomen US at the PED ^{c)}	Overall	728	628	675	647	641	817	840	679	746	764	1,080	1,049	1,171	982	977
	Infants	378	317	349	298	265	385	379	326	360	343	545	496	571	415	424
	Children	274	245	263	276	318	350	380	293	320	351	442	467	488	444	427
	Adolescents	76	66	63	73	58	82	81	60	66	70	93	86	112	123	126

Values are presented as numbers.

US, ultrasound; PED, pediatric emergency department.

^{a)}Total US use according to the pediatric age group. ^{b)}Total US use in all pediatric age groups. ^{c)}Abdomen and genitourinary region.

Supplementary Table 4. The rate of US use per 1,000 visits at the PED from 2000 to 2014

	Age group	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total US at the PED ^{a)}	Overall ^{b)}	84.0	86.3	86.6	101.0	101.2	94.3	92.5	82.3	85.6	72.0	83.6	76.2	75.7	63.0	54.9
	Infants	86.5	96.2	93.8	110.4	100.6	105.3	94.2	91.8	90.6	73.1	84.4	74.3	74.6	57.1	47.8
	Children	77.9	77.1	79.1	93.0	105.5	87.3	94.6	79.6	83.6	75.4	84.2	82.0	78.4	66.8	58.5
	Adolescents	99.9	83.4	86.3	100.2	86.3	83.1	78.1	62.6	75.1	56.5	77.6	61.6	70.4	75.3	73.4
Abdomen US at the PED ^{c)}	Overall	67.5	69.6	69.0	80.3	83.6	79.8	75.9	61.6	62.5	56.4	69.3	62.5	44.3	61.6	43.2
	Infants	69.6	78.6	76.3	89.1	87.1	90.7	80.8	73.2	70.0	58.0	72.6	62.9	60.7	44.8	39.0
	Children	61.1	60.5	60.6	72.5	86.7	72.6	74.7	57.3	60.0	59.1	69.1	65.7	63.1	55.1	45.3
	Adolescents	87.3	70.6	72.5	80.4	60.3	70.3	62.6	41.3	45.5	41.2	55.5	48.2	60.2	62.2	54.7

US, ultrasound; PED, pediatric emergency department.

^{a)}Total US use according to the pediatric age group. ^{b)}Total US use in all pediatric age groups. ^{c)}Abdomen and genitourinary region.