

SUPPLEMENTARY DATA

Table 1 of the supplementary data. Demographic characteristics and dosimetric parameters of the overall sample including mean and median for every variable

	N	Mean		Median	95%CI (median)	IQR
AGE	1090	11.03	(0-18)	6	5.99-7	1.01-14
WEIGHT (kg)	1090	29.69	(1.46-110)	20	19-22.1	8.9-49
HEIGHT (cm)	1090	113.46	(34-193)	114	109-119	73-153
BSA (m²)	1090	0.93	(0.12-2.35)	0.8	0.77-0.87	0.4-1.44
AIR KERMA	889	286.26	(1.8-5.523)	83.02	76.47-92.8	36.45-2471.3
DAP	1090	3783.27	(10.67-77.90)	1128.9	975.62-1275	358-4293.7
FLUOROSCOPY	1090	21.29	(0.81-239.83)	15.12	14.13-16.2	7.7-26.51
DAP/fluoroscopy	1090	216.18	(1.37-3900)	77.62	70.11-88.89	29.48-235.35
DAP/kg	1090	132.38	(0.37-4566.67)	62.3	56.75-69.03	29.01-146.91
DAP/BSA	1090	3500.87	(14.94-59 565.22)	1633.57	1480-1811.09	689.52-3979.2
DAP/kg/fluoroscopy	1090	8.28	(0.03-222.2)	3.81	3.54-4.06	2.26-7.41
DAP/BSA/fluoroscopy	1090	213.84	(1.03-2898.55)	99.73	91.99-107.09	56.19-202.3

95%CI, 95% confidence interval; BSA, body surface area; DAP, dose-area product; IQR, interquartile range.

DAP/kg ($\mu\text{Gy}\cdot\text{m}^2/\text{kg}$); DAP/kg/fluoroscopy ($\mu\text{Gy}\cdot\text{m}^2/\text{kg}/\text{min}$); DAP/BSA/fluoroscopy ($\mu\text{Gy}\cdot\text{m}^2/\text{m}^2/\text{min}$).

Table 2 of the supplementary data. Demographic characteristics and dosimetric parameters of the REC I group population including mean and median for every variable

REC I GROUP	N	Mean	Median	95%CI (median)	IQR
AGE	743	11.65 (0-81)	6	5.99-7	1.01-14
WEIGHT (kg)	743	29.86 (1.46-110)	20	18.9-23	9.01-48
HEIGHT (cm)	743	113.3 (34-193)	114	108-120	74-153
BSA (m²)	743	0.93 (0.12-2.35)	0.8	0.76-0.88	0.41-1.44
AIR KERMA	607	163.28 (3.2-2871)	63.7	56.36-72	30-150.54
DAP	743	2648.97 (18.72-41 039.6)	756.3	640-912.2	274.6-3310
FLUOROSCOPY	743	15.66 (0.81-239.83)	11.48	10.9-12.22	6.2-19.6
DAP/fluoroscopy	743	226.05 (1.38-3900)	77.04	67.53-88.66	28.33-226.87
DAP/kg	743	95.04 (0.37-4566.67)	48.07	43.61-53.13	21.96-103.33
DAP/BSA	743	2486.06 (14.94-59 565.22)	1216	1075.8-1360.95	537.69-2882.03
DAP/kg/fluoroscopy	743	8.3 (0.03-222.22)	3.61	3.39-3.88	2.22-7.06
DAP/BSA/fluoroscopy	743	219.45 (1.03-2898.55)	92.91	87.47-102.88	56.19-192.24

95%CI, 95% confidence interval; BSA, body surface area; DAP, dose-area product; IQR, interquartile range; REC, radiation exposure category.

DAP/kg (μGy.m²/kg); DAP/kg/fluoroscopy (μGy.m²/kg/min); DAP/BSA/fluoroscopy (μGy.m²/ m²/min).

Table 3 of the supplementary data. Demographic characteristics and dosimetric parameters of the REC II group population including mean and median for every variable

REC II GROUP	N	Mean		Median	95%CI (median)	IQR
AGE	145	8.13	(0-42)	5	4.01-8	1-12.64
WEIGHT (kg)	145	27.5	(1.8-105)	16.3	14-22	9.01-47
HEIGHT (cm)	145	111.14	(38-191)	106	97-119	75-149
BSA (m ²)	145	0.89	(0.13-2.29)	0.7	0.6-0.87	0.41-1.37
AIR KERMA	130	528.27	(11.8-4.730)	151	132-228.3	83.25-427.81
DAP	145	5620.8	(27.75-60 000)	1537.8	1245.3-2396	634-5752
FLUOROSCOPY	145	35.26	(4.77-156.95)	28.53	24.4-32.6	18-43.93
DAP/fluoroscopy	145	166.17	(1.37-1126.82)	57.72	41.15-83.42	24.5-237.17
DAP/kg	145	182.23	(1.66-1480)	104.66	80.7-130	52.99-216.47
DAP/BSA	145	5031.8	(45.78-33 636.36)	2552.56	2107.95-2934.63	1242.22-6088.14
DAP/kg/fluoroscopy	145	5.8	(0.1-45.68)	3.6	3-4.38	2.18-7.14
DAP/BSA/fluoroscopy	145	155.76	(2.9-1038.16)	96.25	76.19-111.16	47.88-178.99

95%CI, 95% confidence interval; BSA, body surface area; DAP, dose-area product; IQR, interquartile range; REC, radiation exposure category.

DAP/kg (μGy.m²/kg); DAP/kg/fluoroscopy (μGy.m²/kg/min); DAP/BSA/fluoroscopy (μGy.m²/ m²/min).

Table 4 of the supplementary data. Demographic characteristics and dosimetric parameters of the REC III group population including mean and median for every variable.

REC III GROUP	N	Mean		Median	95%CI (median)	IQR
AGE	22	25.45	(8-54)	20.5	15-34	15-36
WEIGHT (kg)	22	59.97	(30-90)	61.55	49-73	46.5-75
HEIGHT (cm)	22	160.77	(124-185)	165	154-177	149-175
BSA (m ²)	22	1.62	(1-2.13)	1.71	1.46-1.85	1.38-1.87
AIR KERMA	17	921.86	(210-2480)	774.97	430-903.88	420-903.88
DAP	22	13 428.15	(4292-35 394)	12 186.5	8097-15 909	7733.2-17 164.4
FLUOROSCOPY	22	34.19	(14.1-57.6)	33.34	24.5-44.2	24.02-48
DAP/fluoroscopy	22	435.66	(106.5-1217.33)	365.7	279.4-540.74	249.08-570.21
DAP/kg	22	222.38	(65.84-471.92)	213.47	161.94-291.65	145.09-293.48
DAP/BSA	22	8043.72	(2629.78-18 244.33)	7702.76	5545.89-8954.8	5195.95-9782.61
DAP/kg/fluoroscopy	22	7.13	(1.49-1602)	7.03	5.27-8.94	4.51-9.54
DAP/BSA/fluoroscopy	22	259.65	(59.5-627.49)	237.41	180.49-323.94	167.89-364.2

95%CI, 95% confidence interval; BSA, area of body Surface; DAP, dose-area product; IQR, interquartile range; REC, radiation exposure category.

DAP/kg ($\mu\text{Gy}\cdot\text{m}^2/\text{kg}$); DAP/kg/fluoroscopy ($\mu\text{Gy}\cdot\text{m}^2/\text{kg}/\text{min}$); DAP/BSA/fluoroscopy ($\mu\text{Gy}\cdot\text{m}^2/\text{m}^2/\text{min}$).

Table 5 of the supplementary data. Demographic characteristics and dosimetric parameters of the “pediatric cath lab” population including mean and median for every variable

Pediatric cath lab	N	Mean		Median	95%CI (median)	IQR
AGE	691	5.79	(0-43)	4	3.99-5	0.21-10
WEIGHT (kg)	691	22.62	(1.46-105)	16	15-18	7.1-32
HEIGHT (cm)	691	103.24	(34-187)	101	97-105	68-138
BSA (m²)	691	0.77	(0.12-2.29)	0.67	0.6-0.7	0.31-1.11
AIR KERMA	590	331.96	(2-5523)	92.85	80.6-109.8	39.9-276.55
DAP	691	2844.1	(10.67-60 048)	672	586.28-759.2	278.9-2412
FLUOROSCOPY	691	23.23	(0.81-239.83)	16.07	14.35-17.58	8.13-28.77
DAP/fluoroscopy	691	125.68	(1.37-2998.92)	46.79	41.83-53.12	23.39-121.82
DAP/kg	691	107.46	(2.46-1250.52)	54.67	50.2-60.06	25.83-123.83
DAP/BSA	691	2793.63	(48-34 313.14)	1275.99	1115.22-1439.99	595.94-2934.63
DAP/kg/fluoroscopy	691	5.03	(0.4-77.27)	3.4	3.17-3.63	2.17-6.16
DAP/BSA/fluoroscopy	691	129.71	(8.85-2142.86)	82.85	78.15-87.53	48.41-143.11

95%CI, 95% confidence interval; BSA, body surface area; DAP, dose-area product; IQR, interquartile range.

DAP/kg (μGy.m²/kg); DAP/kg/fluoroscopy (μGy.m²/kg/min); DAP/BSA/fluoroscopy (μGy.m²/ m²/min).

Table 6 of the supplementary data. Demographic characteristics and dosimetric parameters of the “adult cath lab” population including mean and median for every variable

Adult cath lab	N	Mean		Median	95%CI (median)	IQR
AGE	100	39.52	(17-81)	34	30-42	25-53.5
WEIGHT (kg)	100	67.99	(40.9-102.8)	66.9	62.8-71.2	57.1-80.95
HEIGHT (cm)	100	165.95	(137-193)	165	163-170	158-174.5
BSA (m ²)	100	1.75	(1.33-2.24)	1.72	1.69-1.78	1.6-1.94
AIR KERMA	0
DAP	100	7112.22	(25.7-77 900)	3871.5	3280-5380	2235-7765.5
FLUOROSCOPY	100	25.48	(1.3-103.6)	20.57	17.1-25.04	13.2-33.9
DAP/fluoroscopy	100	253.61	(1.77-1824.36)	200.3	176.45-252.89	142.73-305.97
DAP/kg	100	107.98	(0.37-1416.36)	64.04	52.24-78.72	32.02-113.48
DAP/BSA	100	4100.07	(14.94-47 500)	2207.29	2046.78-3030.3	1227.25-4421.63
DAP/kg/fluoroscopy	100	3.89	(0.03-33.17)	3.22	2.81-3.62	2.09-4.4
DAP/BSA/fluoroscopy	100	147.48	(1.03-1112.41)	125.51	102.58-136.67	82.2-169.54

95%CI, 95% confidence interval; BSA, body surface area; DAP, dose-area product; IQR, interquartile range.

DAP/kg (μGy.m²/kg); DAP/kg/fluoroscopy (μGy.m²/kg/min); DAP/BSA/fluoroscopy (μGy.m²/ m²/min).

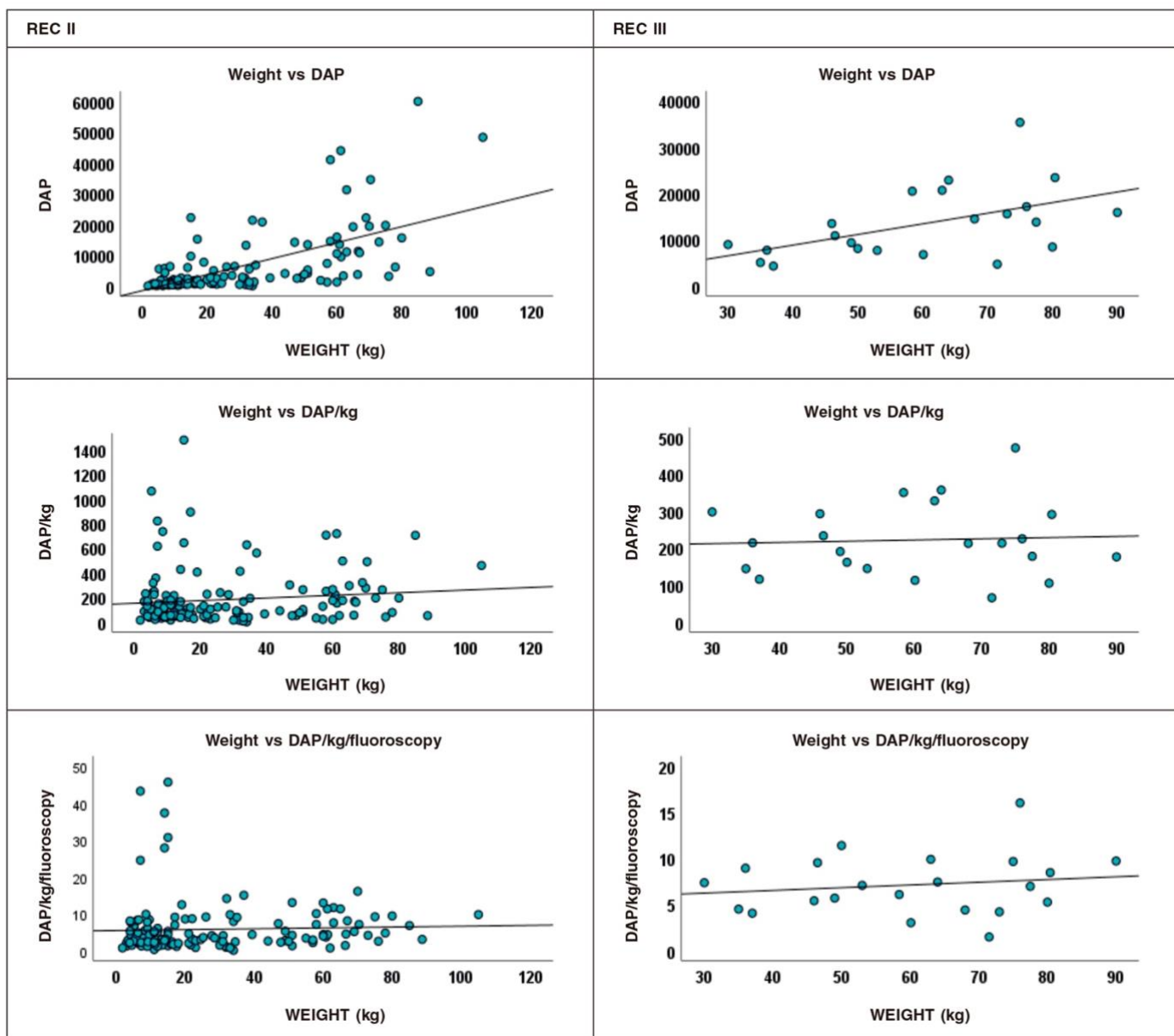
Table 7 of the supplementary data. Demographic characteristics and dosimetric parameters of the “hybrid cath lab” population including mean and median for every variable.

Hybrid cath lab	N	Mean		Median	95%CI (median)	IQR
AGE	299	13.61	(0-80)	7	6.99-9	1.01-16
WEIGHT (kg)	299	33.23	(3-110)	26	24-31.8	10.01-53
HEIGHT (cm)	299	119.52	(45-187)	125	119-131	82-157
BSA (m²)	299	1.01	(0.19-2.35)	0.96	0.87-1.05	0.45-1.53
AIR KERMA	299	196.09	(1.8-2871)	75.05	62-83.39	31.89-180.9
DAP	299	4840.37	(23.94-42 287)	2355.4	1650-2865	594.4-6800
FLUOROSCOPY	299	15.43	(1.75-120)	11.51	10.4-13.2	6.37-20.48
DAP/fluoroscopy	299	412.82	(1.38-3900)	208.96	164.73-248.63	56.09-568.42
DAP/kg	299	198.12	(1.66-4566.67)	94	75.21-117.09	37.55-234.17
DAP/BSA	299	4934.9	(45.78-59 565.22)	2629.78	1981.33-3255.03	992-6838.71
DAP/kg/fluoroscopy	299	17.25	(0.1-222.22)	6.98	5.51-8.47	2.83-24.44
DAP/BSA/fluoroscopy	299	430.48	(2.9-2898.55)	211.48	173.57-253.71	75.52-622.55

95%CI, 95% confidence interval; BSA, body surface area; DAP, dose-area product; IQR, interquartile range.

DAP/kg ($\mu\text{Gy}\cdot\text{m}^2/\text{kg}$); DAP/kg/fluoroscopy ($\mu\text{Gy}\cdot\text{m}^2/\text{kg}/\text{min}$); DAP/BSA/fluoroscopy ($\mu\text{Gy}\cdot\text{m}^2/\text{m}^2/\text{min}$).

Figure 1 of the supplementary data. Scatter plots including weight (kg) vs DAP ($\mu\text{Gy}\cdot\text{m}^2$), weight vs DAP/kg ($\mu\text{Gy}\cdot\text{m}^2/\text{kg}$), and weight vs DAP/kg/fluoroscopy ($\mu\text{Gy}\cdot\text{m}^2/\text{kg}/\text{min}$). REC II and REC III groups.



DAP, dose-area product; REC, radiation exposure category.