

Supplemental Material

Supplemental Table 1: Socio-demographic characteristics (data before imputation) of patients who started dialysis in France in 2015 in function of the dialysis initiation (planned or in emergency) and vascular access (with fistula or catheter).

Supplemental Table 2: Clinical and biological characteristics (data before imputation) of patients who started dialysis in France in 2015 in function of the dialysis initiation (planned or in emergency) and vascular access (with fistula or catheter).

Supplemental Table 3: Comorbidities (data before imputation) of patients who started dialysis in France in 2015 in function of the dialysis initiation (planned or in emergency) and vascular access (with fistula or catheter).

Supplemental Table 4: Dialysis characteristics (data before imputation) of patients who started dialysis in France in 2015 in function of the dialysis initiation (planned or in emergency) and vascular access (with fistula or catheter).

Supplemental Table 5: Healthcare consumption (data before imputation) of patients who started dialysis in France in 2015 in function of the dialysis initiation (planned or in emergency) and vascular access (with fistula or catheter).

Supplemental Table 1: Socio-demographic characteristics (data before imputation) of patients who started dialysis in France in 2015 in function of the dialysis initiation (planned or in emergency) and vascular access (with fistula or catheter).

Variable	Dialysis initiation and vascular access				Missing (N = 503)	p-value (Chi2 test)
	Planned with catheter (N = 2206)	Planned with fistula (N = 3514)	Emergency with catheter (N = 2255)	Emergency with fistula (N = 378)		
Sex						<0.001
Women	857 (39%)	1208 (34%)	785 (35%)	115 (30%)	196	
Men	1349 (61%)	2306 (66%)	1470 (65%)	263 (70%)	307	
Age						<0.001
18 - 45 years	147 (6%)	286 (8%)	221 (9%)	25 (7%)	57	
45 - 60 years	329 (15%)	604 (17%)	333 (15%)	61 (16%)	61	
60 - 75 years	747 (34%)	1305 (37%)	809 (36%)	133 (35%)	164	
>75 years	983 (45%)	1319 (38%)	892 (40%)	159 (42%)	221	
BMI						<0.001
23-24	296 (14%)	466 (13%)	262 (12%)	47 (12%)	81	
<18.5	84 (4%)	54 (2%)	81 (4%)	11 (3%)	13	
18.5 - 22	464 (21%)	622 (18%)	526 (23%)	72 (19%)	1008	
25 - 29	529 (24%)	1072 (30%)	527 (23%)	101 (27%)	140	
≥30	425 (19%)	841 (24%)	387 (17%)	86 (23%)	80	
Missing	408 (18%)	459 (13%)	472 (21%)	61 (16%)	81	
Employment						0.002
Not active	1811 (82%)	2781 (88%)	1818 (90%)	308 (81%)	398	
Active	174 (8%)	382 (12%)	210 (10%)	33 (9%)	58	
Missing	221 (10%)	351 (10%)	227 (10%)	37 (10%)	47	
Tobacco						0.04
Smoker/Ex-smoker	767 (35%)	1,260 (36%)	814 (36%)	164 (43%)	201	

Non-smoker	1023 (46%)	1715 (49%)	1063 (47%)	166 (44%)	220
Missing	416 (19%)	539 (15%)	378 (17%)	48 (13%)	82

BMI, Body Mass Index; Values are expressed as N (%); The Chi2 test don't take into account of missing values

Supplemental Table 2: Clinical and biological characteristics (data before imputation) of patients who started dialysis in France in 2015 in function of the dialysis initiation (planned or in emergency) and vascular access (with fistula or catheter).

Variable	Dialysis initiation and vascular access				Missing (N = 503)	p-value (Chi2 test)
	Planned with catheter (N = 2206)	Planned with fistula (N = 3514)	Emergency with catheter (N = 2255)	Emergency with fistula (N = 378)		
Nephropathy type						<0.001
Acute	334 (15%)	273 (7.8%)	383 (17%)	36 (9.5%)	50	
Chronic	1439 (65%)	2604 (74%)	1357 (60%)	251 (66%)	312	
Unknown	433 (20%)	637 (18%)	515 (23%)	91 (24%)	141	
Albuminemia						<0.001
<30 g/L	473 (21%)	344 (10%)	609 (27%)	76 (20%)	55	
≥30 g/L	1478 (67%)	2713 (77%)	1314 (58%)	249 (66%)	375	
Missing	255 (12%)	457 (13%)	332 (15%)	53 (14%)	73	
eGFR						<0.001
5 – 9 mL/min/1.73 m ²	1079 (49%)	1917 (55%)	937 (42%)	172 (46%)	211	
<5 mL/min/1.73 m ²	331 (15%)	282 (8%)	501 (22%)	66 (17%)	36	
10 – 14 mL/min/1.73 m ²	431 (19%)	796 (23%)	350 (15%)	76 (20%)	128	
15 – 19 mL/min/1.73 m ²	104 (5%)	125 (4%)	102 (5%)	16 (4%)	27	
≥20 mL/min/1.73 m ²	73 (3%)	65 (1%)	109 (5%)	13 (4%)	42	
Missing	188 (9%)	329 (9%)	256 (11%)	35 (9%)	59	
Hemoglobin						<0.001
<10 g/dL	1329 (60%)	1563 (45%)	1505 (67%)	212 (56%)	151	

10 – 11 g/dL	577 (26%)	1247 (35%)	472 (21%)	101 (27%)	200
≥12 g/dL	221 (10%)	599 (17%)	175 (8%)	47 (12%)	126
Missing	79 (4%)	105 (3%)	103 (4%)	18 (5%)	26
Mobility					<0.001
Total incapacity	115 (5%)	58 (2%)	163 (7%)	21 (5%)	22
Needs help	305 (14%)	220 (6%)	335 (15%)	48 (13%)	55
Autonomous walking	1613 (73%)	2988 (85%)	1551 (69%)	256 (68%)	388
Missing	173 (8%)	248 (7%)	206 (9%)	53 (14%)	38

eGFR, estimated glomerular filtration rate; Values are expressed as N (%); The Chi2 test don't take into account of missing values

Supplemental Table 3: Comorbidities (data before imputation) of patients who started dialysis in France in 2015 in function of the dialysis initiation (planned or in emergency) and vascular access (with fistula or catheter).

Variable	Dialysis initiation and vascular access				Missing (N = 503)	p-value (Chi2 test)
	Planned with catheter (N = 2206)	Planned with fistula (N = 3514)	Emergency with catheter (N = 2255)	Emergency with fistula (N = 378)		
Cirrhosis						0.3
No	2093 (95%)	3351 (95%)	2121 (94%)	354 (94%)	477	
Yes	58 (3%)	77 (2%)	66 (3%)	12 (3%)	17	
Missing	55 (2%)	86 (3%)	68 (3%)	12 (3%)	9	
Active cancer						<0.001
No	1875 (85%)	3167 (90%)	1878 (83%)	323 (5%)	452	
Yes	276 (12%)	272 (8%)	312 (14%)	41 (11%)	41	
Missing	55 (3%)	75 (2%)	65 (3%)	14 (4%)	10	
Diabetes						0.006
No	1185 (54%)	1959 (56%)	1208 (54%)	181 (48%)	297	
Yes	1007 (46%)	1542 (44%)	1038 (46%)	196 (52%)	203	

Missing	14 (0%)	13 (0%)	9 (0%)	1 (0%)	3	
Chronic respiratory disease						<0.001
No	1802 (82%)	2891 (82%)	1763 (78%)	285 (75%)	410	
Yes	324 (15%)	521 (15%)	407 (18%)	79 (21%)	81	
Missing	80 (3%)	102 (3%)	85 (4%)	14 (4%)	12	
Number of cardiovascular diseases						<0.001
0	952 (43%)	1746 (50%)	861 (38%)	138 (37%)	205	
1	517 (23%)	811 (23%)	502 (22%)	88 (23%)	92	
2	362 (16%)	479 (14%)	395 (18%)	67 (18%)	81	
≥3	375 (17%)	478 (14%)	497 (22%)	85 (22%)	125	
Disability						0.002
No	2038 (92%)	3337 (95%)	2099 (93%)	355 (94%)	472	
Yes	168 (8%)	177 (5%)	156 (7%)	23 (6%)	31	
Behavioral disorder						0.03
No	1933 (88%)	3202 (91%)	1963 (87%)	327 (87%)	457	
Yes	85 (4%)	85 (2%)	67 (3%)	13 (3%)	16	
Missing	188 (8%)	227 (6%)	225 (10%)	38 (10%)	30	

Values are expressed as N (%); The Chi2 test don't take into account of missing values

Supplemental Table 4: Dialysis characteristics (data before imputation) of patients who started dialysis in France in 2015 in function of the dialysis initiation (planned or in emergency) and vascular access (with fistula or catheter).

Variable	Dialysis initiation and vascular access				Missing (N = 503)	p-value (Chi2 test)
	Planned with catheter (N = 2206)	Planned with fistula (N = 3514)	Emergency with catheter (N = 2255)	Emergency with fistula (N = 378)		

Dialysis modality						<0.001
Peritoneal dialysis	71 (3%)	283 (8%)	13 (1%)	14 (4%)	431	
Hemodialysis	2135 (97%)	3231 (92%)	2242 (99%)	364 (96%)	72	
Stand-alone dialysis						<0.001
No	2137 (97%)	3025 (86%)	2227 (99%)	358 (95%)	250	
Yes	64 (3%)	483 (14%)	28 (1%)	20 (5%)	240	
Missing	5 (0%)	6 (0%)	0 (0%)	0 (0%)	13	
Vascular approach						<0.001
Arteriovenous fistula	182 (8%)	3002 (86%)	170 (7%)	310 (82%)	48	
Catheter	1732 (79%)	120 (3%)	1763 (78%)	38 (10%)	19	
Bypass surgery	15 (1%)	87 (3%)	13 (1%)	9 (2%)	0	
Other	202 (9%)	13 (0%)	292 (13%)	6 (2%)	3	
Missing	75 (3%)	292 (8%)	17 (1%)	15 (4%)	433	

Values are expressed as N (%); The Chi2 test don't take into account of missing values

Supplemental Table 5: Healthcare consumption (data before imputation) of patients who started dialysis in France in 2015 in function of the dialysis initiation (planned or in emergency) and vascular access (with fistula or catheter).

Variable	Dialysis initiation and vascular access				Missing (N = 503)	p-value (Chi2 test)
	Planned with catheter (N = 2206)	Planned with fistula (N = 3514)	Emergency with catheter (N = 2255)	Emergency with fistula (N = 378)		
Number of visits to a general practitioner in the year before dialysis						<0.001
[1-7]	868 (39%)	1620 (46%)	982 (44%)	135 (36%)	233	

0	148 (7%)	195 (6%)	208 (9%)	30 (8%)	38
≥8	1190 (54%)	1699 (48%)	1065 (47%)	213 (56%)	232
Number of visits to a nephrologist in the penultimate semester before dialysis					<0.001
1	463 (21%)	729 (21%)	370 (16%)	80 (21%)	107
0	1153 (52%)	896 (25%)	1417 (63%)	150 (40%)	183
2	321 (15%)	889 (25%)	283 (13%)	91 (24%)	103
>2	269 (12%)	1000 (28%)	185 (8%)	57 (15%)	110
Number of visits to a nephrologist in the final semester before dialysis					<0.001
1	410 (19%)	402 (11%)	374 (17%)	70 (19%)	78
0	761 (34%)	436 (12%)	1186 (53%)	86 (23%)	106
2	385 (17%)	705 (20%)	326 (14%)	88 (23%)	84
>2	650 (29%)	1971 (56%)	369 (16%)	134 (35%)	235
Number of creatinine measurements in the year before dialysis					<0.001
[1-12]	896 (41%)	1478 (42%)	736 (33%)	133 (35%)	210
0	478 (22%)	303 (8.6%)	801 (36%)	59 (16%)	46
≥13	832 (38%)	1733 (49%)	718 (32%)	186 (49%)	247
Number of hospital stays for ≥24h for kidney problems in the year before dialysis					<0.001
0	823 (37%)	1636 (47%)	1031 (46%)	145 (38%)	182
1	475 (22%)	742 (21%)	400 (18%)	64 (17%)	118
≥2	908 (41%)	1136 (32%)	824 (37%)	169 (45%)	203
Number of hospital stays for ≥24h for other problems in the year before dialysis					<0.001
0	1633 (74%)	2888 (82%)	1614 (72%)	307 (81%)	400
1	315 (14%)	412 (12%)	327 (15%)	49 (13%)	55
≥2	258 (12%)	214 (6%)	314 (14%)	22 (6%)	48

Number of hospital stays to prepare for dialysis in the year before dialysis						<0.001
0	1590 (72%)	1310 (37%)	1906 (85%)	173 (46%)	171	
≥1	616 (28%)	2204 (63%)	349 (15%)	205 (54%)	332	
Number of ambulatory stays in the year before dialysis						<0.001
0	1471 (67%)	2166 (62%)	1550 (69%)	248 (66%)	278	
1	394 (18%)	739 (21%)	401 (18%)	79 (21%)	107	
≥2	341 (15%)	609 (17%)	304 (13%)	51 (13%)	118	

Values are expressed as N (%); The Chi2 test don't take into account of missing value