



# Presentation and 1995 Report

-  Presentation
-  Regions & Centers
-  Prevalence
-  Incidence 95
-  Sex & Age distrib.
-  Primary renal dis.
-  ESRD treatment
-  Mortality
-  Committee
-  Contacts

The Italian Registry of Dialysis and Transplantation (RIDT) was born in 1996 on the initiative of the [Italian Society of Nephrology \(SIN\)](#) and its **Gruppo di Informatica**. It brings together the experiences and data derived from the various **Regional Registries** with the aim of providing a comprehensive overview of the treatment of uremia throughout the country.

The aims of this first survey were to identify the number of patients receiving Regular Replacement Treatment (RRT) as of 31/12/1995 (the point prevalence of End-Stage Renal Failure [ESRF] patients), those who began RRT during 1995 (the incidence of ESRF patients) and those who died. Data regarding renal transplantation need further evaluation and are not shown in detail.

The present report of the Italian Registry of Dialysis and Transplant covers data from 597 Italian Dialysis Centers (out of 620) with a distribution rate of 10.4 pmp. At 31/12/1995 the total number of patients receiving RRT for ESRF was 40125 with a global prevalence of about 690 patients pmp; 33698 patients (84%) were on dialysis and 6427 (16%) were transplanted.

During 1995 6748 ESRF patients started RRT (118 pmp), and 885 new transplantation were performed (23.4 pmp). Seventy-six percent of the dialysis patients were receiving hospital treatment, 11.4% were on home treatment (10.4% on CAPD and 1% on home HD), 12.6% were treated in limited-care Units. The gross mortality rate recorded in 1995 was about 11%, the main causes of death being cardiovascular (55%). Within the limits of any initial data collection, the present survey offers a reasonably complete picture of RRT in Italy.

The Italian Registry was created in 1997 on a federate basis and brings together the experiences and data collected from the various Regional Registries, being each Regional Registry responsible for collecting and validating data in a standardised manner. Because of the existing differences in the operational levels of the Regional Registries, the data will probably require further reviews in the future

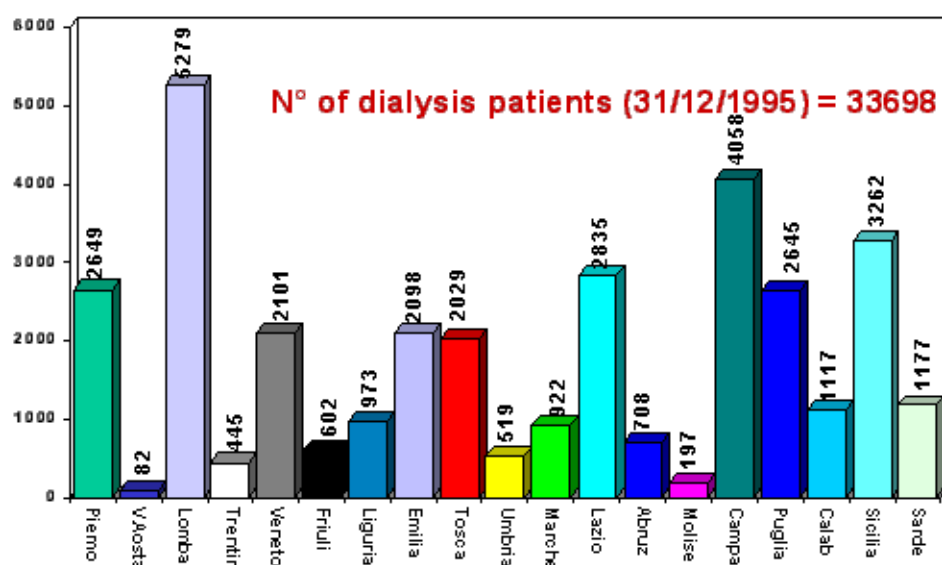
## Italian Registry of Dialysis and Transplant

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- 📁 Committee
- 📁 Contacts

**Italian Dialysis Centers** **611**

**Responding Dialysis Centers** **597 (97.7%)**

- *National Health Service* **348 (58%)**
- *Private Centers* **249 (42%)**





## 31/12/1995 prevalence and prevalence rate per million population of ESRF patients on RRT (dialysis and transplantation) .

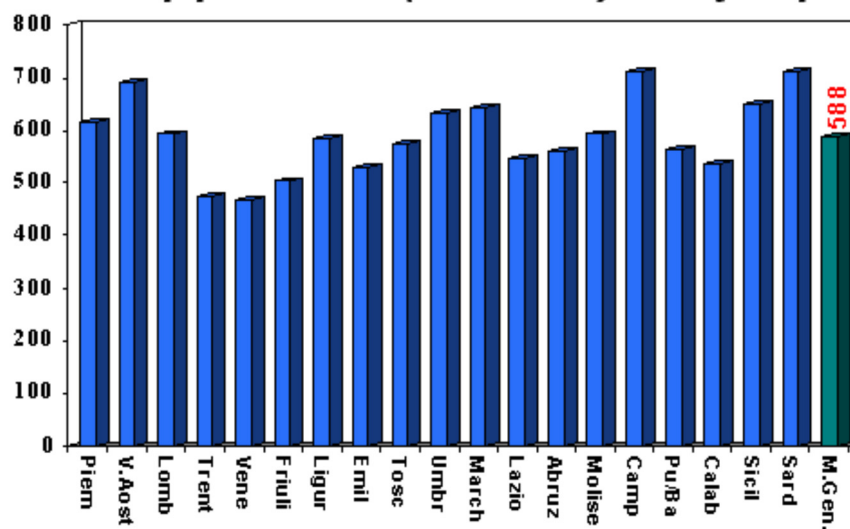
- [Presentation](#)
- [Regions & Centers](#)
- [Prevalence](#)
- [Incidence 95](#)
- [Sex & Age distrib.](#)
- [Primary renal dis.](#)
- [ESRD treatment](#)
- [Mortality](#)
- [Committee](#)
- [Contacts](#)

Region	ESRF patients on dialysis (31/12/95 prevalence)	Prevalence rate on Dialysis (pmp)	ESRF patients on transplant (31/12/95 prevalence)	Prevalence rate on Transplantation /pmp	ESRF patients on RRT (prevalent 31/12 /95)	Prevalence rate on RRT /pmp
<b>Piedmont</b>	2649	615	655	152	3304	767
<b>Valla d'Aosta</b>	82	693	23	194	105	888
<b>Lombardy</b>	5279	593	1748	196	7027	789
<b>Trentino A. Adige</b>	445	475	261	278	706	754
<b>Veneto</b>	2101	467	1072	238	3173	707
<b>Friuli Ven. Giulia</b>	602	504	142	119	744	624
<b>Liguria</b>	973	585	n.a..	n.a..	973 *	585*
<b>Emilia</b>	2098	529	451	113	2549	643
<b>Tuscany</b>	2029	575	401	113	2430	689
<b>Umbria</b>	519	633	97	118	616	752
<b>Marche</b>	922	641	225	156	1147	798
<b>Lazio</b>	2835	546	n.a.	n.a.	2835*	546*
<b>Abruzzo</b>	708	560	149	117	857	679
<b>Molise</b>	197	593	n.a.	n.a.	197*	593*
<b>Campania</b>	4058	710	n.a.	n.a.	4058*	710*
<b>Puglia Basilicata</b>	2645	565	444	95	3089	661
<b>Calabria</b>	1117	537	246	118	1363	655
<b>Sicily</b>	3262	649	200	40	3462	689
<b>Sardinia</b>	1177	710	313	188	1490	899
<b>Italy</b>	<b>33698</b>	<b>588</b>	<b>6427</b>	<b>112</b>	<b>40125</b>	<b>700</b>

(\*= only dialysis patients, n.a. = not available data.)

## Italian Registry of Dialysis and Transplant

***Pmp prevalence (31/12/1995) - Dialysis patients***



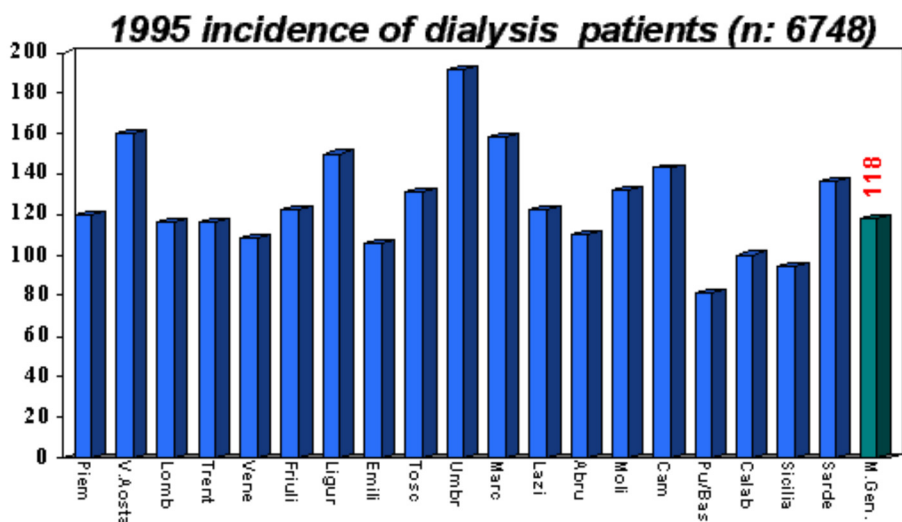


## Incidence (1995) and Prevalence on Dialysis in the Italian Regions.

Region	Incident patients on dialysis 1995	Incidence rate on dialysis (pmp)	Prevalent patients on dialysis	Prevalence rate on dialysis (pmp)
Piedmont	519	120	2649	615
Aosta	19	160	82	693
Lombardy	1033	116	5279	593
Trentino Alto Adige	109	116	445	475
Veneto	486	108	2101	467
Friuli Venezia Giulia	147	123	602	504
Liguria	251	150	973	585
Emilia	419	105	2098	529
Tuscany	463	131	2029	575
Umbria	158	192	519	633
Marche	228	158	922	641
Lazio	638	123	2835	546
Abruzzo	140	110	708	560
Molise	44	132	197	593
Campania *	818	143	4058	710
Puglia- Basilicata	369	79	2645	565
Calabria	207	100	1117	537
Sicily *	473	94	3262	649
Sardinia	227	137	1177	710
<b>Italy</b>	<b>6748</b>	<b>118</b>	<b>33698</b>	<b>588</b>

(\*values of Campania and Sicily are estimated from about 75% of collected data)

## Italian Registry of Dialysis and Transplant



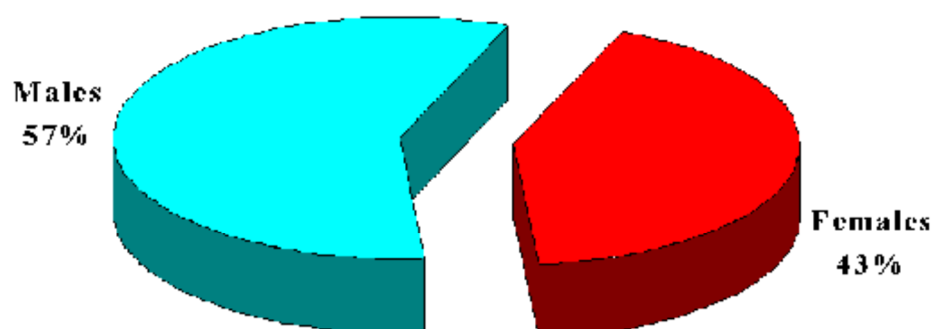




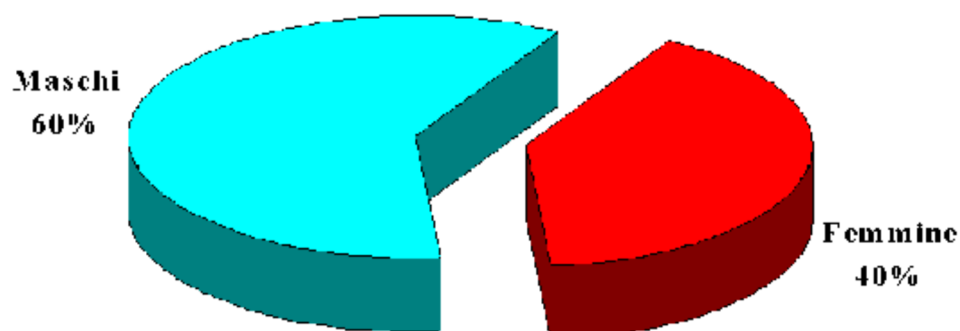
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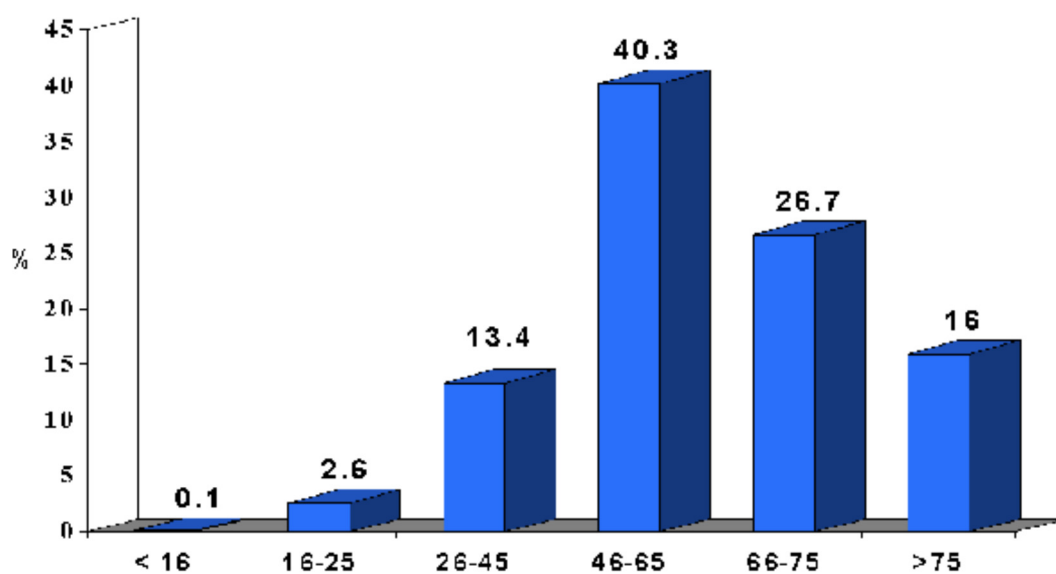
### Sex prevalence (data available in 29123 pts, 86%)



### Sex incidence 1995 (data available in 3613 pts, 54%)



### ***Age classes prevalence : n 22815 (68%)***





## Primary renal diseases in ESRD prevalent population at 31/12/1995.

	Prevalent %	Incident %
Uncertain aetiology	20,9	18,4
Glomerulonephritis (GN)	23,2	12,5
Interstitial Nephritis - Pyelonephritis	14,6	9,6
Hereditary - Cystic Diseases	11,3	6,9
Vascular Diseases	14,3	17
Diabetes	9,1	10,2
Secondary GN - Vasculitis	3,2	4,3
Miscellaneous conditions	3,3	3,8

(Data concerned with 27742 patients = 82.3%)

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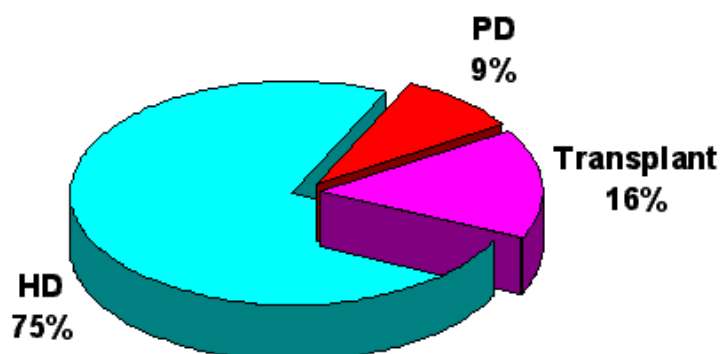
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## Main modalities of dialysis treatment in ESRF prevalent population at 31/12/1995.

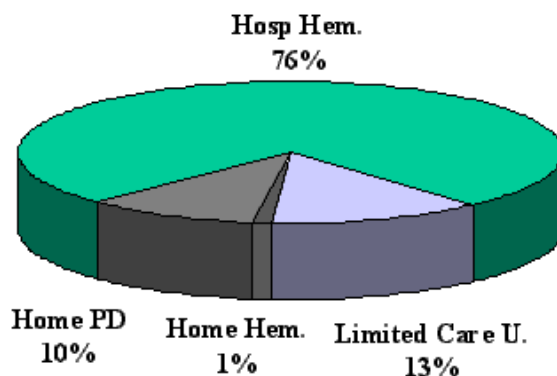
Treatment modalities	%
Acetate Dialysis	3.1
Bicarbonate Dialysis	68.2
Hemodiafiltration	14.6
Hemofiltration	1.1
CAPD	11.1
APD/CCPD	1.6
IPD	0.2

## Italian Registry of Dialysis and Transplant

### Treatment modalities in 40.125 patients



### Treatment modalities in 33.698 dialysis patients





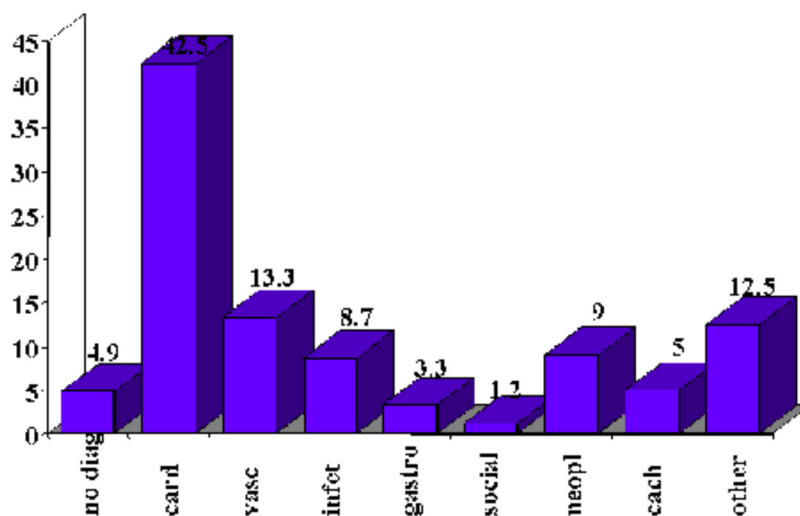
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## Main causes of death in uremic patients on RRT (1995)

Causes of death	Number of deaths	%
Unknown cause	93	4.9
Cardiac	902	42.5
Infectious	185	8.7
Gastro intestinal	71	3.3
Cachexia	107	5
Neoplasm	192	9
Vascular	283	13.3
Social	25	1.2
Others	265	12.5

(information about causes of death are related to 78% of dialysis patients and to 60% of transplanted patients.)

## Main causes of death in uremic patients on RRT (1995, 2123 pts, 66%)



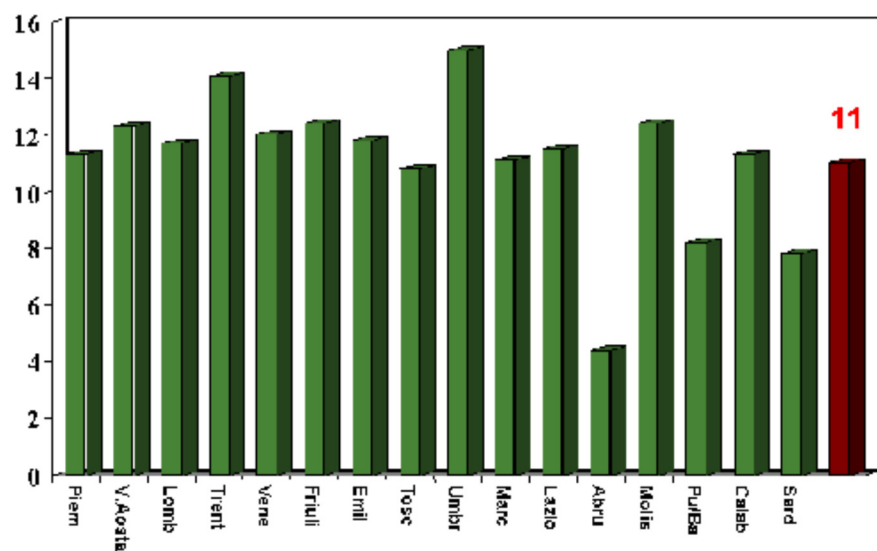
## Number of deaths and gross mortality rate in Italian Regions in ESRF patients on RRT in 1995

Italian Regions	Number of deaths	Gross mortality rate %
Piedmont	347	11,3
Valle Aosta	12	12,3
Lombardia	720	11,7
Trentino	76	14,1
Veneto	299	12
Friuli	89	12,4
Liguria	n.a.	-
Emilia	289	11,8

Tuscany	259	10,8
Umbria	97	15
Marche	122	11,1
Lazio	384	11,5
Abruzzo*	35	4,4
Molise	29	12,4
Campania	n.a	-
Puglia - Basilicata	241	8,2
Calabria	145	11,3
Sicily	n.a.	-
Sardegna	105	7,8
Italy	3249	11

(\* undervalued data; n.a.= data not available)

## Number of deaths and gross mortality rate in Italian Regions in ESRD patients on RRT in 1995 (n° 3249)





# Italian Registry of Dialysis and Transplant

## *National Committee of the Registry*











S. ALLOATTI, A. BARRACCA, G. BELLINGHERI, P. BOLASCO, A. BONADONNA, G. CAPPELLI, F. CASINO, G. COLASANTI, F. CONTE, S. DI GIULIO, D. DI LALLO, G. GAFFI, W. HUBER, F. LOCATELLI, M. MIGLIORATI, P.F. PALMIERI, G. PICCOLI, P. PIERINI, M. POSTORINO, F. QUARELLO, G. QUINTALIANI, M. SALOMONE, M. SALVADORI, A. SANTORO, G. SPARANO, A. VASILE, C. ZOCCALI

## *Executive Committee of the Registry*

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## *Chairman of the Registry*

Giuliano Colasanti M.D.

Division of Nephrology, San Carlo Hospital, Via Pio II, 3 - 20153 Milano, Italy.  
Tel. 0039 02 4022 2281 / 0039 02 4022 2339; Fax 0039 02 4022 2222

## *Directors of the Registry*

Ferruccio Conte, M.D.

Division of Nephrology, Ospedale Civile, Via Cesare Battisti, 23, 20059  
Vimercate (MI). Tel. 0039 039 66541; Fax 0039 039 669079

Mario Salomone, M.D.

Division of Nephrology, Ospedale "V. Valletta", Via A. Farinelli, 25, 10135  
Torino Tel. 0039 011341104; Fax 0039 011341105