Renal Palliative/Supportive Care in Developing Countries India Perspective





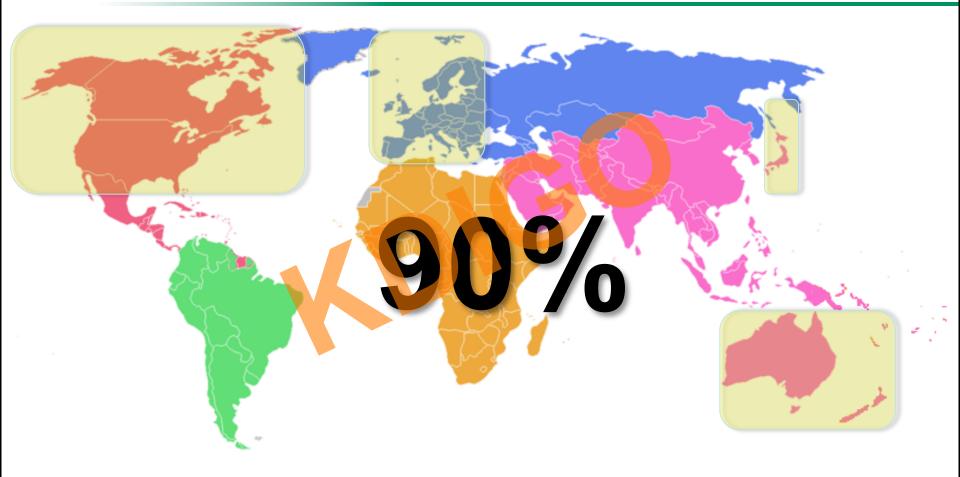
Disclosure of Interests







Worldwide Dialysis Population

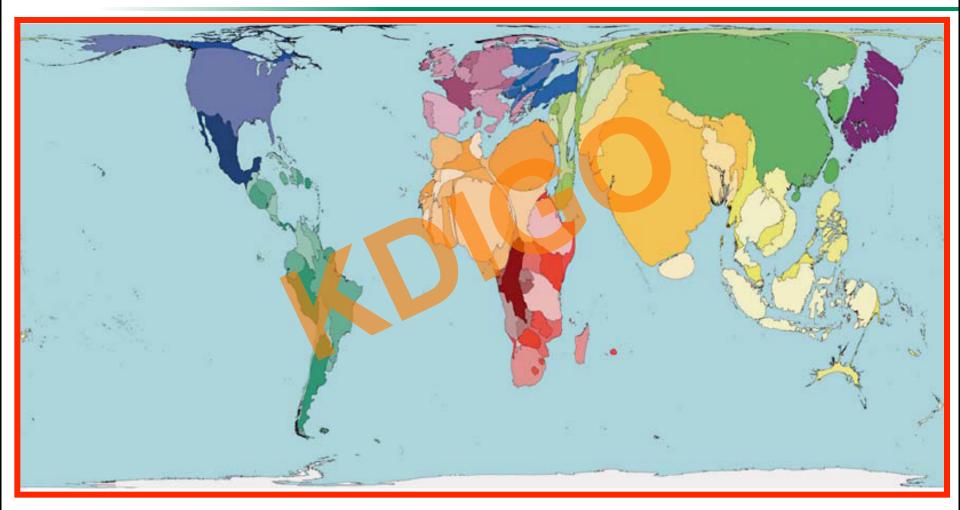








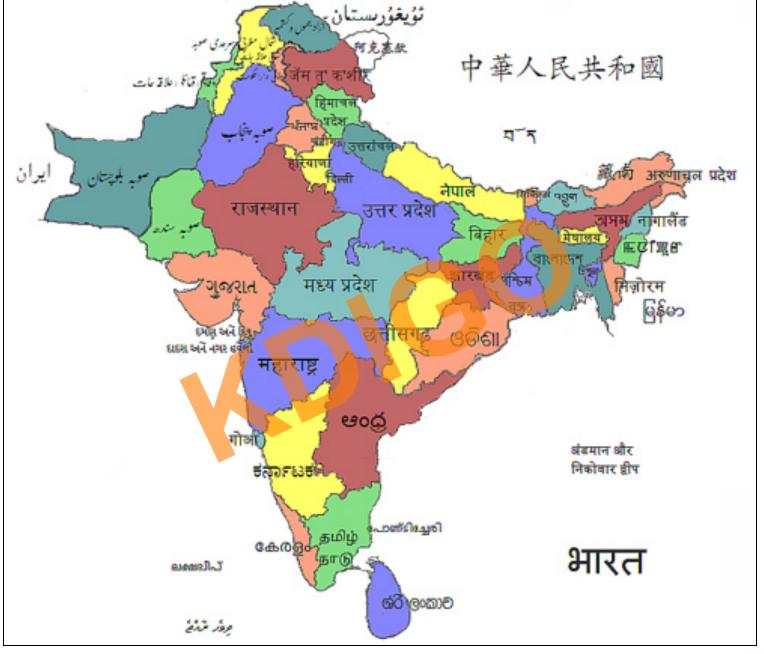
Burden of CKD mortality relative to country size



Nugent, et al. Nephron Clin Pract, 2011



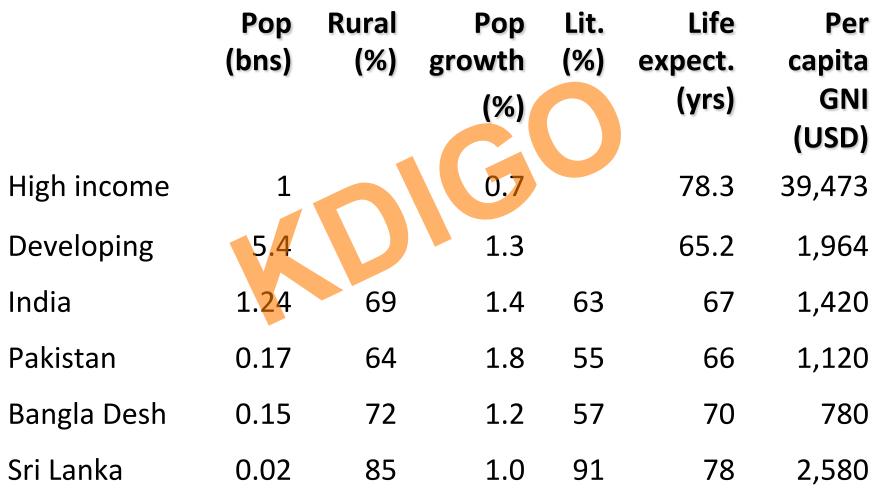








Economic Development Indicators



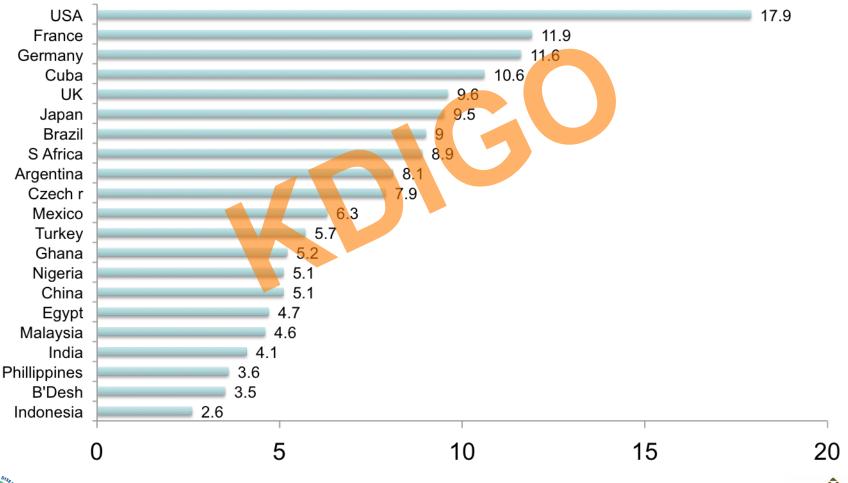


Source: World Development Indicators database, May 2013

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Percent GDP spent on healthcare (2010)

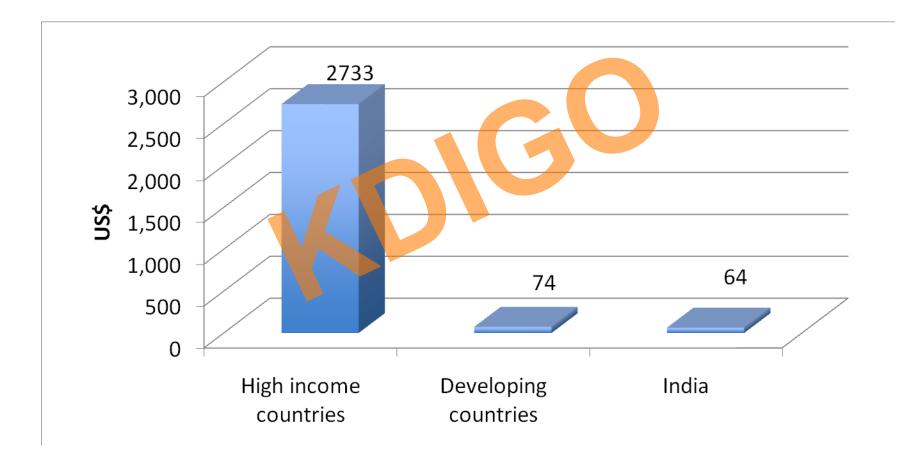




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Average annual govt expenditure per year for health care, 1995-1999







Socioeconomic status and values of key health determinants

Parameter	Poor	Middle class	Affluent
Poor	Did you have enough?	Did you like it?	Was it presented well?
Education	Valued but abstract	Crucial for success and making money	Necessary for making and keeping connections
Destiny	Fate	Choices	Noblesse oblige
Worldview	Local	National	International
Language	For survival	For negotiation	About networking
Importance of time	Present	Future	Tradition
Decision	For the moment, survival-based	For future ramifications	On basis of tradition and decorum
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Healthcare Delivery System

- Three-tier system (Public, Charitable, Private)
- Primary Health Centers (PHC)
 - 2 doctors for 25,000 population
 - medical care free, limited medications
 - patients must travel to PHC
 - travel from remote villages means loss of day's wages
- Investigations can be done only in Intermediate care hospitals
- Specialist care available in hospitals located in major cities
- Increasing number of private "For-profit" hospitals.

INTER-CONTINENTAL



ESRD incidence in India

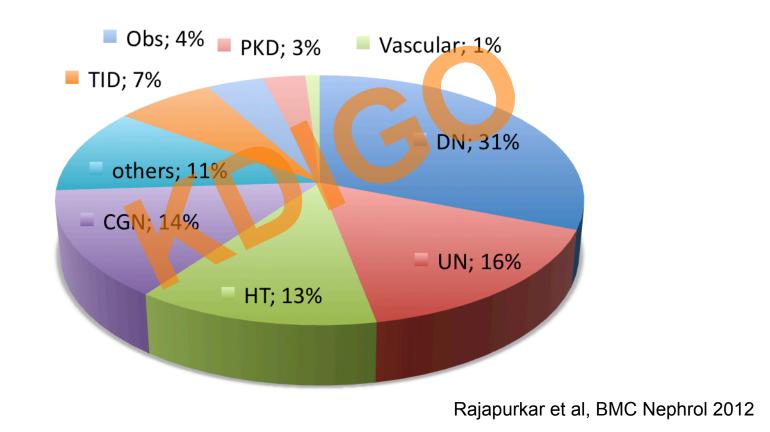
	2006	2007	2008
Number of new cases	84	81	91
Incidence (per million population) Sex ratio (M:F)	147 1.4:1	142 1.6:1	160 1.2:1
Mean age (years)	49.5	50.4	49.6
Patients with diabetic nephropathy	39 (47)	41 (51)	40 (44)
Patients referred in stage V	19 (22)	14 (17)	17 (19)
Number with arteriovenous fistula as the initial dialysis access	8 (9)	11 (14)	12 (13)

All figures in parentheses denote percentages.

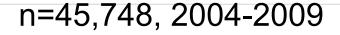
Modi G and Jha V, Kidney Int 2011



Causes of CKD in India

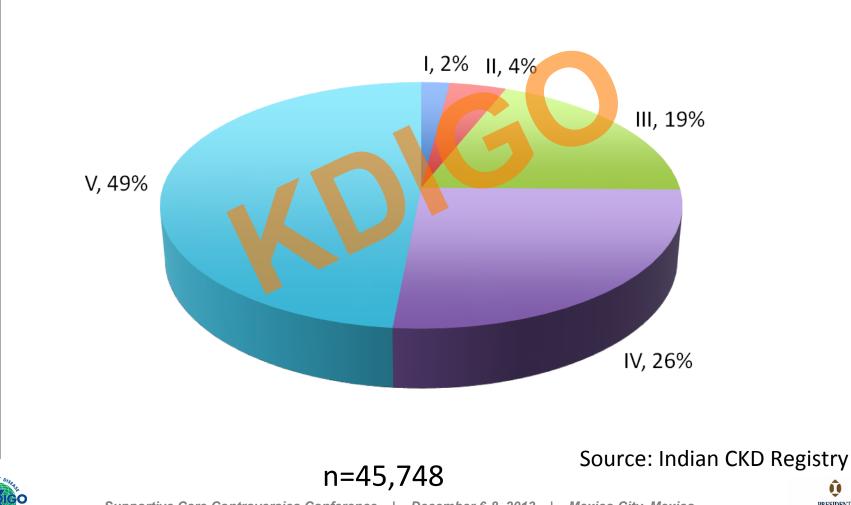








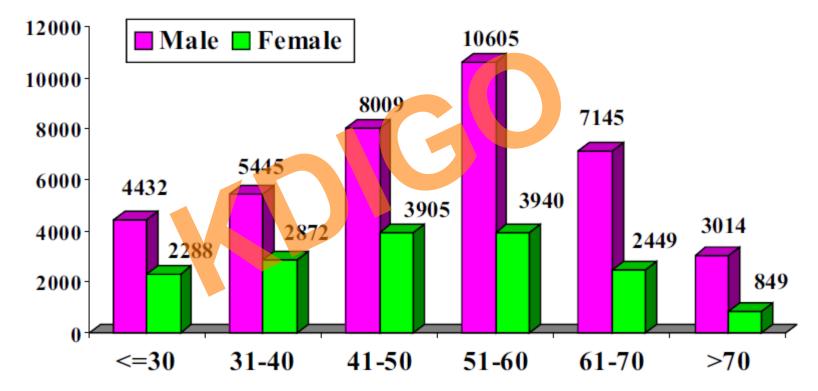
CKD stages at presentation



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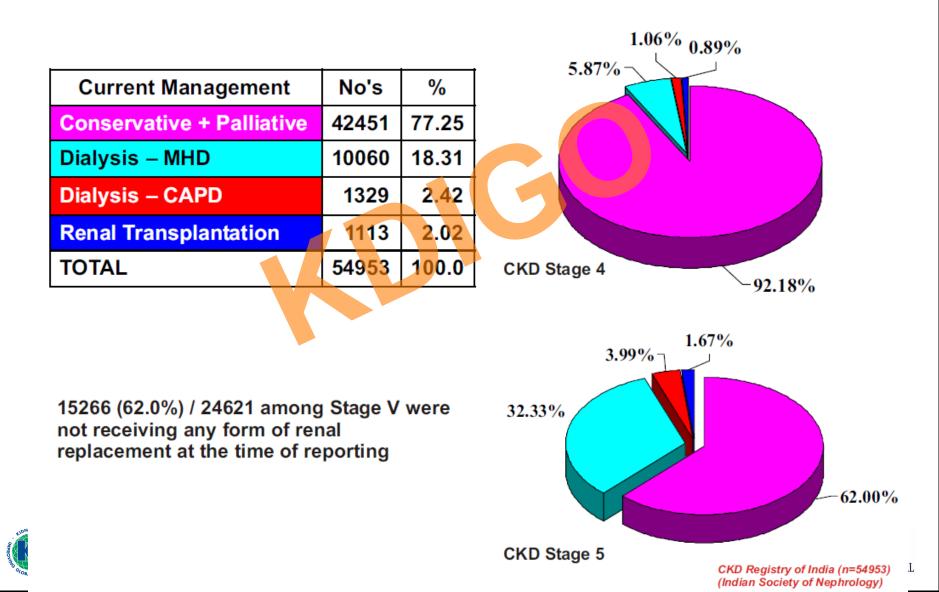
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Age and gender distribution



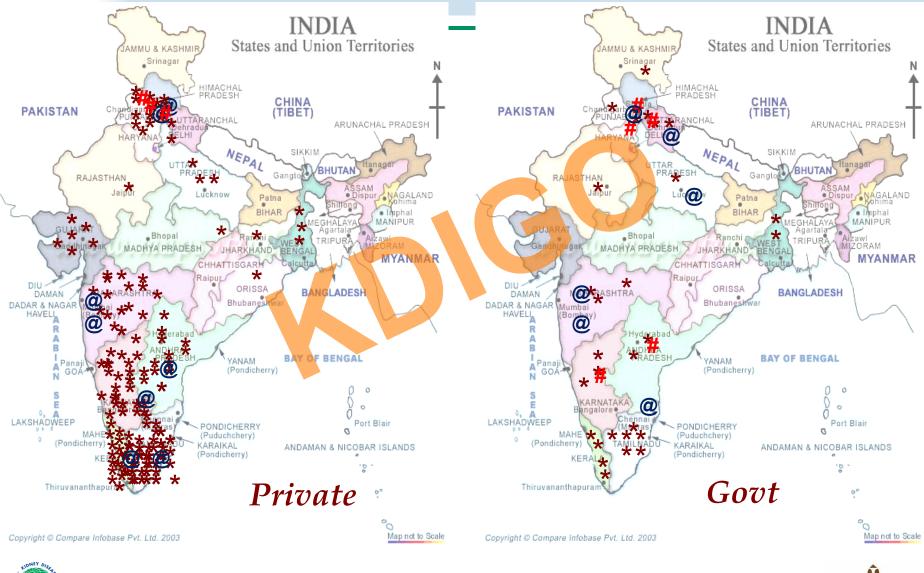
 Males : 38650 / 54953 (70.3% Males) Mean age 50.8 14.6 years
 Females : 16303 / 54953 (29.7% Females) Mean age 48.3 14.4 years
 Overall : Mean age 50.1 14.6 years ; Age Range (19,98) years

CKD management



Distribution of facilities

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Initiation of dialysis

- First dialysis when hyperkalemia, acidosis, encephalopathy or fluid overload
- Often treated by acute PD using rigid catheter
- Dialysis time reduced to accommodate more patients
- Frequency decided by complications, finances
- Death from complications of underdialysis





No. of HD Sessions/week

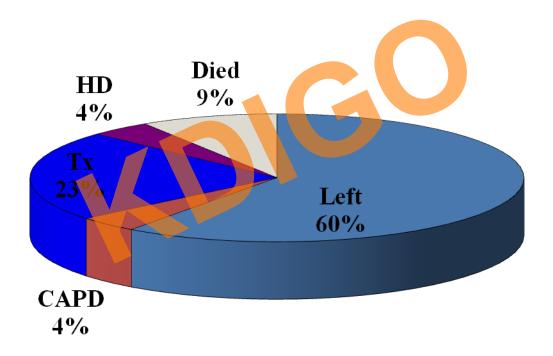






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Outcomes on HD



Rao M, et al, Nephrol Dial Transplant, 1998





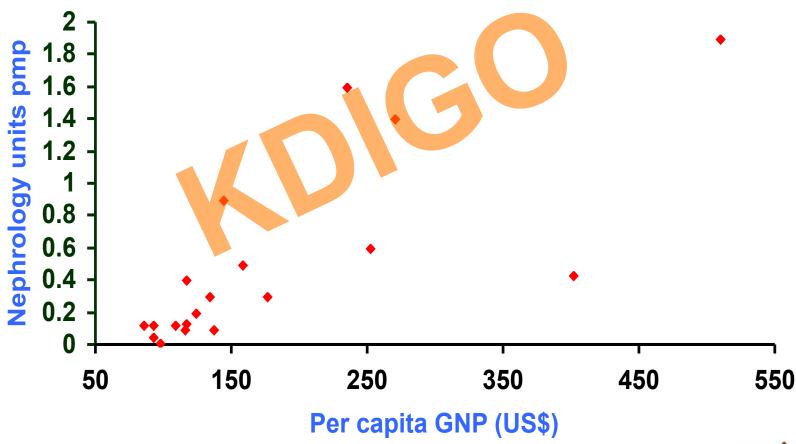
Issues in access and quality of RRT

- Certain sections of population have limited access
 - Females
 - Extremes of age
- Geographic disparity major concern
- High degree of variability in dialysis delivery
 - Frequency of dialysis
 - Infection control measures





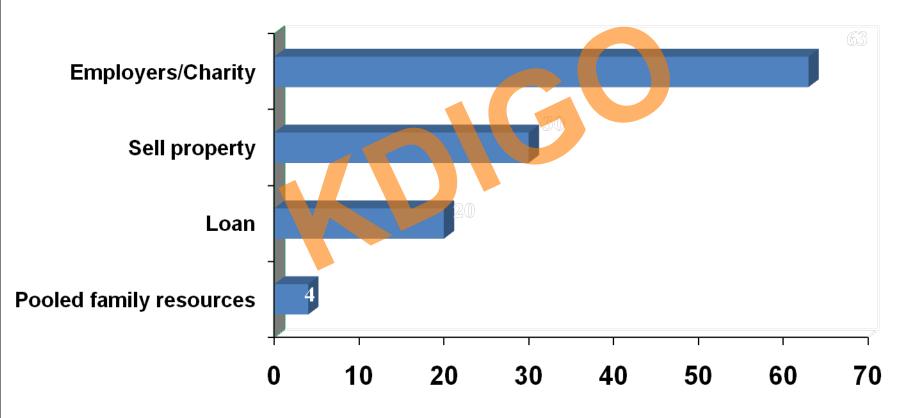
GNP and dialysis availability in India





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Meeting ESRD Treatment costs

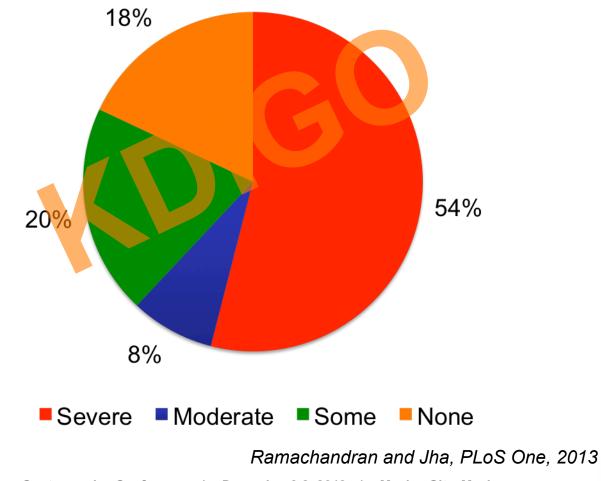


Percent cases



Mani MK, 1998 PRESIDENTE INTER-CONTINENTAL

Catastrophic healthcare expenditure associated with RRT







N http://nation.com.pk/pakistan-news-newspaper-daily-english-online/print/Regional/08-Sep-2008/Financial-constraints-lead-to-closure-of-35-dialysis-centres

The Nation on Web

The Nation

Financial constraints lead to closure of 35 dialysis centres

September 8, 2008

KARACHI (APP) - Pakistan with 224 dialysis centres and 988 dialysis machines in 61 of its cities witnesses a constant surge in the number of diabetic patients with end stage renal failure.

The Fourth Dialysis Registry of Pakistan 2007-2008, released by the Kidney Foundation here Friday shows that the number of End Stage Renal Diabetics (ESRD) grew from 4393, in 2006-2007, to 6127 in 2007-2008.

This was in a scenario where number of dialysis centres supported by the community decreased from 20.08 % in 2006 to 12.94 % in 2007- 2008.

Twenty-one of the 224 dialysis centres were rendered non-functional due to administrative and financial constraints, 17 of the centres did not share the data while another 14 were closed down, due to un-disclosed reasons, in 2007-2008. It was in the same year that 23 new dialysis centres were established in the country, none in Pakistan Occupied Kashmir. 11 of these were government-funded, four were semi- government, eight in private sector while none were supported by the philanthropists.

The 195 dialysis centres, operational during 2007-2008, were supervised by a total number of 343 doctors and 553 technicians against an acute shortage of dieticians, coming to mere 365 (20.57%) and 66 social workers for 175

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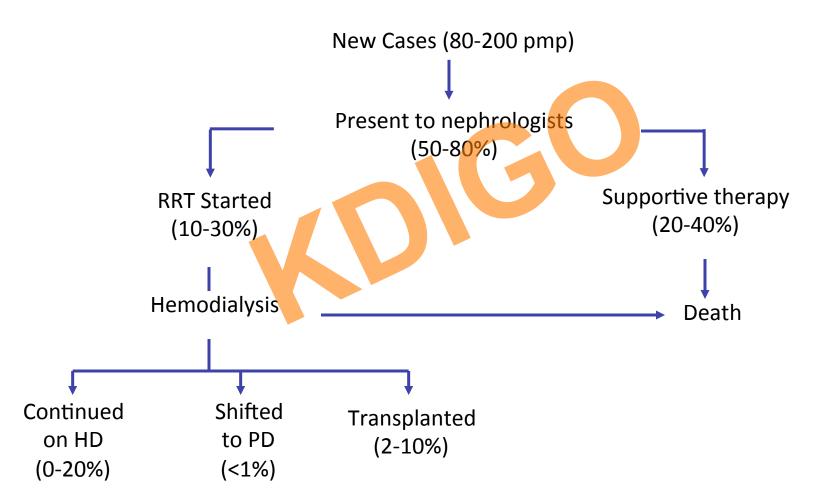
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Fate of ESRD patients







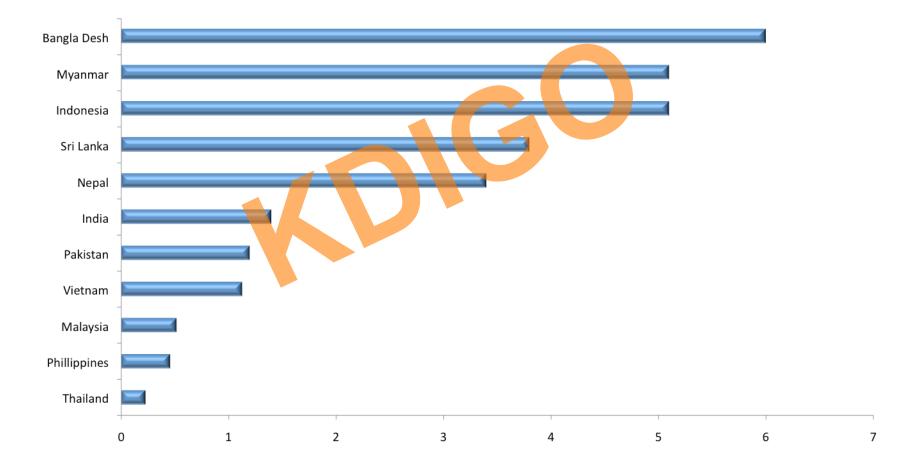
The impact of transitions

- Better education, consciousness of human rights, democratic environment
- Increasing middle class, booming private sector, market forces
 - Increasing demand for better care
 - Labor force distortions for production/ distribution of HCWs
- Financial crisis, depreciation of currencies

 Increased cost of imported drugs/supplies



Population (millions) per nephrologist



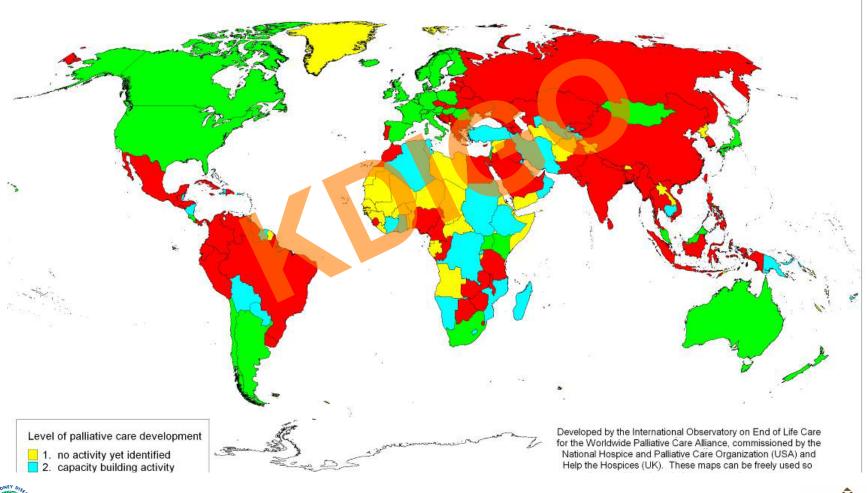
Jha, Semin Nephrol 2009

Supportive care in India





Levels of Palliative Care Wright et al. International Observatory on End of Life Care 2006







Ratio of palliative care services to population (x1000)







Current status

- No national policy
- 138 organizations in 16 states/UTs
- Concentrated in large cities and cancer centers
- Exception : Kerala
 - Institute of Palliative Medicine
 - Trivandrum Institute of Palliative Sciences
- Limitations in drug availability
- Research
 - Indian Association of Palliative Care
 - Indian Journal of Palliative Care





Legal provision

- Indian Law Commission: Medical treatment on terminally ill patients (for protection of patients and medical practitioners), 2006
 - Adult patient's right to self determination and right to refuse treatment binding on doctors if based on informed choice
 - State's interest in protecting life "not absolute"
 - Refusal to accept medical treatment does not amount to "attempt to commit suicide"
 - Endorsement by physician does not constitute "abetment to suicide"
 - Applying invasive therapy conterary to patient wishes might constitute "unlawful battery"





Proposed reforms

- Clear definitions of competence, informed decision and best interests
- Recognizes patient's Right to refuse treatment
- Informed decision by competent patient binding on the doctor
- Recommends constitution of panel of experts to authorize withdrawal and withholding of life support decisions
- The physician will consult the family but their views are not binding on him/her
- Advance directives, and legal powers of attorney to be deemed invalid for decision-making as it may "create complications"
- Provides for Court declarations: Family/physician/hospital can move court on the question of lawfulness of withdrawal of life support. This is viewed as an "enabling", as opposed to mandatory, provision
- Recognizes patients' right to receive palliative care



Directs Medical Council of India to formulate guidelines on EOLC Supportive Care Controversies Conference | December 6-8, 2013 | Mexico City, Mexico

Barriers to delivery of supportive care in India

- Poverty
- Scarcity of medical resources
- Low nutrition and health indices, low literacy rates
- Cultural attitudes, fear of "cultural" invasion
- Importance of religion in customs and rituals around death
- Reliance on *unorthodox* medical systems, hope for cure
- Lack of advocacy groups
- Thrust on "curative" medicine, adverse effect of pharma sponsored CMEs
- Lack of supportive care education and trainingroyal Soc Med 2000 Chaturyedi J Med Ethics 2008

RESIDEN

INTER-CONTINENTAL



KDIGO Survey on Supportive Care for ESRD in LMIC





No of responders: 137

Countries represented: 44 (41 LMIC)



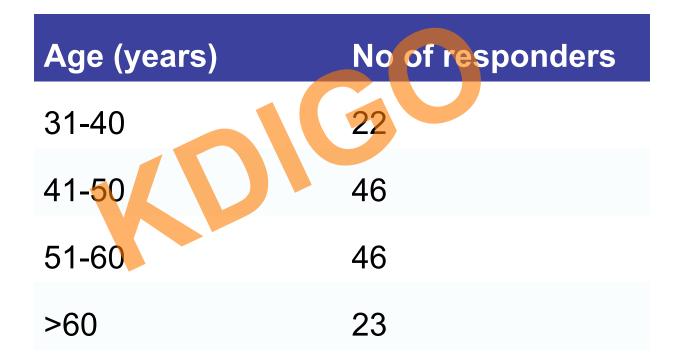








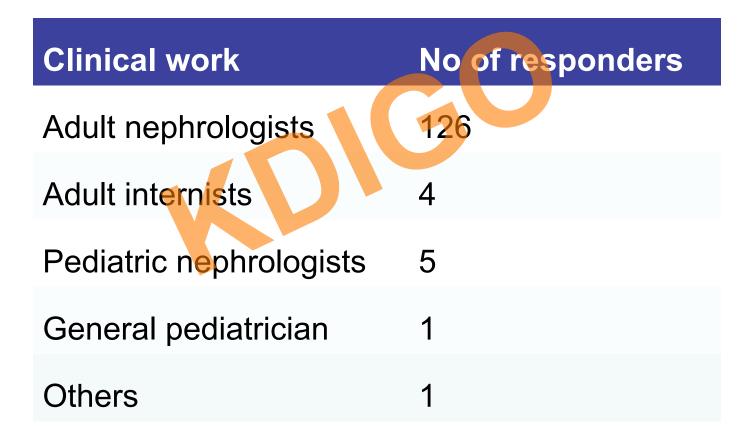
Responder characteristics







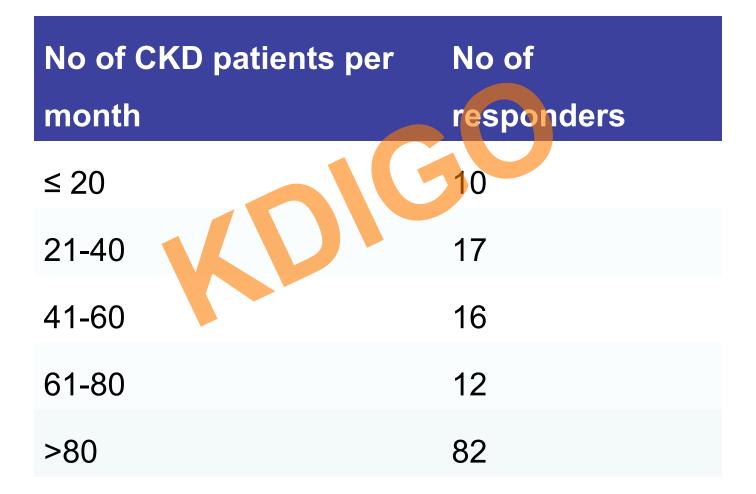
Responder characteristics







Responder characteristics







Govt policy for dialysis

Response	Number
Yes, in the whole country	26
Yes, in some parts	7
No	7
Not sure	4
No response	0





Funding for dialysis

 In your country, are there public healthcare funding systems that support the cost of dialysis?

Yes, in the whole country 26

No response

Yes, in some parts 9

No6Not sure3



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Funding for dialysis

 In your country, are there private healthcare funding systems that support the cost of dialysis?

Yes	32
No	6
Not sure	6





Population coverage

What percentage of the population has cost coverage for dialysis by public/private health funding or insurance system?

0-20%	43
21-40%	9
41-60%	4
61-80%	13
>80%	57



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Dialysis availability

What percentage of the population cannot get or withdraw dialysis due to lack of finances?

	Cannot ge	et Withdraw
≤ 10%	65	70
11-30%	9	13
31-50%	7	4
51-80%	11	5
>80%	8	7



Dialysis availability

What percentage of the population cannot get or withdraw dialysis due to lack of caretaker at home?

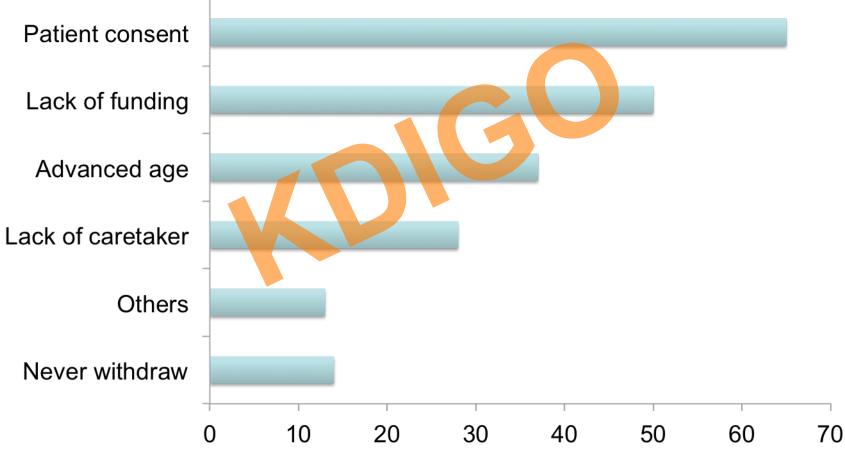
t act Withdraw

	Cannot get		
≤ 10%	81	86	
11-30%	14	10	

31-50%	5	4	
51-80%	0	0	
>80%	0	0	



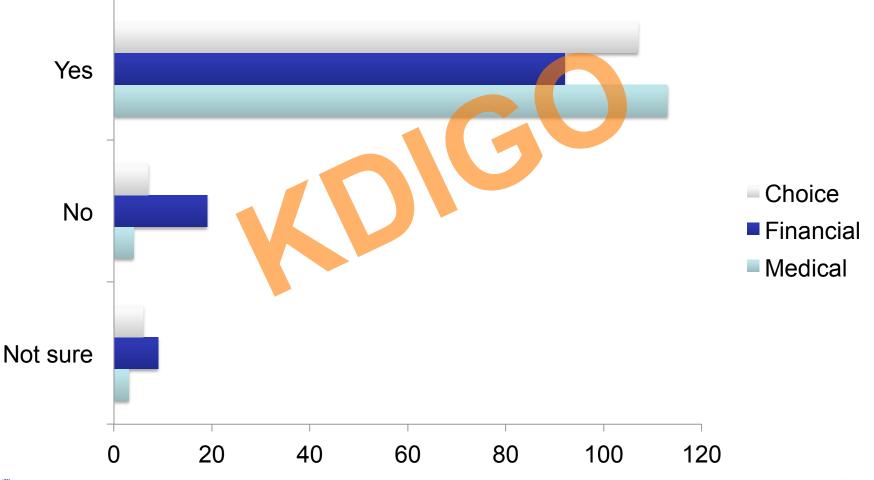
Witholding or withdrawal of dialysis





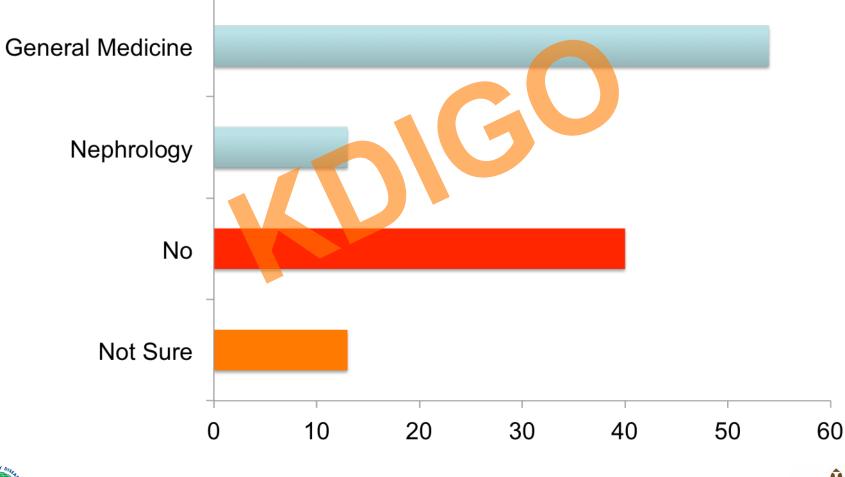
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Should supportive care be available to patients who do not receive/withdraw from dialysis?



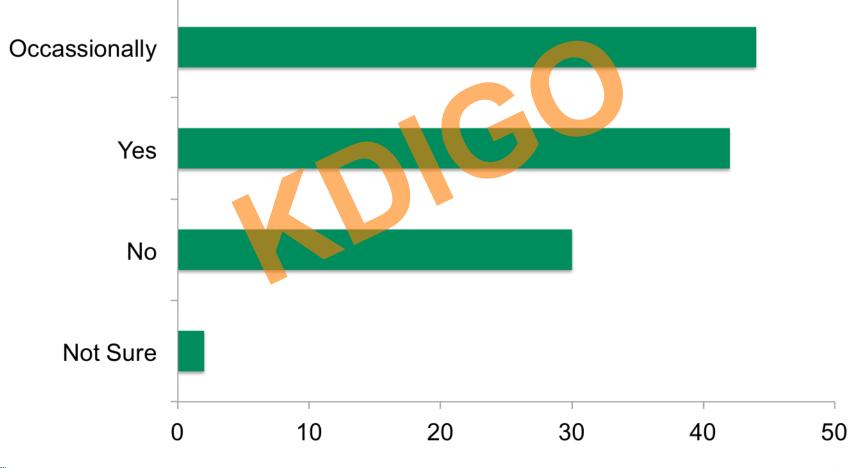


Supportive care education



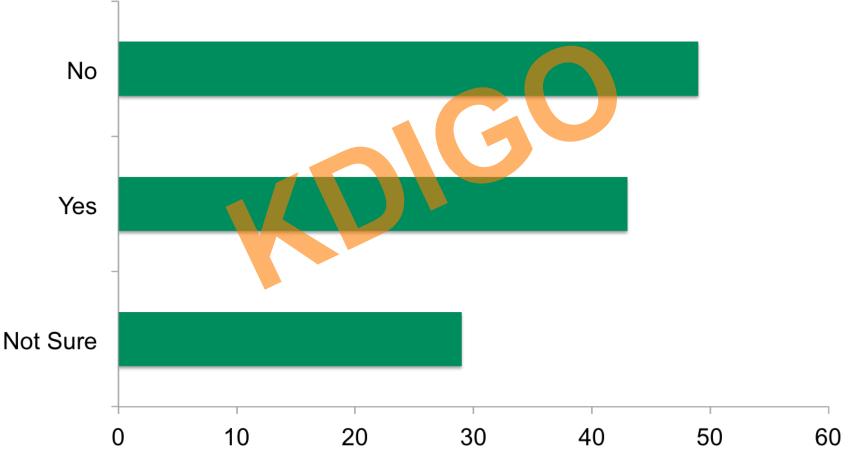


Do you actually discuss dialysis withdrawal when you deem it to be futile?





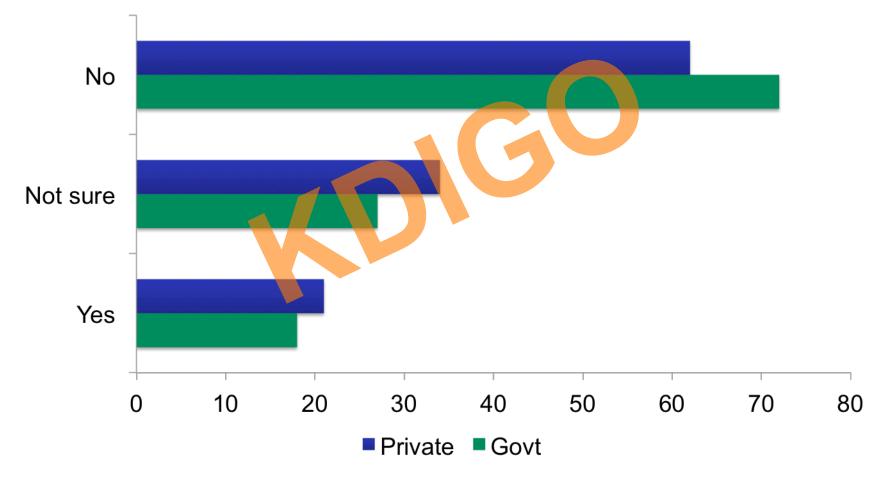
Is government or private reimbursement available for palliative care to ANY group of patients (for example terminal cancer) in your country?





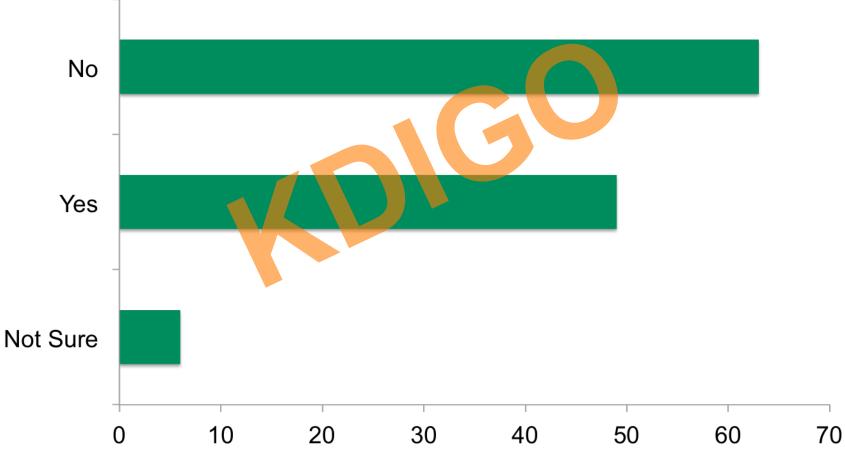


Do your ESRD patients have access to government or private reimbursement for supportive care?





Does your hospital have an End-of-life Care Team?





Do you think palliative care is a luxury that cannot be afforded by countries that do not have the means to provide needed curative or preventive interventions?

