WORLD KIDNEY DAY ON THURSDAY

OBESITY = KIDNEY WOES

Professor Dr Goh Bak Leong,

senior consultant nephrologist

head in Hospital Serdang, said

obesity had independent effects

on blood flow in the kidney (renal

"Individuals with a low number

of nephrons (the part of the kid-

ney responsible for filtering

"Multiple mechanisms have

Kidney diseases can be prevented by

adopting healthy habits in daily life,

such as eating a balanced diet,

increasing physical activity and

reducing sedentary behaviour.

haemodynamics).

As more Malaysians become overweight or obese, the number of kidney patients will rise. Medical experts warn about the link between obesity and kidney disease, especially among children, writes AUDREY VIJAINDREN

WENTY years ago, only cent of them under the age of 5. 4.4 per cent of Malaysians were obese. A decade later, the fig- and Nephrology Department ure rose to 14 per cent.

In 2015, the National Health and Morbidity Survey (NHMS) found that more than five million people (17.7 per cent of the country) were obese and a further 30 per cent were overweight.

In other words, nearly half the waste from blood) are the most population of Malaysia were ei- susceptible to these changes. ther overweight or obese.

The survey under the Health been postulated, where obesity + Ministry also found that 11.9 per directly impacts kidney disease, cent of children aged 18 years and including hyperfiltration (extra below were obese, with seven per workload to filter blood), in-

(stress to the supporting cells of cent. the kidney)," said Dr Goh, who is also president of the Malaysian Society of Nephrology.

He warned that obesity could government hamper a child's development and semi-govand quality of life, leading to sec- ernment emondary complications, such as di- ployees were abetes, cardiovascular diseases obese. and sleeping disorders.

"It will also compromise their cognitive ability and educational haviour to an acattainment, increase their vulner- tive lifestyle is ability to illnesses and lead to in- another imporcreased health costs and loss of tant strategy in human capital and productivity." maintaining a

Dr Arini Nuran Idris, paediatric healthy weight. endocrinologist at the Paediatric Institute of Hospital Kuala is crucial to prevent Lumpur (HKL), said parents weight issues. Chilcould help children make healthy dren who sleep less

"Families should serve reasonably-sized portions of food, limit consumption of sugary beverages and high-calorie snacks, encourage children to eat five or more

servings of fruits and vegetables a day, eat meals together as a family as often as possible, and limit eating out, especially at fastfood restaurants.

The American Academy of Paediatrics, she said, had suggested practical steps families could take to help children maintain a healthy

"These include adopting healthy habits into daily life. They consist of a well-balanced diet, increased number of of driving. physical activities and reduced sedentary behaviour.

"Parents and families are strongly encouraged to be a role model for healthy behaviour in children," she said.

The study showed that Putrajaya had the highest percentage of overweight and obese people in the country.

The administrative capital's population had a 37 per cent chance of being overweight, while

creased glomerular capillary wall the obesity rate tension, and podocyte stress was at 43 per

NHMS 2015 also showed that 40.3 per cent of A change from

sedentary be-

"Adequate sleep than nine hours a night are more likely to be over-

weight or obese," she said, adding that parents should observe Body Mass Index (BMI). strict bedtime for their children. "Families can help kids stay ac-

tive by enjoying fun, moderate intensity physical activities together to meet the recommended 60 minutes of activity most days of the week, or every day if possi-

"This can include participating in team sports, going to a park, playground or walking/bicycle trails, swimming, bowling, Dr Goh Bak Leong skipping, dancing, dog-walking, climbing stairs or

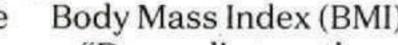
> "Parents and other family members are strongly encouraged to adopt the same fitness and lifestyle changes as the child. Doctors can educate families,

walking to a destination instead

them to make the changes." She also urged parents to ensure that their children got their health checkups once a year.

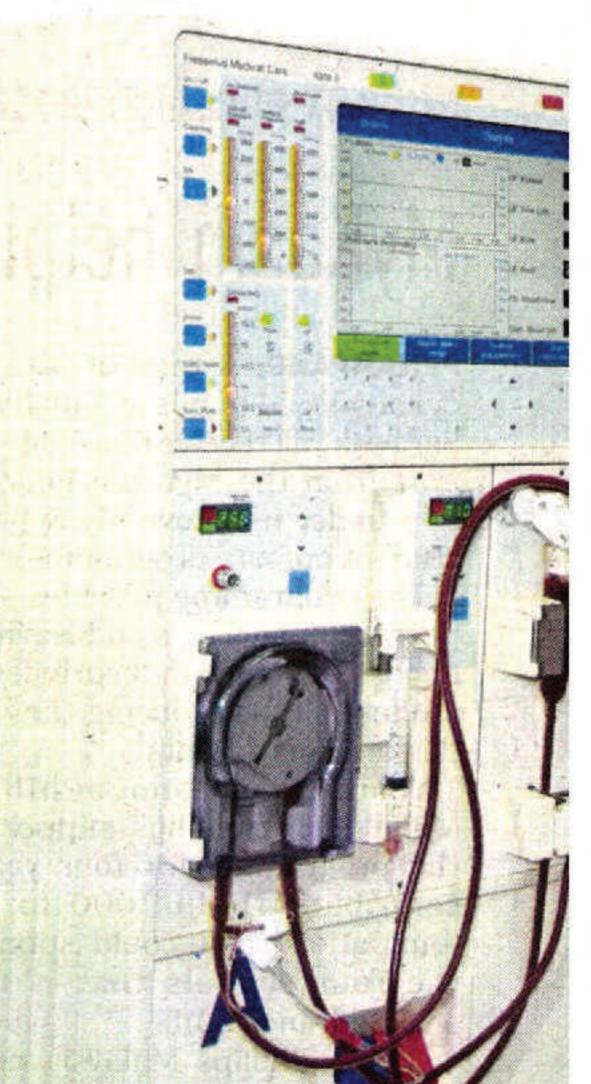
provide support and motivate

"During this visit, the doctor measures your child's height and weight, and calculates his or her

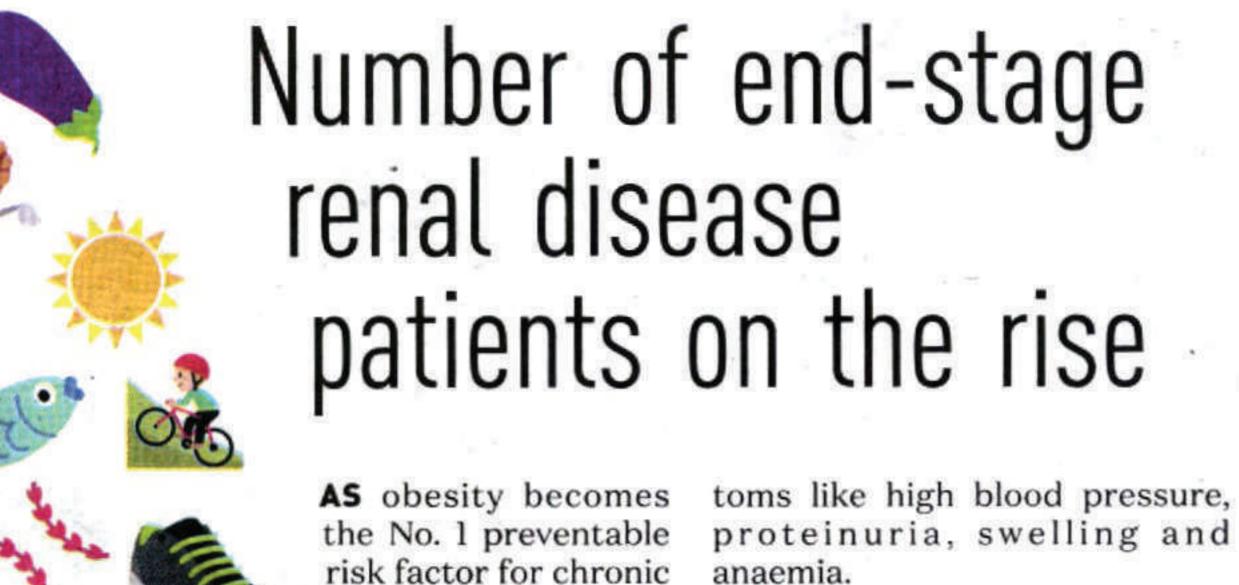


"Depending on the severity and complexity of the weight problem, he or she may be referred to a family medicine specialist or a paediatrician, or a paediatric endocrinologist for further management," she said.

Globally, 2.6 million patients with end-stage renal disease received dialysis in 2010 and this number will almost double to 5.4 million by 2030.







tween age 55 and 64, according to the 22nd

the dialysis treatment rate had exceeded 100 per million population Malaysia in 2014 (except Sabah), with the lowest rates in Perlis, Kelantan and Sabah.

300pmp were mostly from eco- a machine. nomically-advantaged states in the west coast of the peninsula.

Chronic kidney disease (CKD) is recognised as a major non-communicable disease of epidemic proportions worldwide.

The prevalence of end-stage renal disease (ESRD), the most advanced stage of kidney disease, where dialysis or transplantation is required to sustain life, has been increasing.

tients needed dialysis in 2010 and this is projected to almost double to 5.4 million by 2030.

Senior consultant nephrologist and Hospital Serdang Nephrology Department head Professor Dr Goh Bak Leong said new dialysis patients in Malaysia were estimated to rise from 10,208 cases in 2020, to 19,418 cases in 2040.

To reduce the risks of kidney disease, he said people should ex- comparison with dialysis expanercise regularly, control their body weight, eat a balanced diet, mained low with an average of 60 quit smoking, monitor their to 90 transplants annually. In cholesterol level and keep bloodsugar level under control. Besides those, they should also lion population."

reduce salt intake, avoid taking non-steroidal anti-inflammatory drugs (a type of painkiller) and consume a moderate amount of protein.

"Today, conventional treatof various medications for symp-

"When kidney failure becomes end-stage or life-threatening, dialysis or a kidney transplant is needed. Dialysis is still the most Most of the new cas- commonly used treatment for es involved those be- end-stage kidney failure. "However, it should be noted

that it's required not because it Report of the can cure kidney failure, but be-Malaysian Dialysis cause it replaces the function of and Transplant Reg-failed kidneys in cleansing blood.

"Since kidneys do not heal after Based on the report, dialysis, patients have to undergo treatment regularly.

"Kidney transplant is the best way to treat kidney failure be-(pmp) for all states in cause dialysis involves considerable cost and inconvenience.

"For example, to maintain one's health and activities, one needs a minimum of 13 dialysis sessions The states with dialysis and each requires no less than treatment rate of more than four hours of being hooked up to

> "And all of that achieves about 25 per cent only of the normal kidney function," said Dr Goh.

He said a transplant was constantly hampered by a lack of donors as well as exposure to lifelong medication, which increased the risk of getting cancer and an infection, besides chronic rejection of the donor's organ.

"In 2015, 92 per cent of the patients on Renal Replacement Globally, 2.6 million ESRD pa- Therapy (RRT) in Malaysia were on dialysis - only eight per cent received a kidney transplant.

"This is despite transplantation being available in Malaysia for more than four decades. The first living-donor kidney transplant (LKT) was performed in 1975, followed a year later by the first deceased-donor kidney transplant.

"Over the ensuing years, in sion, the transplant rate has re-2015, the incidence rate of local transplant was only three per mil-

The 22nd Report of the Malaysian Dialysis and Transplant registry also showed that there were 1,515 dialysis deaths in 2005, and the figure went up to 4,015 in 2014. Transplant deaths, ment for kidney failure consists however, went down from 49 to 45 for the same period.

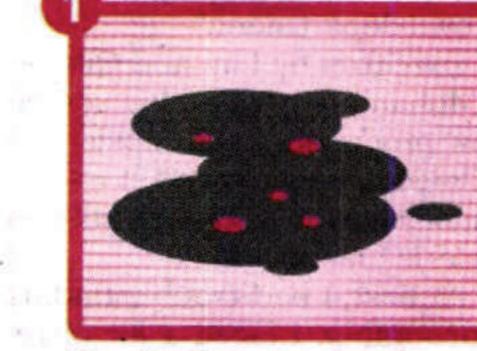
GENDER OF DIALYSIS PATIENTS (2005-2014)

Year	2010	2011	2012	2013	2014	
New patients	5305	6073	6690	6985	7055	
% Male	55	55	56	55	56	
% Female	45	45	44	45	44	

DIALYSIS TREATMENT RATE (PER MILLION POPULATION 2005-2014)

Year	2010	2011	2012	2013	2014
Penang	269	306	328	331	329
Malacca	242	294	271	319	318
Johor	237	302	303	319	316
Perak	249	269	284	279	286
Selangor & Putrajaya	210	243	266	259	267
Kuala Lumpur	319	297	327	360	352
Negri Sembilan	277	296	322	307	374
Kedah	162	214	247	280	287
Perlis	144	173	167	141	135
Terengganu	196	195 -	248	291	274
Pahang	185	186	250	221	247
Kelantan	104	132	165	142	122
Sarawak	119	131	136	170	180
Sabah & Labuan	93	98	106	121	97

WARNING SIGNS OF KIDNEY FAILURE



Blood in the urine



High blood pressure



Frequent urination, especially at night



swelling around eyes



Pain or burning sensation when passing urine



sometimes radiating to the groin

Source: 22nd Report of the Malaysian Dialysis and Transplant Registry

IN conjunction with World Kidney Day (WKD) 2017 on Thursday, the National Kidney Foundation Malaysia (NKF) will be organising an open day at Berjaya Resource Centre in Petaling Jaya (10am 4pm). The public can get free health screenings, and join in the exercise

sessions, cooking demonstrations and games. From March 13 to 18, a WKD 2017 a cyclethon will see the participation of 30 cyclists from Perlis to Putrajaya. Details are at http://www.nkf.org.my/articleview-id-531