

Renal Nutrition Evolution



1945 HEMODIALYSIS

First hemodialysis treatment conducted by Dr. Willem Kolff. Repeated treatments commence 1960



1978-1989 KETOANALOGUES AND EPO

Use of ketoanalogues to replace essential amino acids in low protein diets. Synthetic EPO approved 1989



2018 - PRESENT

Evidence about dietary patterns and kidney health emerges. Diets rich in fruit, vegetables, legumes, nuts, grains beneficial. Guidance recommends consideration of bioavailability of K and P and reducing ultraprocessed foods and salt

1



1800-1948

Dietary modification used to manage kidney disease by reducing protein and sodium

2



1954 KIDNEY TRANSPLANT

First kidney transplant performed in Boston, USA

3

4



2000 KDOQI CLINICAL PRACTICE GUIDELINE FOR NUTRITION

Release of first comprehensive global guidance on nutrition in kidney disease

5

6

Recommended reading:
Kopple J and Ekramzadeh M (2022) Renal Nutrition—Where It Has Been and Where It Is Going. *Kidney and Dialysis*, 25(4): 512-33

Hensley, M.C. (2008). Historical Perspective of Nutrition in Kidney Disease. In: Byham-Gray, L.D., Chertow, G.M., Burrows, J.D., (eds) *Nutrition in Kidney Disease: Nutrition and Health*. Humana Press, pp 17-33

Nutrition And Metabolism In Renal Disease

J Dewey



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web for example the shoe manufacturer produces three different shoe typologies i e classic casual prototypes the sole manufacturer produces two typologies of soles i e leather leather rubber insole manufacturer produces two main outputs i e insole footbed etc

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