

BIBLIOGRAPHY OF WORK IN THE HISTORY OF NEPHROLOGY

PART V, ADDENDUM I: PAPERS PUBLISHED UP TO 1999 NOT INCLUDED IN THE MAIN BIBLIOGRAPHY PARTS I-IV

AND

PAPERS PUBLISHED IN 2000

This is the first of what I hope will be regular up-dates to the bibliography posted last year, on the Commission for the history of Nephrology's section in the ISN website www.isn-online.org, and circulated in hard copy to libraries and archives.

This addendum consists of two parts: the first is a list of papers and other material published up to the end of 1999, which have come to light since the original bibliography was posted. The rather large number of papers in this section suggest there is still much work to do to make this a relatively complete list, and again I would appeal to anyone with knowledge of an omitted paper, or other work, should let me have details of it at:

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The second section is a list of the relevant papers of which I am aware which were published during the year 2000. Again, corrections and additions are welcomed.

1. The following papers published up to the end of 1999 have come to notice since the preparation of the main bibliography

Biography

Donald Dexter van Slyke (1883-1971): an oral biography (interview by Peter D Olch)
Clin Chem 1999; 19: 185-188

Mathieu H, Gabilan J-C, Broyer M, Rappoport R (eds) *Souvenirs et messages d'avenir. Professeur Pierre Royer 1917-1995*. Elsevier, Amsterdam, 1998

- Royer was the doyen of French paediatric nephrology, and one of the founders of the discipline. This book includes a number of perceptive and influential essays by Royer on the subject.

Renal structure and function

Thureau K, Davis JM, Häberle DA. *Renal blood flow and the dynamics of glomerular filtration: the evolution of a concept from Carl Ludwig to the present day*. Institute of Physiology, University of Munich FRG 1986.

Gamble JL. Early history of fluid replacement therapy. *Pediatrics* 1953; 11: 554-557.

Zimmerman JJ, Strauss RH. History and current application of intravenous therapy in children. *Pediatric Emergency Care* 1989; 5: 120-127.

Kenney RA. *The Metzner theory of urine formation*. W Junk, Den Haag, 1957.

- in 1906 Rudolf Metzner (1858-1935) outlined a theory of urine formation involving filtration, reabsorption and secretion which is very close to that accepted today, and much more complete than that in Cushny's later - but more famous - interpretation.

Saxen L. Clifford Grobstein (1916-1998) and the developing kidney. *Int J Develop Biol* 1999; 43: 369-370.

Nulsson P. Oral vätskeersättning till diarrhéasjuska barn största livräddaren globalt sett (Oral replacement therapy in children with diarrhoea has had a major impact world-wide). *Läkartidningen* 1999; 96: 5671-5762.

Urinalysis and uroscopy

Wittern-Sterzel R (tr. Sabine Kleinert). Diagnosis: the doctor and the urine glass. *Lancet* 1999; 354 [suppl]: siv13.

Collins KE, Sussman M. Isaac Israeli and his "Book of the urine". *Scot Med J* 1999; 44: 86-88.

Parenchymatous renal disease

Rutecki GW, Ognibene AJ, Gleib JD. Rhabdomyolysis in antiquity: from ancient descriptions to scientific explanation. *Pharos* 1998; 61: 141-152.

Dasgupta P. Malacoplakia: van Hansemann's disease. *BJU International* 1999; 84: 464-469.

Crissey JT, Parish LC. Vasculitis: the historical development of the concept. *Clin Dermatol* 1999; 17: 493-497.

Hypertension

Labarthe DR. Overview of the history of pediatric blood pressure assessment and hypertension: an epidemiological view. *Blood Pressure Monitoring* 1999; 4: 197-203.

Comroe JH Jr. First annual Irvine H Page lecture. A page in the story of hypertension. *Cleveland Clin Quart* 1978; 45: 311-323.

Stead EA Jr. Walter Kempner: a perspective. *Arch Intern Med* 1974; 133: 756-757.

Bergström G. 100 års perspektiv på njurfunktion och hypertoni: antireninterapi har gjort hypertensiv njursvikt till en raritet (A hundred years perspective on hypertension and renal function; anti-renin therapy has made hypertensive renal damage rare). *Läkartidningen* 1999; 96: 5209-5214.

Uraemia

Maher JF. Antecedents of dialysis: the evolution of knowledge of uremic biochemical toxicity and therapeutic bloodwashing. *Semin Dial* 1991; 4: 185-188.

- this contains an analysis of a considerable body of work on uraemia done in the second half of the nineteenth century, not hitherto discussed anywhere else

Dialysis

Alwall N. Ultrafiltration and hemofiltration in the 1940s and 1950s. *Dial Transpl* 1979; 8: 535.

Blumenkrantz MJ, Roberts M. Progress in peritoneal dialysis: a historical perspective. *Contr Nephrol* 1979; 17: 101-110.

Earle DP. An eighteenth century suggestion for peritoneal dialysis? *Int J Artif Intern Organs* 1980; 3: 67- 68.

- the story of Warrick and Hales' use of intraperitoneal lavage in ascites in 1744

McBride P. History of peritoneal dialysis. *Peritoneal Dialysis Bulletin* 1981; 1: 75- ..

McBride PT. Milestones in the development of peritoneal dialysis. *Advances in continuous ambulatory peritoneal dialysis* 1988; 4: 1-14.

Palmer R.A. As it was in the beginning: a history of peritoneal dialysis. *Perit Dialysis Bull* 1982; 2: 16-25.

- *Palmer introduced the silastic indwelling catheter into use in 1964 for peritoneal dialysis, which was modified 4 years later by Henry Tenckhoff and which usually bears his name alone.*

McBride P. Pioneers of peritoneal dialysis: Stephen Rosenak M.D. (1900-) Father of the peritoneal dialysis catheter. *Perit Dialysis Bull* 1983; 3: 75-76.

- *The Hungarian Rosenak has remained a peripheral figure, even in his adoptive hospital in New York where he worked from 1941 as a research assistant in Urology. However he made many innovations in haemodialysis in the 1950s, and was a major pioneer of peritoneal dialysis from 1920 to 1950, including the first purpose-built catheter which he had made in 1927. McBride however describes his later catheter from 1948. He died during the early 1980s - I have not been able to establish exactly when.*

McBride P. Pioneers of peritoneal dialysis Fred T.S. Boen MD (1927-..). The man who brought science to the art of peritoneal dialysis. *Perit Dialysis Bull* 1982; 2: 50-53.

- *the title is scarcely fair to the many careful investigators of the 1920s to the 1950s (whose work Boen carefully reviews in his thesis) who elaborated the science of peritoneal dialysis!*

McBride P. Pioneers of peritoneal dialysis. Henry Tenckhoff: the father of chronic peritoneal dialysis. *Perit Dialysis Bull* 1983; 3 :47-51

Grefberg N, Nilsson P. Peritonealdialys – 60-ars jubileum och expansion genom CAPD (Peritoneal dialysis- 60th anniversary and expansion through CAPD). *Nord Med* 1983; 82: 366-373.

Moncrief JW. The introduction of continuous ambulatory peritoneal dialysis (circa 1975). *ASAIO Transactions* 1988; 34; 86-87.

Legrain M. L'histoire de dialyse péritoneale (The history of peritoneal dialysis). *Revue du Practicien* 1991; 41: 1388-1390.

- *it is little known in English-speaking countries that in the unit of Maurice Dérot at the Hôtel Dieu in Paris, Pierre Tanret (1909-1965) used peritoneal dialysis to treat several hundred patients with acute renal failure from 1946 onwards, at the same time as Jacob Fine and colleagues in Boston and Piet Kop in the Netherlands. The work of Fine had by far the greatest influence elsewhere, however.*

Marcum IA. The development of heparin in Toronto. *J Hist Med Allied Sci* 1997; 52: 310- 337.

- *the final purification and standardisation of heparin in Toronto in the early 1930s paved the way for clinical haemodialysis*

Kjellstrand KJ. A brief history of hemodialysis. Home Hemodial Int 1998; 2: 8-11.

Doolan PD. Willem Kolff: recollections and reflections. Artif Organs 1998; 22: 938-939.

Lundin AP. The doctor who is a patient: conflicting or complimentary roles ? Nephrol Dial Transplant 1999; 14: 1082-1084.

- Lundin was one of the early ESRD patients, dialysed in Seattle from 1965 onwards, later receiving a renal transplant. He died in 2000 having been 35 years on renal replacement therapy. His survival is exceeded however by Robin Eady, who started dialysis in 1963 in Seattle, returned home to the UK after a period in Canada and was transplanted in 1987. He is now a professor of Dermatology in London.

Briggs JD. Renal replacement therapy. Scot Med J 1999; 44: 172-174.

Nissenson AR, Sadler JH, Blagg CR, Bower JD, Diamond LH, Steinum TI, Latos D, White MG. The RPA. Celebrating 25 years as an advocate for nephrology. Nephrology News & Issues 1999; 13: 15-20.

Scribner BH. Dialysis therapy in the United States: a historical perspective. Home Hemodialysis Int 1999; 3: 9-12.

Rombeau JL, Muldoon D. *Jonathon Rhoads MD. Quaker sense and sensibility in surgery.* Philadelphia, Hanley and Belfus, 1997.

Rhoads, as well as being a pioneer of peritoneal dialysis in the 1930s, also built and used a haemodialyser in 1944, but never published his experiences and so has been forgotten by the world of dialysis. In 2001 he still lives in Philadelphia, aged 94.

Pelczar ME. Vascular access: an historical review. Asepsis 1996; 18: 9-13.

Transplantation

Corry RJ, Starzl TE. An interesting intra-operative decision. Arch Surg 1999; 134: 901.

Calne R. A half century retrospective of transplantation as viewed by the protagonists: my own reminiscences. Transpl Proc 1999; 31: 20-21.

Dausset J. The HLA adventure. Transpl Proc 1999; 31: 22-24.

Milgrom F. Humoral transplantation antibodies. Transpl Proc 1999; 31: 30-33.

Murray JE. Reminiscences for the "50 year retrospective symposium" Transpl Proc 1999; 31: 34.

Najarian JS. Reminiscences in the "half century retrospective" symposium. Transpl Proc 1999; 31: 35-39.

Schwartz RS. The development of immunosuppressive therapy: from leukemia to transplantation. Transpl Proc 1999; 31: 40-42.

Starzl TE. The ascension of clinical organ transplantation. Transpl Proc 1999; 31: 43-45.

Terasaki PI. History of some currently used procedures in transplantation. Transpl Proc 1999; 31: 47-48.

Medawar J. Reminiscences of Peter Medawar. Transpl Proc 1999; 31: 49.

Rapoport FT. The contribution of human subjects to experimental transplantation. Transpl Proc 1999; 31: 60-66.

Monaco AP. Antilymphocyte serum, donor bone marrow and tolerance to allografts: the journey is the reward. Transpl Proc 1999; 31: 67-71.

Toledo-Pereya LH, Palma-Vargas JM. Searching for history in transplantation: early modern attempts at surgical kidney grafting. Transpl Proc 1999; 31: 2495-2498.

Nechaì AI. K voprosu o pervoi v mire allotranplantatsii pochki ot trupa cehloveka (The question of the first cadaveric renal transplantation into man anywhere). Vestnik Khirurgii Imeni Grekova 1999; 158: 101-102.

Reisaeter AV. Nyretransplantasjon i Norge - et historisk perspektiv (Kidney transplantation in Norway - a historical perspective) Tidsskr Norske Laegef 1999; 119: 3163-3166.

Linskog BI. Transplantationerna blev 1900-talets största kirurgiska (Transplantation - the greatest surgical achievement of the 20th century). Läkartidningen 1999; 96: 5774-5777.

Rapoport FT. Some landmarks in the evolution of transplantation. Transpl Proc 1999; 31: 2939-2944.

Miscellaneous

Felts JH. Dietl's crisis: the rise and fall of medical eponyms. *Perspec Biol Med* 1999; 43: 47-53.

End-notes in *Seminars in Dialysis*

Since its first number in 1988 *Seminars in Dialysis* has carried one or more "page-fillers" in the form of half or two-third page notes, almost all relating to some topic in the history of dialysis, or Nephrology in general. These are not credited to any individual, but up to the end of 2001, amazingly they have all been the work of Dr Sandra Moss of New Jersey, a number of whose papers on the history of nephrology have been listed in this bibliography. Although these notes are not strictly "papers", they contain an astounding range of material, certainly of sufficient interest to list here. Many of the topics mentioned are treated in greater detail in papers by other authors in the full bibliography, as can be sought by searching for the relevant keywords, but a number of topics have never been treated fully elsewhere. I have added a comment to explain each of the often cryptic titles, which were intended (successfully) to amuse and intrigue, rather than explain. Notes published during 2000 are cited in the supplementary bibliography for 2000 below, each in its appropriate section, but those published from 1988 to 1999 are listed here:

No title (*Hippocrates' famous first aphorism*) 1988; 1: 20

No title (*Kolff's work on dialysis in 1943*) 1988; 1: 54

No title (*Harley's "The urine and its derangements" of 1872*) 1988; 1: 61

No title (*The poem on Bright's dropsical patients from the St Bartholomew's Hospital Journal*) 1988; 1: 90

No title (*The manufacture of an anticoagulant from leeches by Abel and colleagues in 1913*) 1988; 1: 102

No title (*The famous quote of Addis on the urine providing a serial story of events in the kidney*) 1988; 1: 111

Geometry of a calculus (*The first X-ray diagnosis of a renal calculus in 1896*) 1988; 1:142

Classifying glomerulonephritis. (*Concerning Arthur Ellis and his types I and II nephritis*) 1988; 1: 169

Aqua, aqua everywhere (*Different types of water listed in a Philadelphia pharmacopoeia of 1857*) 1988; 1: 173

Watch one, do one, teach one (*Oreopoulos' description as a young fellow in Belfast in 1967 of babesiosis as a cause of acute renal failure, treated by PD which was taught him by another fellow Dr M Soyannwo*) 1988; 1: 208

The death of an astronomer in 1601 (*Of Tycho Brahe, from renal failure as a result of urinary tract obstruction, presumably prostatic*) 1988; 1: 212.

Renal philosophy (*On Homer Smith's "From fish to philosopher"*) 1988; 1: 223.

Blutwaschung (*Haas' early work on haemodialysis*).1989; 2: 24

Foxglove (*Withering's discovery of digitalis as a diuretic in 1775*) 1989; 2: 30

A modest proposal: surgical cure of Bright's disease (*Edelbohls' popularisation of the treatment of nephritis by renal decapsulation*)1989; 2: 37

Two textbooks (*Renal disease in Osler's "Practice of medicine" and Harrison's "Textbook of Medicine"*) 1989; 2: 72

One picture is worth a thousand words (*The earliest visualisation of the urinary tract using excretory urography with iodine, by Leonard Rowntree and his colleagues in 1923*)1989; 2: 82

Hypertension: an early view through the ophthalmoscope (*By WR Gowers in 1876 showing narrowing of the retinal arteries in Bright's disease*) 1989; 2; 107

Any volunteers ? (*Carmelo Giordano's trial of a very low protein diet in uraemic subjects in 1963 involved himself as a control*) 1989; 2: 162

Rene a spugna. (*Description of the appearances of medullary sponge kidney by Lenarduzzi using retrograde pyelography in 1938; Cacchi was a urologist working with Ricci, a pupil of Lenarduzzi and their names became attached to the appearance*) 1989 2: 171

The rice diet for hypertension (*Of Walter Kempner in 1944*) 1989; 2: 179

Carboy: from the Persian "Quaraba" - a large bottle (*Fred Boen's use of large containers of dilysate to automate peritoneal dialysis in 1963*) 1989; 2: 185

A corpsman and a thermometer (*Teschan's method of controlling dialysate temperature during acute dialysis in Korea in 1953*) 1989; 2: 225

Sir (sic) Richard Bright's prophecy (*That "his" disease might become curable one day. In fact, Bright was never knighted*) 1989; 2: 237

Acute peritoneal dialysis 1938 (By Jonathon Rhoads of Philadelphia (see book above listed in supplementary bibliography). 1989; 2; 245

A satisfactory method of eliminating uremia (*The work of Jacob Fine and his colleagues' work on peritoneal dialysis in 1945-6; Incidentally, they also used the word "carboy" in their paper, as did Boen much later (see above)*) 1990; 3: 2

In the hours of affliction pain and sickness (*Dr John Gunn of Knoxville, TENN's "Domestic medicine", on urinary retention*) 1990; 3: 26

Poor but proud (*On the decision of the ASAIO to publish Proceedings in 1956*) 1990; 3: 99

Elementary, my dear Watson (*A discussion of a case of factitious phaemochromocytoma in a man, arising from poisoning with metaraminol by his wife, a nurse*) 1990; 3: 104

Simple venipuncture (*Cimino and Brescia's introduction of repeated venipuncture access for chronic dialysis*) 1990; 3: 111

Essentially new and practically important (*Nils Alwall's (Not AlwEll as in the note) description of his dialyser, on which he had been working for some years, at the beginning of 1947*) 1990; 3: 121

Elixir of renal failure: 1937 (*Elixir of sulphanilamide causing acute renal failure from crystalluria*) 1990; 3: 152

Men with a drive (*Rowntree's introduction of sympathectomy for accelerated hypertension in 1925*) 1990; 3; 191

Monday morning disease (*Rhabdomyolysis and myoglobinuria in horses caused by severe exercise after a weekends' rest*) 1990; 3: 177

Beneath the rubble (*Eric Bywaters' 1941 description of the crush syndrome of myoglobinuria in the London blitz of 1940*) 1990; 3: 186

So-called Kimmelstiel-Wilson syndrome (*Heptinstall's proposal that the term be reserved for the histological lesion, and not the (non-specific) clinical manifestations*) 1990; 3: 223

Gridiron glomeruli (*Ken Gardner's 1956 description of "athletic pseudonephritis" in American college football players*) 1991; 4: 8

O, Canada (*The first successful North American dialysis by Canadian surgeon Gordon Murray in October 1946*) 1991; 4: 32

- Taking confusion out of fusion (*Abdominal pain on standing in horseshoe kidney – Rovsing's syndrome*) 1991; 4: 45
- In certain families (*Balkan nephropathy and the possible role of lead intoxication in its pathogenesis*) 1991; 4: 58
- Two free hands (*Stanley Shaldon's use of femoral catheterization for dialysis in 1963*) 1991; 4: 85
- Hematuria and deafness: the third generation (*Alport's description of deafness in Guthrie's family suffering familial haematuria*) 1991; 4: 93
- Influenza: alveoli and glomeruli (*Goodpasture's syndrome*) 1991; 4: 111
- All the blundering empiricism of the past (*The erroneous denial of Harley in 1872 in his "The urine and its derangements etc." that cystinuria was an inherited disease*) 1991; 4: 123
- Tubes (*Maluf's 1950 attempt to use dual cannulation of the intestine for dialysis*) 1991; 4: 151
- Sausage casings (*William Thalhimer's 1938 suggestion that sausage tubing could be used for clinical dialysis*) 1991; 4: 173
- I'm certainly happy that you were not discouraged (*Kolff's remark on Scribner's work on gastrodialysis in 1958*) 1991; 4: 178
- Six days a week. (*Once day a week dialysis using multiple punctures as used by Fred Boen in 1964*) 1991; 4: 223
- Pleural dialysis- why not? (*Swede Jon Gjessing in 1967 was one of several physicians who used pleural dialysis successfully to treat acute uraemia*) 1991; 4: 252
- Les dépôts intercapillaires d'IgA-IgG (*Jean Berger's first description of IgA nephropathy in 1968*) 1991; 4: 264
- Elvis lives! (*Several headlines dealing with health issues, some to do with the kidney, from "Weekly World" - a tabloid*) 1991; 4: 283
- Spiraea (*The genus Spiraea includes the willows, from whose bark salicylate was first extracted. Moss here credits Paul Doolan of Georgetown University with the first treatment of salicylate poisoning by dialysis in 1951, but Eric Bywaters and Mark Joekes reported such a patient treated in London in 1947*) 1992; 5: 19

A Viennese locksmith (*Auspitz's 1863 description of renal involvement in scleroderma, in the post mortem on a locksmith with headache, blindness and strokes*) 1992; 5: 23

Quicksilver (*Alfred Vogl's 1919 discovery in Vienna of diuresis in a syphilitic patient treated with an organic mercurial drug*) 1992; 5: 47

Volume 1, No 1 (*A case of acute-on-chronic urinary tract obstruction described in the first issue of JAMA in 1883*) 1992; 5: 60

Cattle kidneys and cheddar cheese (*Kark and Muehrcke, in 1954, commented that veterinarians could hold the cow's kidney in their hand on rectal examination, and also that would be practitioners of renal biopsy should practice first on a piece of cheddar cheese. A few years later, not knowing of their recommendation, I used apples and pears wrapped in foam rubber*) 1992; 5: 102

Salt poisoning (*Peritoneal dialysis for infantile hypernatraemia in 1960*) 1992; 5: 107

The urine never lies (*The use of urine temperature to detect factitious fever by Wunderlich in Vienna in 1868*) 1992; 5: 135

From Gilberte Renard - to her beloved son (*The first living donor renal transplant in Paris in 1951 from Mrs Renard to her son Marius. It failed after three weeks and Marius died, but the experience taught his physicians an immense amount about renal transplantation*) 1992; 5: 201

Museums of incipient disease (*Robinson's and Brucer's description of the range of normal blood pressure in over 11 000 healthy individuals in 1939*) 1992; 5: 207

Eighty years ago at lunch... (*Abel's team, according to Eli Marshall, worked out the idea of performing vividiffusion over a working lunch*) 1992; 5: 240

Killer rabbit and sister mean (*The vicious names given by staff to blood pumps and dialysers in one unit with a patient described as "uncooperative"*) 1992; 5: 260

8 feet 3 inches (*The height of a horse's blood pressure measured in water, as taken by the Reverend Stephen Hales in 1722*) 1992; 5: 275

Double trouble: leaky twin coils (*A study of 1969 showed that blood remained sterile in leaky twin coils, and they did not need to be discarded*) 1992; 5: 315

The common portion of hysterical women (at this age) (*The diagnosis was uraemia and not hysteria in this unfortunate patient of 1912*) 1993; 6: 25

The great men of Guy's (*Bright, Addison and Hodgkin were contemporaries at Guy's Hospital in London in the 1820s and 1830s*) 1993; 6: 45

Oil – cottonseed, olive or soybean ? (*The use of dialysis against oils to extract more rapidly fat-soluble agents such as the hypnotic glutethimide, a popular cause of suicidal poisoning in the 1960s*) 1993; 6: 104

Did methoxyflurane do it ? Guilty ! Not guilty! Guilty! (*Oxaluria following methoxyflurane anaesthesia was described by Paddock, Parker and Guadagni in 1964, but they (wrongly as it turned out) exonerated the agent*) 1993; 6: 126

Blood shower (*The advanced integral “inside-out” artificial kidney of Guarino and Guarino. It was abandoned because of the danger that membrane rupture led to infusion of dialysis fluid into the circulation – a basic design flaw that proved impossible to eradicate*) 1993; 6: 133

Over the counter (*Spühler and Zollinger’s 1953 description of papillary necrosis associated with consumption of proprietary mixed analgesics containing phenacetin*) 1993; 6: 167

State of the art - 1938 (*John B Wear and his colleagues early peritoneal dialysis in Wisconsin. One of their patients with obstructive uropathy recovered- the first in a dialysed patient with acute renal failure*) 1993; 6: 173

Nephrosonephritis (*The description of what became known as Hantavirus haemorrhagic fever, in American troops in the Korean conflict in 1952. This was the first the developed West knew of a disease, already well-known however to those in Eastern Russia and elsewhere*) 1993; 6: 188

The water of life (*JW Armstrong’s “The water of life: a treatise on urine therapy” published in 1940, discusses urine therapy, including its use for nephritis*) 1993; 6: 193

Take a break (*C Mitchell’s recommendations in “A clinical study of diseases of the kidneys” in 1891 to rest the kidneys by resting the patient in Egypt or on long sea voyages*) 1993; 6: 231

Sphygmomanometers and speedometers (*Oliver Osborne of Yale attributed the rise in cardiovascular and renal disease to the increasing pace of life in the decade of 1910, and argued against taking the blood pressure*) 1993; 6: 304

Blood, toil, tears and sweat (*David Kerr recalls the early days of acute dialysis in the UK in the late 1950s, in Newcastle and in Mollie McGeown’s unit in Belfast*) 1993; 6: 311

Give it back! (*“Husband sues to get his kidney back from wife”- a headline in the Sun newspaper. His wife had become well enough to embark on “a series of affairs”*) 1993; 6: 322

A nonvoiding record (*A patient who, in 1909, survived an episode of 3, 11 and finally 23 days' anuria, from infection and obstruction following a calculus in a solitary kidney*) 1993; 6: 377

Two heads are better than one (*Autotransplantation of the kidney to the neck by Alexis Carrel in 1904 led to his colleague Charles Guthrie of Chicago to attempt head transplants in 1908 – with temporary success, he claimed*) 1993; 6: 389

Greensick lovelorn maidens, please urinate in the cup (*Examination of the urine in cases of chlorosis was a subject of genre paintings in the Netherlands, in this case by Gerard Dou*) 1993; 6: 399

A kidney in sheeps' clothing (*Dialysis using cross-circulation to a mammalian donor whose blood circulated through the dialysate chamber of the dialyser was attempted by several workers in animals during the 1950s, but notably by Pavone-Macaluso and Anello in 1959 in a suicidal case of mercury-induced acute renal failure, with recovery*) 1994; 7: 28-29

Glomerulonephritis- call a surgeon (*Moss returns to the subject of renal decapsulation and adds a note on renal sympathectomy to the same end in 1929, by the nearly ubiquitous Leonard Rowntree*) 1994; 7: 36

Southey's blot (*The use of subcutaneous drainage using Southey's tubes or scarification to treat severe oedema in the days before effective diuretics. I did this procedure as a house officer in the late 1950s on a number of occasions*) 1994; 7: 77

Durities in renibus - a voice from the 13th century (*William of Salicet's famous Latin regurgitation of the original Greek descriptions of hardness in the kidneys and dropsy*) 1994; 7: 90

Curtain Call (*Various, now obsolete chemical methods of testing the urine for protein available in the 1930s*) 1994; 7: 137

Floating kidneys and Dietl's crisis (*Jozef Dietl, a Pole, described "strangulation of floating kidneys" in 1864 and became instantly famous for a century*) 1994; 7: 164

Interstitial interlude (*Subcutaneous dialysis using strips of cellophane tubes implanted subcutaneously in dogs by Rush and Daviglus of Baltimore City Hospital in 1960*) 1995; 7: 167

Lost childhood (*pregnancy in patients on dialysis*) 1994; 7: 185

Pain and horripilation (*Howship Dickinson's 1885 description of renal colic, with hair standing on end as one feature*) 1994; 7: 231

Nephritis dolorosa- a pain to remember (*Descriptions of isolated unilateral renal pain in "nervous young women" preceded the description of the loin-pain haematuria syndrome by many decades: were they the same ?*) 1994; 7: 250

Good guys and bad guys- acute renal success (*Thurau and Boylan's provocative suggestion of 1976 that oliguria is a life-saving and appropriate response in tubular damage –even if it does result in uraemia*) 1994; 7: 256

The Turkish bath – a prototypical dialyzer (*The use of sweating to act as a substitute kidney is an old idea, here mentioned by Dr George Harley in his "The urine and its derangements" of 1872*) 1994; 7: 320

Folie Brightique (*The florid neurological complications of uraemia in pre-dialysis days*) 1994; 7: 359

All in the family: antimicrobials and diuretics (*The story of the family of diuretic drugs starting with carbonic anhydrase inhibitors and sulphonamides in the 1930s and leading on to furosemide*) 1994; 7: 376

Following up (*David Rytand's 45-year follow-up of his and Thomas Addis' patients with isolated postural proteinuria – which proved benign*) 1994; 7: 385

Water power (*An Associated Press report of a urine-powered electric battery from Chile in 1993*) 1994; 7: 397

Vitamin C in the limelight ? (*From Lind and scurvy, to megadose vitamin C and uricosuria with oxaluria*) 1994; 7: 412

Goldschlägerhaut – the goldbeater's skin of Heinrich Necheles (*Used to construct his dialyser of 1923*) 1995; 8: 3

Sitting up in bed and avidly reading the latest comic books (*A young patient of 1954 with acute glomerulonephritis and extreme hyperkalaemia was treated by exchange transfusion. Alas, her remission was only temporary*) 1995; 8: 14

Uva ursi (*Bear berry leaves to treat kidney diseases in Gunn's "Domestic medicine" of 1830*) 1995; 8: 44

Seeing red (*"Rubescent" vision in renal patients becoming uraemic*) 1995; 8: 94

The strange legacy of Dr Joseph Ignace Guillotin (*The use of executed prisoners' kidneys in Paris for transplantation in 1951-2; it is often forgotten that Guillotin was a physician and paid for his invention; - first do no harm?*) 1995; 8: 101

Kidneys in the trenches (*The nature of so-called "trench nephritis" of the First World War remained obscure, although other studies (not discussed here) make it clear that it was probably not Hantaan virus infection, but a post-infectious glomerulonephritis*) 1995; 8: 125

Berries for the bladder (*Cranberry juice for urinary tract infection, a folk remedy now fully validated*) 1995; 8: 146

Exaggerated renal destructive assimilation (*"Neuralgia" of the bladder in nineteenth century medicine, the title being an explanation suggested by Handfield-Jones in 1868 for this "disease"*) 1995; 8: 141

Zebras, lions and hyperkalaemia (*"Zebra" here means a rare or unlikely cause of disease, and the reference to lions and hyperkalaemia is that when a lion eats a zebra it ingests enough potassium in the meat potentially to kill it. OK?*) 1995; 8: 174

Nephrons at work: measuring productivity (*Tests current in the 1930s to assess renal function, as summarised in Stone's "Bright's disease and hypertension" of 1936*) 1995; 8: 200

Hypertensive cardiovascular disease – a new idea (*Theodor Janeway's "Clinical study of blood pressure" of 1904, little known to nephrologists, is a landmark and introduced the term*) 1995; 8: 219

Mollities ossium (*A brief history of the beginnings of myeloma and Bence-Jones proteinuria*) 1995; 8: 293

Thomas Addis: the right company (*That a red cell might keep in the urine*) 1995; 8: 304

The vital forces of the body (*Treatment of eclampsia by bleeding and replacement with (unsterile) saline solution at a rate of 580 ml/ 15 minutes, advocated in 1889 in New Jersey*) 1995; 8: 319

Blood counter attack (*DeGowin's suggestion of 1970 to use testosterone for the treatment of anaemia in uraemic patients on dialysis*) 195; 8: 332

Cuffs and tunnels (*Tenckhoff and Schechter's description of a cuffed peritoneal dialysis catheter in 1968- what is not mentioned here is that this idea had been introduced previously in a single-cuff form by Richard Palmer of Vancouver*) 1995; 8: 358

Aureolus Theophrastus Bombastus von Hohenheim (*Better known as Paracelsus, was one the first to attempt chemical analysis of the urine*) 1995; 8: 366

A death in Toronto (*Of Leonard Thompson in 1935, the first diabetic patient to receive insulin 13 years previously. His kidney showed the Armanni-Ebstein tubular glycogenosis typical of untreated diabetes*) 1996: 9: 4

Moses and myoglobin: the biblical quail incident (*Acute renal failure as part of a syndrome following quail ingestion, as described by both Moses and Moses Maimonides amongst others since classical times. What this note did not highlight, however, is that this only occurs in certain seasons, when the migrating quail have eaten Hemlock berries which may contain the myo/nephrotoxin; enzyme deficiencies may play a role also*) 1996; 9: 76

Nose painting, sleep and urine (*Actions provoked – amongst others - by taking alcohol according to the Porter in Shakespeare's Macbeth*) 1996; 9: 97

A fish out of water – Homer Smith's sea of life (*The present mode of functioning of the mammalian kidney in an evolutionary setting*) 1996; 9: 106

The resources of the practitioner (*Which few diseases tax more than the nephrotic syndrome in children, according to Barnes, Moll and Janeway in 1950. No less than 64 different treatments had been advocated by that year, in which cortisone and ACTH were first used*) 1996; 9: 222

Atlas shrugged: an earth-shaking terror (*Merrill attributed his Kayexalate (cation-exchange resin plus sorbitol) in 1960 as containing sorbitol manufactured by the Hercules Powder company: it was in fact the Atlas Powder company; on this being pointed out, Merrill replied that one of Hercules' labours was to hold up the skies for Atlas, whilst the latter was on holiday*) 1996; 9: 264

Rising waters (*A simple measure of ultrafiltration during dialysis, using measurement of the level in the tank of the early Travenol twin-coil by Ribot in 1964*) 1996; 9: 281

KSCN under pressure (*Controversies on the early use of thiocyanate for high blood pressure from 1900-1950. Presumably this agent generated NO*) 1996; 9: 292

An ague for the waterlogged (*Treatment of the childhood nephrotic syndrome in 1950 using induced malaria, following the observation that measles could result in its remission*) 1996; 9: 302

Puerperal convulsions and the prepared mind of John Charles Weaver Lever (*His description of proteinuria in eclampsia at Guy's Hospital in 1843*) 1996; 9: 369

Hyperpiesia of Clifford Allbutt (*A pithy discussion of this then new and little-recognised condition in 1918 by Frank Meara of Cornell*) 1996; 9: 370

Preventing dementia - foiling aluminum (*Discovery of clues that dialysis dementia was the result of alumin(i)um poisoning in 1976 by Alfrey in Colorado, Flendrig in The Netherlands and Kerr in Newcastle, UK*) 1996; 9: 383

The tip of the iceberg (*Early descriptions of contrast-induced acute renal failure in diabetics by George Dunea and Robert Kark, separately in Chicago in 1968*) 1996; 9: 411

Richard and Ronald (*Herrick: the identical twins who were the first successful renal transplant pair in Boston, in 1956*) 1996; 9: 431

Corrigan and the bruit de soufflet (*Functional aortic insufficiency in anaemic, overloaded chronic dialysis patients in 1971*) 1996; 9: 491

Approaches to itches (*Itching in uraemic patients on dialysis proved an almost impossible therapeutic problem*) 1997; 10: 8

GFR: resisting the tubule (*Early and more recent attempts to make the inulin clearance practical*) 1997: 10: 31

Urologist or nephrologist- that is the question (*How should patients with isolated microscopic haematuria be managed ? And by whom ? Dysmorphic red cells (a very old observation, incidentally) may help*) 1997: 10: 73

Kidney beans (*A cure for Bright's disease in Dr Alvin Chase's "Complete receipt book etc." of 1894 consisted of simply, beans*) 1997; 10: 107

A girl in every port (*Syphilis of the kidney in its various manifestations was common in the 19th and early 20th century, and remains with us today in its secondary immune manifestations*) 1997; 10: 129

Splashing, gurgling, lapping, roaring, dripping, flushing (*Contents of a tape recording designed to stimulate patients to urinate – the "audiocatheter" of RF Alsop, 1974*) 1997; 10: 150

To find and stay on the narrow middle road (*CMV infection in transplanted patients*) 1997; 10: 144

Sans taste, sans everything (*Uraemic hypogeusia studied by Fornari and Avram in 1978*) 1997; 10: 188

Future perfect (*Prognosis of acute nephritis in childhood in Boston, 1904-1921, some of whom were subjected to the then fashionable decapsulation of the kidney*) 1997; 10: 218

My brother's keeper (*Living organ donation by children and adolescents*) 1997; 10: 234

Spitting or pissing blood (*John Tennent's 1734 "Every man his own doctor: or, the poor planter's physician" recommended bleeding and "ipecoacanna" for this complaint*) 1997; 10: 237

Gathered from the gravel walk (*Factitious urinary calculi put by Osler in his urine during an episode of renal colic in 1904*) 1997; 10: 258

From Flanders field (*Mustard gas and the discovery of immunosuppressive agents*) 1997: 10: 271

For God's take, let us sit upon the ground, and tell sad stories of the death of kings (*Cullings from "The medical history of the kings and queens of England" purchased in Westminster abbey, London*) 1997; 10 : 340

Orifice abuse and the road to hell (*Abuse and misuse of bladder catheterisation by medical staff in 1966 as described by George Schreiner*) 1997; 10: 341

A half a century of minimal change (*Elizabeth Farnsworth of Chicago's first use of ACTH in minimal change nephrotic children in 1949*) 1997; 10: 342

Poisoned porches of Queensland (*Children got lead poisoning in Queensland from eating lead paint on the verandahs of their houses. Dr DA Henderson showed in 1954 that on follow-up, some had developed renal failure from lead nephropathy*) 1998; 11: 66

K is for Kulprit (*Chronic potassium depletion led to death with renal tubular lesions in 1948 of a young man with chronic diarrhoea, probably the result of laxative abuse*) 1998; 11: 65

Bag it (*Dimitrios Oreolpoulos' introduction of plastic bags for peritoneal dialysis fluids*) 1998; 11: 44

A quicksilver solution (*Morris Avram's 1976 use of intra-renal mercurials to ablate the kidneys in massive proteinuria complicating renal failure*) 1998; 11: 138

What if? (*"Non-A-non B hepatitis and Hepatitis C in a New York unit in 1979. In fact it had been described a decade before in London by de Wardener and his colleagues, including its evolution to liver failure*) 1998; 11: 87

The Philadelphia story (*Jonathon Rhoads again, this time including his 1944 use of haemodialysis to treat a patient with post partum acute renal failure, who however died*) 1998; 11: 200

Sniff, sniff: the urine nose (*From George Harley's 1872 description of the odours of urine to James Najarian of New Jersey who claimed in 1980 he could diagnose accurately tubular necrosis from the absence of its characteristic odour*) 1998; 11: 215

Young ladies with wire loops (*Baehr's description of the post mortem glomerular appearances of lupus nephritis in 1931*) 1998; 11: 204

Lithotrickery (*Proprietary medical treatments for stones from the early twentieth century, including "Dr Kilmer's swamp root kidney, liver and bladder cure"*) 1998; 11: 227

Bag it (1998 ; 11: 297) is a repeat of 1998; 11: 44

100% minus 50% equals 70% (*An early study from Starzl's unit (then in Colorado) of renal function in donors and recipients of living donor transplants*) 1998; 11: 319

Shocks of wheat (*Crystals of insoluble sulphonamides in the urine*) 1998; 11: 266

Kolff and who? (*Theo Berk, director of the enamel factory in Kampen the Netherlands, who helped Kolff design and build his first artificial kidneys in 1943-45*) 1998; 11: 330

Traveler's diuresis (*Outdated tetracycline, kept by a business traveler from a journey, later gave his wife a Fanconi syndrome*) 1998; 11: 359

The corpuscles of Marcello Malpighi (*Malpighi, a leading microscopist of the 17th century made many discoveries one of which was to observe and draw the cortical glomerular corpuscles of the kidney which bear his name*) 1998; 11: 364

A crying child with tetany (*Bartter's syndrome- 1960*) 1999; 12: 4

Urethral obstruction: bullets over Broadway (*A soldier who was shot in the first world war later, after a period of obstruction, passed the bullet per urethram*) 1999; 12: 8

O! That this too too solid flesh would melt (*Massive obesity, proteinuria and a nephrotic syndrome – and post-jejunal bypass hyperoxaluria*) 1999; 12: 58

A case of apoplexy (*Sub-arachnoid haemorrhage in a patient with polycystic kidneys – in New York in 1856*) 1999; 12: 134

Cheap, effective, safe, gone (*The rise and fall of rauwolfia serpentina- why ?*) 1991; 12: 133

You're a good man, Snoopy ! (*The famous comic strip from 1973 of Snoopy considering hyponatraemia as a cause of Woodstock's condition. How many of us have projection slides made from this ?*) 1999; 12: 208

Thumb by thumb (*Kolff squeezing out blood clots from his early dialyser tubing by digital pressure, leading to some thoughts on the history of anticoagulation*) 1999; 12: 181

Bound in to saucy doubt and fears (*Abuse of Worcestershire sauce leading to nephrotoxicity, as reported by Arthur Douthwaite of Guy's Hospital in 1956 and KJ Murphy of Brisbane, Australia in 1961*) 1999; 12: 194

A case of true renal ectopia (*In New Jersey in 1888 a physician presenting a case of nephrectomy following gunshot wound was able to produce the patient, the ball, the ligature, the pistol, his assistant" but not the organ itself which he said "was now in Washington")* 1999; 12: 230

We were rather stupid (*JK Ormond's first description in 1948 of retroperitoneal fibrosis*) 1999; 12: 271

Salt and psyche (*A 1955 study of electrolyte excretion in relation to mood from Cornell University*) 1999; 12: 272

Squeezing the toothpaste tube from the bottom (*Geoff Berlyne and Eli Friedman returned in 1981 to an old therapy for dropsy, that of head-out water immersion*) 1999; 12: 332

The little operation of female catheterism (*Back to Gunn's 1830 "Domestic medicine, or poor man's friend in the hours of affliction, pain, and sickness" describes self-catheterisation of urine for women*) 1999; 12: 354

Working up a sweat (*Hot air baths and sweating as treatment for oedema, in London 1927*) 1999; 12: 400

She gave up her soul to heaven (*The death of Margaret Robinson in Norfolk, England in 1638 from eclampsia, as detailed on her gravestone, and EM Lazard's introduction of magnesium sulphate as treatment for it in 1924*) 1999; 12: 447

I am perfectly calm (*Stress and hypertension, including phaeochromocytoma*) 1999; 12: 478

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