

Statement of Principles concerning RENAL STONE DISEASE (Balance of Probabilities) (No. 70 of 2019)

The Repatriation Medical Authority determines the following Statement of Principles under subsection 196B(3) of the *Veterans' Entitlements Act 1986*.

Dated 21 June 2019

The Common Seal of the Repatriation Medical Authority was affixed to this instrument at the direction of:

Professor Nicholas Saunders AO

Chairperson

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1 Name

This is the Statement of Principles concerning *renal stone disease (Balance of Probabilities)* (No. 70 of 2019).

2 Commencement

This instrument commences on 22 July 2019.

3 Authority

This instrument is made under subsection 196B(3) of the *Veterans' Entitlements Act 1986*.

4 Repeal

The Statement of Principles concerning renal stone disease No. 66 of 2010 (Federal Register of Legislation No. F2010L02305) made under subsection 196B(3) of the VEA is repealed.

5 Application

This instrument applies to a claim to which section 120B of the VEA or section 339 of the *Military Rehabilitation and Compensation Act 2004* applies.

6 Definitions

The terms defined in the Schedule 1 - Dictionary have the meaning given when used in this instrument.

7 Kind of injury, disease or death to which this Statement of Principles relates

(1) This Statement of Principles is about renal stone disease and death from renal stone disease.

Meaning of renal stone disease

- (2) For the purposes of this Statement of Principles, renal stone disease:
 - (a) means the presence of one or more calculi in the kidney (nephrolithiasis) or ureter (ureterolithiasis), which result from crystallisation of mineral salts in the urine; and
 - (b) excludes nephrocalcinosis (renal parenchymal calcification) and primary calculus of the lower urinary tract (urinary bladder or urethra).

Note: Renal stones are typically composed of calcium salts (calcium oxalate or calcium phosphate), uric acid, cystine or struvite (magnesium, ammonium and phosphate).

- (3) While renal stone disease attracts ICD-10-AM code N20, in applying this Statement of Principles the meaning of renal stone disease is that given in subsection (2).
- (4) For subsection (3), a reference to an ICD-10-AM code is a reference to the code assigned to a particular kind of injury or disease in *The International Statistical Classification of Diseases and Related Health Problems, Tenth Revision, Australian Modification* (ICD-10-AM), Tenth Edition, effective date of 1 July 2017, copyrighted by the Independent Hospital Pricing Authority, ISBN 978-1-76007-296-4.

Death from **renal stone disease**

(5) For the purposes of this Statement of Principles, renal stone disease, in relation to a person, includes death from a terminal event or condition that was contributed to by the person's renal stone disease.

Note: *terminal event* is defined in the Schedule 1 – Dictionary.

8 Basis for determining the factors

On the sound medical-scientific evidence available, the Repatriation Medical Authority is of the view that it is more probable than not that renal stone disease and death from renal stone disease can be related to relevant service rendered by veterans or members of the Forces under the VEA, or members under the MRCA.

Note: MRCA, relevant service and VEA are defined in the Schedule 1 – Dictionary.

9 Factors that must exist

At least one of the following factors must exist before it can be said that, on the balance of probabilities, renal stone disease or death from renal stone disease is connected with the circumstances of a person's relevant service:

- (1) having primary hyperparathyroidism within the ten years before the clinical onset of renal stone disease;
- (2) having post-surgical hypoparathyroidism at the time of the clinical onset of renal stone disease;
- (3) having a malignant neoplasm, other than non-metastatic non-melanotic malignant neoplasm of the skin, at the time of the clinical onset of renal stone disease;
- (4) having a haematological disease from the specified list of haematological diseases at the time of the clinical onset of renal stone disease;

Note: specified list of haematological diseases is defined in the Schedule 1 - Dictionary.

(5) having gout or hyperuricaemia at the time of the clinical onset of renal stone disease;

Note: *hyperuricaemia* is defined in the Schedule 1 - Dictionary.

(6) having tumour lysis syndrome at the time of the clinical onset of renal stone disease;

Note: tumour lysis syndrome is defined in the Schedule 1 - Dictionary.

- (7) having diarrhoea on more days than not, for a continuous period of at least four weeks, within the three months before the clinical onset of renal stone disease;
- (8) having hypokalaemia for a continuous period of at least the four weeks before the clinical onset of renal stone disease;
- (9) having distal renal tubular acidosis at the time of the clinical onset of renal stone disease;

Note: distal renal tubular acidosis is defined in the Schedule 1 - Dictionary.

(10) having a urinary tract infection with urease-producing bacteria within the five years before the clinical onset of renal stone disease;

Note: urease-producing bacteria is defined in the Schedule 1 - Dictionary.

- (11) having an acquired narrowing or obstruction of the ureter, ureteropelvic junction or renal calyx, on the affected side, at the time of the clinical onset of renal stone disease;
- (12) having a gastrointestinal disease from the specified list of gastrointestinal diseases at the time of the clinical onset of renal stone disease;

Note: specified list of gastrointestinal diseases is defined in the Schedule 1 - Dictionary.

- (13) having undergone:
 - (a) a malabsorptive bariatric procedure; or
 - (b) ileal resection or ileal bypass surgery; or
 - (c) Roux-en-Y gastric bypass surgery;

within the five years before the clinical onset of renal stone disease;

Note: *malabsorptive bariatric procedure* is defined in the Schedule 1 - Dictionary.

(14) having a systemic disease from the specified list of systemic diseases at the time of the clinical onset of renal stone disease;

Note: specified list of systemic diseases is defined in the Schedule 1 - Dictionary.

(15) being treated with a drug or a drug from a class of drugs from the specified list of drugs, within the six weeks before the clinical onset of renal stone disease;

Note: specified list of drugs is defined in the Schedule 1 - Dictionary.

- (16) having a urinary diversion procedure before the clinical onset of renal stone disease;
 - Note: urinary diversion procedure is defined in the Schedule 1 Dictionary.
- (17) having neurogenic bladder at the time of the clinical onset of renal stone disease;
 - Note: neurogenic bladder is defined in the Schedule 1 Dictionary.
- (18) having paraplegia or quadriplegia at the time of the clinical onset of renal stone disease;
- (19) being immobile for a continuous period of at least four weeks within the three months before the clinical onset of renal stone disease;
 - Note: being immobile is defined in the Schedule 1 Dictionary.
- (20) having inadequate fluid intake, for a continuous period of at least four weeks, within the three months before the clinical onset of renal stone disease;
 - Note: *inadequate fluid intake* is defined in the Schedule 1 Dictionary.
- (21) being overweight or obese for at least the five years before the clinical onset of renal stone disease;
 - Note: being overweight or obese is defined in the Schedule 1 Dictionary.
- (22) having anorexia nervosa at the time of the clinical onset of renal stone disease;
- (23) having a renal transplant before the clinical onset of renal stone disease;
- (24) experiencing spaceflight for a continuous period of at least seven days within the 30 days before the clinical onset of renal stone disease;
- (25) inability to obtain appropriate clinical management for renal stone disease.

10 Relationship to service

- (1) The existence in a person of any factor referred to in section 9, must be related to the relevant service rendered by the person.
- (2) The factor set out in subsection 9(25) applies only to material contribution to, or aggravation of, renal stone disease where the person's renal stone disease was suffered or contracted before or during (but did not arise out of) the person's relevant service.
- 11 Factors referring to an injury or disease covered by another Statement of Principles

In this Statement of Principles:

- (1) if a factor referred to in section 9 applies in relation to a person; and
- (2) that factor refers to an injury or disease in respect of which a Statement of Principles has been determined under subsection 196B(3) of the VEA;

then the factors in that Statement of Principles apply in accordance with the terms of that Statement of Principles as in force from time to time.

Schedule 1 - Dictionary

Note: See Section 6

1 Definitions

In this instrument:

being immobile means having gross diminution or near complete absence of movement of the body, such as could occur as a result of paralysis, lower limb fracture or being bed-bound.

being overweight or obese means having a Body Mass Index (BMI) of 25 or greater.

Note: **BMI** is also defined in the Schedule 1 - Dictionary.

BMI means W/H² where:

W is the person's weight in kilograms; and H is the person's height in metres.

distal renal tubular acidosis means an acquired syndrome of hyperchloraemic metabolic acidosis due to distal tubular dysfunction, characterised by hypokalaemia, alkaline urine, low urine citrate excretion, hypercalciuria, and often bone disease.

hyperuricaemia means a serum uric acid level of at least 6.8 mg/dL (404 micromoles/litre).

inadequate fluid intake means fluid intake:

- (a) that is insufficient to maintain an average daily urine volume of at least 750 millilitres; or
- (b) that results in urine which is consistently darker than a pale yellow colour, and there is no biochemical or medical reason for such colouration other than inadequate hydration.

Note: Urine that is darker than a pale yellow colour corresponds to grades 4 to 8 on a standard dehydration urine colour chart.

malabsorptive bariatric procedure means a surgical weight-loss technique which alters the structure of the digestive tract, allowing food to bypass portions of the small intestine. Examples of such procedures include, but are not limited to, distal or total gastrectomy, biliopancreatic diversion and duodenal switch. Purely restrictive bariatric procedures, such as laparoscopic adjustable gastric banding or laparoscopic sleeve gastrectomy, are not considered malabsorptive bariatric procedures.

MRCA means the Military Rehabilitation and Compensation Act 2004.

neurogenic bladder means flaccid, spastic or mixed bladder dysfunction caused by neurological damage affecting the bladder.

Note: Examples of causes of neurogenic bladder include, but are not limited to, spinal cord injury, cerebrovascular accident, Parkinson's disease and diabetic autonomic neuropathy.

relevant service means:

- (a) eligible war service (other than operational service) under the VEA;
- (b) defence service (other than hazardous service and British nuclear test defence service) under the VEA; or
- (c) peacetime service under the MRCA.

Note: MRCA and VEA are also defined in the Schedule 1 - Dictionary.

renal stone disease—see subsection 7(2).

specified list of drugs means:

- (a) aluminium derivatives;
- (b) aminopenicillins;
- (c) ammonium chloride;
- (d) carbonic anhydrase inhibitors;
- (e) ceftriaxone;
- (f) efavirenz;
- (g) ephedrine;
- (h) guaifenesin;
- (i) nitrofurantoin;
- (j) orlistat;
- (k) phenazopyridine;
- (1) phosphoric acid;
- (m) protease inhibitors;
- (n) quinolones;
- (o) silicate-containing antacids;
- (p) sulphasalazine;
- (q) sulphonamides;
- (r) systemic glucocorticoids;
- (s) topiramate;
- (t) triamterene;
- (u) uricosuric drugs; or
- (v) urinary alkalinisation agents.
- Note 1: Aluminium derivatives include, but are not limited to, aluminium hydroxide antacids and aluminium magnesium potassium urate.

Note 2: Urinary alkalinisation agents are carbonate- or bicarbonate-containing drugs. Examples include, but are not limited to, sodium bicarbonate and potassium citrate.

specified list of gastrointestinal diseases means:

- (a) biliary cirrhosis;
- (b) blind loop syndrome;
- (c) chronic pancreatitis;
- (d) coeliac sprue; or
- (e) inflammatory bowel disease.

specified list of haematological diseases means:

- (a) haemolytic anaemia;
- (b) haematological malignancy;
- (c) lymphoproliferative disease;
- (d) myeloproliferative disease;

- (e) sickle-cell disease; or
- (f) thalassaemia.

specified list of systemic diseases means:

- (a) Cushing syndrome;
- (b) diabetes mellitus;
- (c) sarcoidosis; or
- (d) Sjogren syndrome.

terminal event means the proximate or ultimate cause of death and includes the following:

- (a) pneumonia;
- (b) respiratory failure;
- (c) cardiac arrest;
- (d) circulatory failure; or
- (e) cessation of brain function.

tumour lysis syndrome means a group of metabolic and electrolyte abnormalities that occurs in patients with a malignant neoplasm, usually after the initiation of cytotoxic treatment, but also spontaneously. It is characterised by excessive cell lysis resulting in hyperuricaemia, hyperphosphataemia, hyperkalaemia and hypocalcaemia.

urease-producing bacteria means any bacteria which possess the enzyme urease that degrades urea to ammonia and carbon dioxide, and includes, but is not limited to, *Proteus* spp., *Haemophilus* spp., *Klebsiella* spp., *Ureaplasma urealyticum* and *Serratia ureilytica*.

urinary diversion procedure means a surgical procedure in which the ureter is transposed from its usual position. Examples include, but are not limited to, ureterosigmoidostomy and ileal conduit diversion.

VEA means the Veterans' Entitlements Act 1986.