Statement of Principles
cconcerning

ACUTE MYELOID LEUKAEMIA
(No. 72 OF 2015)

made under subsection 196B(3) of the

Veterans’ Entitlements Act 1986

This compilation was prepared on 21 March 2016 taking into account Amendment Statement of Principles concerning ACUTE MYELOID LEUKAEMIA (Balance of Probabilities) No. 34 of 2016

Prepared by the Repatriation Medical Authority Secretariat, Brisbane

Compilation date – 4 April 2016

Compilation number 1
Statement of Principles
cconcerning
ACUTE MYELOID LEUKAEMIA
(No. 72 of 2015)

The Repatriation Medical Authority determines the following Statement of Principles.

Dated 19 June 2015
Statement of Principles concerning acute myeloid leukaemia (No. 72 of 2015)
Veterans’ Entitlements Act 1986

Contents

1 Name...........................................................................................................................................4
2 Commencement ...........................................................................................................................4
3 Authority ...........................................................................................................................................4
4 Revocation ...........................................................................................................................................4
5 Application ...........................................................................................................................................4
6 Definitions ...........................................................................................................................................4
7 Kind of injury, disease or death to which this Statement of Principles relates ...........4
8 Basis for determining the factors ....................................................................................................5
9 Factors that must exist .....................................................................................................................5
10 Relationship to service ....................................................................................................................7
11 Factors referring to an injury or disease covered by another Statement of Principles ..........................................................................................................................7

Schedule 1 - Dictionary ....................................................................................................................8

1 Definitions ...........................................................................................................................................8
1 Name
This is the Statement of Principles concerning **acute myeloid leukaemia** (No. 72 of 2015).

2 Commencement
This instrument commences on **20 July 2015**.

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

4 Revocation
The Statement of Principles concerning acute myeloid leukaemia No. 36 of 2006, as amended, made under subsections 196B(3) and (8) of the VEA is revoked.

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 acute myeloid leukaemia and death from acute myeloid leukaemia.

*Meaning of acute myeloid leukaemia*

(2) For the purposes of this Statement of Principles, acute myeloid leukaemia:

   (a) means a malignant neoplasm of immature cells committed to the myeloid cell lineage, and typically with 20 percent or more myeloblasts in bone marrow or peripheral blood; and
   (b) includes acute myeloblastic leukaemia, acute promyelocytic leukaemia, acute myelomonocytic leukaemia, acute monoblastic and monocytic leukaemia, acute erythroid leukaemia, acute megakaryoblastic leukaemia, acute basophilic leukaemia, acute panmyelosis with myelofibrosis, and myeloid sarcoma.
Death from acute myeloid leukaemia

(3) For the purposes of this Statement of Principles, acute myeloid leukaemia, in relation to a person, includes death from a terminal event or condition that was contributed to by the person’s acute myeloid leukaemia.

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 acute myeloid leukaemia and death from acute myeloid leukaemia can be related to relevant service rendered by veterans or members of the Forces under the VEA, or members under the MRCA.

Note: relevant service is 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, acute myeloid leukaemia or death from acute myeloid leukaemia is connected with the circumstances of a person’s relevant service:

(1) smoking at least 15 pack-years of cigarettes, or the equivalent thereof in other tobacco products, before the clinical onset of acute myeloid leukaemia, and:

   (a) smoking commenced at least ten years before the clinical onset of acute myeloid leukaemia; and
   (b) where smoking has ceased, the clinical onset of acute myeloid leukaemia has occurred within ten years of cessation;

Note: pack-years of cigarettes, or the equivalent thereof in other tobacco products is defined in the Schedule 1 - Dictionary.

(2) having a specified haematological disorder at the time of the clinical onset of acute myeloid leukaemia;

Note: specified haematological disorder is defined in the Schedule 1 - Dictionary.

(3) undergoing a course of treatment with a drug or a drug from a class of drugs from the specified list of drugs before the clinical onset of acute myeloid leukaemia, where the first exposure occurred at least six months before the clinical onset of acute myeloid leukaemia, and where that therapy has ceased, the clinical onset of acute myeloid leukaemia occurred within 20 years of cessation;

Note: specified list of drugs is defined in the Schedule 1 - Dictionary.
having received a cumulative equivalent dose of at least 0.05 sievert of ionising radiation to the bone marrow at least two years before the clinical onset of acute myeloid leukaemia;

Note: cumulative equivalent dose is defined in the Schedule 1 - Dictionary.

undergoing treatment with radioactive iodine for cancer before the clinical onset of acute myeloid leukaemia, where the first exposure occurred at least two years before the clinical onset of acute myeloid leukaemia;

undergoing treatment with radioactive phosphorus for a myeloproliferative neoplasm before the clinical onset of acute myeloid leukaemia, where the first exposure occurred at least two years before the clinical onset of acute myeloid leukaemia;

being exposed to benzene as specified:

(a) for a cumulative total of at least 2 500 hours within a continuous period of five years before the clinical onset of acute myeloid leukaemia; and

(b) where the first exposure in that period occurred at least five years before the clinical onset of acute myeloid leukaemia; and

(c) where the last exposure in that period occurred within the 30 years before the clinical onset of acute myeloid leukaemia;

Note: being exposed to benzene as specified is defined in the Schedule 1 - Dictionary.

receiving greater than ten ppm-years of cumulative exposure to benzene before the clinical onset of acute myeloid leukaemia, and:

(a) where the first exposure occurred at least ten years before the clinical onset of acute myeloid leukaemia; and

(b) where the last exposure occurred within the 30 years before the clinical onset of acute myeloid leukaemia;

Note: ppm-years is defined in the Schedule 1 - Dictionary.

being obese for at least ten years within the 20 years before the clinical onset of acute myeloid leukaemia;

Note: being obese is defined in the Schedule 1 - Dictionary.

having a disease from the specified list of autoimmune diseases before the clinical onset of acute myeloid leukaemia;

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

inability to obtain appropriate clinical management for acute myeloid leukaemia.
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(11) applies only to material contribution to, or aggravation of, acute myeloid leukaemia where the person’s acute myeloid leukaemia 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:

*acute myeloid leukaemia*—see subsection 7(2).

*being exposed to benzene as specified* means:

(a) having cutaneous contact with liquids containing benzene greater than 1% by volume; or
(b) ingesting liquids containing benzene greater than 1% by volume; or
(c) inhaling benzene vapour where such exposure occurs at an ambient 8-hour time-weighted average benzene concentration exceeding five parts per million.

Note: 8-hour time-weighted average is also defined in the Schedule 1 - Dictionary.

*being obese* means having a Body Mass Index (BMI) of 30 or greater.

The BMI = \( \frac{W}{H^2} \) and where:

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

*cumulative equivalent dose* means the total dose of ionising radiation received by the particular organ or tissue. The formula used to calculate the cumulative equivalent dose allows doses from multiple types of ionising radiation to be combined, by accounting for their differing biological effect. The unit of equivalent dose is the sievert. For the purposes of this Statement of Principles, the calculation of cumulative equivalent dose excludes doses received from normal background radiation, but includes therapeutic radiation, diagnostic radiation, cosmic radiation at high altitude, radiation from occupation-related sources and radiation from nuclear explosions or accidents.

8-hour time-weighted average means the averaging of different exposure levels to benzene during an average exposure period equivalent to eight hours.

*MRCA* means the *Military Rehabilitation and Compensation Act 2004*.

*myelodysplastic/myeloproliferative neoplasm* means a myeloid neoplasm with clinical, laboratory and morphologic features that overlap myelodysplastic disorder and myeloproliferative neoplasm. This subgroup includes chronic myelomonocytic leukaemia, atypical chronic myeloid leukaemia, juvenile myelomonocytic leukaemia and myelodysplastic/myeloproliferative neoplasm unclassifiable.
pack-years of cigarettes, or the equivalent thereof in other tobacco products
means a calculation of consumption where one pack-year of cigarettes equals
twenty tailor-made cigarettes per day for a period of one calendar year or
7 300 cigarettes. One tailor-made cigarette approximates one gram of
tobacco or one gram of cigar or pipe tobacco by weight. One pack-year of
tailor-made cigarettes equates to 7.3 kilograms of smoking tobacco by
weight. Tobacco products mean either cigarettes, pipe tobacco or cigars,
smoked alone or in any combination.

ppm-years means parts per million multiplied by years of exposure.

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.

specified haematological disorder means:
(a) a myelodysplastic/myeloproliferative neoplasm;
(b) aplastic anaemia; or
(c) myelodysplastic syndrome.

Note: myelodysplastic/myeloproliferative neoplasm is also defined in the Schedule 1 -
Dictionary.

specified list of autoimmune diseases means:
(a) autoimmune haemolytic anaemia;
(b) giant cell arteritis;
(c) pernicious anaemia;
(d) polymyalgia rheumatica;
(e) rheumatoid arthritis;
(f) systemic lupus erythematosus;
(g) systemic vasculitis; or
(h) ulcerative colitis.

specified list of drugs means:
(a) a topoisomerase II inhibitor; or
(b) an alkylating agent.

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.

VEA means the Veterans’ Entitlements Act 1986.
Notes to Statement of Principles concerning acute myeloid leukaemia (No. 72 of 2015)

The Statement of Principles concerning acute myeloid leukaemia (No. 72 of 2015) in force under subsection 196B(3) of the Veterans’ Entitlements Act 1986, as shown in this compilation is amended as indicated in the Tables below.

Table of Instruments

<table>
<thead>
<tr>
<th>Title</th>
<th>Date of FRLI registration</th>
<th>Date of commencement</th>
<th>Application, saving or transitional provisions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>F2015L00904</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amendment Statement of Principles concerning acute myeloid leukaemia (Balance of Probabilities) No. 34 of 2016</td>
<td>8 March 2016</td>
<td>4 April 2016</td>
<td></td>
</tr>
<tr>
<td></td>
<td>F2016L00251</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table of Amendments

<table>
<thead>
<tr>
<th>Provision affected</th>
<th>How affected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clause 9(7)</td>
<td>rs. No. 34 of 2016</td>
</tr>
<tr>
<td>Schedule 1 – Dictionary – “being exposed to benzene as specified”</td>
<td>rs. No. 34 of 2016</td>
</tr>
</tbody>
</table>