Supplementary Table 2. Related keywords and searching strategy

|  |  |
| --- | --- |
| **Relevant text of IGF-1** | **Relevant text of Osteoporosis** |
| 1. SNP
 | 1. Age-Related Osteoporosis
 |
| 1. SNPs
 | 1. Bone Loss, Age-Related
 |
| 1. genetic
 | 1. Osteoporosis, Age-Related
 |
| 1. polymorphism
 | 1. Osteoporosis, Involutional
 |
| 1. polymorphisms
 | 1. Osteoporosis, Post-Traumatic
 |
| 1. genetic polymorphisms
 | 1. Osteoporosis, Senile
 |
| 1. genetic polymorphism
 | 1. Senile Osteoporosis
 |
| 1. nucleotide polymorphism, single
 | **Combined (Final Strategy)** |
| 1. nucleotide polymorphisms, single
 | 1. (1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11) and (12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21)
 |
| 1. polymorphisms, single nucleotide
 |
| 1. single nucleotide polymorphisms
 |
| 1. single nucleotide polymorphism
 |
| 1. IGF-1
 | 1. (22 or 23 or 24 or 25 or 26 or 27 or 28)
 |
| 1. IGF-I
 |
| 1. IGF-1-SmC
 | 1. 29 and 30
 |
| 1. Insulin Like Growth Factor I
 |  |
| 1. Insulin-Like Somatomedin Peptide I
 |  |
| 1. Somatomedin C
 |  |
| 1. rs35767
 |  |
| 1. rs2288377
 |  |
| 1. rs5742612
 |  |

MeSH Browser: http://www.nlm.nih.gov/mesh/MBrowser.html

PubMed: http://www.ncbi.nlm.nih.gov/pubmed

Cochrane Library: http://www.thecochranelibrary.com

Embase: https://www.embase.com

Web of science: <http://www.webofscience.com>

**Pubmed (105)**

1. Animal researches (10)[1-10]
2. Not related to this research (53)[11-63]
3. Not OP (26)[64-89]
4. Studies on other polymorphisms or gene (11)[90-100]
5. Not postmenopausal (2)[101, 102]
6. Included (3)[103-105]

**Cochrane (9)**

1. Duplication (1)[97]
2. Not related to this research (8)[106-113]

**Embase (58)**

1. Duplication (29) [4, 25, 27, 28, 32, 40, 41, 43, 50, 51, 57, 69, 76, 77, 81, 85, 88, 90, 92-96, 98, 100, 101, 103-105]
2. Animal research (1)[114]
3. Not related to this research (17)[115-131]
4. Not OP (3)[132-134]
5. Studies on other polymorphisms or gene (6) [135-140]
6. Poster (2)[141, 142]

**Web of Science (110)**

1. Duplication (57)[1-6, 9, 10, 15, 17, 18, 22, 25, 27, 31, 34, 35, 37-40, 42, 50, 54, 56-59, 65, 66, 69, 71, 73, 74, 76-78, 81, 84, 85, 87, 88, 90, 92, 95, 96, 98, 100-105, 118, 138, 141, 142]
2. Animal researches (12)[143-154]
3. Not related to this research (11)[155-165]
4. Not OP (24)[166-189]
5. Studies on other polymorphisms or gene (4)[190-193]
6. Not postmenopausal (2)[194, 195]

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