

Bone Disease Treatments, Future Direction

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Abstract

Bone disease is common human diseases worldwide. At present, drug development, surgery and physical instrument is the main therapeutic options worldwide. This editorial provides new insights into bone disease treatments in the future.

Keywords: Osteoporosis; Drug Development; Diagnostics; Technology; Computer-Aid; Bone-Disease

Bone disease diagnosis, interventions and therapeutics requires new breakthroughs [1-8]. It needs different therapeutic strategies, magic bullets and paradigms (drug, surgery, rehabilitation and nursery) [3-11]. Their development is in various paces.

The fastest path in future is therapeutic renovation and technical adaptation. It represents in different therapeutic modality and technical versatility [12-22];

- Drug development in low cost and toxicity (computer-aid drug design and molecular assessments).
- Digital tool in diagnosis and disease analysis.
- Surgery assistance or automation by computers (3D printers of bone tissues, joint and others).
- Supportive techniques (movement assistance and prosthetic limbs).
- Artificial intelligence (almost all areas).
- Broad application of Chinese medicine in worldwide.
- New materials (inorganic, organic and bio-materials for dead bone replacement).

By these future trends, clinical orthopedic treatments will be improved without the necessity of high costs of treatments. With the rapid development of diagnostic and therapeutic versatility, we should look forwards to new surprise and breakthroughs.

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