Clinical response in osteogenic sarcoma patients treated with ultra-dilute medicines

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Abstract
Osteogenic sarcoma management is a challenge for the cancer community globally. Not much awareness or information about the use of complementary and alternative medicine (CAM), more specifically treatment with ultra-dilute medicines, is available for such cases. Our experience in this will show that treatment of this dreaded disease with ultra-dilute medicines can be considered as a possible option.

This treatment has been well tested in the clinical setting, by virtue of it being in use for decades with a good degree of success. This has inspired us to follow closely data available at our institution clinics where we treat this disease by using the “Banerji Protocols”. These protocols consist of the use of disease specific ultra-dilute medicines in specific dilutions, in pre-set dosage patterns. By this conservative treatment, surgical interventions such as amputation of affected parts can be avoided and the patient returned to health.

Recent experimental studies of “Banerji Protocol” medicines used in cancer treatment have revealed that these medicines act both at the molecular as well as the genetic levels resulting in growth arrest and apoptosis in tumor cells. The findings suggest that such tumor cell specific cytostatic and cytotoxic effects could be responsible for the observed therapeutic efficacy of these medicines in cancer treatment.

Introduction
Osteosarcoma is the most common malignant bone tumor in youth. The average age at diagnosis is 15. Boys and girls have a similar incidence of this tumor until late adolescence, at which time boys are more commonly affected. The cause is not known. In some cases, osteosarcoma runs in families and at least one gene has been linked to increased risk. This gene is also associated with familial retinoblastoma, a cancer of the eye which occurs in children. It appears to be a defective tumor inhibitor gene. This disease is an aggressive neoplasm arising from primitive transformed cells of mesenchymal origin that exhibit osteoblastic differentiation and produce malignant osteoid. It is the most common histological form of primary bone cancer. They comprise of a diverse group of primary and metastatic neoplasms in both children and adults. The most common small cell tumors of bone include Ewing sarcoma/primitive neuroectodermal tumor, small cell osteosarcoma. It is the eighth most common form of childhood cancer, comprising 2.4% of all malignancies in pediatric patients and approximately 20% of all bone cancers [1-3]. It is more common in males than in females [4], and often seen in teenage boys who are taller than average [5]. Primary bone cancer is rarely diagnosed in children before the age of five or adults over the age of sixty. Incidence of Osteosarcoma increases with age until a peak in late childhood or adolescence around the time of puberty, after which incidence declines [6-8]. A second less pronounced peak is observed in older adults above the age of 65 years (Ottaviani and Jaffe, 2010) [9].

The tumor may be localized at the end of the long bones. Most often it affects the upper end ofibia (19%) or humerus (10%) or lower end of femur (42%). Osteogenic Sarcoma tends to affect regions around the knee in 60% of cases, 15% around the hip, 10% at the shoulder and 8% in the jaw. Radiological examination reveals that the tumor is solid, hard, irregular (“fir-tree,” “moth-eaten” or “sun-burst” appearance in X-ray plates) due to the presence of tumor spicules of calcified bone radiating from the surface of the tumor [10,11].

The characteristic feature of Osteogenic Sarcoma is presence of bone formation within the tumor with or without central calcification. Tumor cells are very pleomorphic; some exhibit multinucleated osteoclast-like giant cells with atypical mitoses. Tumor cells may resemble bone cells, cartilage cells or fibroblast cells. Osteogenic Sarcoma is one of the few tumors that remains localized to the site of origin, though sometimes metastasizes to other sites, usually to the lungs or other bones. The tumor may recur in the same place, or at distant sites like lungs or other bones. Patients suffering from Osteogenic Sarcoma show pain on weight bearing portions. About 53% patients present minor trauma followed by swelling around the site of symptom [12,13].

The traditional treatment of Osteogenic Sarcoma is the application of antitumor agent along with radiation or surgery. Antitumor effects of bisphosphonates such as zoledronic acid (ZOL) or combined effects of ZOL with other anticancer agents against Osteogenic Sarcoma cells...
have been reported. Combined therapy (low-concentration ZOL and
low-dose radiation) has been reported to yield significant growth
inhibitory effects [14]. Limb-salvage treatment and amputation have
been proved to be a satisfactory measure against Osteogenic Sarcoma
[15]. Surgical removal of the malignant tumors from the proximal
femur also proved to be satisfactory [11]. Different plant products also
showed antitumor results on Osteogenic Sarcoma cells [16-20]. Even
though, as mentioned above, there are many interventions possible, the
prognosis leaves much to be desired, both in terms of survival as well
as Quality of Life (QoL).

We present here case reports and clinical responses of two
Osteogenic Sarcoma patients treated with a combination ultra-
dilute natural remedy protocol comprising of Symphytum, Calcarea
phosphorica and Carcinosin. Such protocols with combination ultra-
dilute natural medicines have been used in our clinic to successfully
treat other malignancies [21]. These treatment protocols offer viable
and much more affordable alternative to the conventional standard
of care than current therapeutic protocols, which in many instances
adversely affect the Quality of Life(QoL) of patients due to debilitating
consequences of the treatment.

Case studies

Case 1

In the first case the patient, an 8-year-old male boy visited the
clinic with swelling of left knee and difficulty in knee flexion. He was
suffering for 5 to 6 months. The initial radiological report of X-ray of
left knee dated 27.04.2003 was, “A large bony cyst with osteolytic lesion
in metaphysis with sclerosis at edges of lower end of left femur”. The
case was confirmed as Osteogenic Sarcoma and the parents of the child
were advised to amputate the leg from above the tumor. Repeat of the
X-ray dated 05.06.2003 (Figure 1A) showed, “Well defined eccentric
lesion in metaphysis with sclerosis at edges of lower end of left femur”.

The observation during treatment from the X-ray of left knee
dated 16.12.2003 (Figure 1B) was, “large osteolytic reaction noted in
metaphysis of left femur with periosteal reaction”.

The histopathology (Site of biopsy–lower end of femur) report
dated 12.06.2003 (Figure 2) showed, “Poorly differentiated sarcomatous
lesion”.

The patient was treated with the remedies Symphytum 200c two
doses a day, Calcarea Phosphorica 3X two doses a day and Carcinosin
30c one dose every alternate day. The treatment was continued for one
year and four months. The swelling gradually subsided and now the
architecture of the knee has completely returned to normal.

An X-ray dated 14.08.2004 (Figure 1C) shows, “Comparative
study with that of previous skiagram dated 16.12.2003 reveals re-
mineralization seen at the lower 3rd of left femur”.

After 3½ years without any medication follow up X-ray was done
on 25.08.2008 (Figure 1D) and this showed “Comparative study with
that of previous skiagram dated 14th August, 2004 shows the appearance
of the lower 3rd of left femur is almost normal”.

He had no complications during treatment.

The patient is now symptom free and leading a trouble-free life.

Case 2

In the next instance, a female aged 33 years came to us from a
remote village in Bangladesh on the 22.07.2005 and presented with
pain and swelling in the right shoulder of 1½ months duration.

An MRI of the right shoulder done on the 06.07.2005 (Figure 3A)
showed “A large expansile osteolytic mass is seen in metaphysis and
part of greater tuberosity of right humerus. There is extension to the
paraosteal soft tissue”.

An X-ray of the right shoulder was done on the 07.07.2005 (Figure
3B) showed, “osteolytic lesion in the upper part of the right humerus”.

A radio-isotope bone scan had been done on 26.07.2005 (Figure
3C) and showed, “Increased uptake at right shoulder is compatible
with increased osteogenic activity in the region. Rest of the skeletal
tissue image morphology is within normal limits”.

C.T. guided F.N.A.C of the lytic lesion in the humerus done on
28.06.2005 (Figure 4) showed, “the overall cytomorphological features
are of malignant tumour of mesenchymal origin. The possibility of soft
tissue sarcoma like synovial sarcoma with secondary involvement of
the bone has been favored”.

Figure 1. Four successive X-ray reports of the knee. A dated 05.06.2003, B dated 16.12.2003,
C dated 14.08.2004 and D dated 25.08.2008.

Figure 2. Histopathology of the lower femur.
use ultra-dilute medicines in combination with other approaches (nutritional and immune system support, diet, and detoxification programs, etc.), so it’s not typically considered the primary or stand-alone therapy for cancer. However, in our experience these medicines, when administered in different combinatorial regimens in a personalized manner depending on the clinical and pathological parameters of individual patients offer extremely effective therapeutic options for treatment of human malignancies. Such treatment protocols have been successfully used in treating a large number of patients with different cancers in our clinic over the past few decades. Positive clinical outcome of these treatment protocols was deemed sufficient to warrant initiation of prospective research follow up by the Office of Cancer Complementary and Alternative Medicine (OCCAM) of the NCI of the United States [21].

Several ultra-dilute medicines have been used to treat bone deformities and other orthopaedic conditions but Osteogenic Sarcoma has remained a challenge for any and every system of medicine. With a view to exploring the therapeutic efficacy of combination of these ultra-dilute natural remedies for the treatment of Osteogenic Sarcoma, we have undertaken clinical trials of various treatment protocols developed in our clinic with these medicines. This study reports the success of healing of Osteogenic Sarcoma by a treatment regimen consisting of combination of three ultra-dilute natural remedies for reasons discussed below.

**Symphytum officinale** or just “Symphytum” is prepared from the root of the common herb “comfrey” which stimulates the growth of epithelium on ulcerated surfaces. It generally acts on joints and is of great use in wounds penetrating to perineum and bones and for the neuralgia of knee. It is mainly used for the healing of broken bones.

Calcarea phosphorica is calcium phosphate a mineral ingested mostly for disorders associated with nutritional deficiency supplementing and in the mineralization of teeth and bones.

Carcinosin is prepared from breast cancer tissue. It is mainly used for Chronic fatigue syndrome (CFS) – weakness and exhaustion, associated with tenderness in the muscles. This is often accompanied by dizziness, numbness, nausea, insomnia, asthma, bronchitis, abdominal pain associated with constipation etc. Carcinosin may be prescribed for those who have a personal or family history of cancer.

The molecular mechanism for the eradication of the tumor by these three remedies needs further investigation. It would be interesting to investigate if these remedies activate the pathway involving Syndecan-2, reported to be significantly under expressed in Osteosarcoma cells, which is the main causative agent of beta-catenin signaling inducing apoptosis in these malignant cells [25]. Our papers earlier published in vitro investigations with different combination ultra-dilute medicine regimens effective in treating brain cancer [26] and breast cancer [27] revealed preferential induction of cell death due to telomere erosion and activation of cell death response pathways in brain cancer and breast cancer cells respectively. Similar in-depth experimental studies with the three combination remedies described in this report will also help unravel the underlying molecular mechanisms responsible for their therapeutic efficacy.

**References**

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