Dear Doctor,

We at Perfint, work closely with clinicians to improve quality of life for those fighting cancer and pain.

In 2012, we introduced MAXIO - our industry leading Integrated Solution for Visualization, Planning and Robotic targeting for CT Guided Cancer and Pain Care procedures and by end of 2012, we started commercial shipments of MAXIO to clinical sites in Asia and Europe.

Early in January 2013, we installed MAXIO at one of Australia’s leading hospitals - Alfred Hospital, Melbourne, Australia. With the assistance of MAXIO more than 14 interventional oncology cases, such as IRE on Iliax bone, multiplefacet joint injections, renal tumor Biopsy, etc. have been performed by key radiologists Prof. Ken Thompson, Dr. Wa Cheung and Dr. Philip Lew.

This issue of InSite Images is dedicated to Alfred Hospital, Melbourne, with whom we have been working closely. In this issue, we take pride in showcasing some of the very interesting interventional oncology cases performed by clinicians at Alfred Hospital.

Hope you enjoy this issue as much as we did in creating it. Looking forward to seeing you next month with more exciting news!

Best Regards

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MULTIPLE FACET JOINT INJECTIONS AT L4-L5

CLINICAL DETAILS
Patient with degenerative lower back pain and Non-operative management, planned for facet joint injection at L4-L5 S1 level

PROCEDURE DETAILS
Facet joint targeted at multiple levels with multiple needles simultaneously, with assistance of MAXIO. Each Facet joint injected with 1ml of Marcaine and 1ml of Celestone Chronodose. Procedure completed precisely and very less time taken

DETAILS
Orbital angle: straight
Depth : 44 to 52 mm
Needle used ; 22G / 100 mm
Number of needles: 4
Planning time : 6 min
Procedure time : 31 min for four needles

COMMENTS FROM CLINICIAN:
Planning was very fast and simultaneous needle placements are helpful

CLINICIAN:
Dr Philip Lew, Alfred Hospital, Australia

Dr Philip Lew placing 4th needle with Maxio

Planing in 3D and 2D

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*InSite images* is a compilation of challenging procedures done with our Robotic targeting systems.
**Clinical Details**

Patient with degenerative lumbar spine planned for facet joint injections at L4-L5 and L5-S1 on right and left side simultaneously.

**Procedure Details**

Facet joint targeted at multiple levels with multiple needles simultaneously, with assistance of MAXIO. Each facet joint injected with 1ml of Marcaine and 1ml of Celestone Chronodose. Procedure completed precisely and very less time taken.

**Details**

- Orbital angle: 0 to 10 deg
- Depth: 68 to 75 mm
- Needle used: 19G / 127.5 mm
- Number of needles: 4
- Planning time: 15 min
- Procedure time: 35 min

**Comments from Clinician:**

Good for multiple needle placement.

**Clinician:**

Dr Philip Lew, Alfred Hospital, Australia

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**Clinical Details**

RFA of Hepatoma (HCC) at Segment 5, with liver cirrhosis and fluid around liver, with cooltip

**Procedure Details**

2cms Hepatoma targeted for RFA with MAXIO at segment 5 of the liver, and RFA performed. Trauma to the bowel was avoided by adjusting thermal simulation option. Tip of the temperature achieved 70 deg C. Post ablation scan shows, a wedge-shaped area without enhancement covering lesion.

**Details**

- Lesion size: 1.6 x 2 x 1.3 cms
- Orbital angle: 44 deg
- Depth: 69 mm
- Needle used: 17G / 100 mm, Cooltip 100-30
- Number of needles: one
- Planning time: 10 min
- Procedure time: 25 min

**Comments from Clinician:**

It was a tough case, since the lesion was bouncing due to cirrhosis and fluid around liver. Thermal simulation was useful to avoid bowel loops.

**Clinician:**

Dr Wa Cheong, Alfred Hospital, Australia