

Multicultural Care of a Pediatric Surgical Patient Receiving Hyperthermic Intraoperative Peritoneal Chemotherapy (HIPEC) Surgery



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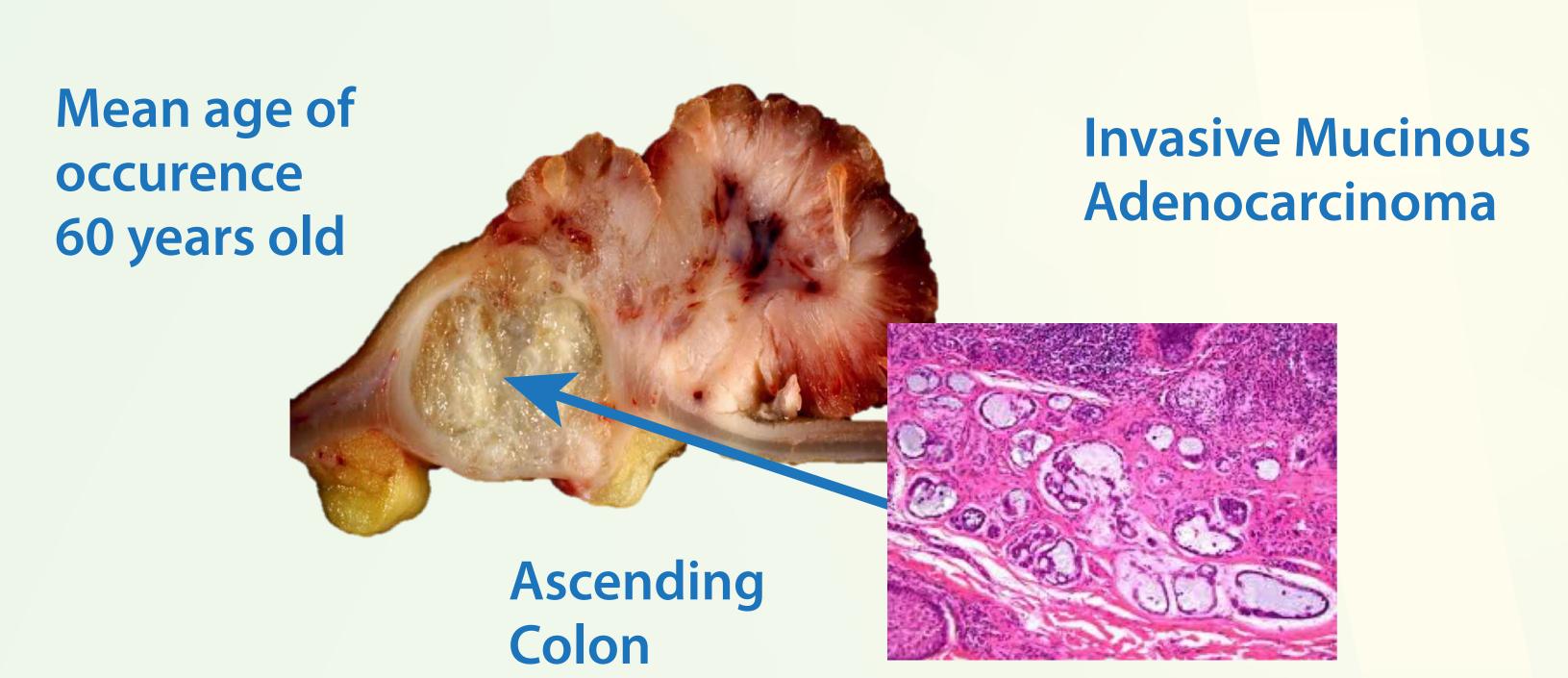
Patient History

- 12 year old girl from a small town in Russia.
- Diagnosis: Mucinous Adenocarcinoma of the large bowel at age 10.
- Treated in Russia with two surgeries and 12 rounds of chemotherapy.
- Carcinoma reoccurred and was not treatable in Russia.
- Russian sponsor was found to seek treatment at Miami Children's Hospital (MCH).
- HIPEC surgery has previously been performed successfully at MCH.
- On admission patient was diagnosed with Stage III Adenocarcinoma of the large bowel, retrovesical mass, bilateral ureteral obstruction, nonfunctioning right kidney, left ureteral hydronephrosis.

Obstacles of Treatment

- Rare cancer in children of this age.
- Patient from Russia who doesn't speak English and who is separated from other family members.
- Mother refusing to let patient know diagnosis of recurrent cancer.
- Newer HIPEC treatment with limited procedures performed on children.

Mucinour Adenocarcinoma



HIPEC: Hyperthermic Intraoperative Peritoneal Chemotherapy Procedure

Reservoir

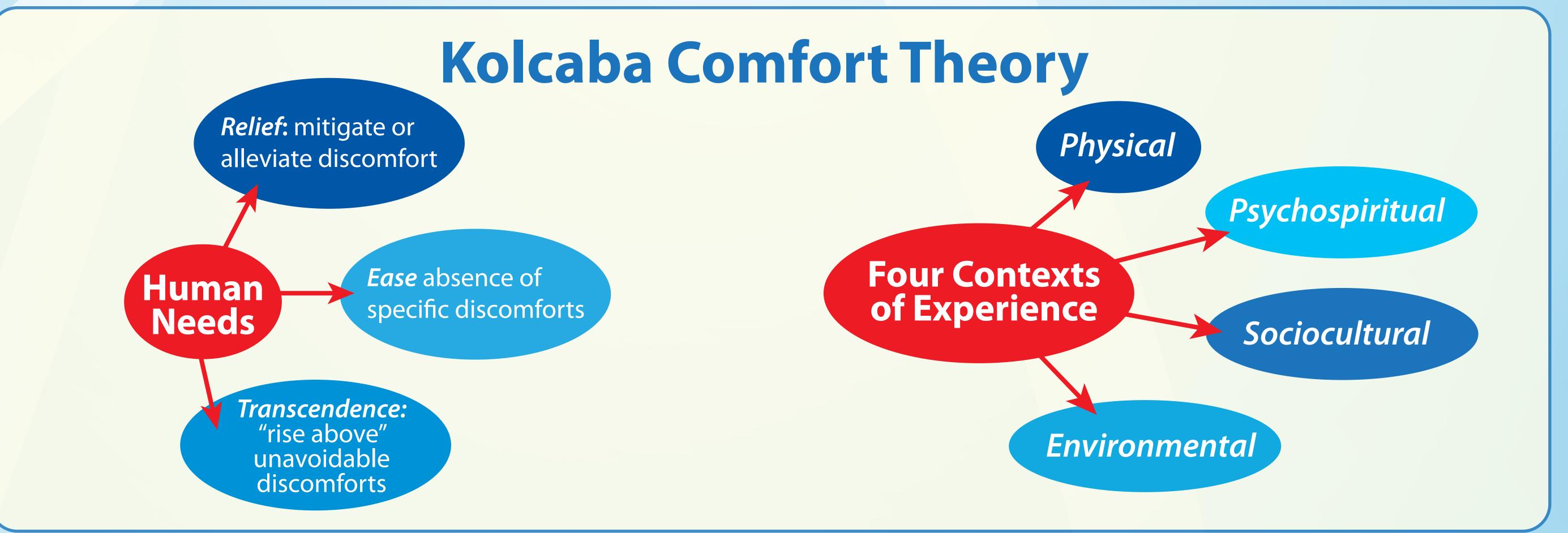
- At the time of the debulking surgery, the chemotherapy solution is directly applied into the peritoneal cavity.
- After all visible tumors are removed, cisplatin, a chemotherapy drug, is heated to 103° Fahrenheit and pumped through the abdominal cavity.
- The heat makes the drug more effective in killing cancer cells, and it also increases beneficial blood flow to the area.
- The patient lies on a special cooling blanket to keep their body temperature at safe levels.
- During the treatment, surgeons physically rock the patient back and forth on the operating table for 1½ -2 hours to ensure that the drug reaches all areas of the abdomen, killing any cancer cells that remain after surgery and reducing the risk for cancer recurrence.

Benefits of HIPEC Treatment vs Standard Chemotherapy

- HIPEC is a single treatment performed in the operating room, while standard chemotherapy requires multiple intravenous treatments.
- HIPEC is a more intense dose of chemotherapy.
- 90% of the HIPIC chemotherapy drug stays within the abdominal cavity, making it less toxic for the patient.

Communication with Interdisciplinary Treatment Team





Conclusion

Having a positive outcome for our patient with a rare cancer from a different culture with a different language is possible through the implementation of:

- HIPEC surgical chemotherapy procedure.
- A multi-interdiciplinary team using multiple communication tools.
- Use of the Kolcaba comfort theory.