

## MANAGEMENT OF LIVER METASTASES FROM COLORECTAL CANCER

### Surgical Management of Liver Metastases from Colorectal Cancer

- dominant site of metastases
- 20% of patients with colorectal cancer have liver metastases at initial presentation
- 50% of patients will develop liver metastases after resection of primary colorectal cancer
- liver resection of metastases only chance at cure – 30% 5 year survival with < 5% morbidity and mortality
- 40% of patients s/p liver resection for metastases will have recurrence only in the liver
- preoperative assessment includes evaluation for extrahepatic disease, characterization of comorbid diseases
- CT imaging study of choice
- Intraoperative ultrasound useful for determining presence of occult liver metastases
- Fong et al., “Clinical Score for Predicting Recurrence after Hepatic Resection for Metastatic Colorectal Cancer”, Ann Surg 1999
  - retrospective review of 1001 s/p liver resection for colorectal metastases
  - seven predictors of hepatic recurrence and decreased survival (coding system)
    - positive margin
    - extrahepatic disease
    - node positive primary
    - disease free interval < 12 months
    - largest hepatic tumor > 5 cm
    - tumor number > 1
    - CEA > 200 ng/ml
  - Overall 5 year survival 36%
    - 0 points – 60%
    - 5 points – 14%
  - guiding surgical management by coding system
    - 0 – 2: immediate surgical resection
    - 3 – 5: delayed treatment for chemotherapy and assessment of tumor response

### Non-surgical Management of Liver Metastases from Colorectal Cancer

- Systemic chemotherapy
  - 5FU, leucovorin
  - Topoisomerase inhibitors
    - Irinotecan
    - Oxaliplatin
  - EGFR blockers (Erbix)
  - Monoclonal antibodies
  - Antiangiogenic factors
- Radiofrequency ablation
- Hepatic artery infusion pump
  - improved locoregional control, but no improvement in overall survival

- complications include biliary sclerosis and hepatotoxicity, catheter dislodgment, GI misperfusion
- comparison of pump vs. newer chemotherapeutic agents lacking

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November 4, 2004