CHRONIC PAIN MANAGEMENT PRODUCTS & SERVICES:
A MARKET ANALYSIS

(September 2010 – 7th Edition)

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* National cost of lost workdays, drugs, due to pain
* Definition of chronic pain vs. acute pain, types of pain conditions, cost of pain
  in the workplace, number of: accredited vs. non-accredited pain clinics, solo
  practitioners, years when pain clinics first appeared
* Accreditation & Industry Standards
* CARF (Commission on Accreditation of Rehab. Facilities)—its mission, criteria
  for accreditation, what accreditation means, categories of pain programs
* IASP (Intl. Assn. for the Study of Pain) trade group, definitions for: pain facilities,
  multidisciplinary centers, modality-oriented clinics, etc., desirable characteristics
  of pain clinics/operating guidelines
* American Academy of Pain Management: types of members, accreditation &
certification requirements, types of programs

2010 directory of 101 CARF-accredited multidisciplinary pain clinics/programs
in the U.S. (hospital, university, freestanding), by state (name/address/phone), by
inpatient/outpatient category.
**Patient Demographics - What Conditions Do Chronic Pain Patients Suffer From?**

($200)

- Findings of **American Pain Foundation study** “Pain in Maryland 2002” (attitudes toward pain, frequency of pain, etc.)
- Findings of 2000 **Merck study** “Pain in America” study of pain sufferers: use of drugs/other therapies, referrals by MDs, effectiveness of medical profession, actions taken, time to get pain under control, etc.
- Findings of **Prevention Magazine/CBS News** poll, Jan. 2003 study (type/severity of pain, use of drugs, alternative therapies used, etc.)
- Analysis of number of Americans with pain-related conditions—scope of the affected population (why some estimates are inaccurate): back pain, arthritis, RSIs, migraines, TMJ, etc., opinions of accuracy of figures from pain associations/societies
- Discussion of **repetitive stress injuries**/carpal tunnel syndrome, BLS data
- Discussion of **back pain** patients, no. of Americans with back pain (ACA), back surgeries, no. of patient-visits for chiropractors, percentage who are realistic candidates for pain clinics
- **Headaches** - discussion of types (vascular, migraine, cluster) number of sufferers, new & traditional treatment methods, new drug developments
- **Arthritis** - number of sufferers, (by sex, race, age), by types of arthritis
- **TMJ/TMD** (temporomandibular joint disorders) - discussion of condition, causes, misdiagnoses, treatment options, patient demographics, trigeminal neuralgia
- **Cancer patients** - no. of new cases in 2009, for 16 types of cancer (by male/female)

**Pain Management Treatment Methods**

($100)

- List of most common methods used to treat chronic pain, discussion/analysis of each: multidisciplinary programs, drugs/opioids, TENS, trigger point injections, nerve blocks, psychotherapy, brain stimulation, acupuncture, work hardening, physical therapy, biofeedback, stimulators, pumps, radiofrequency, etc.
- Typical staff of a multidisciplinary pain clinic team, goals of a treatment program, number of anesthesiologists certified in pain therapy, their treatment methods
- **Inpatient vs. outpatient programs**--typical costs, length, mix--percent of a pain clinic's total patient population
- How pain programs work - typical phases/patient activities, example

**The Role of Anesthesiologists in Pain Management**

($350)

- Why anesthesiologists’ income has been squeezed, why they are seeking other subspecialties such as pain therapy, number practicing, avg. income
- Share of total anesthesiologists active in pain therapy 2010 vs. 2003: analysis, typical caseloads of pain patients, high/low volume practices
- Number of anesthesiologists certified in pain management to date.
- Training and A.B.A. certification requirements
* Status report of anesthesiologists’ role currently: interview with staff of American Society of Interventional Pain Physicians: typical caseloads, effect of recession

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Results of Marketdata’s 2003 Mail Survey: Anesthesiologist Group Tabulations (comparisons to multidisciplinary programs when relevant)

- List: the organization where they received certification in pain mgmt., schools attended.
- Physical location of program (hospital, freestanding clinic, MD office, university - %)
- Percent of the anesthesiologist’s time spent in: hospital/ER vs. their pain program.
- 2002 percent increase in patient visits, NEW patients.
- 2001, 2002 no. of procedures performed annually
- 2003 expected increase in caseloads/no. of patient visits
- Most critical problems faced, most frequently denied modalities - 2003


Table: Methods of payment by patients (Medicare, Medicaid, HMO, private insurance)
- Single most denied modality - list of.

- Methods of patient follow-up, how information is used - 1999

- Attitude of anesthesiologists about giving up pain practice if their O.R. hrs. were to rise

Status Report of Pain Clinics & Programs & Major Findings of Past Marketdata Mail Surveys ($300) 113-146

Findings of 2010 Interviews with Leading Pain Program Directors: Status of pain management today, effects of recession, competition, prices, major issues, forecasts (Mensana Clinic, Rehab. Institute of GA, Rossomoff Pain Center, Amer. Assn. of Pain Medicine, Norman Marcus)
Summary of Results by Major Group: Combined Total, Multidisciplinary Programs, Anesthesiologists: 2003 Survey

Table: total group vs. multidisciplinary and anesthesiologists separately: 2002 & 2001: no. of patient visits, 2002 % chg., 2003 expected growth rate, new patient visits, 2002 % chg., no. of procedures performed, 2002 % chg.
- Major findings and comparisons among groups.
- Accreditation rate for all programs, multidisciplinary programs.
Table: Pain conditions patients are treated for: 2003, 2001, 1999, ranked
Table: Treatment methods used (% of programs using: 1992 - 2003): multidisciplinary, psychotherapy, physical therapy, TENS, nerve blocks, saline injections, medications, acupuncture, implantable pumps, at-home pca, others)
- Documentation & tracking of outcome data – % of pain programs that can document it, % with a tracking system, measures are tracked, how programs use data, patient follow-up
- **Who pain programs compete with** most often, ranked order: 1994 - 2003
- Opioids regulation: % of program directors concerned about regulation.

Historical Data: One-Time Questions (1997, 1999)
- **Most important needs** of pain programs, tools desired, number of operating staff: professional specialty of physicians on staff, Intentions to join future pain clinic national network, most popular advertising methods used, age mix of patients, type pain facility chosen most often, alliances with other healthcare professionals, year pain clinic was established, capability & expertise of program staff. % using: Md., psychiatrists, physical therapists, social workers

**Market Size, Growth Rates, Forecasts & Outlook** ($150)

* Discussion/analysis of total no. of pain programs, clinics, solo practitioners in 2010 vs. 2003, annual patient caseload: estimates for CARF accredited, JCAHO accredited, American Academy of Pain Mgmt. accredited, non-accredited programs, anesthesiologists, other MDs, chiropractors, discussion of inpatients/outpatients mix, overlap between types of programs
* Market developments and growth indicators: 2003-2010: discussion
* **2009 Market Performance**: recession, factors affecting growth
* **2010 Outlook**
* **2014 4-year Forecast**: Outlook for major issues, economy, pill mills, ageing of the population, Obesity, role of anesthesiologists/other MDs, pain drugs, devices: discussion/analysis
Tables:
- Estimated patient caseloads, by type program: 2009: accredited/non-accred. programs, anesthesiologists, other physicians, chiropractors (avg. no. of patients)
- Estimated patient caseloads, by type program, by avg. cost & inpatient/outpatients: 2009
- Estimated $ value of pain PROGRAMS ONLY: 1985-2009

The Pain Drugs Market ($350)

Status report of the U.S. pain management pharmaceuticals market
* Summary of origins of chronic pain, concerns over opioids painkiller addiction and abuse, discussion of Oxycontin & hydrocodone history and usage, patents, producers, FDA actions
* Actions to regulate opioids by FDA, REMS (risk evaluation and mitigation strategy), list of Brand name and generic products required to have REMS
* Discussion of new drugs in development, COX-2 inhibitors, Tanezumab, Neurotonin, Alternative use of Cymbalta, Lyrica
* Transdermal patches: discussion of, size of mkt.
* Descriptions of available pain drugs: prescription/non-pres. drugs used for pain relief anti-seizure drugs, Cox-2 inhibitors, NSAIDS, analgesics, opioids, etc.
* Discussion of controversy about the regulation of opioids, discuss. of analgesics, tri-Cyclic antidepressants, other antidepressants
* Findings of Drug Trend Report (by Express Scripts): outlook for Oxycontin vs. generics, top Drugs and mkt. share, development of abuse-resistant opioids.
* Forecasts of size of pain drugs market (U.S., global) by other research firms

Tables:
- U.S. prescriptions written for hydrocodone: 2005-2009

Pill Mills – A Major Challenge
* Nature of the problem: why they exist, lack of regulation in many states, huge profit potential, the black market
* The DEA’s position on enforcement, actions taken against physicians
* Pill Mill “hot spots” – discussion of pill mills operating in Broward, Hillsborough, Dade Counties, California - examples of scams discovered, profits, no. of clients, prices, Where customers come from, etc.
* PDMPs - The Solution? (prescription drug monitoring programs): Discussion of how These state systems track painkiller abuse, which states have a PDMP/which don’t
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- Definition of neuromodulation market and technique
- Primary customers and competitors for pain management devices such as TENS machines, spinal cord stimulators, implantable pumps
- Competitor Profiles: Medtronic, Boston Scientific, St. Jude Medical – description of product lines, sales data when available
- Market Size & Growth: 2005-2009 sales of devices by Top 3 Mfrs
- Estimated total market size for pain management devices: 2005-2014 forecast
- List of medical device trade associations
- Directory of major pain management device producers (name, address, phones)

Profiles of Some Leading Pain Programs  ($200)  203-224

(In-depth descriptions of how programs work, outpatient vs. inpatient programs, costs, estimated caseloads, services offered, type specialists, 2009 performance)

- The Cleveland Clinic Foundation
- The Mayo Clinic
- Mensana Clinic (defunct)
- Norman Marcus Pain Institute
- Scripps Memorial Hospital
- University of Washington Medical Center
- Pain Control & Rehabilitation Inst. of Georgia
- The Rosomoff Comprehensive Pain & Rehabilitation Center
- Johns Hopkins - Blaustein Pain Treatment Center

Status Report of the Chiropractic Services Industry  ($150)  225-237

- Discussion of the profession, competition with pain programs for same clients, federal low back pain guidelines, industry receipts (1985-2001)
- Patient demographics--survey results, patients by: sex, age, race, occupation
- Controversial new research/study by the Annals of Internal Medicine, other recent studies
- ACA Statistical Study results: avg. number patient-visits per doctor per week, no. of new patients, referrals, gross & net income, historical new patients & patient-visits (1984-1996), type conditions patients treated for (1995, ‘97, ‘89), age of patients, sources of chiropractor revenue by type insurance
- Future trends - the major issues likely to affect the profession, current state legislative actions, diagnostic testing, outcome assessment, etc.

Reference Directory of Chronic Pain and Related Associations, Societies, Groups, Institutes  238-246

- Name/address/phone, director, description, no. of members, mission, activities, journals/newsletters/directories