

Cataract outcome programs proliferate along with managed care

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As demand for outcomes reporting grows with the spread of managed care, a number of systems for cataract surgery outcomes documentation have appeared on the market.

They come in a range of formats, from self-contained software programs that run on the office computer to subscription services that require data entry by a central clearinghouse.

Whatever form they take, however, all the systems have the common feature of allowing surgeons to track the results of their surgery, whether for managed care or Medicare documentation or for personal analysis and improvement of technique. Several allow comparison of the surgeon's own outcomes to those in a national database.

HMOs and other managed care purchasers want to know as much as they can about the level of performance of the providers they contract with. If you have not yet been asked to supply outcomes data to a managed care contractor, those involved say, the request is probably not far off.

"Practices have collected a lot of these data in the past, but not in ways that it was usable or useful to them," said **Dick Minors**, of Summit Medical, a national medical database management company. "You need to have ways to get and keep that information."

"HMOs normally start by asking for patient satisfaction and cost analyses, and more and more are now asking for clinical data along with that," Minor said. "We and others are providing tools that allow surgeons to collect this data and have some powerful information for use in the future."

In addition to aiding documentation, some outcomes reporting systems also have practice management and practice improvement applications. The information gathered by some systems can be used to create patient records and generate letters to patients and other professionals. In other systems, results of different surgical techniques can be compared by the surgeon to see which is the most effective.

The following listing of software and service packages is not meant to be comprehensive. As one industry source said, many companies are "jumping on the outcomes bandwagon" and producing outcomes analysis systems of greater or lesser usefulness. This is a review of some of the established names in the field and what their systems are capable of doing. An accompanying chart lists the hardware and operating systems needed to run the software for each system.

ASCRS/Summit Medical

Summit Medical has been contracted by the American Society of Cataract and Refractive Surgery, initially to manage a database of cataract and refractive surgery outcomes, and eventually to track other

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aspects of ophthalmic care, including glaucoma and retina outcomes, patient satisfaction and cost analyses. Summit has established outcomes products in other specialties, including thoracic surgery and cardiology.

According to **Lucy Santiago** at ASCRS, the society helped develop and design the database, and contracted Summit to collect the data. However, as Summit's Minor noted, "it's really open to any ophthalmologist who's interested in the collection of this data; it's not limited to ASCRS members."

Minor said Summit offers practices the option of purchasing a license for its software package, in which case the practice enters its own data on an office computer, or of subscribing to a service in which data is collected on forms and submitted to Summit for data entry.

"The data collection forms and the software mirror each other," Minor said. Practices moving toward paperless operation can collect the data on computers in the lane or laptops. Or data can be collected on paper and then transferred to computer. If the practice chooses to subscribe and submit data for entry by Summit, they pay on a per-patient basis. "It would have to be a small practice to make subscription work for them economically," he said.

Preoperatively the Summit system allows the operator to record patient history, preop status including visual acuity, IOP, keratometry readings, etc., and operative planning data such as IOL power and procedure plan. Postoperative information includes a procedure summary and postop data at several follow-up intervals. A functional status questionnaire to be filled out by the patient is also supplied for preop and postop self-assessment.

The information collected by the computer database in the office remains available for manipulation and analysis by the surgeon, Minor said. Any fields within the database can be cross-referenced for comparison, he said.

In addition, Summit collects a computer disk from each office on a regular basis. Confidential information such as surgeon, patient and hospital identifiers are removed by Summit staff, and the outcomes data is dropped into a national database. The updated national data is then sent back to all subscribers and software licensees for them to compare their own outcomes against. Confidentiality of the data is "key and guaranteed," Minor said.

The software can also be customized to collect any additional data the surgeon wishes to analyze, Minor said, although this information would not be included in the national database.

Another feature of the system is a document generator that can be cross-referenced with patient and referral listings. This allows the practice to create letters and documents for the patient or the patient's primary care doctor. "The practice creates a shell document such as a referral letter, and then merges it with the patient data by pressing a hot key, and they've got their letter," Minor said.

Cost and patient-satisfaction databases will be added to the ophthalmic package "very soon," Minor said, at which point users will be able to cross-reference disease states, treatment modalities, cost data and patient satisfaction, he said.

The cataract database costs about \$7000, Minor said. Technical and customer support is available by phone.

OPIS/CPR

The Ophthalmic Patient Information System (OPIS), is a practice management tool that was recently expanded to outcomes documentation capability with the addition of a Computerized Patient Records (CPR) module. According to **Frank Puzio**, OD, of OPIS, the system was initially designed for optometrists. Many ophthalmologists began using the original system, so Puzio created a separate MD version. Recently OPIS has been working with **Bradford Shingleton**, MD, of Boston, to create the CPR module for tracking cataract surgery outcomes.

The OPIS/CPR system "allows the surgeon to produce a clinical record electronically, eliminating the need for a handwritten record," Puzio said. "It contains thousands of prewritten text fields, composed by ophthalmologists, so that almost no typing is required to produce the record."

At the same time the record is created, the system automatically produces a letter to the primary care physician, Puzio said. At the end of each month the system creates a statistical summary report based on all the clinical data entered.

Puzio said Shingleton developed the CPR module based on the guidelines of the ASCRS preferred practice pattern for cataract surgery, modified for use in tracking surgical outcomes. The system tracks patient satisfaction in addition to the clinical data.

So far the OPIS/CPR system is for personal use only, and does not allow comparison with a national database.

