PDA Basics for Doctors

What's a PDA?

This stands for Personal Digital Assistant and these are now really powerful palm sized computers which doctors may find invaluable in their daily lives.

There are now two leading operating systems (OS) in the market. The dominant one commanding the largest market share is Palm OS. PDAs running Palm OS include Palm (m500/m505/m105/m100/Vx/IIIxe/IIIc), Handspring, Handera (formerly TRGPro) and Sony Clies. Another one is Microsoft's PocketPC platform (the latest reincarnation of Windows CE. The most popular PocketPC powered PDA is Compag's iPag pocketPC with others from Casio and HP lagging behind in sales. There are a sprinkling of other PDA OS' in the market such as the Psion running Epoch OS (Psion has since recently declared it is resigning from the PDA market) but these are in the minority.

What can a PDA do for me?



install.

Lots! Do you find life getting too complicated? Cannot keep track of appointments, contacts? What about phone numbers - too many to recall and the little pocket diary you keep is out of date? Basic PDA functions include a Calendar, Contact/Addressbook/ Todo list and Memos. These are the most often used functions and in the case of Palm OS machines, are handily accessed by the four hardware buttons at the bottom (see pic)

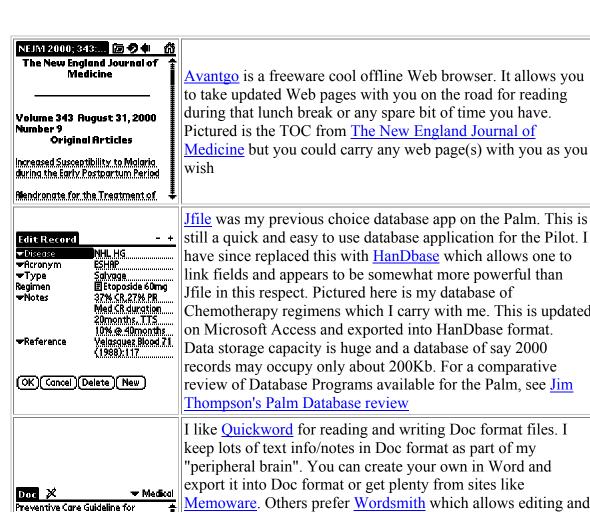
On top of that, a PDA can perform like a little computer and you can install and run numerous applications on it. The PDA software market is really burgeoning and there are lots of medical applications you can

A very good example is ePocrates (http://epocrates.com) which is a *freeware* Drug Formulary for the Palm OS (sorry, no PocketPC version!) which you can download and install onto your Palm PDA. With ePocrates, you literally have a Dims in your pocket whereby you can look up dosages, adverse effects etc. It also has a multicheck module with which you can look up possible drug interactions for any combination of drugs you choose. The beauty of ePocrates is that you can receive updates (new drugs, drug alerts etc) via the Internet by hotsynching your Palm and connecting to ePocrates at the same time.

There are many other handy medical references you can take with you (see http://www.skyscape.com and http://www.handheldmed.com) if you are willing to purchase them.

There are many freeware/shareware medical applications for the Palm OS in particular and you may find them also at Palmgear (http://www.palmgear.com), Handango (http://www.handango.com) and at the Freewarepalm site (http://www.freewarepalm.net).

Here are some of the really nifty applications for the Palm powered doctor:



Asymptomatic, Low-Risk Adults

Excerpts from the U.S. Preventive Services Task Force, Guide to Clinical

Preventive Services, 2nd Edition. Washington, DC: U.S. Department of

Health and Human Services, 1996.

3COM PalmPilot version by K. Hsu

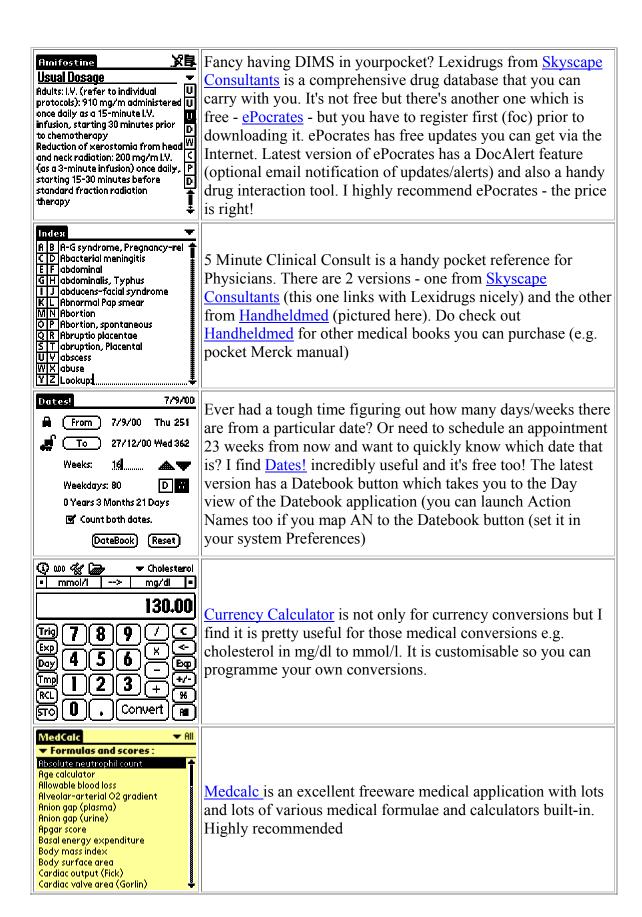
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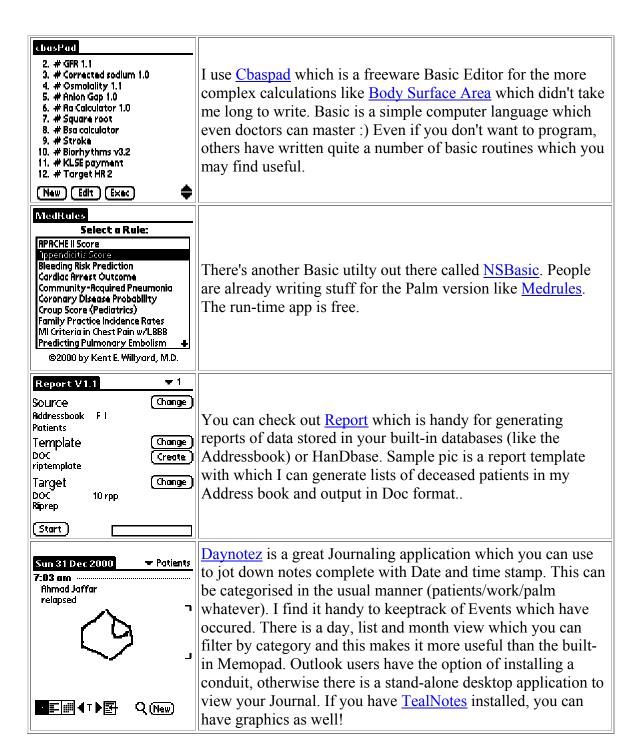
kyh@po.cwru.edu

Jfile was my previous choice database app on the Palm. This is still a quick and easy to use database application for the Pilot. I have since replaced this with **HanDbase** which allows one to link fields and appears to be somewhat more powerful than Jfile in this respect. Pictured here is my database of Chemotherapy regimens which I carry with me. This is updated on Microsoft Access and exported into HanDbase format. Data storage capacity is huge and a database of say 2000

I like Quickword for reading and writing Doc format files. I keep lots of text info/notes in Doc format as part of my "peripheral brain". You can create your own in Word and export it into Doc format or get plenty from sites like Memoware. Others prefer Wordsmith which allows editing and retaining text formatting. Wordsmith also has a Truetype font import utility – really nice.

Generally a Doc reader is a "must" since you will likely need to carry large text files for reference purposes larger than the 4Kb limit of the built-in Memo application. Other than Quickword, you may also want to check out Tealdoc (shareware) or Aportis Doc(free Reader) which are Doc readers only. There is another freeware Doc reader called CSpotRun. For another review by Jim Thompson on Doc readers/editors, see Jim's Palm Wordprocessing page. There are plenty of links there worth checking out.





Which PDA should I buy?

Now that I have whetted your appetite, you might be bewildered by the choice of PDAs available in the market today.

The choice can be simplified by deciding on:

1. Palm or PocketPC?

Both of theses have their pros and cons. Personally I prefer the Palm for ease of use, better battery life, slimmer and more compact (m500 series, V series), and most importantly, much more available software than the PocketPC. The PocketPC is better at multimedia and the iPaq has the nicest and brightest screen of all PDAs.

2. Colour or monochrome?

Actually colour is not all that important though it looks nicer. Beware some colour screens like the Palm IIIc and Handspring Visor Prism may look nice and bright indoors but are washed out by bright sunlight. The Palm M505 is an ok all-round screen which is readable both indoors and outdoors. The Sony Clie and Handera screens have the highest resolutions for Palm OS. The iPaq is a nice bright screen but this comes at the cost of more limited battery life.

2. Expandibility?

I think this is a must for doctors. You'll want to carry large references with you in no time. The expandable Palms are the m500 series, Handera and Sony Clie. The Palm m500s use SD/MMC cards which are the tiniest memory cards available today (up to 128 MB currently). The Handera uses both SD and CF whereas Sony uses their Memory stick modules. The iPaq has a sleeve (which makes it even more bulky) in order to take expansion modules. Mind you though, 8MB on the Palm is worth more than 32MB on the iPaq as Palm OS programs are on the whole much smaller.

For more information, you may want to check out the Malaysian Medical PalmPilot page (http://medpilot.cjb.net) where there are lots of hints, tips, links on Palm PDA for Malaysian doctors.

You may also join the Computing in Medicine section and forum in Dobbs (http://dobbs.com.my) where this article is also posted.

Dr. Alan Teh (self-confessed Palm aficionado)