



NanoTechnologies

Communications and Information Technologies

Hospitals Management System

Features

- Appointments System
- Medical and Marketing System
- Billing System
- Financial Accounting System
- Medical stocks System
- Management and Evaluation System





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Hospitals Management System

X Appointment System:

- 1. Work in a way tripartite appointments (patient, doctor, operating room or procedure room Beauty Center as example ...etc), in other meaning there is a schedule (time) for each doctor and operating-room.
- 2. Graphical Environment: show appointments bilateral and trilateral with colors, so that the information is expressed in words and images and place, which helps to read the appointment information's at a glance one.
- 3. Enable user according his permissions for moving or copying an appointments with all of technical of drag-and-drop or cut and paste or transmission within the times or days or different doctors.
- 4. Enable the doctor or appointments manager to create request on appointments screen as an alternative to connect by the phone - an icon indicating the request according to its type, will automatically showing, for example: doctor can request to cancel an appointment, transfer or change the duration, then the appointments employees responsible for the best response to the request of the doctor without any need for phone calling and explain.
- 5. Enable the doctor to write a message related to appointment as an alternative to connect by the phone and can be sent to any appointments employee, or other, and vice versa, when an employee receives a request from a patient, he can send it back to the doctor as a message appears on the appointment, and the patient's file.
- 6. Support both English and Arabic with the possibility of flipping between them in each screen, all system reports often support both languages as well.
- 7. Users Permissions, authorizations System: fully integrated with the appointment system by about **3000** the authority can be granted with several levels for each user separately.
- 8. Full support for Tele-working technology through [Static IP Address] via Internet.
- 9. Full support for branches guite easily, because the appointments screen have the ability to show the doctor schedule time in several branches in same time.
- 10. Users performed changes history in all details, and can be displayed for each patient or appointment or a specific day ... etc, and who was responsible for.
- 11. Continuous evaluation patients system: In terms of evaluating his commitment to appointments, and expressed with different colors, and serve to facilitate patients setting-specific, which helps to dramatically improve and increase the return on each clinic.





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- 12. Continuous evaluation patient's financial system: expressed by the level of financial by icons (Silver, Gold, Diamond, and Emerald) and also appear on the appointment rectangle, so that helps to improve the handling of the patient according to seriousness, which improves the quality of patients and thus improves the daily income.
- 13. <u>Staff evaluation System:</u> so that gives each employee a set of points when he work more on the system, so that fit those points parcel with an employee's performance, and can show balances points in any period and can be controlled, and this actually increased the amount of competition among the staff, and easy to their departments and also a good performance.
- 14. Doctors Points System: The doctor is given a set of points for his performance in every medical procedure, so that the points are distributed on different items and according to the different weights according to their importance (such as rates of patients escape, and the average income has for each patient or visit, and rates of patients return, and the rates of important patients, and new patients, and rates of patients return once or more, and the average time for each patient, and income per hour, and rates of fullness doctor schedule in the future, and the expected income ...etc), and according to these rules can be arranged doctors according to their points, and each action separately, and is known also that this arrangement commensurate with the overall performance of the doctors leading to re-schedule the priorities of the distribution of new patients according to those rules automatically, and that a repeat of that episode periodically leads to improving the performance of the hospital as a whole.
- 15. <u>Services duration controller system:</u> Re-adjust services duration time by the average for each doctor, and this adjustment will be applied automatically on all future appointments, even if the appointment was creating in advance.
- 16. Confirm appointments system: many cases and several questions and show the case of confirmation graphically on each appointment.
- 17. Patients search engine: uses a technique similar to Google search engine -Search by words voice- to find a patient by his file number or one of his phones or his name of Arabic or English, whatever the input contains errors, and with very quickly searching.
- 18. By this excellent search engine, the likelihood of duplicate files per patient becomes comparable to the impossible.





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- 19. GO Button very clever, to simplify the work to its maximum, and pressing it after the patient selection takes you to his first appointment, if any, or the last appointment, if any, or automatically adds a new appointment for him if no appointment founded, and also adds a file to the patient that did not find his file.
- **20.** Full support for (Waiting, Walk-in) schedule, so we can be scheduled and tuned according to specific hours and specific count per hours, for each doctor, to prevent appointments traffic.
- 21. Mechanism to adjust the distribution of new patients by simple medical diagnoses by problem, device, ...etc forcing appointments employees to choose a doctor appointments according to the simple diagnosis and by the will of the administration or by the law of the applicable points.
- 22. Patient initial diagnosis or patient interest or patient complaint by problem, device, ... etc saved as <u>clever data marketing</u>, and can be used by our services to those patients who phoned and inquired about some of the information, but they did not take any appointment, so that the system will save their information intelligently, we can get the maximum benefits.
- 23. Services and doctors and operating rooms Linking with strict rules, to facilitate taking appointment and that only by showing the services available to the doctor, or the operating room, or both, and also automatically calculates the duration of appointment by the total duration of the services provided.
- 24. Search engine for the earliest appointment available (Next Available) of a specific doctor or the operating room, or both, so easily, and reduces the time taken to create trio appointment to a minimum, as an alternative to manual search, which increases the efficiency of the schedule filling, and improves rates of fullness to max limits.
- 25. This helps to create patient appointment by almost by four mouse clicks and, of course, after find it.
- **26.** Showing patient's financial balance directly in the appointment rectangle, with the red or grean color debinding on his balance (Debit or Credit).
- 27. An appointments employee can View all previous or future appointments for any patient, And also View all appointments modification history, and all their confirmations and ratios of patient commitment and ratios of our commitment of all appointments (Show, Enter, Out) at the right time, And also show the patient financial balance and payments, directly in the appointment rectangle with simply graphically colors.
- 28. Full support to show Schedules in horizontal or vertical way and for several doctors and for several operating rooms and for several days at the same time.





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- 29. <u>Full support for Islamic Hijri Date and Ramadan table</u> in terms of time and financial and completely automatically.
- 30. Use timers and flashing time on appointments to view the patient's waiting time after attending or entering the doctor to prevent the accumulation of patients in the waiting rooms and increase the performance of the reception staff, and nursing staff.
- 31. Patients Communication system: communicate with the patient through the system is similar to Outlook Express, but built with the system of appointments, and is associated with both the patient and the doctor and staff appointments, and the appointment also, so that solves communication problems permanently, and easy to take out an unspecified number of statistics.
- 32. Appointments statistics system: output can theoretically hundreds of reports of the appointments ,and doctors ,and operating rooms on the one hand, and on the other hand the intersection of all with (of users ,medical services ,time periods ,new patients or latecomers or committed, or doctors exceeded times ratios , or appointments deleted, confirmed, male, female, has a next appointment, type of visit, type of appointment, appointment Branch ...etc) and all it can be assembled according to the levels of sorting many (doctor, operating room, services, type of visit, section...etc), with the possibility of exporting to Excel or send messages by SMS a collective of patients and by sorting applicable , and in accordance with the authority available.
- **33. Several statistics charts:** show performance on a specific time period for income or attendance rates or patients type or doctors ...etc to all or some of them, and also shows the peak points and points down.
- 34. Automated SMS message system: When you create an appointment, change, delete, confirm or not to respond to the confirm phone call, the system automatically send SMS message to the patient, and automatically send SMS message to doctors to telling them also about their schedules appointments in the next day, and automatically send SMS message to the owner to tell him about the daily revenue.
- 35. <u>Many Evaluation Reports</u> (Booking and filling schedule rates report, and billing reports, and new patients reports, and attendance rates reports, and rates of return report, and the following appointments report and the escape of patients report ...etc) on certain period of time.
- 36. Patients Attend Ratios of their Appointments Proportion as is well known parcel with the increase in income, according to this idea, the system guarantee increasing the proportion of patients attend, almost doubled and because of the unique mechanism of action based on the following improvements:





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- ★ Improve the performance of all sections of the hospital to increase the efficiency of the work of each department, leading to reduce dependence on highly specialized skills for jobs while keeping the quality of service provided because of the system.
- ★ Improve the quality of filling the doctor schedule, so the priority for patients with a commitment to top points score and also higher financial, and this also improves the daily income in a tangible way.
- ★ Improve system to confirm appointments to its limits and this affects the proportions of patients attending as is well known.
- ★ Improve the possibility of filling schedules in times where there is no peak to bring in a large segment of patients who did not finish their treatment according to the agreement plan (medical package), or otherwise special offers through the SMS messages, and This increases the number of patients.
- ★ Possibility to avoid falling into the problem of the neglect of the doctor or not his skill in some of the actions and because the system tracks the performance of each of them individually, by reports and numerous points, and redistributes the priorities to keep the better income and a better service, and this avoids the hospital of dependency loss of patients as much as possible.
- ★ Improve appointments filling within the priorities, and automatically reduce the errors rates and eliminate the conflicts altogether.
- ★ Using the results of the statistical evaluation Output to reset priorities such as the priorities of the distribution of patients to doctors as inputs again semi-automatic manner, In other words, the system improve its performance and hospital performance in a unique mechanism.
- ★ Many marketing reports, utilized to send marketing SMS messages by interest of the patient or the initial diagnosis.

<mark>∕ Patient's file :</mark>

- English, Arabic quadrant patient name, with automatic translator in both directions (depends on literal translation and contains an Arabic name dictionary of famous translation to English).
- Three phone numbers for each patient with different masks to prevent faulty registry, e-mail and nationality.
- Analysis names automatically to know the sex of the patient from his name, at up to 90%.
- Calculate the birth date by age and vice versa.
- Patient Classification (Normal, Important, SP).
- Black List to block patients' unwanted their doctor or specific all doctors.
- Patient Takes temporarily file number until patient attending to the appointment.
- Identify three relatives with kinship and phones.





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Possibility of using a search engine SIMI to Google search engine to search for the patient's file by any information available as part of a phone number or part of the name of the Arab or English - sound search engine - or even part of the Public number or intersection that data together.

Doctors agreements and contracts:

- Can select the doctors default commission for each service separately, as well as his commission from the conversion and also the discount rate available to him.
- Can determine Services\medical procedures per doctor and customize the implementation time duration of the service, and can also determine the cost, and commission after the cost or not, and can specify a different price for each service and each doctor.
- Strong screens to identify these agreements and facilitate the complexity as much as possible.



Companies agreements and contracts:

- Can make agreements with companies for services or specific medical procedures, so as to give special discounts, or pay the values of these services by paying different rates between both the patient and the company according to the contract and service.
- These contracts have duration of time intervals energized by.
- Procedure may take different price from the main price lists.

🌠 <u>Medical offers , packages , special packages:</u>

- Discounts offers on some procedures and for a limited period.
- Discounts can be applied starting from price lists are different from the main price.
- Offers daily period can be determined if the morning only.
- Medical package can be identified special discount.
- Interconnected with appointments and bills and supported by several reports of marketing.

Medical system diagnosis:

- System integrated with appointments and patient's files, doctors, financial.
- Doctor screen used as a substitute for the paper solution, to register the medical diagnosis and puts his Medical remarks utilizing this ICD10 World system for medical diagnostics, and also specifies the services proposed to the patient, as well as services provided promptly to the patient or the services required to be





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paid prior to start-up ,and the doctor can also build a (medical service package) directly, **and give** suitable discounts.

- The doctor knows through this screen when the patient is attending directly, and can see all previous and subsequent appointments and can and put his remarks on them.
- All medical data archiving, as a function of the patient's file, and can simply be referenced.
- Great ease in the creation of it all, and I have taken into consideration that the system is very intelligent
 and a brief so as not to waste the time of the doctor in entries and definitions long
 unnecessary, and the nurse can do so in the case of busy doctor, and this screen is not considered one
 of the screens binding to the doctor, as it is still able to work on the way in the paper.
- Doctor's manager can only see the work of other doctors and evaluated.
- A very high speed in the introduction of information and one of them has been able for 15 seconds as a time to enter the information and give the command billing.

**Financial accounting system and Medical billing :

- Integrated system with appointments and patients files and doctors, and financial accounting.
- Full support for nested lists pricing, in the sense that it can be priced medical services per doctor separately or use the main pricing lists or selecting discount rates and conversion ratios for doctors and all that affects the construction of the financial journal is completely automatic.
- Support the building of more than invoice at same time.
- Possibility Directed of financial statements account for patients, doctors, medical services or the level of any of them and any period of time.
- Possibility of cross-directed account statements (Patient, Doctor, employee, service ...etc) so that you can find any financial linkages can imagine.
- Support many offers (discounts starting from prices may differ from the main price, taking into account the time
 of the offer, and the offer period).
- Supporting special offers companies and agreements with them by contract defined in the system.
- Support Medical package offers Systems, so you can follow-up services for the patient and what to pay them and what has been done.
- Support offers systems for customer companies.
- Support insurance pricing lists for various companies.
- Support for Mixed bill, which has several methods of payment at the same time financial (Cash, Credit
 Cards, SPAN, Visa, Cheque), and the idea that they shorten the strenuous efforts in dealing with the
 numerous payments, and provide the amount of papers to half or less.





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- Billing system generates a detailed accounting entry for each of those intersections automatic, every bill
 commission is calculated doctor and conversion commission and the debit of companies and carry the
 patient and is made in each account.
- Discounts and credit payment constrained by the consent of the administrator by attach the document by which the discount request.
- Numerous reports to track revenue and cash boxes and patients...etc

Medical inventory system:

- System an integrated with appointments and files of patients, doctors and financial accounting.
- Variety Vouchers (receipt, payment, purchase orders, sale and purchase invoices, support transferring...etc), and all of them are related to the accounting system automatically, and operate in a manner perpetual inventory.
- Support for Mixed invoice, which has several methods of payment at the same time financial (Cash, Credit Cards, SPAN, Visa, Cheque), as is the case in the Bill of medical services, but it is here working with the purchase invoices and sale invoice and the like.
- Many advantages in facilitating the entry and write the vouchers, and adjust the pricing mechanism and separate accounts for the bonus and gifts provided by the suppliers, and methods of calculating by many way of the cost.
- Numerous reports to track inventory and its relations with suppliers on the one hand, and on the other hand its relationship to clinics and patients also.
- Invoices and depreciation medical expenses, expenses show operating rooms and clinics and is also
 linked to the patient and the doctor making it easier to see the consumption of both of them, and it can
 calculate the profit ability of the bill and physician expenses.

<mark>∕ Pharmacy system :</mark>

- Integrated system and connected with the Financial Accounting automated, with multi-stores.
- Variety Vouchers (receipt, payment, purchase orders, sale and purchase invoices, support transferring...etc), and all of them are related to the accounting system automatically, and operate in a manner perpetual inventory.
- Full support with automatic for items which have an expiry date, and full support for printing and the use of barcode labels or use the barcode on a pack of ready-medication.
- Support for mixed payment invoices, which has several methods of payment at the same time financial (Cash, Credit Cards, SPAN, Visa, Cheque)
- Many advantages in facilitating the entry and writing vouchers, and adjust the pricing mechanism and separate accounts for the bonus and gifts provided by the suppliers, and methods of calculating many of the cost.





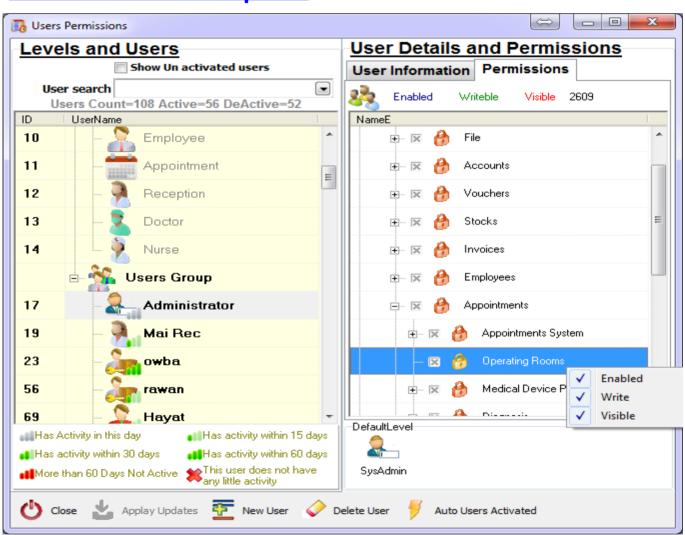
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- Numerous reports to track inventory, and built its report designer simple to take out most of what was needed by the user.
- Manufacturing voucher, and destruction voucher, adjustment costs voucher, all work in a smooth and simple and quick.

WikiMed - Some Snapshot



Users Permissions system





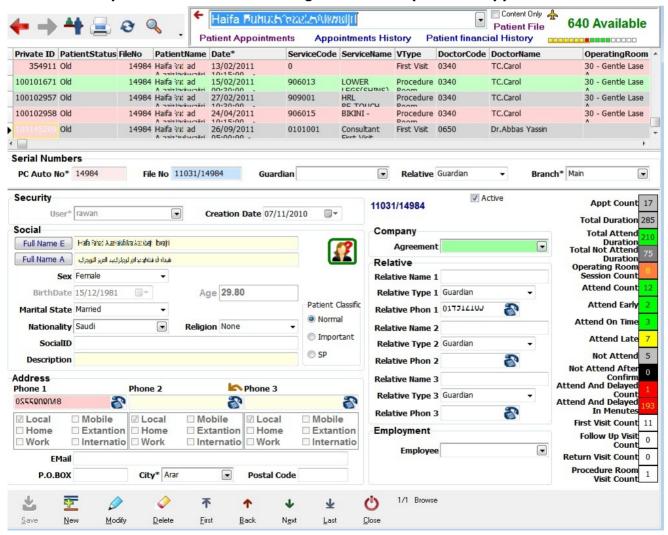
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Simple users interface and logical access options to appointments



Patient's file form and other detailed information

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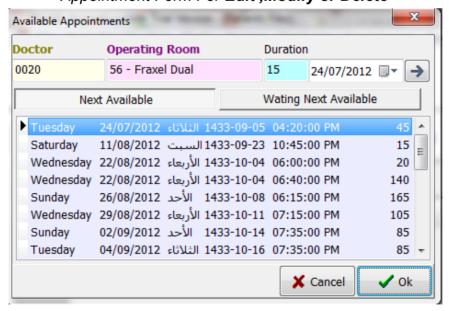
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Appointment Form For Edit , Modify or Delete



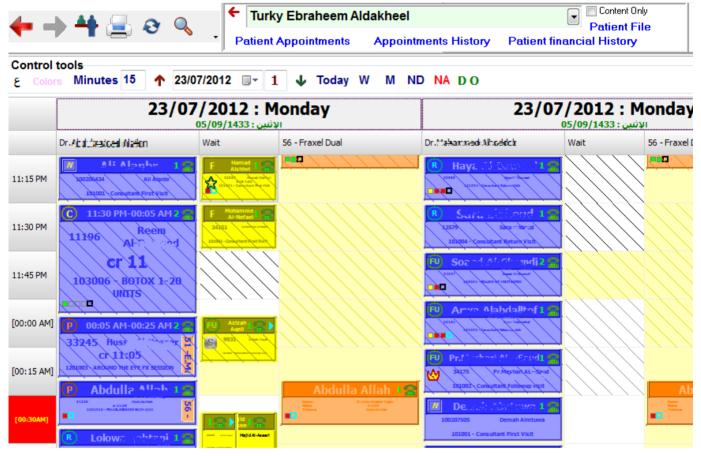
Find the next available appointment by clinic or operating room or together





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Appointments graphically high-resolution form, with colors and icons

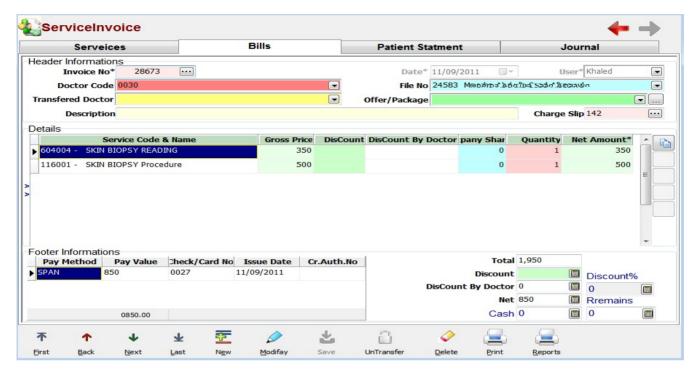




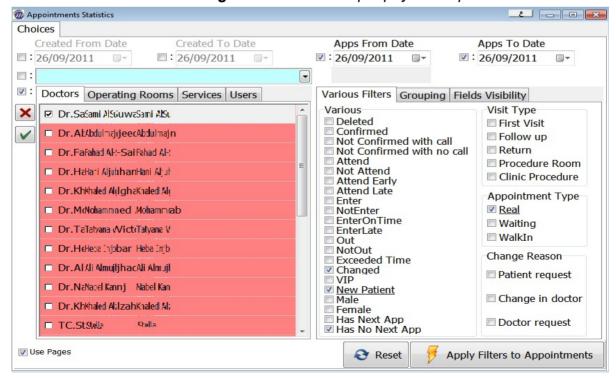
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Medical billing service with multiple payment options



Appointments Statistics form, with various filters and several groups

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Doctors with services Evaluations													
From D	ate		0	1/01/2011	IT	o Date	20/09/2011	26/09/2011 05:09					
GroupName	Doctor Name	Patients	New Patients %	Patient Came Only Once %	Patient Came Only Twice %	Patient Came More Than Twice %	Patients Back For Fraxel %	Patients Back For Botox %		Income	Income Per Patient	points	
вотох	Dr.Na	4	50	100	0	0	0	0	0	7040	1408	286	
	Dr.Abb	20	5	80	20	0	0	0	5	25875	1362	302	
	TC.Rhea	0	0	0	0	0	0	0	0	1680	1680	336	
	Dr.Kh	15	33.33	86.67	13.33	0	0	0	6.67	36720	1749	370	
	Dr.Ali	46	28.26	91.3	8.7	0	0	0	2.17	77560	1583	373	
	Dr. Fe: '' '	1	0	100	0	0	0	0	0	2000	2000	401	
	Dr.Mc' 1 Alhadueu	64	20.31	68.75	21.88	9.38	0	0	4.69	81480	1509	419	
	Dr.Sa · · · ·	47	4.26	91.49	8.51	0	2.13	0	0	97380	1948	447	
	Dr. Abd ' : ' Alajlan	108	23.15	82.41	14.81	2.78	0	0	1.85	190490	1671	491	
	Dr.Kh.	25	40	84	16	0	0	0	4	56810	2367	508	
	Dr.Ah	118	30.51	69.49	30.51	0	0	0	9.32	187705	1771	562	
	Dr.H	102	29.41	66.67	27.45	5.88	0	0	10.78	170980	2012	592	
	Dr.Tat,	189	26.46	68.78	26.46	4.76	2.12	0	7.41	277087	1630	667	
	Dr.Hai	608	20.39	80.92	16.45	2.63	0.49	0	3.78	1490710	2448	1396	
FILLER	Dr.f	20	15	65	20	15	0	5	0	37210	2326	504	
	TC.R!	0	0	0	0	0	0	0	0	2520	2520	504	
	Dr.Kh	17	35.29	70.59	11.76	17.65	0	5.88	0	51230	3014	634	
	Dr.Ali A	48	10.42	50	37.5	12.5	0	2.08	0	120090	3336	778	
	Dr.Sa. · · · · n	43	0	51.16	41.86	6.98	11.63	4.65	0	130360	3523	802	
	Alajla.	106	23.58	72.64	24.53	2.83	0.94	0.94	0	335290	3320	844	
	Dr.Kh	30	40	60	40	0	0	3.33	0	95320	3972	854	
Fraxel	TC.Ci	0	0	0	0	0	0	0	0	2000	2000	400	
	Dr.Kh.	0	0	0	0	0	0	0	0	2000	2000	400	
	Dr.Ha.	98	10.2	54.08	30.61	15.31	0	3.06	3.06	89220	2075	633	
	Dr.Al	55	9.09	23.64	47.27	29.09	0	1.82	1.82	93200	2741	716	

Doctors evaluations report for their performance in the various services

No.		1000					,											
Doctors Eva																		
Report of			Patients		Date 01/04/2011 To Date 26/09/2011										ص 26/09/2011 05:20			
Doctor Name	Patients	VIP Patients %	New Patients %	Patient Came Only Once %	Patient Came Only Twice %	Patient Came More Than Twice %	Time Utilization	A verage Time Per Patient (M)	Invoices	Income	Income Per Patient	Income Per Hour	Income Per Visit	Future Time Utilization	Expected Income			
Dr John Wat illard	20	20	15	95	5	0	31	16	28	287500	12500	31081	7770	0	0			
Dr. Flesslandamdan	77	11.69	53.25	83.12	6.49	10.39	35	34	122	399895	5262	5946	2234	0	0			
Dr.Kifald Alzalivai	295	14.24	50.85	76.95	6.44	16.61	53	35	557	1262560	4958	5532	1813	6	9529			
Dr.Him Ajıleri ahani	798	34.59	25.56	52.01	32.46	15.54	64	26	2163	1750465	2076	3868	975	2	1238			
Dr. Nabel (arj lanj	15	6.67	26.67	66.67	26.67	6.67	8	32	30	31040	1724	2642	1070	0	0			
Dr. Ali 4hujeti jhad	200	11.5	50.5	51.5	23	25.5	56	35	495	449945	2272	2612	746	0	0			
Dr. Kitald Alghand	306	7.19	61.44	73.53	16.34	10.13	58	25	543	453165	1486	2535	709	15	8087			
Dr.Sani AlSurvatar i	501	26.55	46.31	52.3	17.17	30.54	75	47	1399	1262700	2591	2478	749	23	32059			
Dr.Heleinbanjbar	273	7.33	52.75	54.95	25.27	19.78	39	31	604	456215	1671	2231	666	11	4785			
Dr. Midamed ned Alhaeddo	251	5.98	45.82	54.58	25.5	19.92	47	29	559	388430	1554	2220	594	14	6782			
Dr. Tiayare Victor	875	8.57	46.4	46.74	22.51	30.74	54	41	2793	1772226	2036	2002	585	10	23513			
Dr. Afried Jabaeds	550	11.27	61.27	60.18	21.64	18.18	27	31	1371	842790	1599	1957	577	2	3038			
Dr. Akktıs Yasın asısın	322	6.21	53.73	64.29	10.25	25.47	33	70	871	887190	2799	1815	859	1	1048			
Dr. Alto Irajed rjeed Alaj lija	1469	10.07	47.31	58.07	25.32	16.61	85	30	3394	1920046	1295	1772	507	88	180367			
TC.(Carol	591	29.44	27.07	44.33	18.61	37.06	60	69	1407	699807	1265	783	350	18	19497			
TC.Flavan	444	12.84	24.55	35.81	29.95	34.23	61	96	1037	573186	1294	625	396	24	21541			
TC.Stele	205	5.37	8.29	47.32	22.44	30.24	24	98	459	226784	1134	508	375	3	853			
TC.Nayar n	361	17.45	45.98	55.12	13.57	31.3	40	90	751	333420	975	446	283	9	4282			
TC.Chae	112	15.18	25.89	25.89	8.04	66.07	41	291	724	100770	908	140	102	3	430			
Dr Fiad	71	1.41	22.54	97.18	2.82	0	38	16	69	1850	28	61	15	0	0			
TC.FFar	77	35.06	0	31.17	22.08	46.75	24	266	1	641	641	1	1	4	2			
T.C./kseda da	39	0	5.13	5.13	17.95	76.92	8	68	0	0	0	0	0	0	0			
TC.Fihea	67	53.73	8.96	2.99	7.46	89.55	25	317	0	0	0	0	0	6	0			
Dr. Fished AlSaf I-Saif	0						0	0	1	200	200	0	0	0	0			

General Doctors evaluations report

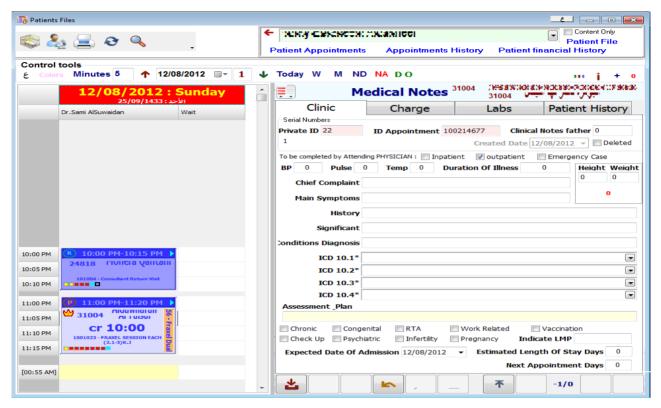




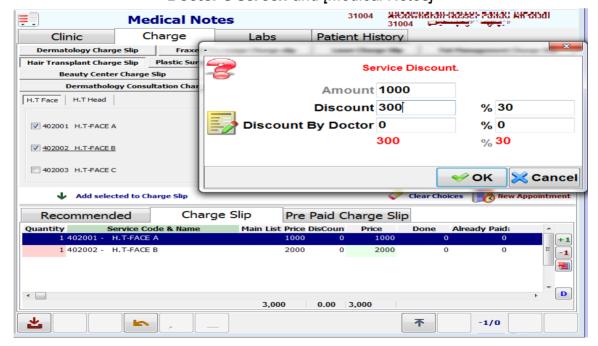
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Doctor's screen and [Medical Notes]



Doctor's screen and services with varies way to make discount

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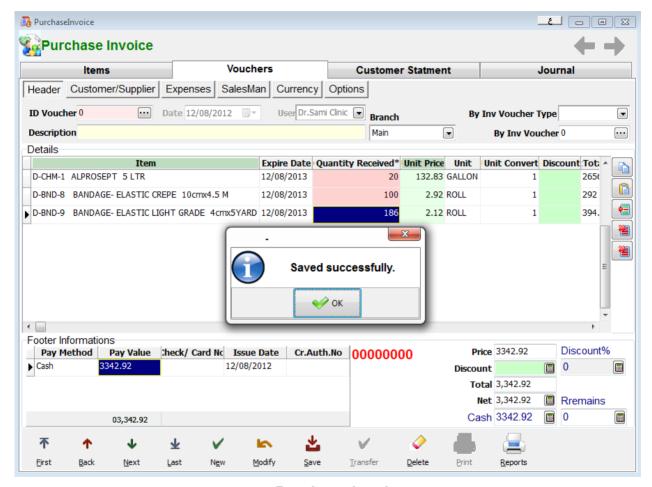
Saudi Arabia - p. B. 295 685 Riyadh 11351 Tel: 96,614,620,584 Fax: 96,614,611,981 Chamber of Commerce No. 246924 246924Saudi Arabia PO Box 295685 Riyadh 11351 - Tel.: + 96614620584 Fax: +96614611981 CC No.:





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Purchase invoice