BRIEF



# Clinical Modeling and Resource Tracking Performance Blueprint



## **Clinical Modeling and Resource Tracking Performance Blueprint**

## Introduction

This application brief demonstrates a Web-based planning and reporting process for forecasting clinical trials recruitment, resource requirements, profitability and cash flows using IBM Cognos<sup>®</sup> 8 Planning and IBM Cognos 8 Business Intelligence. Key aspects of the operation of the *IBM Cognos Clinical Modeling and Resource Tracking Performance Blueprint* model are explained, followed by a section-by-section explanation of function, purpose and operation.

Managing a portfolio of clinical trials is particularly challenging; the size and complexity of studies continues to grow while budgets are under ever increasing scrutiny. The *Clinical Modeling and Resource Tracking Blueprint* provides a streamlined, best-practice planning, forecasting, analysis and reporting tool for clinical trial forecasting of recruitment, enrollment, resource requirements, and profitability and cash flows. The *Blueprint* can be used to track income, costs and cash flows by clinical trial or geographical area and to manage staff resources by individual clinic

IBM Cognos Performance Blueprints are pre-defined data, process and policy software models developed in partnership with IBM Cognos customers and partners. Utilizing the IBM Cognos 8 suite of performance management products, Blueprints provide out-of-the-box functionality including dashboards, analytical reports and a preconfigured data model to facilitate rapid time-to-value. Customers benefit from proven practices in model design that greatly reduce investment in implementation time and resources. Customers utilizing the Blueprint can focus on applying the technology to solve business problems, rather than on fundamental process analysis and technical design.

## **Blueprint Objectives**

The *Clinical Modeling and Resource Tracking Blueprint*, together with IBM Cognos performance management software, provides a reliable, consistent modeling tool that helps organizations run their clinical trial studies more efficiently. The Blueprint uses drivers and study timelines to efficiently predict study income, costs and resource requirements over the life of a study. The Blueprint includes functionality to:

- Update patient numbers and see immediate impact on study profitability.
- Allocate patients to countries and specific sites within each country.
- Allow for flexibility in updating and evaluating the profitability of using various recruiting methods.
- Enter individual visit start dates to drive accurate profitability and resource requirement projections across the study timeline.
- Enter staff time requirements by visit to calculate very detailed and accurate forecasts of resource requirements by site.
- Evaluate resource requirements at the position and clinic level by month to ensure that the right mix of staff is in place to avoid potential bottlenecks.

This application brief describes the functionality and processes built into the *Clinical Modeling and Resource Tracking Blueprint.* Although the Blueprint was designed to meet the needs of most CROs and sponsor organizations, this model can easily be configured to support alternative and specific requirements to accommodate planning in any organization.

## **Clinical Modeling and Resource Tracking Dashboard**

The *Blueprint* includes a comprehensive collection of pre-defined dashboards and analytical charts. The following chart shows an overview of Cumulative Gross Profit, Income and Cash Advances for the year to date. Links to additional reports are available on the left side of the dashboard to enable the user to delve deeper into the forecast detail.



The next chart is a view of the "recruitment funnel" for a particular study, showing the number of patients at each stage and highlighting the cumulative enrollment performance to date for Actuals vs. Budget and Forecast. This report can be used to analyze whether actual recruitment is on target with the budget and the latest forecast and enables the organization to drill into the detail and react quickly if necessary to adjust recruitment for the remainder of the year.



Another critical aspect of the *Blueprint* is the ability to run "what-if" scenarios, changing key assumptions and dates to determine a range of likely outcomes. The following chart displays the patient enrollment for a range of scenarios. Once updates are made to any of the scenarios, the updated forecasts are immediately available for review using IBM Cognos enterprise-class reporting capabilities.



For CROs, the *Blueprint* is equipped with study-level Income and Expense Statement and Cashflow reporting.

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		Incon	ne Statement			
	<u>Jun-2009</u>	<u>Jul-2009</u>	<u>Aug-2009</u>	<u>Sep-2009</u>	<u>Oct-2009</u>	<u>Nov-2009</u>
INCOME						
Miscellaneous Income			295,254	306,999	404,625	447,684
Prescreen Income	15,316	93,588	175,414	135,287	75,607	24,744
Screen Income	50,376	420,952	1,179,947	1,941,514	1,398,785	761,500
Rand Income				8,232	77,845	162,580
Set Up Fee Income			576,836	431,915	432,157	360,000
Project Management Income				225,157	599,834	831,069
Total Direct Income	65,692	514,540	2,227,451	3,049,105	2,988,853	2,587,576
Prescreen Patient Travel Income				6		
Screen Patient Travel Income				62,416	31,225	
Run in Patient Travel Income				6		
Rand Patient Travel Income				2,760	14,964	31,967
Prescreen Procedure Income				6		
Screen Procedure Income				6		
Run in Procedure Income				6		
Rand Procedure Income				6		
GP SDV's Income				47,186	95,762	80,531
Advertising Income	363,735	3,796,348	9,103,150	15,542,815	9,251,785	3,330,387
Total Pass Through Income	363,735	3,796,348	9,103,150	15,655,215	9,393,736	3,442,885
Total Income	429,428	4,310,888	11,330,601	18,704,320	12,382,589	6,030,461

Resource staffing requirement charts are available by either study or resource type. Any months where the forecast exceeds capacity will be highlighted to alert the user to consider either reallocating or adding resources or adjusting the forecast to alleviate some of the resource demands for that period.

6													E	Keep this	version 🔻	▶   飛	h 🕆 🖬	- 5	- Add	this report	-
					Beginn	ing Fore	cast Moi	Or <i>nth:</i> Jur	lando 1-2009				•								
Total	Jun-200	9	Jul-2009		Aug-200	9	Sep-200	9	Oct-200	9	Nov-200	9	Dec-200	9	Jan-201	0	Feb-201	0	Mar-201	0	Apr-
	Forecast	Capacity	Forecast	Capacity	Forecast	Capacity	Forecast	Capacity	Forecast	Capacity	Forecast	Capacity	Forecast	Capacity	Forecast	Capacity	Forecast	Capacity	Forecast	Capacity	Fore
<u>CC 10004 -</u> <u>114 Study -</u> <u>Ph III</u> <u>Double</u> <u>Blind -</u> <u>Rand</u>	0.0	3.2	0.0	5.5	17.2	17.2	83.1	0.0	0.0	0.0	8.2	8.2	40.4	40.4	24.5	0.0	0.0	10.2	48.4	48.4	7
<u>CC 10004 -</u> <u>115 Study -</u> <u>Ph2b</u>	3.2	0.0	0.0	0.0	7.6	0.0	22.1	22.1	0.0	0.0	0.0	7.3	13.7	13.7	0.0	13.3	9.3	9.3	0.0	0.0	
CC 10004 - 283 Study - A Phase III, Open- Label, Extension Study Transfusion Dependent PNH	0.0	22.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.7	0.0	0.0	0.0	0.0	0.0	0.0	73.1	
Dia AML- 003 Study	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.1	0.0	0.0	7.3	7.3	0.0	13.7	13.3	0.0	9.3	9.3	21.7	0.0	
Dia AML- 004 Study	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.4	0.0	0.0	0.0	13.7	13.3	0.0	0.0	9.3	0.0	0.0	
Diamide AML-009	0.0	0.0	5.5	0.0	16.4	16.4	0.0	0.0	112.1	112.1	48.9	48.9	77.2	77.2	0.0	76.8	38.0	38.0	85.1	85.1	
Diamide AML-010	3.2	3.2	5.5	0.0	7.6	7.6	22.1	22.1	16.4	0.0	7.3	0.0	13.7	13.7	0.0	0.0	0.0	0.0	0.0	0.0	
Relaxamid Study NHL 102	3.2	3.2	0.0	0.0	7.6	0.0	22.1	22.1	0.0	16.4	0.0	0.0	13.7	0.0	13.3	13.3	9.3	0.0	21.7	0.0	4
Relaxamid Study NHL 103	0.0	0.0	0.0	0.0	14.1	14.1	28.6	28.6	0.0	22.9	13.8	0.0	0.0	0.0	0.0	0.0	15.8	15.8	0.0	0.0	21
Staff Capacities	28.9	28.9	49.8	0.0	0.0	0.0	0.0	211.2	162.3	162.3	0.0	0.0	0.0	130.8	0.0	106.6	0.0	70.8	0.0	0.0	39



Another report enables the user to compare resource hours to the number of visits over time.

### **Planning Model Overview**

The *Clinical Modeling and Resource Tracking Blueprint* forecasting model consists of 32 d-cubes and 104 d-links. Several assumption and calculation d-cubes are hidden from the users resulting in the Contributor view showing 28 different d-cubes or tabs. Five forecast versions are available throughout the model and they are Contracted, Budget, Forecast, Revised Plan, and Scenario 1. The majority of the forecast is collected by country, with the country data being broken down further by clinic for the recruitment and enrollment calculations and the resource requirement calculations.

The following diagram of the forecast model shows the cubes in the model and the general data flow for the cubes. Due to the volume of links in the model (104 total), the individual links are not depicted in the diagram.



#### Clinical Trials Modeling and Resource Tracking Blueprint

#### Workflow

As planners are updating the clinical trial forecasts, managers and executives need real-time visibility to the workflow status of that information.

In this *Blueprint*, individual forecasts are entered for each clinical trial. Clinical Trials then roll up to product groups and a total clinical view. Reviewers can view the consolidated results of the clinical trials and the effect of those trials on overall profitability, cash flows and resource requirements. These reviewers can see the workflow status of each clinical trial that is their responsibility and they can also be co-owners of that information, which enables them to make edits, if required. All workflow status changes, data consolidations and aggregations occur in real-time as the information is saved by the end user, making frequent planning iterations possible.

Before data is entered, the state of the plan is designated as **Not Started**. Once a plan is saved, the state becomes **Work In Progress** and remains accessible for further editing. When an item is submitted, the plan is **Locked** and no more changes can be made. The Locked state indicates that the plan is ready for review. A reviewer can review the plan in any state, but can only reject a Locked plan item. When a Locked plan is rejected, it returns to a state of Work In Progress, making it editable once again for the owner of that plan.

The following example shows the workflow from the perspective of the final reviewer of Total Clinical data. This individual has review views of Total Clinical, Hematology, and Oncology and is able to view detail down to the lowest (clinical trial) level of the hierarchy. This individual is also the owner of Staff Capacities and is responsible for its input.

Contributor	Haley Roberts Log off 🕆 🕆 Launch 🔻 ? 🕶
Staff Capacities	You are a reviewer for:
	Name State Uwnership Reviewer Last Data Change
- D Hematology	CC10004 - PDE4/TNF-alpha 📓 🕖 Incomplete 🔍 Email All 🔍 Mike Smith 🔍 11:24:35 PM - Tuesday, June 23, 2009 🔍
CC10004 - PDE4/TNF-alpha	which is sold up of
	which is made up or:
💮 🔗 CC10004 - 115 Study - Ph2b	Name State Uwnership Reviewer Last Data Change
O CC10004 - 283 Study - A Pha	Contributor Vikes Vicesday, June 23,
	Kano Progress Submit Siniti 2009
□ □ □ □ Acute Myelogenous Leukemia (AM □ □ □ □ Diamide	CC10004 - 115 Study - Ph2b
□ □ Diamide AML □ □ Dia AML-003 Study □ □ Dia AML-004 Study	CC10004 - 283 Study - A Phase III, Open- Label, Extension Study Transfusion Dependent 🛛 🔿 Not Started 🔻 None Tuesday, June 23, 💌
C Diamide Amenia Diamide AML-009 Diamide AML-010 P Relaxamid Study NHL 102 Relaxamid Study NHL 103 Staff Capacities ⊕ Diamide	Workflow information for CC 10004 - PDE4/TNF-alpha:         Current state:       Incomplete.         Some items that make up this e.List item are not started. More         Time of last state change: 11:18:22 PM - Sunday, April 19, 2009         User who last changed state:         Contributor Submit         Viewed:       no         Reviewed:       no         Size limit:       1 MBs
<b>(()</b>	Local intranet

#### **Study Summary**

The Study Summary tab is used to collect high level data about each forecast version. Required inputs on this tab include Version Number; the Date of the Latest Forecast; and Dates for Start PreScreens, Start Screens, Start Run ins, Start Recruitment and Stop Recruitment. Other inputs include Length of Recruitment, Study Duration, Total Number of Patients Needed and Total Number of Sites Needed.

Several calculations needed to feed later tabs are hidden from the users on this screen using Access Tables in Contributor. The dates collected for this tab are used to drive calculations that allocate income and costs for the appropriate months on the Summary Forecast tab. The Patient and Site numbers are fed into the Recruitment Funnel tab where the user can then allocate patients and sites across countries.

Study Summary	ecruitment Strate	gy 🛛 🎹 Recru	uitment Funnel	Recruitme	ent Budget	Patient Counts	Setup Costs	Setup Fee
Rows: [Study Summary]		Columns:			Context	: 0004 - 114 Study - Pł [Elit	III Double Blind - Ra t]	and 🖵
	Contracted	Budget	Forecast	Revised Plan	Scenario 1			
Version Number								
Date of Latest Forecast	01-01-2009	01-01-2009	01-01-2009	01-01-2009	01-01-2009			
Start Pre Screens	15-07-2009	15-07-2009	15-07-2009	15-07-2009	15-07-2009			
Start Screens	31-07-2009	31-07-2009	31-07-2009	31-07-2009	31-07-2009			
Start Run ins	15-08-2009	15-08-2009	15-08-2009	15-08-2009	15-08-2009			
Start Recruitment	01-09-2009	01-09-2009	01-09-2009	01-09-2009	01-09-2009			
Stop Recruitment	16-10-2009	16-10-2009	16-10-2009	16-10-2009	16-10-2009			
Length of Recruitment	1.50	1.50	1.50	1.50	1.9	50		
Length of Recruitment (Days	i) 45	45	45	45	4	45		
Study Duration (Months)	12.00	12.00	12.00	14.00	12.	00		
Estimated Study End Date	11-10-2010	11-10-2010	11-10-2010	10-12-2010	11-10-201	LO		
Total Study Length (Weeks)	57.86	57.86	57.86	66.43	57.8	86		
Total Number of Patients Needed	100	100	120	100	1	00		
Total Number of Sites Needed	4	4	4	4	4	4		

#### Year Start (hidden)

Year Start is a hidden tab that is used to capture the starting date for each year. This tab is needed in order to appropriately pull the correct year's staff rates into Visits Staff Requirements. The calculations in Visits Staff Requirements compare each visit's Visit Begin Date to the Year Start field to determine which year's staff rates will be used to calculate income and costs for each visit.

#### **Recruitment Strategy**

The Recruitment Strategy tab enables the user to input data about the various recruiting costs. Total Projected Cost for each line item is calculated as (Cost/Units Covered by Cost) \* Planned Units. Any items that are collected or calculated elsewhere in the model are linked in and are displayed in read-only or grayed out cells.

Rows:		Columns:		Context			
[Recruitment Costs Type]		[Recruitment Costs	Calc]	Cont [Version	racted w Actuals]	C 10004 - 114 Study	- Ph III Double Blind [Elist]
	Cost	Units covered by Cost	Planned Units	Total Projected Cost			
Fulfillment (Database Mailshots)	320.00	1,000	1,953	625.00			
Paper (Database Mailshots)	110.00	2,000	1,953	107.42			
Envelopes (Database Mailshots)	14.35	1,000	1,953	28.03			
Postage (Database Mailshots)	0.34	1	1,953	664.06			
Total Database Mailshots - Per Site				1,424.51			
GP Stafftime (cost and letters per hour)	13.16	50	1,302	342.71			
Paper (GP Mailshots)	2.00	500	1,302	5.21			
Envelopes (GP Mailshots)	15.00	1,000	1,302	19.53			
Postage (GP Mailshots)	0.31	1	1,302	403.65			
Total GP Mailshots - Per Site				771.09			
Telescreener - Call Center	290.77	30	130	1,262.02			
Telescreener - Admin	64.62	50		0.00			
Fulfilment Charges	1.00	1	65	65.10			
Total Telescreening - Per Site				1,327.12			
Responses			521	0.00			
Doctor	181.73			0.00			
Senior Nurse	100.96			0.00			
Nurse	88.85			0.00			
Administration	64.62			0.00			

#### **Recruitment Funnel**

The Recruitment Funnel tab is used to allocate Patients, Sites and Recruitment over different countries. The Recruitment Funnel also enables the creation of a subset (for example, a group of patients starting the trial at a later date) and will calculate recruitment requirements in total and for the subset, if used.

Clinical Trials - MART   Contribut	tions   CC1	0004 - 11	4 Study	Ph III D	ouble Blind	- Rand - Contributor	-
Edit View Workflow Actions H	elp	-					
6   🖬 🖨   X 🖻 🛅 🔽	- 📴 🚺 (	🖲 🗕 🕅	] 🗐 🕻				
Study Summary Recruitmen	t Strategy	Bec	ruitment	Funnel	Recru	tment Budget Patient Counts Setun Costs Schun Fees Visits Setun	»
Rows:	(	Columns:				Context:	21
[Recruitment Funnel]		E [Count	rvl			CC10004 - 114 Study - Ph III Double Blind - Rand 🚽 🚦 Contracted 🚽	
4		4 <u>-</u>				[Elist]	
	🗄 Total						
	Countries	UK	US	France	Germany		
otal Number of Patients Needed	100						
otal Number of Sites Needed	4						
lumber of Patients	100	25	50	25	0		
lumber of Sites	4	1	2	1	0		
lumber of patients at each site	75	25	25	25	0		
Run-in success rate %	80%	80%	80%	80%	80%		
lumber to Run-in (per site)	94	31	31	31	0		
lumber to Run-in (total)	125	31	63	31	0		
creening success rate %	80%	80%	80%	80%	0%		
lumber to Screen (per site)	117	39	39	39	0		
lumber to Screen (total)	156	39	78	39	0		
re Screen success rate %	60%	60%	60%	60%	60%		
lumber to Pre-Screen (per site)	195	65	65	65	0		
lumber to Pre-Screen (total)	260	65	130	65	0		
elescreen success rate %	50%	50%	50%	50%	0%		
lumber to Telescreen (per site)	391	130	130	130	0		
lumber to Telescreen (total)	521	130	260	130	0		
lesponses success rate %	25%	25%	25%	25%	25%		
lumber of Responses (per site)	1,563	521	521	521	0		
lumber of Responses (total)	2,083	521	1,042	521	0		
atabase Mailshots	30.0%	30.0%	30.0%	30.0%	0.0%		
P Mailshots	25.0%	25.0%	25.0%	25.0%	0.0%		

#### **Recruitment Budget**

The Recruitment Budget tab summarizes the previously entered Recruiting Costs. It is also where the user can enter Recruiting Income, which is intended to be entered into the Total cell for Income per Site Input, enabling it to appear to break back equally against recruiting methods. In reality, calculations in the cube automatically run to allocate the recruiting income proportionately to match the allocation of the recruiting costs. The results can be seen in the Income per Site field.

🛄 Study Summary 🛛 🛄 R	ecruitment Strategy	III Recruitment I	Funnel I Recr	uitment Budge	t Patient Count	s Setup Costs	Setup F	ees	» [
Rows:		umns: [Recruitment Bu	dget Calc]	Context	: .0004 - 114 Study - Ph [Elist	III Double Blind - Rand	Contra [Vers	icted 🖵 🛛 U [Cou	K ntry]
	Length of Recruitment	# of Campaigns	Cost per Campaign	Number of Sites	Income per Site Input	Income per Site C	ost per Site	Total Income	Total Cos
Total Recruitment	1.5	3		1	160,000	160,000	10,673	160,000	10,673
Press Advertising	1.5	1	1,000	1	20,000	14,991	1,000	14,991	1,000
Radio Advertising	1.5	2	3,000	1	20,000	89,949	6,000	89,949	6,000
Database Mailshots	1.5			1	20,000	21,356	1,425	21,356	1,425
GP Mailshots	1.5			1	20,000	11,560	771	11,560	771
Telescreening	1.5			1	20,000	19,896	1,327	19,896	1,327
Responses	1.5			1	20,000	0	0	0	C
Other	1.5			1	20,000	0	0	0	C
Call Centre Service Charge	1.5			1	20,000	2,249	150	2,249	150

#### Staff Rates (hidden)

The Staff Rates cube holds Cost and Charge out rates for each type of staff by year. This data is used to calculate cost and income for visits, setup and meetings based how much time each type of staff will spend on activities.

## Patient Counts

The Patient Counts cube calculates patient counts by country based on data in the Recruitment Funnel tab.

Study Summary Recruitment 5	Strategy 🔛	Recruitme	nt Funnel	R	ecruitment Budg	get Patient Counts	Setup Costs
Rows: [Patient Counts]		ns: Country]				Context: CC 10004 - 114 Study - P [E]	h III Double Blind - Ranc list]
	otal Countries	UK	US	France	Germany		
Total Patients	100	25	50	25	0		
Total to Run in	125	31	63	31	0		
Total to Screen	156	39	78	39	0		
Total to Pre Screen	260	65	130	65	0		
Total to Telescreen	521	130	260	130	0		
Total Responses	2,083	521	1,042	521	0		
Subset Patients	0	0	0	0	0		
Subset to Run in	0	0	0	0	0		
Subset to Screen	0	0	0	0	0		
Subset to Pre Screen	0	0	0	0	0		
Subset to Telescreen	0	0	0	0	0		
Subset Responses	0	0	0	0	0		
Total less Subset Patients	100	25	50	25	0		
Total less Subset to Run in	125	31	63	31	0		
Total less Subset to Screen	156	39	78	39	0		
Total less Subset to Pre Screen	260	65	130	65	0		
Total less Subset to Telescreen	521	130	260	130	0		
Total less Subset Responses	2,083	521	1,042	521	0		

#### Setup Costs

The number of minutes per site that each type of staff spends on the different setup activities is collected on the Setup Costs tab. The cost per site is calculated based on the minutes input.

Number of minutes per site Number of minutes per site Cost per site	: [Setu	p Activity]	]	CC10004 -	114 Study - Ph I [Elist]	II Double B	lind - Rand 🚽	Contracte [Version]	ed 👻 🗄 [Co	JK untry]
Number of minutes per site Number of minutes per site Cost per site	Total	Ethics	Recruitment Planning	Internal Training	Prestudy Visits	Initiations	Protocol Review	Jobsheet	Telescreen	GP Informati
Number of minutes per site Number of minutes per site Research Nurse Clinical Trials Technicia Data Coordinator Administrator Project Manager Project Manager Project Director Medical Director Head of Administration Operations Director Cost per site Research Physician Site Director Research Physician Site Director Senior Nurse Research Nurse	3,405	90	195	210	90	1,200	725	105	60	
Number of minutes per site Number of minutes per	340	0	0	30	0	180	120	0	0	
Aumber of minutes per site Aumber of minutes per site Aumber of minutes per site Administrator Project Manager Projects Director Medical Director Head of Administration Operations Director Cost per site Administration C	540	30	45	30	90	120	120	15	30	
Iumber of minutes per site Iumber of minutes per	330	0	0	30	0	120	120	60	0	
Clinical Trials Technicial Lumber of minutes per site Lumber of minutes per site Lumber of minutes per site Lumber of minutes per site Clinical Trials Technicial Data Coordinator Project Manager Projects Director Medical Director Medical Director Medical Director Medical Director Medical Director Director Ensearch Physician Site Director Senior Nurse Research Nurse	440	0	0	30	0	240	120	0	0	
Lumber of minutes per site Lumber of minutes per site Data Coordinator Administrator Project Manager Projects Director Medical Director Head of Administration Operations Director East Total Research Physician Site Director Senior Nurse Research Nurse	ian <b>150</b>	0	0	30	0	120	0	0	0	
Administrator Project Manager Projects Director Medical Director Head of Administration Operations Director Total Research Physician Site Director Senior Nurse Research Nurse	420	0	0	30	0	180	120	0	0	
Project Manager         Projects Director         Medical Director         Head of Administration         Operations Director         Image: Total         Research Physician         Site Director         Senior Nurse         Research Nurse         Research Nurse	270	0	0	30	0	240	0	0	0	
Projects Director         Medical Director         Head of Administration         Operations Director         Image: Total         Research Physician         Site Director         Senior Nurse         Research Nurse	605	60	60	0	0	0	60	30	30	
Medical Director       Head of Administration       Operations Director       Image: Total       Research Physician       Site Director       Senior Nurse       Research Nurse	180	0	15	0	0	0	45	0	0	
Head of Administration Operations Director Total Research Physician Site Director Senior Nurse Research Nurse	40	0	15	0	0	0	20	0	0	
Operations Director Total Research Physician Site Director Senior Nurse Research Nurse	on 45	0	45	0	0	0	0	0	0	
Total     Research Physician     Site Director     Senior Nurse     Research Nurse	45	0	15	0	0	0	0	0	0	
ost per site Research Physician Site Director Senior Nurse Research Nurse	947	29	65	52	37	283	214	28	20	
Site Director Senior Nurse Research Nurse	139	0	0	12	0	74	49	0	0	
ost per site Senior Nurse Research Nurse	221	12	18	12	37	49	49	6	12	-
Research Nurse	75	0	0	7	0	27	27	14	0	
	88	0	0	6	0	48	24	0	0	
Clinical Trials Technicia	ian 24	0	0	5	0	19	0	0	0	
Data Coordinator	73	0	0	5	0	31	21	0	0	
Administrator	39	0	0	4	0	35	0	0	0	

#### Setup Fees

Income per Site is input by version and country on the Setup Fees tab and combined with the Cost per Site that was collected and calculated on the previous tab to generate the Setup Margin calculations.

Study Summary	Recruitment Strategy	Recruitment Funnel	Recruitment Budget	Patient Counts	Setup Costs	E Setup Fees	Visits Setup	» 21 — 🗆
Rows:	Calc]	Columns: [Setup Fees]	Con	text: CC10004 - 114 Study -	Ph III Double Blind · Elist]	Rand - Contra [Versi	cted VK [Country]	•
Number of Sites	Study Activities Sites							4
Income per Site	2,000							
Cost per Site	947							
Income	2,000							
Costs	947							
Margin	1,053							
Margin %	52.7%							

#### Visits Setup

In the Visits Setup tab, a user can enter information about up to 25 different visits. Inputs include a Visit Description, Day of Visit, Visit Type, Select Number of Patients, % of Patients and Patient # Override. The Day of Visit Selected is used to calculate the start and end date for that particular visit and to allocate income and costs to the corresponding months later in the model. The Visit Type is used to consolidate by visit type on the P&L and Cash Flow tab. The remaining fields enable the selection of the appropriate number of patients attending each visit. A selection can be made from the Select Number of Patients drop down, thus pulling in the patient number corresponding to that selection from the Patient Counts tab. Patient counts can be further customized using the % of Patients field and the Patient # Override field.

IIII Rea	ruitment Funnel	Recruitment Budget	Counts III S	etup Costs	Setup Fees	/isits Setup	/isits Staff Requirements	»_ [
Rows:		Columns:		(	Context:			
: [Ger	neric Numbers 1-	25]	and Patient Calc	3	CC10004 - 1145	Study - Ph III Double   [Elist]	Blind - Rand - Contract [Version	ted ▼ UK [Country] ▼
	Visit Description	Day of Visit (from Recruitment Start Date)	Visit Type	Start Recruitment	Visit Begin Date	Visit Duration (Days)	Select Number of Patients	Selected # of Patients % of
🖃 Total		4,071				1,125		354
1	VisitPreScreen	(14)	Pre Screen	01-09-2009	18-08-2009	45	Total to Pre Screen	65
2	Visit1	0	Screen	01-09-2009	01-09-2009	45	Total to Screen	39
3	Visit2	90	Randomization	01-09-2009	30-11-2009	45	Total Patients	25
4	Visit3	180	Randomization	01-09-2009	28-02-2010	45	Total Patients	25
5	Visit4	225	Randomization	01-09-2009	14-04-2010	45	Total Patients	25
6	Visit5	270	Randomization	01-09-2009	29-05-2010	45	Total Patients	25
7	Visit6	365	Randomization	01-09-2009	01-09-2010	45	Total Patients	25
8	Visit7	455	Randomization	01-09-2009	30-11-2010	45	Total Patients	25
9	Visit8	545	Randomization	01-09-2009	28-02-2011	45	Total Patients	25
10	Visit9	590	Randomization	01-09-2009	14-04-2011	45	Total Patients	25
11	Visit10	635	Randomization	01-09-2009	29-05-2011	45	Total Patients	25
12	Visit11	730	Randomization	01-09-2009	01-09-2011	45	Total Patients	25
13		0		01-09-2009	01-09-2009	45		0
14		0		01-09-2009	01-09-2009	45		0
15		0		01-09-2009	01-09-2009	45		0
16		0		01-09-2009	01-09-2009	45		0
17		0		01-09-2009	01-09-2009	45		0
18		0		01-09-2009	01-09-2009	45		0 -
19		0		01-09-2009	01-09-2009	45		0
20		0		01-09-2009	01-09-2009	45		0
21		0		01-09-2009	01-09-2009	45		0
4100		•		01.00.0000	01 00 3000	AF		

#### Visits Staff Requirements

The Visits Staff Requirements tab is used to enter the number of minutes each staff type is expected to spend on each visit. In the view below, the visits are set up as the columns with the Visit Description and the Day of Visit showing up as the first two rows on the tab. When the user enters the number of minutes required from each staff type for each visit, the Staff Costs and Staff Income calculate below for each visit.

Recruitment Budget Patient C	ounts 🛛 🛄 Setup Cost	s 🗐	Setup Fees	Visits Se	etup 🔡	Visits S	taff Requ	irements	In 🏢	vestigator	Fee Incom	ie	2	2 _ □
towes: Columns: [Visits Staff Reqts Calc] [Staff Positions] Columns: [Generic Numbers 1-25] Context: [Context: [Context: [Context: [Context: [Context: [Elist] Context: [Elist] Context: [Context														
		🖃 Total	1	2	3	4	5	6	7	8	9	10	11	1
Visit Description	Research Physician		VisitPreScreen	Visit1	Visit2	Visit3	Visit4	Visit5	Visit6	Visit7	Visit8	Visit9	Visit10	Visit
Day of Visit (from Recruitment Start Date)	Research Physician	4,071	(14)	0	90	180	225	270	365	455	545	590	635	
	🖃 Total	1,075	60	155	40	125	125	125	40	135	45	70	85	
	Research Physician	160	30	30	0	20	20	20	0	30	0	0	10	
Time (Mins.)	Research Nurse	305	0	60	10	40	40	40	10	40	15	20	10	
	Data Coordinator	400	20	40	20	40	40	40	20	40	20	40	40	
	Administrator	210	10	25	10	25	25	25	10	25	10	10	25	
	- Total	226	17	35	7	27	27	27	7	31	8	12	17	
	Research Physician	65	12	12	0	8	8	8	0	12	0	0	4	
Staff Costs	Research Nurse	61	0	12	2	8	8	8	2	8	3	4	2	
	Data Coordinator	69	3	7	3	7	7	7	3	7	3	7	7	
	Administrator	31	1	4	1	4	4	4	1	4	1	1	4	
	🖃 Total	353	24	53	12	42	42	42	12	47	13	21	27	
	Research Physician	84	16	16	0	11	11	11	0	16	0	0	5	
Staff Income	Research Nurse	97	0	19	3	13	13	13	3	13	5	6	3	
	Data Coordinator	116	6	12	6	12	12	12	6	12	6	12	12	
	Administrator	55	3	7	3	7	7	7	3	7	3	3	7	

#### Investigator Fee Income

The Investigator Fee Income tab combines the number of visits (entered on the Visits Setup tab) with the income and cost per visit data (calculated on the Visits Staff Requirements tab) to calculate income and cost per visit. The user can override or adjust the Income per Visit, if desired.

Pat	ient Counts	Setup Costs	Setup Fees	Visits	Setup Visits Staff Requi	rements	Investigator	Fee Income	Call Cen	tre Pas	s Throughs
ws: [Ge	eneric Numbers	1-25]		s; r Visit Margin	Calc]	CC 10004 -	114 Study - Ph II [Elist]	II Double Blind	-Rand -	ontracted [Version]	UK [Country]
_(	Visit Descriptio	n Number of Visits	Income per Visit	Adjustment	Adjusted Income per Visit	Cost per Visit	Total Income	Total Costs	Total Margin	Margin %	
Tota		329	353.33	0.00	353.33	226.21	9,945	6,403	3,542	443.9%	
1	VisitPreScreen	n 40	24.29	0.00	24.29	17.19	971	688	284	29.2%	
2	Visit1	39	53, 17	0.00	53.17	34.84	2,077	1,361	716	34.5%	
3	Visit2	25	11.64	0.00	11.64	6.91	291	173	118	40.6%	
4	Visit3	25	41.52	0.00	41.52	26.74	1,038	669	370	35.6%	
5	Visit4	25	41.52	0.00	41.52	26.74	1,038	669	370	35.6%	
6	Visit5	25	41.52	0.00	41.52	26.74	1,038	669	370	35.6%	
7	Visit6	25	11.64	0.00	11.64	6.91	291	173	118	40.6%	
8	Visit7	25	46.80	0.00	46.80	30.83	1,170	771	399	34.1%	
9	Visit8	25	13.23	0.00	13.23	7.91	331	198	133	40.2%	
10	Visit9	25	20.65	0.00	20.65	12.37	516	309	207	40.1%	
11	Visit10	25	26,70	0.00	26.70	16.65	667	416	251	37.7%	
12	Visit11	25	20.65	0.00	20.65	12.37	516	309	207	40.1%	

#### Call Centre

The Call Centre tab calculates call center income and cost by seven different call center activities. The user can enter either a number of calls or number of centers and the associated costs and income per each call or center.

Patient Counts Setu	ip Costs 🛛 🛄 Setup F	ees 🛛 🛄 Visits Setup	Visits Staff Re	quirements 📗	Investigator F	ee Income	ll Centre	Pass Thr	oughs	» 21 — [
[Call Centre]	Coli	Imns: [Call Centre Calc]		Context:	114 Study - Ph [Elist	III Double Blind - Ran	d 🗕 🕻 Co	ntracted Version]	UK [Country]	•
N	umber of Calls/Centres	Income per Call/Centre	Cost per Call/Centre	Total Income	Total Cost					
Total Call Centre				3,625.00	2,918.75					
Protocol Calls	50	1.00	0.75	50.00	37.50					
Attempted Protocol Calls	25	1.00	0.75	25.00	18.75					
Telescreen	500	1.00	0.75	500.00	375.00					
Appointment Confirmation	500	1.00	0.75	500.00	375.00					
DNA Calls	50	1.00	0.75	50.00	37.50					
Retention Calls	100	1.00	0.75	100.00	75.00					
Call Centre Setup	1	2,400.00	2,000.00	2,400.00	2,000.00					

#### Pass Throughs

In the Pass Throughs tab, the user can enter pass throughs for Patient Expenses, Patient Payments or GP SDVs for any visits. A percentage of total patients attending a visit can be selected or 100% can be input to apply the pass through to all patients. Income per Visit and Cost per Visit are inputs for each visit.

II Set	tup Costs	Setup Fees 🛛 🛄 Visits Setu	ip 🔛 Visits	Staff Requirements	Investigator	Fee Income	Call Centre	E Pass T	hroughs	Archivin	g »
i [Ge	eneric Numbers 1-	-25]	lumns: Pass Throug	hs Calc]		rt: 10004 - 114 Sti	udy - Ph III Doub [Elist]	le Blind - Rand	▼ : Co	ntracted Version]	UK [Country]
_(	Visit Description	Number of Patients this Visit	% of Patients	Number of Patients	Income per Visit	Costs per Visit	Total Income	Total Costs	Margin	Margin %	
Tota		329	200%	64	150	140	5,156	4,906	250	20%	
1	VisitPreScreen	40	0%	0	0	0	0	0	0	0%	
2	Visit1	39	100%	39	100	100	3,906	3,906	0	0%	
3	Visit2	25	0%	0	0	0	0	0	0	0%	
4	Visit3	25	0%	0	0	0	0	0	0	0%	
5	Visit4	25	0%	0	0	0	0	0	0	0%	
6	Visit5	25	0%	0	0	0	0	0	0	0%	
7	Visit6	25	100%	25	50	40	1,250	1,000	250	20%	
8	Visit7	25	0%	0	0	0	0	0	0	0%	
9	Visit8	25	0%	0	0	0	0	0	0	0%	
10	Visit9	25	0%	0	0	0	0	0	0	0%	
11	Visit10	25	0%	0	0	0	0	0	0	0%	
12	Visit11	25	0%	0	0	0	0	0	0	0%	

#### Archiving

The Archiving tab enables a user to calculate Archiving Income and Cost either by patient or by site. If ECRF is set to **Yes**, the calculation is by site, if ECRF is set to **No**, the calculations are by patient. The user enters an Income by patient or site and Costs per patient or site are automatically set to equal the Income by patient or Site.

Setup Fees	Visits Setup	Visits Staff	Requiremen	nts 🛄	Investigato	Income 🔲 Call Centre 🔛 Pass Throughs 👯 Archiving 🛄 Project Manageme
Rows: [Archiving Calc]			umns: [Country]	]		Context: CC 10004 - 114 Study - Ph III Double Blind - Rand V Contracted V Archiv [Elist]
1	Total Coun	ries UK	US	France	Germany	
# of patients at each s	ite	75 25	25	25	0	
# of sites		4 1	2	1	0	
ECRF						
Income per patient/site	e (* 194	100 100	100	100	100	
Costs per patient/si	ite 4	100 100	100	100	100	
Total Income	10,0	00 2,500	5,000	2,500	0	
Total Costs	10,0	00 2,500	5,000	2,500	0	
Margin		0 0	0	0	0	
Margin %		0%	0%	0%	0%	

#### **Project Management**

The Project Management tab is where Project Management costs and income are calculated. There is a flag to set Project Management to chargeable. Until this field is set to **Yes**, the project management income and costs do not roll forward into any of the Summary tabs or the P&L. Inputs required are the Months (enter the number of months the project manager is needed on the study) and FTE Days/Week (the number of days/week utilization during the time the Project Manager is being utilized for the Study). Staff salaries and charge out rates link in from the hidden Staff Rates cube for the year recruitment started for the study.

					00//	5728B
Visits Staff Requirement	nts 🛛 🛄 Investiga	ator Fee Incom	ie 🖩 Call	Centre P	ass Throug	ns 🛛 Archiving 🔛 Project Management 🔛 Procedures 🖉 Reporting
Rows:	Calc]	Columns:	ect Managem	ent]		Context: CC10004 - 114 Study - Ph III Double Blind - Rand [Elist] Contracted [Contracted]
Total P	Project Management	Set-up phase	Recruitment	Study Duration	Close out	
Chargeable		Yes	Yes	Yes	Yes	
Months	16.5	2.0	1.5	12.0	1.0	
Weeks	66.0	8.0	6.0	48.0	4.0	
FTE days/Week	9.0	3.0	2.0	2.0	2.0	
Total Days	140	24	12	96	8	
Income per Day		174	174	174	174	
Costs per Day		121	121	121	121	
Total Income	24,311	4,168	2,084	16,670	1,389	
Total Costs	16,962	2,908	1,454	11,631	969	
Margin	7,349	1,260	630	5,040	420	
Margin %	121%	30%	30%	30%	30%	

#### Procedures

Up to 10 different procedures can be entered against each study on the Procedures tab. Each procedure is entered against the visit (columns in the example below) that the procedure relates to. Required inputs include Procedure Description (which allows selection from a drop down list of procedure types), Number of Procedures, Cost per Procedure and Charge Out per Procedure.

ows:		Co				Con	text:	- 114 Study	- Ph III D	ouble Blind	- Rand	Contr	acted _		21 -
[Generic Numbers 1-10]	[Proced	ures Calc]	Generic	Numbers 1	1-25]				[Elist]			[Ver	rsion]	[Country]	
	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Visit Description		VisitPreScreen	Visit1	Visit2	Visit3	Visit4	Visit5	Visit6	Visit7	Visit8	Visit9	Visit10	Visit11		
Day of Visit		(14)	0	90	180	225	270	365	455	545	590	635	730	0	0
Number of Patients	329	40	39	25	25	25	25	25	25	25	25	25	25	0	0
Procedure Description							СТ								
Number of Procedures	25	0	0	0	0	0	25	0	0	0	0	0	0	0	0
Cost per Procedure	250	0	0	0	0	0	250	0	0	0	0	0	0	0	0
Procedure Cost	6,250	0	0	0	0	0	6,250	0	0	0	0	0	0	0	0
Charge Out per Procedu	ire 350	0	0	0	0	0	350	0	0	0	0	0	0	0	0
Procedure Income	8,750	0	0	0	0	0	8,750	0	0	0	0	0	0	0	0
Margin	2,500	0	0	0	0	0	2,500	0	0	0	0	0	0	0	0
Margin %	29%	0%	0%	0%	0%	0%	29%	0%	0%	0%	0%	0%	0%	0%	0%
Procedure Description		Psychiatrist Close out													

#### Reporting

On the Reporting tab, required Inputs for all items, except CI reporting, include Description, Number of, Income per and Cost per. The required inputs for CI include Description, One-off Fee Income and One-off Fee Costs.

								-		-165		
Investigator Fee	Income 🛛 🛄 Cal	l Centre	Pass T	hroughs	Arch	iving 🗄	Project I	Management	Procedures	E Reporting	Investigator Meeting	» 21 —
Rows:			Columns:	ting]			с 	CC 10004 -	- 114 Study - Ph III I [Elist]	Double Blind - Rand	▼ Contracted ▼ [[C	UK ountry]
	Total Reporting	SAE's	Pregnancy	CI	Endpoints	Ad Hoc	Ad Hoc 2	Ad Hoc 3				
Description												
Number of	30	0	0	0	5	25	0	0				
Income per	300	0	0	0	200	100	0	0				
Costs per	250	0	0	0	200	50	0	0				
One-off Fee Income	4,200	0	0	4,200	0	0	0	0				
One-off Fee Costs	0	0	0	0	0	0	0	0				
Total Income	7,700	0	0	4,200	1,000	2,500	0	0				
Total Costs	2,250	0	0	0	1,000	1,250	0	0				
Margin	5,450	0	0	4,200	0	1,250	0	0				
Margin %	150%	0%	0%	100%	0%	50%	0%	0%				

#### **Investigator Meeting**

The Investigator Meeting tab enables the entry of how many of each staff type must attend the investigator meeting and how many days they must attend. Cost per day and Charge out rate per day feed in from the Staff Rates cube.

Call Centre 🛛 🛄 Pass	Throughs III Arc	niving 🛛	Project Manage	ement 🛛 🎹 Pro	cedures 🛛	Reporting	: Inv	estigator Meeti	ng 🔛 Advance Cash	21 – C
[Staff Positions]		Columns:	stigator Meeting (	Calc]	Conte	xt: C10004 - 114	Study - Ph [Elis	III Double Blind - F t]	Rand  Contracted Version	
N	umber of Employees	Total Days	Income per Day	Total Income	Cost per Day	/ Total Cost	Margin	Margin %		
Total	2	4	2,824.50	541.17	3,204.05	331.15	210.02	78%		
Research Physician			234.23	0.00	181.73	0.00	0.00	0%		
Site Director			234.23	0.00	181.73	0.00	0.00	0%		
Senior Nurse			153.46	0.00	100.96	0.00	0.00	0%		
Research Nurse	1	2	141.35	282.70	88.85	177.69	105.01	37%		
Radiographer			153,46	0.00	100.96	0.00	0.00	0%		
Clinical Trials Technician			122.77	0.00	70.27	0.00	0.00	0%		
Data Coordinator	1	2	129.23	258.47	76.73	153.46	105.01	41%		
Administrator			117.12	0.00	64.62	0.00	0.00	0%		
Project Manager			173.65	0.00	121.15	0.00	0.00	0%		
Projects Director			234.23	0.00	181.73	0.00	0.00	0%		
Medical Director			254.43	0.00	201.92	0.00	0.00	0%		
Marketing Assistant			125.19	0.00	72.69	0.00	0.00	0%		
Head of Administration			153.46	0.00	100.96	0.00	0.00	0%		

#### Advance Cash

The Advance Cash tab is used to capture data on expected cash receipts. Required inputs include Advance Cash Type (which is a drop-down list showing available cash advance categories), Month and Amount. The Advance Cash detail then feeds forward to the P&L and Cash Flow tab.

			feethanagement	HI Procedures	Reporting	Investigator Meeting	Advance Cash	Contract Summary	21 - 🗆
: Generic Numbers	1-10]		Columns:	Cash]	c 	CC10004 - 114 Study - Pi [Eli	h III Double Blind - Rand - st]	Contracted [Version]	
dvance Cash Ty	pe Month	Amount							*
etup	▼ Jun-2009	40,000							
lecruitment	Sep-2009	100,000							
nvestigator Fees	Dec-2009	200,000							
		0							
		0							
		0							
		0							
		0							
		0							
		0							
	Ivance Cash Tyj tup ecruitment ivestigator Fees	Vance Cash Type Month tup value Jun-2009 ecruitment Sep-2009 vestigator Fees Dec-2009	Vance Cash Type         Month         Amount           tup         Jun-2009         40,000           ecruitment         Sep-2009         100,000           vestigator Fees         Dec-2009         200,000           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0	Vance Cash Type         Month         Amount           ±tup         Jun-2009         40,000           ecruitment         Sep-2009         100,000           vestigator Fees         Dec-2009         200,000           0         0         0           0         0         0           0         0         0           0         0         0	Vance Cash Type         Month         Amount           tup         Jun-2009         40,000           ecruitment         Sep-2009         100,000           vestigator Fees         Dec-2009         200,000           0         0         0           0         0         0           0         0         0           0         0         0	Vance Cash Type         Month         Amount           tup         Jun-2009         40,000           ecruitment         Sep-2009         100,000           vestigator Fees         Dec-2009         200,000           0         0         0           0         0         0           0         0         0           0         0         0	Vance Cash Type         Month         Amount           tup         Jun-2009         40,000           ecruitment         Sep-2009         100,000           vestigator Fees         Dec-2009         200,000           0         0         0           1         0         0           2         0         0           3         0         0           1         0         0           1         0         0	Vance Cash Type         Month         Amount           tup         Jun-2009         40,000           ecruitment         Sep-2009         100,000           vestigator Fees         Dec-2009         200,000           0         0         0           1         0         0           0         0         0           1         0         0           0         0         0           1         0         0	Vance Cash Type         Month         Amount           tup         Jun-2009         40,000           ecruitment         Sep-2009         100,000           vestigator Fees         Dec-2009         200,000           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0

#### **Contract Summary**

The Contract Summary tab consolidates all previously collected data to show an overall total contract value. Additional Costs, Other Costs and Other Upfront Payments can be manually entered as needed.

					L'um San	r en la compañía de l				an and a second second	» _
Archiving IIII Project Managem	ient 🛛 🎹 Procedures 🗧 🎹 R	eporting	IIII Investig	ator Meeting	Adva Adva	ince Cash	: Contrac	t Summary	IIII Summary Fo	precast	21 - 🗆
Rows:	Columns:	nary Calc]	]	Conte	xt: 210004 - 114	f Study - Ph [Elis	III Double Blind t]	I - Rand 🖵	[Version]	UK [Country]	•
	Visit/Cost/Payment Description	Day	Estimated. #	Fee	Total						
Number of Countries			1		0						
Number of Centres			1		0						
Number of Chats			65		0						
Number of Screens			39		0						
Number of Rands (total)			31		0						
1	VisitPreScreen	(14)	40	24.29	971						
2	Visit1	0	39	53.17	2,077						
3	Visit2	90	25	11.64	291						
4	Visit3	180	25	41.52	1,038						
5	Visit4	225	25	41.52	1,038						
6	Visit5	270	25	41.52	1,038						
7	Visit6	365	25	11.64	291						
8	Visit7	455	25	46.80	1,170						
9	Visit8	545	25	13.23	331						
10	Visit9	590	25	20.65	516						
11	Visit10	635	25	26.70	667						
12	Visit11	730	25	20.65	516						
Total Estimated Investigator Fee			329	353.33	9,945						
Patient Expenses			64	80,49	5,156						
Recruitment Budget			1	160,000.00	160,000						
Call Centre - Protocol Calls			50	1.00	50						
Call Centre - Attempted Protocol Calls			25	1.00	25						
			•	2 400 00	3 400						•

		1.000 APR	1 IIII		I IIII a t
Archiving   III Project Managen	ent   IIII Procedures   IIII R	eporting	Investig	jator Meeting	Adva
Rows:	Columns:	nary Calc]	]	Conte	xt: C10004 - 11
	Visit/Cost/Payment Description	Day	Estimated. #	Fee	Total
11	Visit10	635	25	26.70	667
12	Visit11	730	25	20.65	516
Total Estimated Investigator Fee			329	353.33	9,945
Patient Expenses			64	80.49	5,156
Recruitment Budget			1	160,000.00	160,000
Call Centre - Protocol Calls			50	1.00	50
Call Centre - Attempted Protocol Calls			25	1.00	25
Call Centre - Call Centre Setup			1	2,400.00	2,400
Call Centre - Telescreen			500	1.00	500
Call Centre - Appointment			500	1.00	500
Call Centre - DNA Calls			50	1.00	50
Call Centre - Retention Calls			100	1.00	100
Procedures			25	350.00	8,750
Study Archive Costs			25	100.00	2,500
Startup Payments (Non-refundable)			1	2,000.00	2,000
Project Management Fees			140	0.00	0
Reporting - CI			1	4,200.00	4,200
Reporting - Endpoints			5	200.00	1,000
Reporting - Ad Hoc			25	100.00	2,500
Investigator Meeting			4	135.29	541
<b>Overall Estimated Contract Value</b>			1,846	*****	200,218
Start-up Payment			1	2,000.00	2,000
Total Up Front Payments			1	2,000.00	2,000
4					

#### **Summary Forecast**

The Summary Forecast consolidates and breaks out the entered data by month based on these assumptions for spreading the different costs:

- Set-up Fees month prior to FPFV
- Visits from visit start to visit end dates
- Recruitment Budget from Start Recruitment for length of recruitment
- Call Centre month prior to FPFV
- Archive month after LPLV
- Project Management from Stop Recruitment date for length of Study Duration
- Reporting from Stop Recruitment date for length of Study Duration
- Investigator Meeting month prior to FPFV
- Procedures from corresponding visit start to visit end dates
- Patient Payments from Stop Recruitment date for length of Study Duration
- Patient Expenses from Stop Recruitment date for length of Study Duration
- GP SDVs from Start Screens date to Start Run Ins date
- Other Costs from Stop Recruitment date for length of Study Duration

Procedures	Reporting	Investigato	r Meeting	Advan	ce Cash 🛛 🗐	Contract Summary	E Summary	Forecast	Summary F	Forecast - Visits		» 🗆
Rows:	cast]	c 	olumns:	Forecast C	alc]	CC 10	004 - 114 Study - P [Ei	h III Double I ist]	Blind - Rand 👻	Contracted [Version]	UK [Country]	» 1
	Description	Visit Type	Begin Date	Duration	End Date	Total Amount Thi	s Period Amount					-
Set-up Fees Income			16-09-2009	1	17-09-2009	2,000						
Set-up Fees Costs			16-09-2009	1	17-09-2009	947						
1	VisitPreScreen	Pre Screen	18-08-2009	45	02-10-2009	971						
2	Visit1	Screen	01-09-2009	45	16-10-2009	2,077						
3	Visit2	Randomization	30-11-2009	45	14-01-2010	291						
4	Visit3	Randomization	28-02-2010	45	14-04-2010	1,038						
5	Visit4	Randomization	14-04-2010	45	29-05-2010	1,038						
6	Visit5	Randomization	29-05-2010	45	13-07-2010	1,038						
7	Visit6	Randomization	01-09-2010	45	16-10-2010	291						
8	Visit7	Randomization	30-11-2010	45	14-01-2011	. 1,170						
9	Visit8	Randomization	28-02-2011	45	14-04-2011	331						
10	Visit9	Randomization	14-04-2011	45	29-05-2011	. 516						
11	Visit10	Randomization	29-05-2011	45	13-07-2011	. 667						
12	Visit11	Randomization	01-09-2011	45	16-10-2011	516						
13			01-09-2009	45	16-10-2009	E						
14			01-09-2009	45	16-10-2009	·						
15			01-09-2009	45	16-10-2009	í.						
16			01-09-2009	45	16-10-2009	6						
17			01-09-2009	45	16-10-2009	к (						
18			01-09-2009	45	16-10-2009	l						
19			01-09-2009	45	16-10-2009	l i						
20			01-09-2009	45	16-10-2009	F						
4			01.00.0000	AF	10 10 2000							F
											Current Owne	r: rvanlier

in the second	TITLE CONTRACTOR OF A CONTRACTOR							A CONTRACTOR				» _
Procedures	IIII Reporting	Investigato	r Meeting	H Advan	ce Cash 🛛 📖	Contract Summa	ry 👔 Summary F	Forecast	Summary F	Forecast - Visits		22 - 🗆
Rows:		c	olumns:		_	Conte	t:	TTT De Lle		Contracted	1112	>>
Summary Fore	ecast]		[Summary	Forecast C	alc]		10004 - 114 Study - Pr. [Elis	st]	Bling - Rang	[Version]	[Country]	1
r	1		1	1						· · · · · · · · · · · · · · · · · · ·	-	Teneral
	Description	Visit Type	Begin Date	Duration	End Date	Total Amount 1	his Period Amount					<b>_</b>
1	VisitPreScreen	Pre Screen	18-08-2009	45	02-10-2009	688						
2	Visit1	Screen	01-09-2009	45	16-10-2009	1,361						
3	Visit2	Randomization	30-11-2009	45	14-01-2010	173						
4	Visit3	Randomization	28-02-2010	45	14-04-2010	669						
5	Visit4	Randomization	14-04-2010	45	29-05-2010	669						
6	Visit5	Randomization	29-05-2010	45	13-07-2010	669						
7	Visit6	Randomization	01-09-2010	45	16-10-2010	173						
8	Visit7	Randomization	30-11-2010	45	14-01-2011	771						
9	Visit8	Randomization	28-02-2011	45	14-04-2011	198						
10	Visit9	Randomization	14-04-2011	45	29-05-2011	309						
11	Visit10	Randomization	29-05-2011	45	13-07-2011	416						
12	Visit11	Randomization	01-09-2011	45	16-10-2011	309						
13			01-09-2009	45	16-10-2009							
14			01-09-2009	45	16-10-2009							
15			01-09-2009	45	16-10-2009							
16			01-09-2009	45	16-10-2009							
17			01-09-2009	45	16-10-2009							
18			01-09-2009	45	16-10-2009							
19			01-09-2009	45	16-10-2009							
20			01-09-2009	45	16-10-2009							
21			01-09-2009	45	16-10-2009							
22			01-09-2009	45	16-10-2009							
23			01-09-2009	45	16-10-2009							-
4												•

#### Summary Forecast – Visits

This tab allocates the total number of visits over the months based on the same proportion as the visits income to the months on the Summary Forecast tab.

Investigator Me	eting Advance Cash Columns:	Contract Summary	Context:	Summary Forecast - Visits	Resource Rec	uirements	» □
Numbers 1-25]	Columns:	Econt Visite Colol	Context:				
		FCast-visits Calcj	CC10004 - 114	4 Study - Ph III Double Blind - Rand [Elist]	[Version]	UK [Country]	× 1
cription Visit Type	This Period Amount						
eScreen Pre Screen	0						
Screen	0						
Randomization	0						
Randomization	0						
Randomization	0						
Randomization	0						
Randomization	0						
Randomization	0						
Randomization	0						
Randomization	0						
0 Randomization	0						
1 Randomization	0						
-e	Iscreen         Pre Screen           Screen         Randomization           Randomization         Randomization	Screen       0         Screen       0         Randomization       0	Screen     0       Screen     0       Randomization     0	ScreenPre Screen0Screen0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0	ScreenPre Screen0Screen0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0	ForcenPre Screen0Screen0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0	Pre ScreenPre Screen0Screen0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0Randomization0

#### **Resource Requirements**

The Resource Requirements tab calculates the number of hours each type of staff is required to handle the forecasted visits. This tab is monthly and by clinic. The country data is allocated to clinics based on the percent allocation to each clinic that is entered in the Site Allocation tab.

Advance Cash	Contract Summary	/ Bummary Foreca	ast 🛛 🛄 Summary F	orecast - Visits	Resourc	e Require	ments	III Site A	llocation			» 🗆
Rows:	]	Columns:		Context	Contracted sion w Capacit		ancashire [Clinic]	•				» 2
	Jan-2009 Feb-20	009 Mar-2009 Apr-2009	May-2009 Jun-2009	Jul-2009 Aug-200	9 Sep-2009	Oct-2009	Nov-2009	Dec-2009	Total 2009	Jan-2010	Feb-2010	Mar-2010
🗖 Total				1	9 80	21	1	26	147	11	1	26
Research Physician	n				3 13	3		4	24	2		4
Site Director												
Senior Nurse												
Research Nurse					5 23	6		7	42	3		7
Radiographer												
Clinical Trials Techr	nician											
Data Coordinator					7 29	8		9	53	4		9
Administrator					4 15	4		5	28	2		5
Project Manager												
Projects Director												
Medical Director												
Marketing Assistan	nt											
Head of Administra	ation											
Operations Directo	or											
Call Centre Charge	es											
Call Centre 2												
Locum Dr												
Locum RN												
Locum DC												
Locum Admin												

#### Site Allocation

The Site Allocation tab is used to allocate the forecast that was created by country to the appropriate clinics that will be participating in the study. This is accomplished by entering either the number of expected rands by clinic or by entering the percentage of the total country's rands for each clinic. Two checks are built into this tab to ensure that the correct number of sites and the correct number of rands have been allocated to the sites. The first check makes sure that the Sites Allocated Field for each country total equals the Total Sites to Allocate field for that country. The second check makes sure that the number of rands for each country total equals the Total Rands to Allocate for that country.

11218	(185).	1111172010			1		
Contract Summary	🔢 Summary Forecast	Summary Fo	orecast - Visits 🛛 🛄 Re	esource Req	uirements 🗄 Site Alloca	ation Recruitment Allocation	» 🗆
Rows:		Columns:	n]	Co	ntext: CC10004 - 114 Study - Ph I [Elist]	II Double Blind - Rand	
	Total Sites to Allocate	Sites Allocated	Total Rands to Allocate	# of Rands	% of Country Allocation		<u>_</u>
Total Clinics	2 	4		100	300%		
Total UK Clinics	1	1	25	25	100%		
Lancashire		1		25	100%		
Manchester							
Midlands							
Total US Clinics	2	2	50	50	100%		
Chicago		1		25	50%		
Orlando		1		25	50%		
Total France Clinics	1	1	25	25	100%		
Paris		1		25	100%		
Lyon							
Total Germany Clinics							
Berlin							
Frankfurt							
						9	

#### **Recruitment Allocation**

The Recruitment Allocation tab is used to allocate recruitment over the recruitment period. If the week falls in the recruitment period, the Ongoing field will be set to **Yes** and a number of rands can be entered in that week. By scrolling all the way to the right, a Total to Allocate column is available and can be compared to the Total Years column to ensure that the forecast number of rands was appropriately allocated to each clinic. If the number of rands entered does not match the Total to Allocate, the model will use the proportion allocated to each week and will allocate the correct number of rands by calculating each week's proportion to total entered.

III Summary Forecast	Summar	y Forecast - Vi	sits 🛛 🔠 Re	source Requir	ements 🛛	Site Allocatio	n 🗄 Rec	ruitment All	ocation	Weekly Enr	ollment		23 - C
Rows:		c 	[Week]			Conte	xt: Randomization isit Type no Tot	a] - CC1	0004 - 114 Stu	udy - Ph III Do [Elist]	uble Blind - Ra	and 🗸	
	1/2/2009	1/9/2009	1/16/2009	1/23/2009	1/30/2009	2/6/2009	2/13/2009	2/20/2009	2/27/2009	3/6/2009	3/13/2009	3/20/2009	3/27/2
Start Visits	01-Sep-09	01-Sep-09	01-Sep-09	01-Sep-09	01-Sep-09	01-Sep-09	01-Sep-09	01-Sep-09	01-Sep-09	01-Sep-09	01-Sep-09	01-Sep-09	01-Sep
Duration	45	45	45	45	45	45	45	45	45	45	45	45	
Stop Visits	16-0ct-09	16-0ct-09	16-0ct-09	16-0ct-09	16-0ct-09	16-0ct-09	16-0ct-09	16-0ct-09	16-0ct-09	16-0ct-09	16-0ct-09	16-0ct-09	16-0cl
Ongoing?	No	No	No	No	No	No	No	No	No	No	No	No	No
Lancashire	0	0	0	0	0	0	0	0	0	0	0	0	
Manchester	0	0	0	0	0	0	0	0	0	0	0	0	
Midlands	0	0	0	0	0	0	0	0	0	0	0	0	
Total UK Clinics	0	0	0	0	0	0	0	0	0	0	0	0	
Chicago	0	0	0	0	0	0	0	0	0	0	0	0	
Orlando	0	0	0	0	0	0	0	0	0	0	0	0	
Total US Clinics	0	0	0	0	0	0	0	0	0	0	0	0	
Paris	0	0	0	0	0	0	0	0	0	0	0	0	
Lyon	0	0	0	0	0	0	0	0	0	0	0	0	
Total France Clinics	0	0	0	0	0	0	0	0	0	0	0	0	
Berlin	0	0	0	0	0	0	0	0	0	0	0	0	
Frankfurt	0	0	0	0	0	0	0	0	0	0	0	0	
Total Germany Clinics	0	0	0	0	0	0	0	0	0	0	0	0	
Total Clinics	0	0	0	0	0	0	0	0	0	0	0	0	

#### Recruitment Cumulation (hidden)

The Recruitment Cumulation tab is used to allocate the correct proportion of study participants to the correct clinics and periods. In the Recruitment Allocation tab, we spread rands across the weeks. Because Pre Screens, Screens and Run Ins must also be allocated, the Recruitment Cumulation is necessary as an interim step to pull out the rands by ongoing week number. Then, another link feeds the proportions by week back into the Recruitment Allocation tab for Pre Screens, Screens and Run Ins.

#### Weekly Enrollment

The Weekly Enrollment tab shows a view of new Pre Screens, Screens, Run Ins and Rands by week and can be used to adjust the enrollment by entering an Adjustment or by keying over the Final (adjust if necessary) field.

III Summary F	Forecast - Visits	Res	ource Requir	ements 🛛 🛄 Site Allocation	Recruitment A	location	III Weekly	Enrollment Uutreach P	erformance	» 23 – 🗆
Rows:	[Week]		Col	umns: [Visit Type no Total]	ollment Calc]	Context:	1004 - 114 St	udy - Ph III Double Blind - Rand [Elist]	Contracted	als] 💌
				Pre Screen				Screen	Run In Perio	
	]	Calculated	Adjustment	Final (adjust if necessary)	<b>Cumulative Final</b>	Calculated	Adjustment	Final (adjust if necessary)	Cumulative Final	Calculated Adjus
	7/17/2009	28	0	28	28	0	0	0	0	0
	7/24/2009	41	0	41	69	0	0	0	0	0
	7/31/2009	81	0	81	150	17	0	17	17	0
	8/7/2009	41	0	41	191	25	0	25	41	0
	8/14/2009	28	0	28	219	48	0	48	90	0
	8/21/2009	25	0	25	243	25	0	25	115	13
	8/28/2009	17	0	17	260	17	0	17	131	20
	9/4/2009	0	0	0	260	15	0	15	146	39
	9/11/2009	0	0	0	260	10	0	10	156	20
	9/18/2009	0	0	0	260	0	0	0	156	13
	9/25/2009	0	0	0	260	0	0	0	156	12
Total Clinics	10/2/2009	0	0	0	260	0	0	0	156	8
	10/9/2009	0	0	0	260	0	0	0	156	0
	10/16/2009	0	0	0	260	0	0	0	156	0
	10/23/2009	0	0	0	260	0	0	0	156	0
	10/30/2009	0	0	0	260	0	0	0	156	0
	11/6/2009	0	0	0	260	0	0	0	156	0
	11/13/2009	0	0	0	260	0	0	0	156	0
	11/20/2009	0	0	0	260	0	0	0	156	0
	11/27/2009	0	0	0	260	0	0	0	156	0
	12/4/2009	0	0	0	260	0	0	0	156	0
•		-				1	-	-		

#### **Outreach Performance**

The Outreach Performance tab shows the cost of additional recruitment for each recruiting method. It helps users analyze increasing recruitment if Actual recruitment falls below forecast recruitment.

Resource Requirements Site	Allocation	III Recrui	tment Alloc	ation 🛄 V	Veekly Enrol	lment 🚦	Outreach Performance	Summary Summary	- Margin 🚬 🚬 🗖
Rows:	C	Nersion	w Actuals a	nd Variances]	ľ	Context:	004 - 114 Study - Ph III Double I	Blind - Rand 🚽 🚦 UK 🗣	
					] 	•	[Elist]	([Country]	
Number of City	Contracted	Budget	Forecast	Revised Plan	Scenario 1	Actuals	Var. Actuals to Contracted	Var. Actuals to Budget Var	•. Actuals to Forecast
Number of Sites	1	1	1	1	1	1	U	U	U
Database Malabate	30.0%	30.0%	30.0%	30.0%	30.0%	20 394	0.7%	0.7%	0.7%
CD Mellehete	30.0 %	30.0 %	25.09/	25.0%	25.0%	25,576	(0.504)	(0.5%)	(0.504)
GP Malishots	25.0%	25.0%	25.0%	25.0%	25.0%	20.0%	(0.3%)	(0.5%)	(0.3%)
Press / Radio	45.0%	45.0%	45.0%	45.0%	45.0%	45.2%	(0.2%)	(0.2%)	(0.2%)
Other	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total Recruitment Methods	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%	0.0%	0.0%
Recruitment Methods									
Database Mailshots (per site)	1,953	1,953	1,953	1,953	1,953	1,973	(20)	(20)	(20)
Database response rate %	2.00%	2.00%	2.00%	2.00%	2.00%	1.94%	0.06%	0.06%	0.06%
Database Mailshots (total)	1,953	1,953	1,953	1,953	1,953	1,973	(20)	(20)	(20)
Database Mailshots (total cost)	1,425	0	0	0	0	9,863	(8,439)	(9,863)	(9,863)
Database Mailshots (cost per unit)	0.73	0.00	0.00	0.00	0.00	5.00	(4.27)	(5.00)	(5.00)
GP Mailshots (per site)	1,302	1,302	1,302	1,302	1,302	1,276	26	26	26
GP Mailshot response rate %	2.50%	2.50%	2.50%	2.50%	2.50%	2.53%	(0.02%)	(0.02%)	(0.02%)
GP Mailshots (total)	1,302	1,302	1,302	1,302	1,302	1,276	26	26	26
GP Mailshots (total cost)	771	0	0	0	0	3,828	(3,057)	(3,828)	(3,828)
GP Mailshots (cost per unit)	0.59	0.00	0.00	0.00	0.00	3.00	(2.41)	(3.00)	(3.00)
Press / Radio (per site)	59	59	59	59	59	60	(2)	(2)	(2)
Press / Radio response rate %	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0.00%	0.00%
Press / Radio (total)	59	59	59	59	59	60	(2)	(2)	(2)
Press / Radio (total cost)	7,000	7,000	7,000	7,000	7,000	9,100	(2,100)	(2,100)	(2,100)
A (	*** **	*** **	*** **	110 47	110 47	150 70	/rt rt/	(11 11)	(24 22) ¥

## Summary

The Summary tab displays a summarized view of the forecast Income, Costs and Margin.

Resource Requirements	Site Allocati	ion 💷	Recruitmen	nt Allocation
Rows: [Summary]		Colum	ns: iummary Ca	lc]
	Income	Costs	Margin	Margin %
Additional Call Centre Requirements	1,225	919	306	25%
- Total	223,303	53,221	170,082	76%
Set Up Fees	2,000	947	1,053	53%
Investigator Fees	9,945	6,403	3,542	36%
Recruitment Budget	160,000	10,673	149,327	93%
Call Centre Setup	2,400	2,000	400	17%
Patient Expenses	5,156	4,906	250	5%
Patient Payments	0	0	0	0%
GP SDV's	0	0	0	0%
Archiving	2,500	2,500	0	0%
Project Management Fees	24,311	16,962	7,349	30%
Procedures	8,750	6,250	2,500	29%
Reporting	7,700	2,250	5,450	71%
Investigator Meeting	541	331	210	39%

## Summary – Margin

The Summary Margin tab shows a summarized view of the forecast, displaying Revenue, Costs and Margin as a % of revenue.

				Long Contract of C		Y		
Recruitment Allocat	ion 🏢	Weekly Enrollment	t 🛛 🛄 Outreach Performance	Summary	Summary - Margin	Income Statement a	nd Cash Flow	>
Rows:	]	Col	olumns: [Summary - Margin Calc]	Con	text: CC 10004 - 114 Study - Ph [Elis	III Double Blind - Rand +	Contracted Version]	UK [Country]
	Total	% of Revenue						
lotal Revenue	223,303	100%						
Aarginal Direct Costs	175,656	79%						
Aargin After Direct Cost	47,647	21%						
Direct Labour Costs	26,892	12%						
Gross Margin	20,755	9%						

#### P&L and Cash Flow

The P&L and Cash Flow tab displays Income, Costs and Cash Flow by month and also calculates expected cash position for each month.

Recruitment Allocation	III Weekly B	Enrollment	UU UU	reach Perf	formance	Sumr	nary 🏼	Summary	- Margin	Incom	e Stateme	nt and C	ash Flow		» 23	_ 🗆
Rows:		Co	lumns:				Cont	ext:	-			-				
[Income Statement and Ca	sh Flow]		[Month]				1.6	CC 10004 -	114 Study	- Ph III Double [Elist]	Blind - Ran		Contract Version w A	ed ctuals]		
	1			12 4 22 22	10 2292	0. 0000			2 2272	1201 120723				1		
	Apr-2010	May-2010	Jun-2010	Jul-2010	Aug-2010	Sep-2010	Oct-2010	Nov-2010	Dec-2010	Total 2010	Jan-2011 F	-eb-2011	Mar-2011	Apr-2011	May-2011	Jun
Miscellaneous Income	1,475	1,524	1,475	1,524	1,524	1,475	492	10,000	0	23,914	0	0	0	0	0	
Prescreen Income	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Screen Income	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rand Income	2,768	2,860	2,768	1,107	0	776	388	104	3,224	17,285	1,352	29	912	1,162	1,463	
Set Up Fee Income	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Project Management Income	8,104	8,374	8,104	8,374	8,374	8,104	2,701	0	0	76,444	0	0	0	0	0	
Total Direct Income	12,347	12,758	12,347	11,005	9,898	10,355	3,581	10,104	3,224	117,644	1,352	29	912	1,162	1,463	1
Prescreen Staff Cost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Screen Staff Cost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rand Staff Cost	1,783	1,842	1,783	713	0	461	230	69	2,124	11,106	891	18	545	696	881	
Miscellaneous Cost	6,362	6,574	6,362	6,574	6,574	6,362	2,121	10,000	0	70,017	0	0	0	0	0	
Set up Fee Cost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Direct Costs	8,145	8,416	8,145	7,287	6,574	6,823	2,351	10,069	2,124	81,123	891	18	545	696	881	1
Screen Patient Travel Income	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rand Patient Travel Income	502	518	502	201	0	141	70	19	584	3,133	245	5	165	211	265	
Rand Procedure Income	0	2,000	20,000	8,000	0	0	0	0	0	30,000	0	0	0	0	0	
Advertising Income	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Pass Through Income	502	2,518	20,502	8,201	0	141	70	19	584	33,133	245	5	165	211	265	
Screen Patient Travel Cost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rand Patient Travel Cost	448	463	448	179	0	116	58	17	534	2,790	224	4	137	175	221	
Rand Procedure Cost	0	2,000	20,000	8,000	0	0	0	0	0	30,000	0	0	0	0	0	
Advertising Cost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<u>.</u> , 18 - 1 - 1 - 1		3.463	20.440	0 1 70	Ê	***	50	**	534	33 700	224		***	175		•

## Conclusion

Planning for a new clinical trial can be a challenge. You must create budgets, allocate resources, find patients and determine the efficacy of one study site over another.

The *Clinical Modeling and Resource Tracking Blueprint* can significantly improve this process by modeling your study based on all aspects of a study: costs, resources, time and geography. It creates visibility into the overall clinical trial process so that you can plan appropriately, reduce costs and make better decisions.

## About the IBM Cognos Innovation Center for Performance Management

The IBM Cognos Innovation Center was established in North America and Europe to advance the understanding of proven planning and performance management techniques, technologies, and practices. The Innovation Center is dedicated to transforming routine performance management practices into "next practices" that help companies:

- Cut costs
- Streamline processes
- Boost productivity
- Enable rapid response to opportunity
- Increase management visibility

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