**Audits Data Analysis**

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Binbing Zhao

Northeastern University

**Audits Data Analysis**

**Part I**

**Audit Status**

*Descriptives Table*

|  |  |  |
| --- | --- | --- |
| **Audit Status** | **Frequency** | **Percent** |
| Cancelled | 4 | 4% |
| Closed | 19 | 20% |
| Completed | 4 | 4% |
| In Progress | 18 | 19% |
| Not In Scope | 26 | 27% |
| Pending | 14 | 15% |
| Scheduled | 11 | 11% |
| **Total** | **96** | **100%** |

*Audit Status Percentages*

*Audit Status Count*

**Business Question:**

What is the distribution of the status of the 2017 GxP Audits?

**Analysis:**

As table and charts shows above, there are 96 audits data in 2017 in total and 26 of them (27.08%) are “Not In Scope”, this is a large propotion lack of data to be examined.

Then 19.79% of branches auit status are closed and 4% are cancelled. Over 24% of the process we are unable to follow up. And even for status remain closed there are some vendors audit process shows completed on-time, and some are delayed. It is important to ask the client what exactly the closed clolumn means.

Only 4.17% of audits are completed on-time, this is a relatively small proportion of total audits.

18.75% vendors auditing work remains in progress and 11.46% are scheduled.

As for the rest 14.58% pending audits, there are barely avalible dates information established. It is nessesary to figure out the reason and to improve the working efficiency by investigating the status.

**In USA or OUS**

*Descriptives Table*

|  |  |  |
| --- | --- | --- |
| **In USA or OUS** | **Frequency** | **Percent** |
| OUS | 45 | 47% |
| USA | 51 | 53% |
| **Total** | **96** | **100%** |

*In USA or OUS Count*

*In USA or OUS Percentages*

**Business Question:**

Where are the GxP audits located nationally?

**Analysis:**

In general, activities taken place in the United State(53.13%) are 6 more than activities taken Outside of United State(46.88%). This indicates that the geographical factors and locations are not very significant to affect the auditing processes.

GxP Area

*Descriptives Table*

|  |  |  |
| --- | --- | --- |
| **GxP Area** | **Frequency** | **Percent** |
| GCP | 34 | 35% |
| GDP | 7 | 7% |
| GLP | 14 | 15% |
| GMP | 33 | 34% |
| GMP/GDP | 2 | 2% |
| GVP | 6 | 6% |
| **Total** | **96** | **100%** |

*GxP Count*

*GxP Percentages*

**Business Question:**

How’s the Good Working Practice Area be arranged during the 2017 GxP Audits process?

**Analysis:**

GxP stands for “Good Working Practice”, it is the guideline for pertaining to various vendors of the pharmaceutical industry. And there is a strong tendency show in the bar chart as follows: The two largeset proportion of total audits concentrate on GCP(Good Clinical Practice audits) and GMP(Good Manufacturing Practice audits), they are 35.42% and 34.38% perspectively. This is an indication that those two department are more important in the whole business cycle or it is easier for auditors to carry out auditing processes? Manufacturing sites are palying essential roles in a pharmaceutical company.

And the lowest proportion of audits focused on Distribution and Vigilance practice. Only 6.25% of vendors did audits of pharmacovigilance service providers. Also, the number of distribution and logistic partners audits are too low, because this is an important department in running business and it may cause hidden and potential cost during these process. It is not reasonable to ignore these two areas.

GLP area audits accounts for 14.58%, this present the relatively importance of laboratory in this industry.

Finally, the rest 2.08% names GMP/GDP is unclear that whether the audits will carry out by only one area or two. Or should the auditor look at both sides.

**Audit Type**

*Descriptives Table*

|  |  |  |
| --- | --- | --- |
| **Audit Type** | **Frequency** | **Percent** |
| (Unknown) | 5 | 5% |
| Qualification | 38 | 40% |
| Requalification | 50 | 52% |
| Requalification/Q | 3 | 3% |
| **Total** | **96** | **100%** |

*Audit Type Count*

*Audit Type Percentage*

**Business Question:**

What are the types of 2017 GxP Audits?

**Analysis:**

From the bar chart we can clearly see there are three types of aurit type source from this data set within the pharmaceutical industry. They are Qualification, Requalification and Requalification with Questionnaire. The most frequently used type is requalification which stands for 52.08%. This means it is a great action and method to do audit in this industry and maybe it is more standardized for auditors to check this branches.

The rate of qualification type is also high(39.58%) and I think it is nessesary to understand the difference between requalification and qualification aiduts. Are the processdure more complicated for the company or auditing engagement team to operate?

Requalification with questionnaire accounts for 5.21% of total branches, so is this means more convenient for auditors and vendors to communicate with each other at a lower expense to avoid travelling cost? Or there are only few vendors agreed to accept this type. It is interesting to ask the clients about futher information.

And there is a column called Audit Method from the ExcelBook, there are also rows shows questionnaire under the condition on “Qualification” in Audit Type, it is unclear what are the differences between those two questionnaire observation.

There are 5 of branches are lack of audits type information and this should be figured out in order to do further work.

**Part II**

For each worksheet, compute the number of days lapsed between:

1. **Days\_Intake\_QSent**

Mean: 17

Median: 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Vendor** | **Audit.Type** | **Audit.Method** | **Date.of.Intake** | **Date.Q.sent** | **Days\_Intake\_Qsent** |
| Vendor6 | Qualification | Questionnaire | 2017/1/13 | 2017/1/19 | 6 |
| Vendor7 | Qualification | Questionnaire | 2017/1/13 | 2017/1/19 | 6 |
| Vendor12 | Qualification | Questionnaire | 2017/1/25 | 2017/1/26 | 1 |
| Vendor13 | Qualification | Questionnaire | 2017/1/25 | 2017/1/26 | 1 |
| Vendor14 | Qualification | Questionnaire | 2017/1/25 | 2017/1/27 | 2 |
| Vendor15 | Qualification | Questionnaire | 2017/1/25 | 2017/1/26 | 1 |
| Vendor16 | Qualification | Questionnaire | 2017/1/25 | 2017/1/26 | 1 |
| Vendor17 | Qualification | Questionnaire | 2017/1/25 | 2017/1/26 | 1 |
| Vendor24 | Qualification | On Site | 2017/2/8 | 2017/4/20 | 71 |
| Vendor55 | Qualification | On Site | 2017/2/9 | 2017/5/8 | 88 |
| Vendor68 | Qualification | Questionnaire | 2017/4/21 | 2017/5/4 | 13 |

The average days between intake date and sent date are 17 days, this is not very standard because there are extreme value like 88 days, 77 days and 1 days. The median 2 days are represent most of the cases.

1. **Days\_QSent\_QReceived**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Vendor** | **Audit.Status** | **GxP.Area** | **Audit.Type** | **Audit.Method** | **Date.Q.sent** | **Date.Q.Rcvd** | **Days\_QSent\_QReceived** |
| Vendor6 | Closed | GCP | Qualification | Questionnaire | 2017/1/19 | 2017/2/1 | 13 |
| Vendor7 | Closed | GCP | Qualification | Questionnaire | 2017/1/19 | 2017/2/2 | 14 |
| Vendor12 | Closed | GVP | Qualification | Questionnaire | 2017/1/26 | 2017/3/23 | 56 |
| Vendor13 | Closed | GVP | Qualification | Questionnaire | 2017/1/26 | 2017/3/1 | 34 |
| Vendor14 | Closed | GVP | Qualification | Questionnaire | 2017/1/27 | 2017/2/28 | 32 |
| Vendor15 | Closed | GVP | Qualification | Questionnaire | 2017/1/26 | 2017/3/2 | 35 |
| Vendor16 | Closed | GVP | Qualification | Questionnaire | 2017/1/26 | 2017/3/8 | 41 |
| Vendor17 | Closed | GVP | Qualification | Questionnaire | 2017/1/26 | 2017/3/8 | 41 |
| Vendor24 | In Progress | GMP | Qualification | On Site | 2017/4/20 | (Unknown) | #VALUE! |
| Vendor55 | Closed | GLP | Qualification | On Site | 2017/5/8 | 2017/5/19 | 11 |
| Vendor68 | In Progress | GMP | Qualification | Questionnaire | 2017/5/4 | 2017/5/19 | 15 |

Mean: 29

Median: 33

This variable mean means the days need for the process of carrying out Qualification method

It is not apply to all audits, because some of them are missing received date data, for example vendor 24.

1. **Days\_OnSiteScheduled\_AuditStartDate**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Vendor** | **Audit.Status** | **Audit.Type** | **Date.On.Site.Scheduled** | **Audit.Start.Date** | **Days\_OnSiteScheduled\_AuditStartDate** |
| Vendor4 | Completed | Qualification | 2017/6/5 | 2017/7/12 | 37 |
| Vendor8 | Closed | Requalification | 2017/1/13 | 2017/2/20 | 38 |
| Vendor9 | Closed | Requalification | 2017/3/17 | 2017/4/25 | 39 |
| Vendor10 | Closed | Requalification | 2017/3/8 | 2017/3/21 | 13 |
| Vendor18 | Not In Scope | Requalification | 2017/2/7 | 2017/2/21 | 14 |
| Vendor20 | In Progress | Requalification | 2017/5/4 | 2017/5/10 | 6 |
| Vendor21 | In Progress | Requalification | 2017/5/4 | 2017/6/12 | 39 |
| Vendor23 | Completed | Requalification | 2017/3/24 | 2017/4/3 | 10 |
| Vendor24 | In Progress | Qualification | 2017/5/4 | 2017/6/20 | 47 |
| Vendor25 | In Progress | Qualification | 2017/5/4 | 2017/6/26 | 53 |
| Vendor33 | In Progress | Requalification | 2017/5/3 | 2017/5/31 | 28 |
| Vendor34 | Scheduled | Requalification | 2017/6/30 | 2017/10/10 | 102 |
| Vendor35 | Scheduled | Requalification | 2017/9/27 | 2017/11/27 | 61 |
| Vendor36 | In Progress | Requalification | 2017/8/3 | 2017/8/31 | 28 |
| Vendor37 | Scheduled | Requalification | 2017/9/20 | 2017/10/12 | 22 |
| Vendor38 | In Progress | Requalification | 2017/5/4 | 2017/6/29 | 56 |
| Vendor39 | In Progress | Requalification | 2017/5/4 | 2017/9/27 | 146 |
| Vendor40 | In Progress | Requalification | 2017/5/2 | 2017/8/1 | 91 |
| Vendor42 | In Progress | Requalification | 2017/5/4 | 2017/7/10 | 67 |
| Vendor43 | In Progress | Requalification | 2017/6/30 | 2017/9/18 | 80 |
| Vendor44 | In Progress | Requalification | 2017/6/30 | 2017/9/21 | 83 |
| Vendor45 | Cancelled | Requalification | 2017/6/26 | 2017/9/19 | 85 |
| Vendor48 | Scheduled | Requalification | 2017/9/14 | 2017/10/24 | 40 |
| Vendor50 | Cancelled | Requalification | 2017/8/3 | 2017/9/19 | 47 |
| Vendor52 | In Progress | Requalification | 2017/8/3 | 2017/9/26 | 54 |
| Vendor55 | Closed | Qualification | 2017/3/31 | 2017/5/24 | 54 |
| Vendor59 | In Progress | Requalification/Q | 2017/6/29 | 2017/9/19 | 82 |
| Vendor60 | Scheduled | Requalification | 2017/6/16 | 2017/11/15 | 152 |
| Vendor61 | Scheduled | Requalification | 2017/6/16 | 2017/11/14 | 151 |
| Vendor62 | Scheduled | Requalification | 2017/6/29 | 2017/11/29 | 153 |
| Vendor63 | Scheduled | Requalification/Q | 2017/9/15 | 2017/11/14 | 60 |
| Vendor64 | In Progress | Requalification/Q | 2017/8/31 | 2017/10/3 | 33 |
| Vendor65 | Closed | Qualification | 2017/3/17 | 2017/4/19 | 33 |
| Vendor66 | Closed | Requalification | 2017/4/14 | 2017/5/23 | 39 |
| Vendor67 | Not In Scope | Qualification | 2017/4/14 | 2017/5/1 | 17 |
| Vendor68 | In Progress | Qualification | 2017/5/4 | 2017/5/24 | 20 |
| Vendor69 | Closed | Requalification | 2017/3/6 | 2017/3/6 | 0 |
| Vendor76 | Closed | Requalification | 2017/7/18 | 2017/8/9 | 22 |
| Vendor78 | Completed | Qualification | 2017/6/30 | 2017/8/8 | 39 |
| Vendor79 | Closed | Requalification | 2017/8/2 | 2017/8/22 | 20 |
| Vendor82 | In Progress | Qualification | 2017/9/8 | 2017/9/25 | 17 |
| Vendor86 | Scheduled | Requalification | 2017/9/7 | 2017/11/1 | 55 |
| Vendor88 | Scheduled | Requalification | 2017/9/7 | 2017/11/13 | 67 |
| Vendor95 | Scheduled | Qualification | 2017/8/21 | 2017/11/13 | 84 |
| Vendor96 | Cancelled | Requalification | 2017/9/7 | 2017/11/14 | 68 |

Mean: 54

Median: 47

Days\_OnSiteScheduled\_AuditStartDate variable cannot be applied to all audits due to the reason that some of the audits method do not require on-site work, or even some quired vendors are lack of scheduling date.

1. **Days\_StartDate\_EndDate**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Vendor** | **Audit.Status** | **GxP.Area** | **Audit.Type** | **Audit.Start.Date** | **Audit.End.Date** | **Days\_StartDate\_EndDate** |
| Vendor2 | Closed | GCP | Qualification | 2017/2/14 | 2017/2/16 | 2 |
| Vendor4 | Completed | GCP | Qualification | 2017/7/12 | 2017/7/13 | 1 |
| Vendor5 | Closed | GCP | Qualification | 2017/2/7 | 2017/2/8 | 1 |
| Vendor8 | Closed | GCP | Requalification | 2017/2/20 | 2017/2/23 | 3 |
| Vendor9 | Closed | GLP | Requalification | 2017/4/25 | 2017/4/27 | 2 |
| Vendor10 | Closed | GLP | Requalification | 2017/3/21 | 2017/3/23 | 2 |
| Vendor18 | Not In Scope | GMP | Requalification | 2017/2/21 | 2017/2/24 | 3 |
| Vendor20 | In Progress | GMP | Requalification | 2017/5/10 | 2017/5/10 | 0 |
| Vendor21 | In Progress | GMP | Requalification | 2017/6/12 | 2017/6/13 | 1 |
| Vendor22 | Completed | GDP | Qualification | 2017/2/20 | 2017/2/21 | 1 |
| Vendor23 | Completed | GMP | Requalification | 2017/4/3 | 2017/4/4 | 1 |
| Vendor24 | In Progress | GMP | Qualification | 2017/6/20 | 2017/6/21 | 1 |
| Vendor25 | In Progress | GMP | Qualification | 2017/6/26 | 2017/6/27 | 1 |
| Vendor33 | In Progress | GMP | Requalification | 2017/5/31 | 2017/6/1 | 1 |
| Vendor34 | Scheduled | GMP | Requalification | 2017/10/10 | 2017/10/11 | 1 |
| Vendor35 | Scheduled | GMP | Requalification | 2017/11/27 | 2017/11/28 | 1 |
| Vendor36 | In Progress | GMP | Requalification | 2017/8/31 | 2017/8/31 | 0 |
| Vendor37 | Scheduled | GDP | Requalification | 2017/10/12 | 2017/10/13 | 1 |
| Vendor38 | In Progress | GMP | Requalification | 2017/6/29 | 2017/6/30 | 1 |
| Vendor39 | In Progress | GMP | Requalification | 2017/9/27 | 2017/9/29 | 2 |
| Vendor40 | In Progress | GMP | Requalification | 2017/8/1 | 2017/8/2 | 1 |
| Vendor42 | In Progress | GMP | Requalification | 2017/7/10 | 2017/7/10 | 0 |
| Vendor43 | In Progress | GMP | Requalification | 2017/9/18 | 2017/9/19 | 1 |
| Vendor44 | In Progress | GMP | Requalification | 2017/9/21 | 2017/9/22 | 1 |
| Vendor45 | Cancelled | GMP | Requalification | 2017/9/19 | 2017/9/19 | 0 |
| Vendor48 | Scheduled | GMP | Requalification | 2017/10/24 | 2017/10/25 | 1 |
| Vendor50 | Cancelled | GMP | Requalification | 2017/9/19 | 2017/9/20 | 1 |
| Vendor52 | In Progress | GMP | Requalification | 2017/9/26 | 2017/9/27 | 1 |
| Vendor55 | Closed | GLP | Qualification | 2017/5/24 | 2017/5/24 | 0 |
| Vendor59 | In Progress | GLP | Requalification/Q | 2017/9/19 | 2017/9/21 | 2 |
| Vendor60 | Scheduled | GLP | Requalification | 2017/11/15 | 2017/11/16 | 1 |
| Vendor61 | Scheduled | GLP | Requalification | 2017/11/14 | 2017/11/14 | 0 |
| Vendor62 | Scheduled | GLP | Requalification | 2017/11/29 | 2017/12/1 | 2 |
| Vendor63 | Scheduled | GLP | Requalification/Q | 2017/11/14 | 2017/11/15 | 1 |
| Vendor64 | In Progress | GLP | Requalification/Q | 2017/10/3 | 2017/10/5 | 2 |
| Vendor65 | Closed | GCP | Qualification | 2017/4/19 | 2017/4/20 | 1 |
| Vendor66 | Closed | GCP | Requalification | 2017/5/23 | 2017/5/24 | 1 |
| Vendor67 | Not In Scope | GLP | Qualification | 2017/5/1 | 2017/5/2 | 1 |
| Vendor68 | In Progress | GMP | Qualification | 2017/5/24 | 2017/5/24 | 0 |
| Vendor69 | Closed | GCP | Requalification | 2017/3/6 | 2017/3/6 | 0 |
| Vendor75 | Not In Scope | GCP | Requalification | 2017/7/11 | 2017/7/13 | 2 |
| Vendor76 | Closed | GCP | Requalification | 2017/8/9 | 2017/8/10 | 1 |
| Vendor78 | Completed | GMP | Qualification | 2017/8/8 | 2017/8/9 | 1 |
| Vendor79 | Closed | GCP | Requalification | 2017/8/22 | 2017/8/23 | 1 |
| Vendor82 | In Progress | GMP | Qualification | 2017/9/25 | 2017/9/26 | 1 |
| Vendor86 | Scheduled | GCP | Requalification | 2017/11/1 | 2017/11/2 | 1 |
| Vendor88 | Scheduled | GCP | Requalification | 2017/11/13 | 2017/11/14 | 1 |
| Vendor94 | In Progress | GMP | Qualification | 2017/8/31 | 2017/8/31 | 0 |
| Vendor95 | Scheduled | GCP | Qualification | 2017/11/13 | 2017/11/14 | 1 |
| Vendor96 | Cancelled | GCP | Requalification | 2017/11/14 | 2017/11/15 | 1 |

Mean: 1

Median: 1

As table indicates that the audit processe usually last within 1 to 2 days no matter which types and areas of audits they are belonging to.

1. **Days\_AuditEnd\_FinalReportDue**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Vendor** | **Audit.Status** | **GxP.Area** | **Audit.Type** | **Audit.End.Date** | **Date.Final..Report.Due** | **Days\_AuditEnd\_FinalReportDue** |
| Vendor2 | Closed | GCP | Qualification | 2017/2/16 | 2017/3/15 | 27 |
| Vendor4 | Completed | GCP | Qualification | 2017/7/13 | 2017/8/12 | 30 |
| Vendor5 | Closed | GCP | Qualification | 2017/2/8 | 2017/3/10 | 30 |
| Vendor8 | Closed | GCP | Requalification | 2017/2/23 | 2017/3/25 | 30 |
| Vendor9 | Closed | GLP | Requalification | 2017/4/27 | 2017/5/27 | 30 |
| Vendor10 | Closed | GLP | Requalification | 2017/3/23 | 2017/4/22 | 30 |
| Vendor18 | Not In Scope | GMP | Requalification | 2017/2/24 | 2017/3/26 | 30 |
| Vendor20 | In Progress | GMP | Requalification | 2017/5/10 | 2017/6/9 | 30 |
| Vendor21 | In Progress | GMP | Requalification | 2017/6/13 | 2017/7/13 | 30 |
| Vendor22 | Completed | GDP | Qualification | 2017/2/21 | 2017/3/23 | 30 |
| Vendor23 | Completed | GMP | Requalification | 2017/4/4 | 2017/5/4 | 30 |
| Vendor24 | In Progress | GMP | Qualification | 2017/6/21 | 2017/7/21 | 30 |
| Vendor25 | In Progress | GMP | Qualification | 2017/6/27 | 2017/7/27 | 30 |
| Vendor33 | In Progress | GMP | Requalification | 2017/6/1 | 2017/7/1 | 30 |
| Vendor34 | Scheduled | GMP | Requalification | 2017/10/11 | 2017/11/10 | 30 |
| Vendor35 | Scheduled | GMP | Requalification | 2017/11/28 | 2017/12/28 | 30 |
| Vendor36 | In Progress | GMP | Requalification | 2017/8/31 | 2017/9/30 | 30 |
| Vendor37 | Scheduled | GDP | Requalification | 2017/10/13 | 2017/11/12 | 30 |
| Vendor38 | In Progress | GMP | Requalification | 2017/6/30 | 2017/7/30 | 30 |
| Vendor39 | In Progress | GMP | Requalification | 2017/9/29 | 2017/10/29 | 30 |
| Vendor40 | In Progress | GMP | Requalification | 2017/8/2 | 2017/9/1 | 30 |
| Vendor42 | In Progress | GMP | Requalification | 2017/7/10 | 2017/8/9 | 30 |
| Vendor43 | In Progress | GMP | Requalification | 2017/9/19 | 2017/10/19 | 30 |
| Vendor44 | In Progress | GMP | Requalification | 2017/9/22 | 2017/10/22 | 30 |
| Vendor45 | Cancelled | GMP | Requalification | 2017/9/19 | 2017/10/19 | 30 |
| Vendor48 | Scheduled | GMP | Requalification | 2017/10/25 | 2017/11/24 | 30 |
| Vendor50 | Cancelled | GMP | Requalification | 2017/9/20 | 2017/10/20 | 30 |
| Vendor52 | In Progress | GMP | Requalification | 2017/9/27 | 2017/10/27 | 30 |
| Vendor55 | Closed | GLP | Qualification | 2017/5/24 | 2017/6/23 | 30 |
| Vendor59 | In Progress | GLP | Requalification/Q | 2017/9/21 | 2017/10/21 | 30 |
| Vendor60 | Scheduled | GLP | Requalification | 2017/11/16 | 2017/12/16 | 30 |
| Vendor61 | Scheduled | GLP | Requalification | 2017/11/14 | 2017/12/14 | 30 |
| Vendor62 | Scheduled | GLP | Requalification | 2017/12/1 | 2017/12/31 | 30 |
| Vendor63 | Scheduled | GLP | Requalification/Q | 2017/11/15 | 2017/12/15 | 30 |
| Vendor64 | In Progress | GLP | Requalification/Q | 2017/10/5 | 2017/11/4 | 30 |
| Vendor65 | Closed | GCP | Qualification | 2017/4/20 | 2017/5/20 | 30 |
| Vendor66 | Closed | GCP | Requalification | 2017/5/24 | 2017/6/23 | 30 |
| Vendor67 | Not In Scope | GLP | Qualification | 2017/5/2 | 2017/6/1 | 30 |
| Vendor68 | In Progress | GMP | Qualification | 2017/5/24 | 2017/6/23 | 30 |
| Vendor69 | Closed | GCP | Requalification | 2017/3/6 | 2017/4/5 | 30 |
| Vendor75 | Not In Scope | GCP | Requalification | 2017/7/13 | 2017/8/12 | 30 |
| Vendor76 | Closed | GCP | Requalification | 2017/8/10 | 2017/9/9 | 30 |
| Vendor78 | Completed | GMP | Qualification | 2017/8/9 | 2017/9/8 | 30 |
| Vendor79 | Closed | GCP | Requalification | 2017/8/23 | 2017/9/22 | 30 |
| Vendor82 | In Progress | GMP | Qualification | 2017/9/26 | 2017/10/26 | 30 |
| Vendor86 | Scheduled | GCP | Requalification | 2017/11/2 | 2017/12/2 | 30 |
| Vendor88 | Scheduled | GCP | Requalification | 2017/11/14 | 2017/12/14 | 30 |
| Vendor94 | In Progress | GMP | Qualification | 2017/8/31 | 2017/9/30 | 30 |
| Vendor95 | Scheduled | GCP | Qualification | 2017/11/14 | 2017/12/14 | 30 |
| Vendor96 | Cancelled | GCP | Requalification | 2017/11/15 | 2017/12/15 | 30 |

Mean: 30

Median: 30

This means it takes average 30 days for audit teams to finish the report.

1. **Days\_FinalReportDue\_CompletionDate**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Vendor** | **Audit.Status** | **GxP.Area** | **Audit.Type** | **Date.Final..Report.Due** | **Date.of..Completion** | **Days\_FinalReportDue\_CompletionDate** |
| Vendor2 | Closed | GCP | Qualification | 2017/3/15 | 2017/3/16 | 1 |
| Vendor4 | Completed | GCP | Qualification | 2017/8/12 | 2017/8/11 | -1 |
| Vendor5 | Closed | GCP | Qualification | 2017/3/10 | 2017/3/10 | 0 |
| Vendor6 | Closed | GCP | Qualification | 2017/3/3 | 2017/3/3 | 0 |
| Vendor7 | Closed | GCP | Qualification | 2017/3/3 | 2017/3/3 | 0 |
| Vendor8 | Closed | GCP | Requalification | 2017/3/25 | 2017/3/24 | -1 |
| Vendor9 | Closed | GLP | Requalification | 2017/5/27 | 2017/5/19 | -8 |
| Vendor10 | Closed | GLP | Requalification | 2017/4/22 | 2017/4/21 | -1 |
| Vendor12 | Closed | GVP | Qualification | 2017/4/22 | 2017/4/10 | -12 |
| Vendor13 | Closed | GVP | Qualification | 2017/4/1 | 2017/4/4 | 3 |
| Vendor14 | Closed | GVP | Qualification | 2017/3/30 | 2017/4/4 | 5 |
| Vendor15 | Closed | GVP | Qualification | 2017/4/1 | 2017/4/10 | 9 |
| Vendor16 | Closed | GVP | Qualification | 2017/4/7 | 2017/3/23 | -15 |
| Vendor17 | Closed | GVP | Qualification | 2017/4/7 | 2017/4/27 | 20 |
| Vendor22 | Completed | GDP | Qualification | 2017/3/23 | 2017/3/23 | 0 |
| Vendor23 | Completed | GMP | Requalification | 2017/5/4 | 2017/5/4 | 0 |
| Vendor55 | Closed | GLP | Qualification | 2017/6/23 | 2017/6/23 | 0 |
| Vendor65 | Closed | GCP | Qualification | 2017/5/20 | 2017/5/19 | -1 |
| Vendor66 | Closed | GCP | Requalification | 2017/6/23 | 2017/6/22 | -1 |
| Vendor67 | Not In Scope | GLP | Qualification | 2017/6/1 | 2017/5/25 | -7 |
| Vendor69 | Closed | GCP | Requalification | 2017/4/5 | 2017/4/5 | 0 |
| Vendor75 | Not In Scope | GCP | Requalification | 2017/8/12 | 2017/8/16 | 4 |
| Vendor76 | Closed | GCP | Requalification | 2017/9/9 | 2017/9/7 | -2 |
| Vendor78 | Completed | GMP | Qualification | 2017/9/8 | 2017/9/8 | 0 |
| Vendor79 | Closed | GCP | Requalification | 2017/9/22 | 2017/9/25 | 3 |

This variable is a bit confusing, because some of the audits’ completion date are later than the final report due date. We do not clear about the relationship and measurement of the completion of report and the auditing process. Because of the negative value, the outcome of calculation for mean and median are zero.

Mean: 0

Median: 0