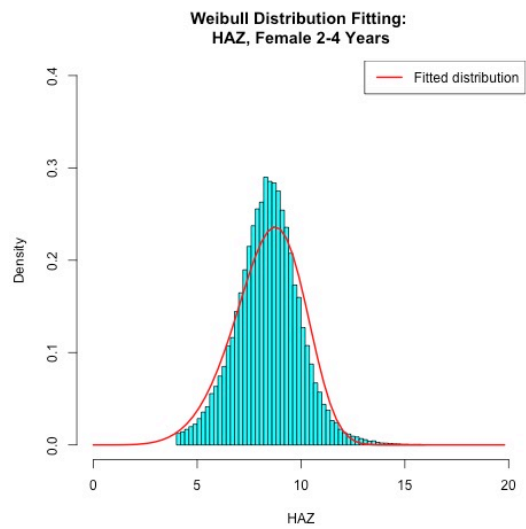
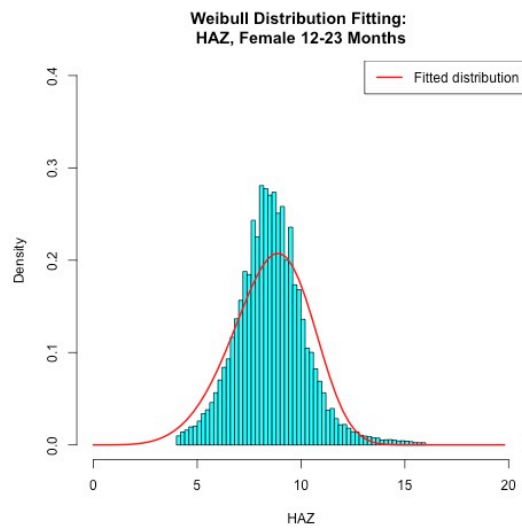
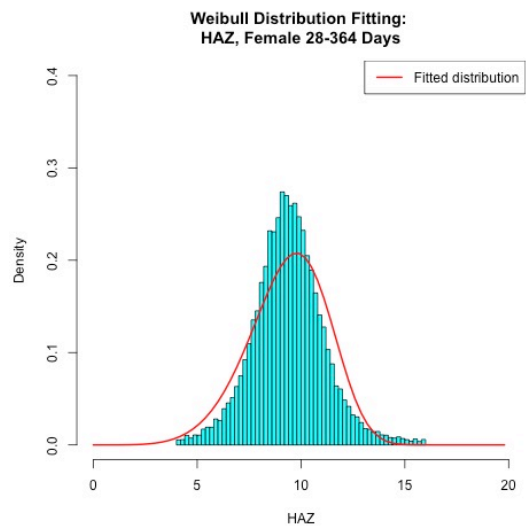
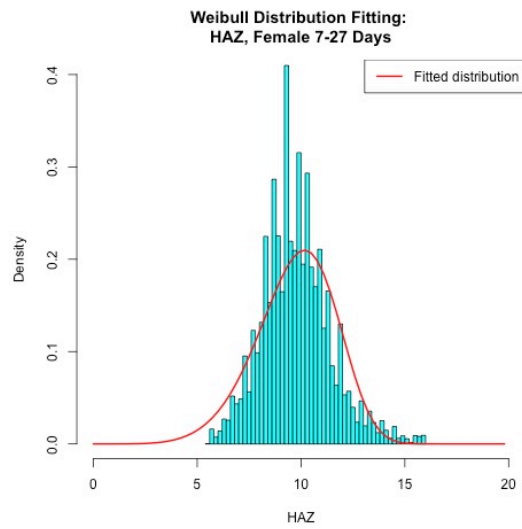
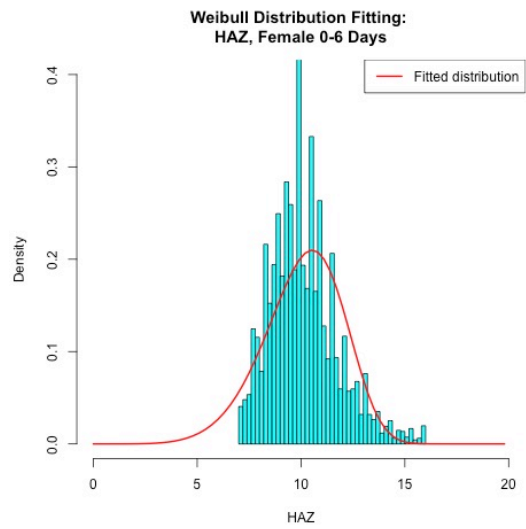


# Appendix 1: Distribution Fits by Indicator, Sex, and Age

## HAZ, Females

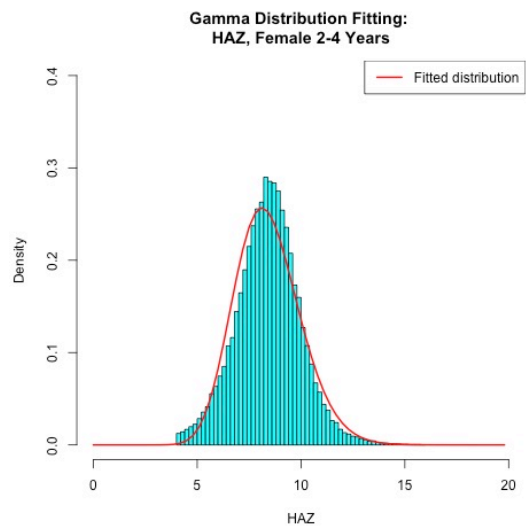
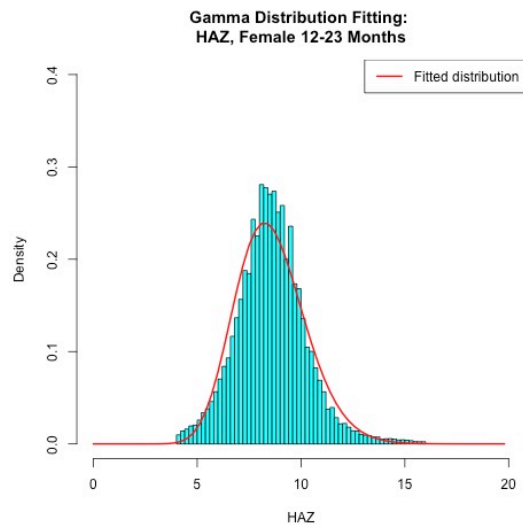
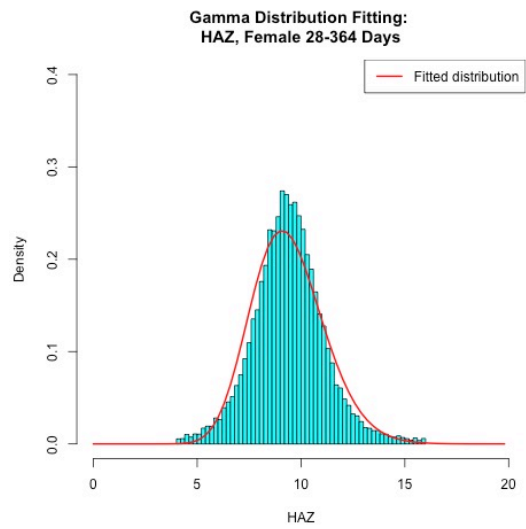
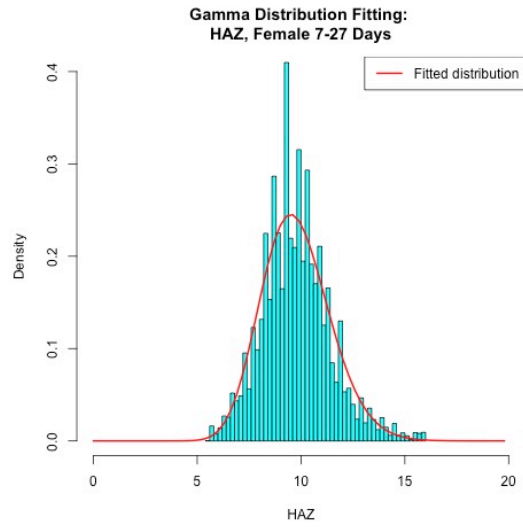
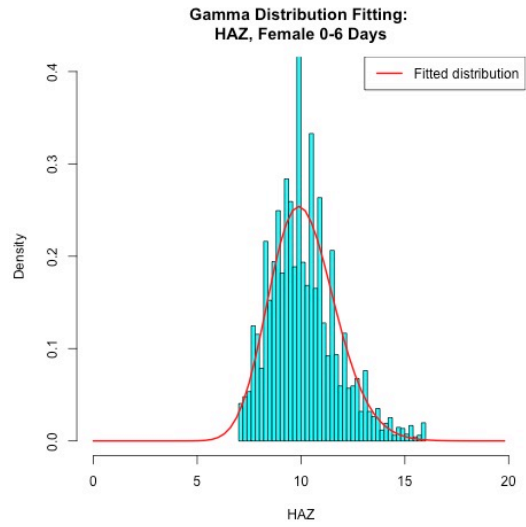
### Weibull



# Appendix 1: Distribution Fits by Indicator, Sex, and Age

## HAZ, Females

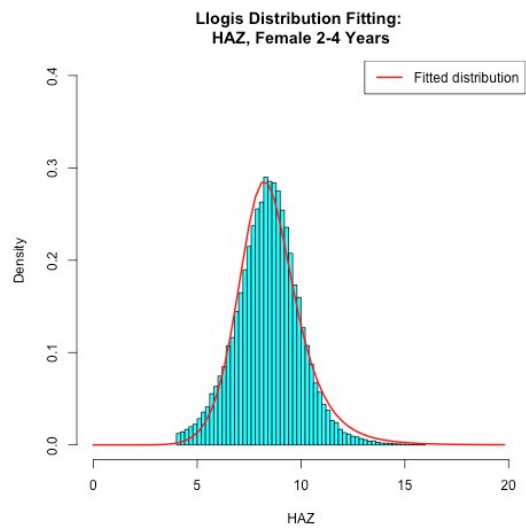
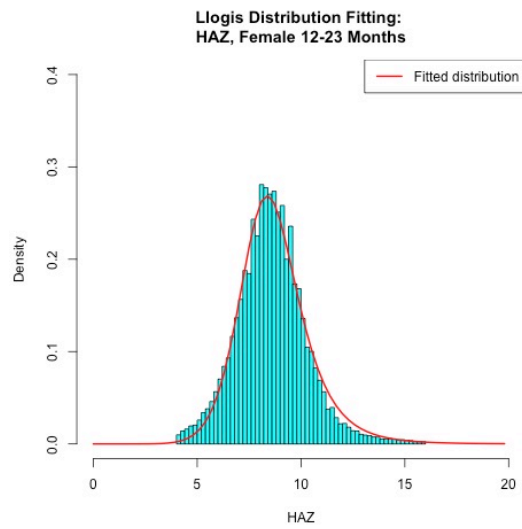
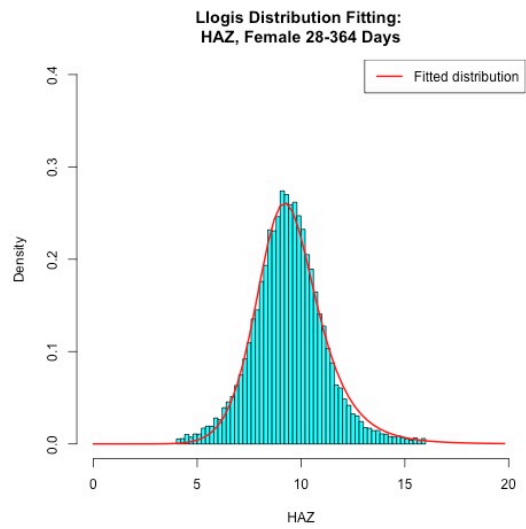
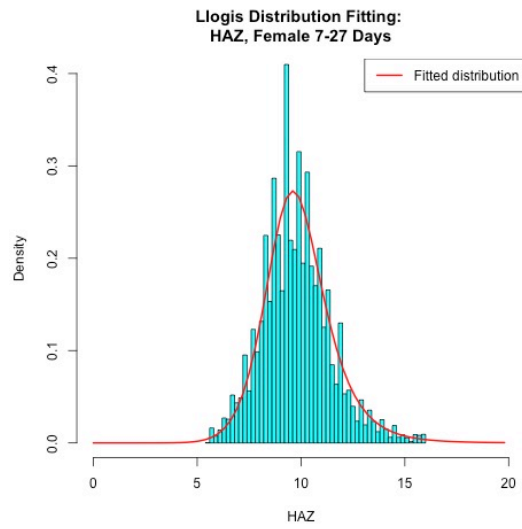
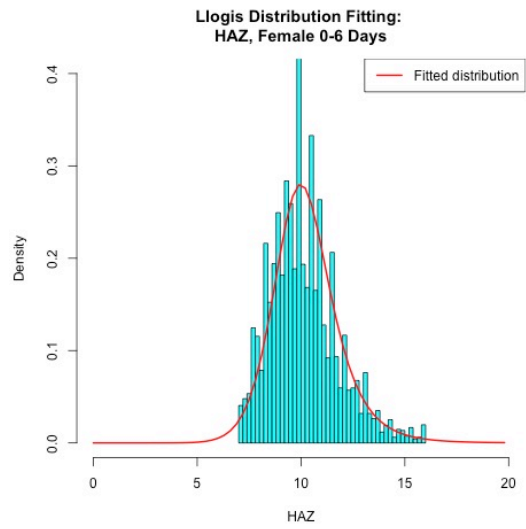
### Gamma



# Appendix 1: Distribution Fits by Indicator, Sex, and Age

## HAZ, Females

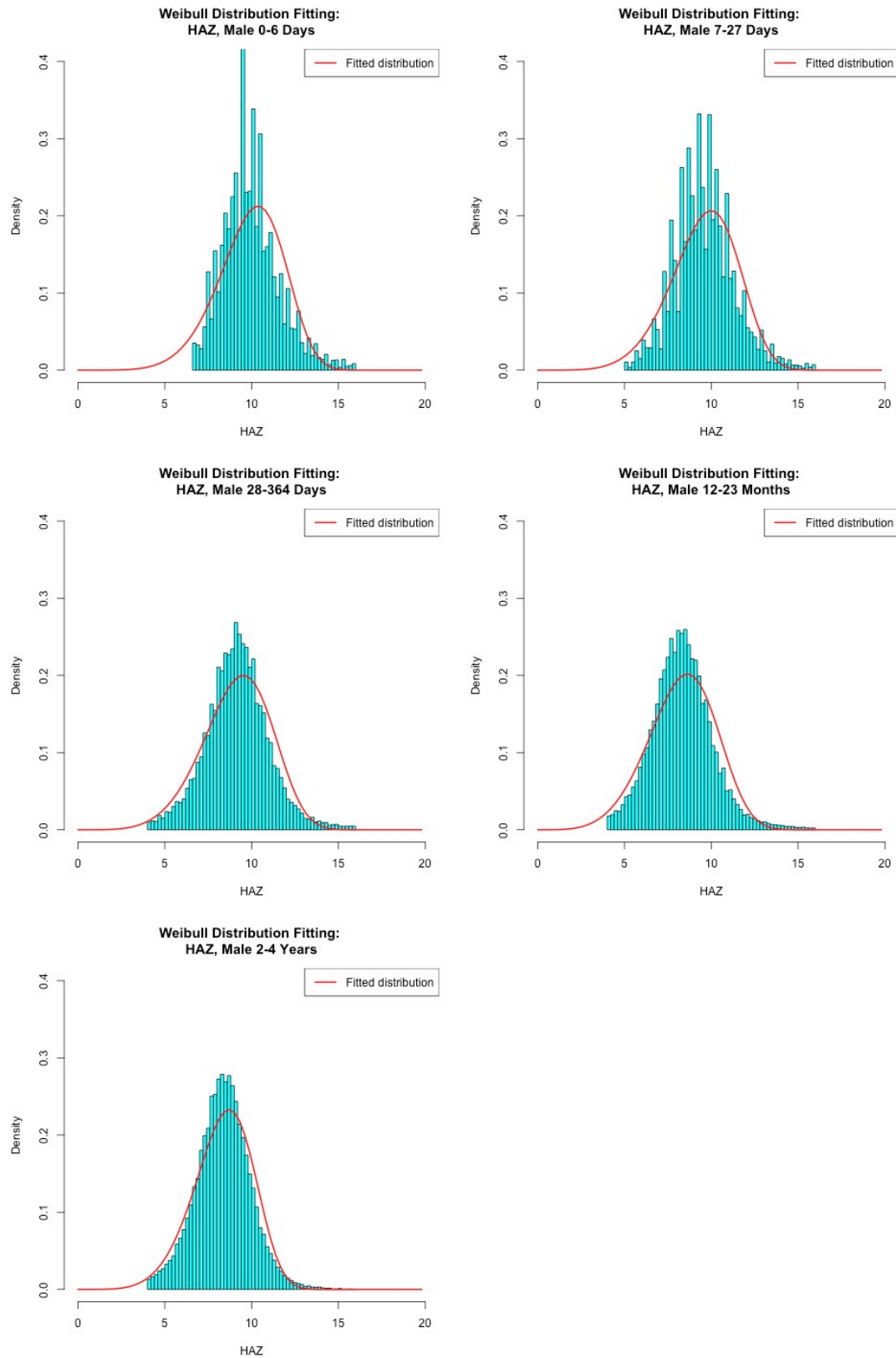
### Log-Logistic



# Appendix 1: Distribution Fits by Indicator, Sex, and Age

## HAZ, Males

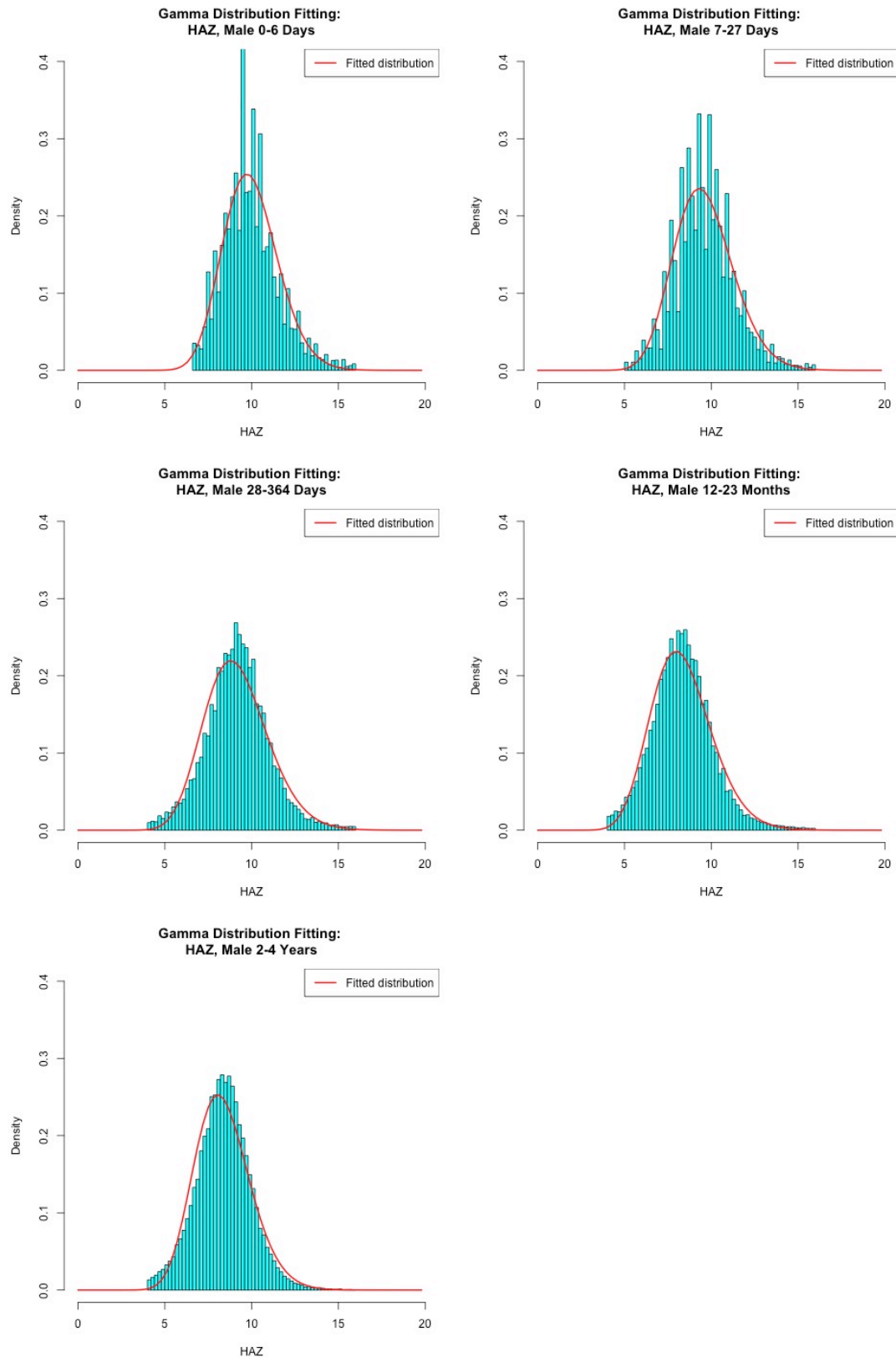
### Weibull



# Appendix 1: Distribution Fits by Indicator, Sex, and Age

## HAZ, Males

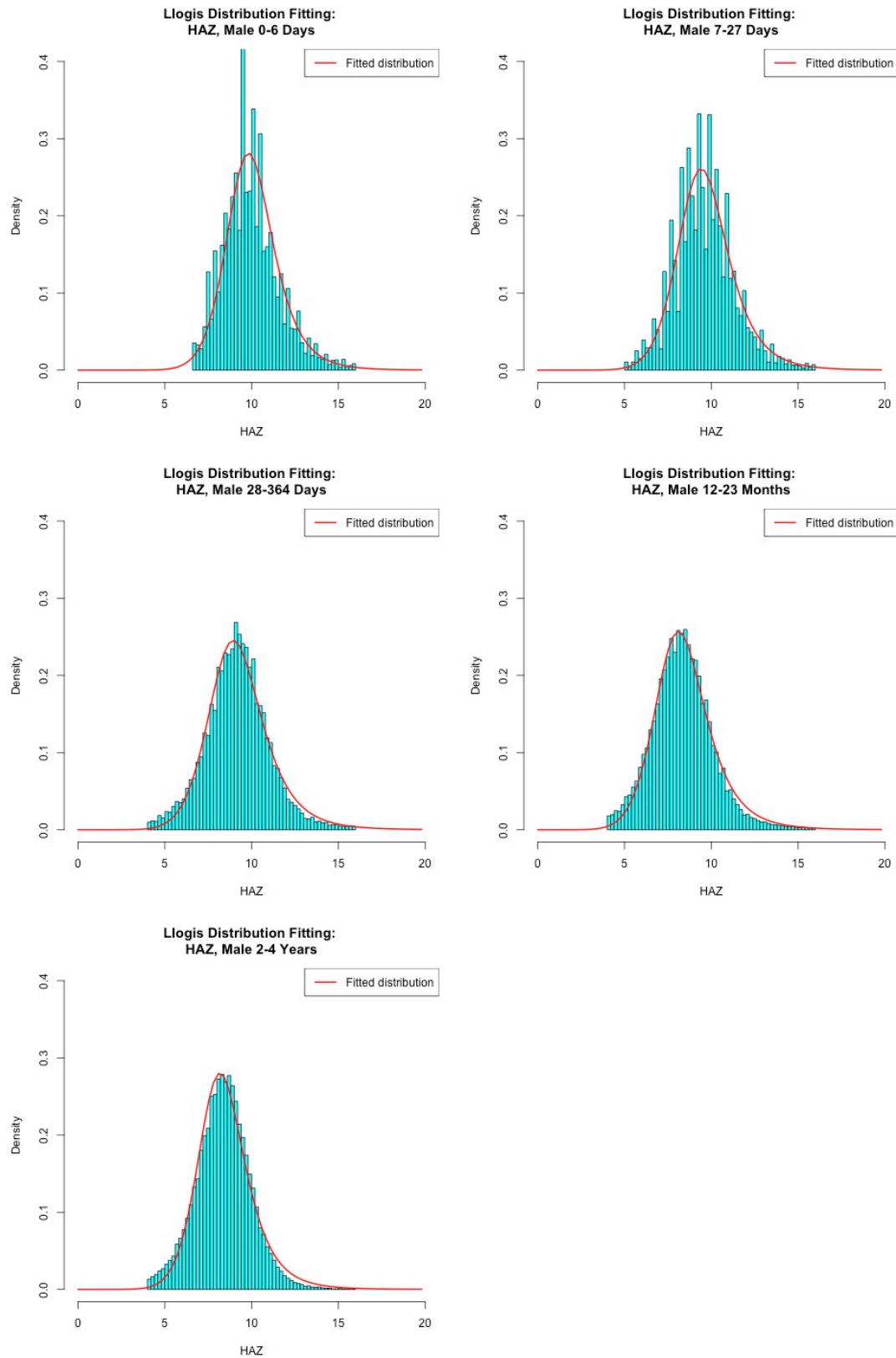
### Gamma



# Appendix 1: Distribution Fits by Indicator, Sex, and Age

## HAZ, Males

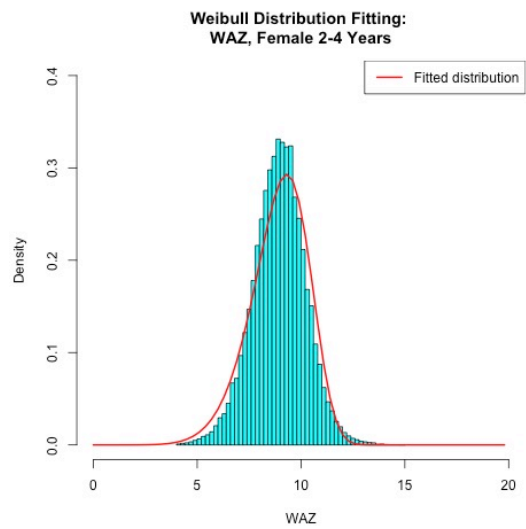
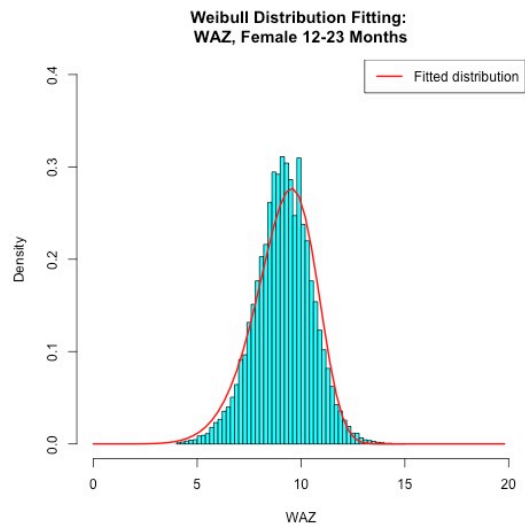
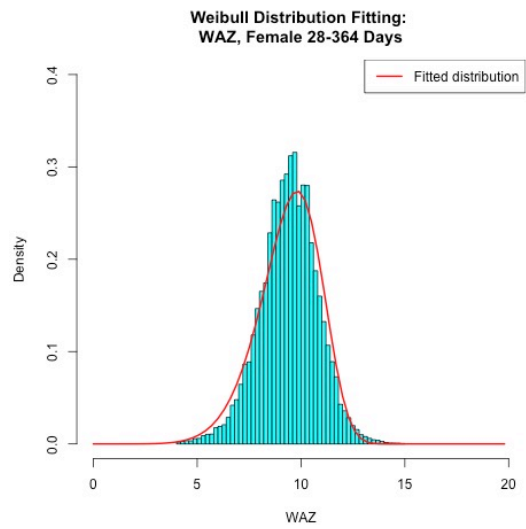
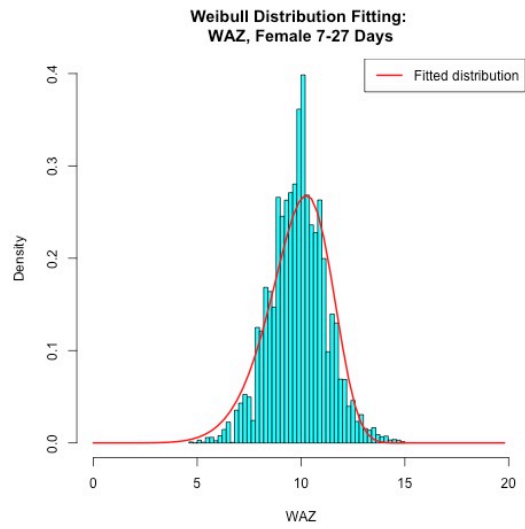
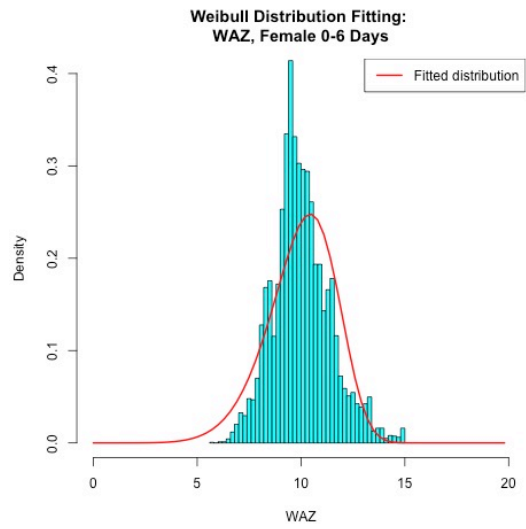
### Log-Logistic



# Appendix 1: Distribution Fits by Indicator, Sex, and Age

## WAZ, Females

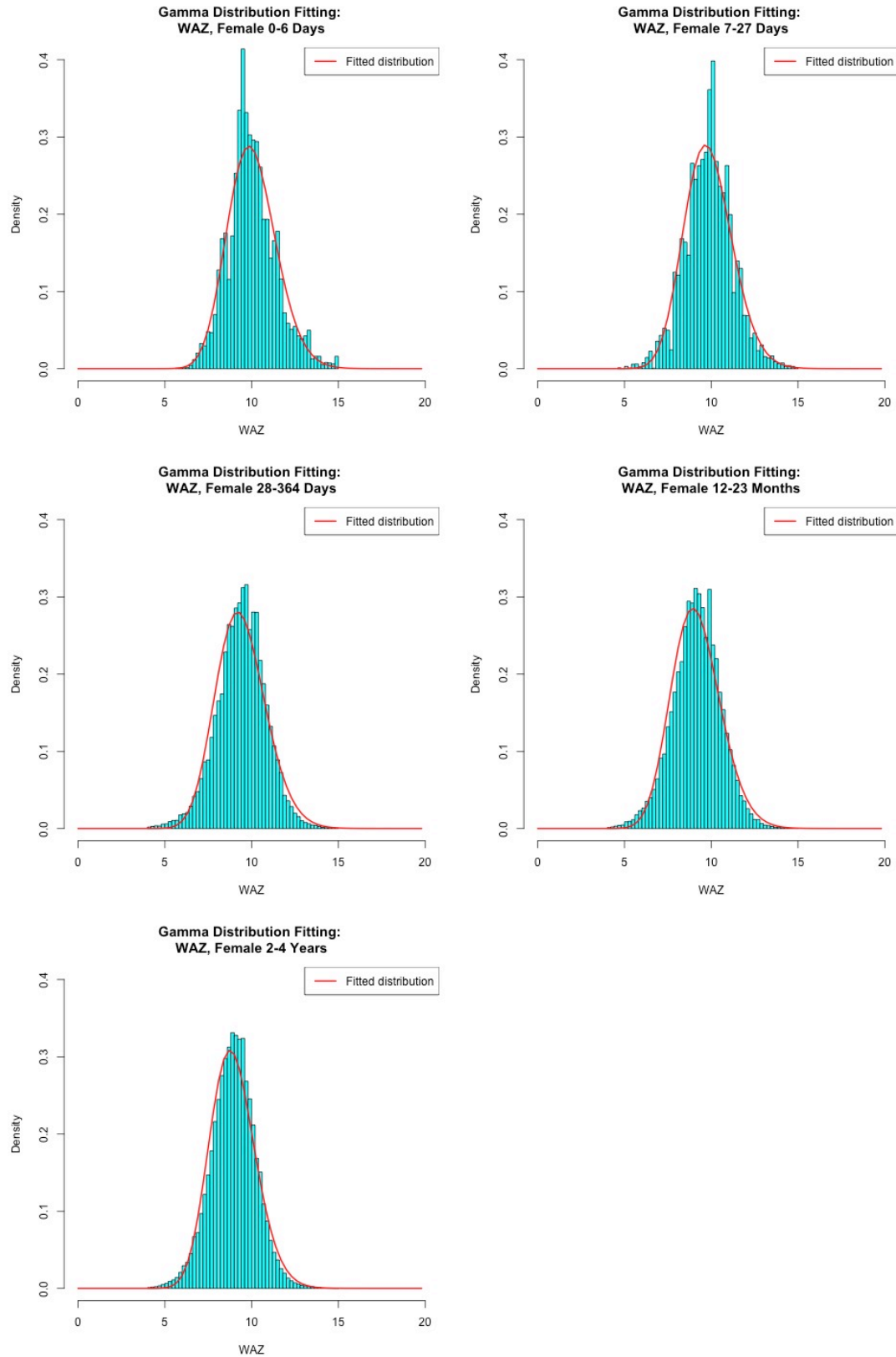
### Weibull



# Appendix 1: Distribution Fits by Indicator, Sex, and Age

## WAZ, Females

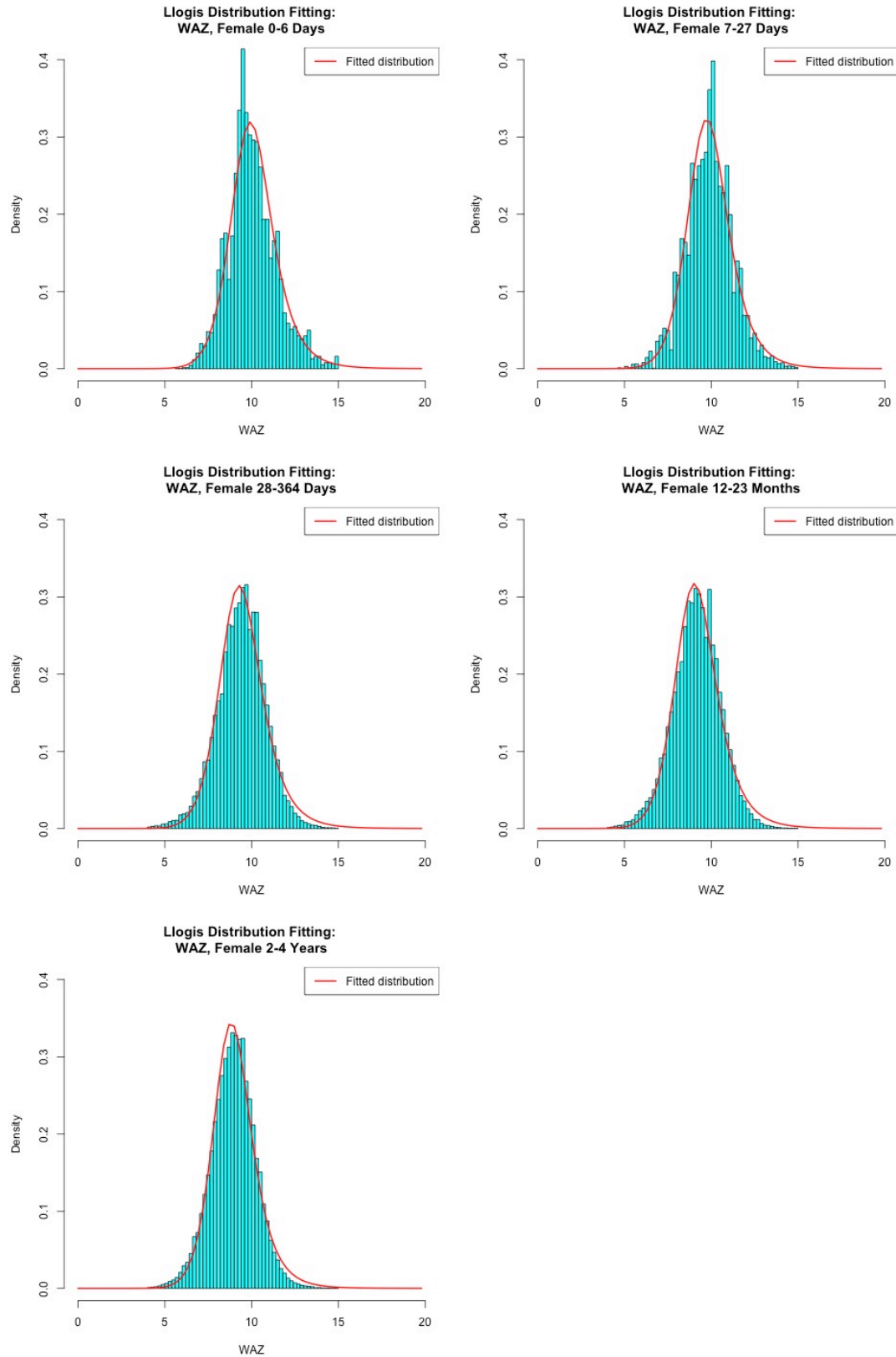
### Gamma



# Appendix 1: Distribution Fits by Indicator, Sex, and Age

## WAZ, Females

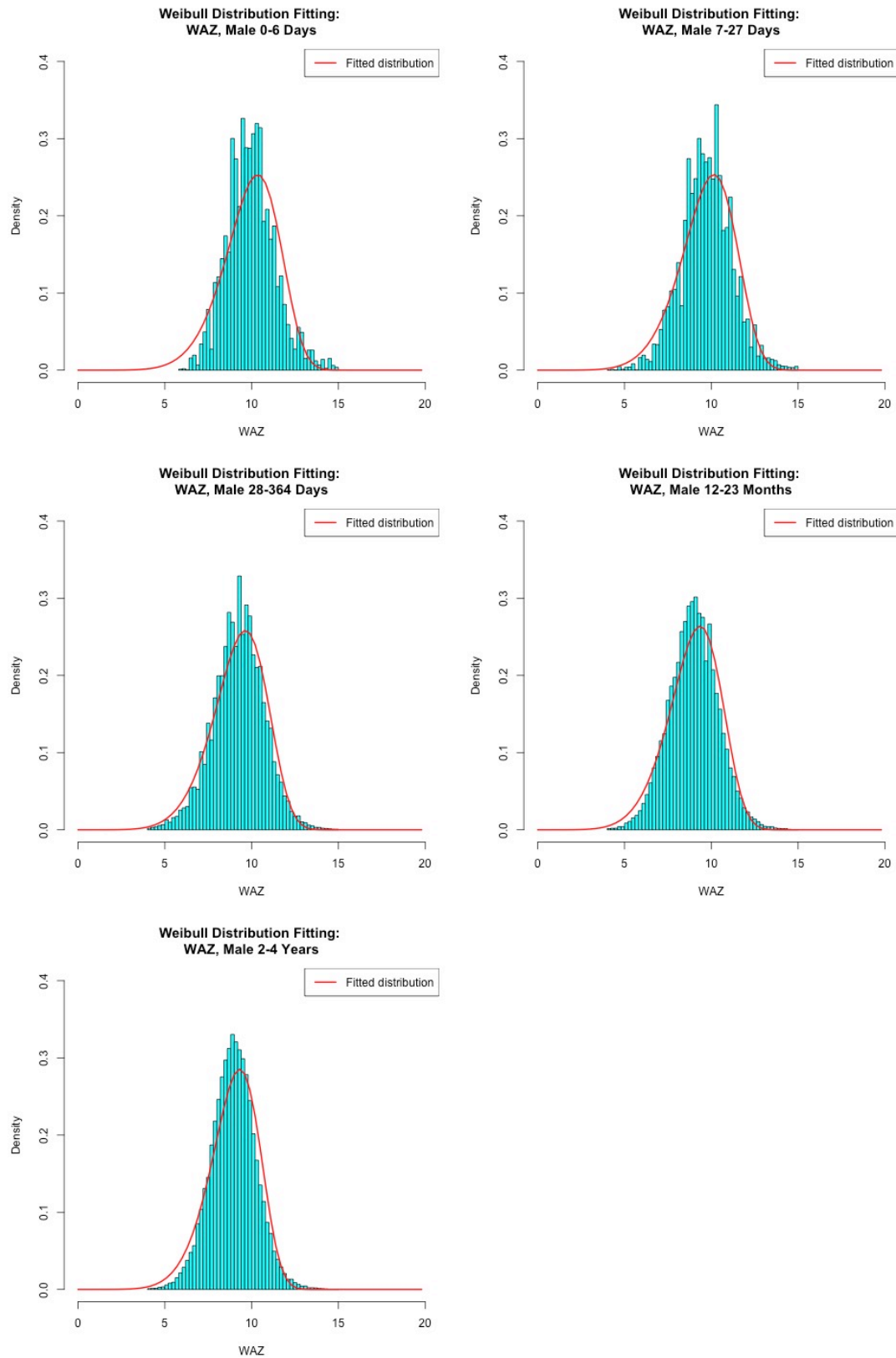
### Log-Logistic



# Appendix 1: Distribution Fits by Indicator, Sex, and Age

## WAZ, Males

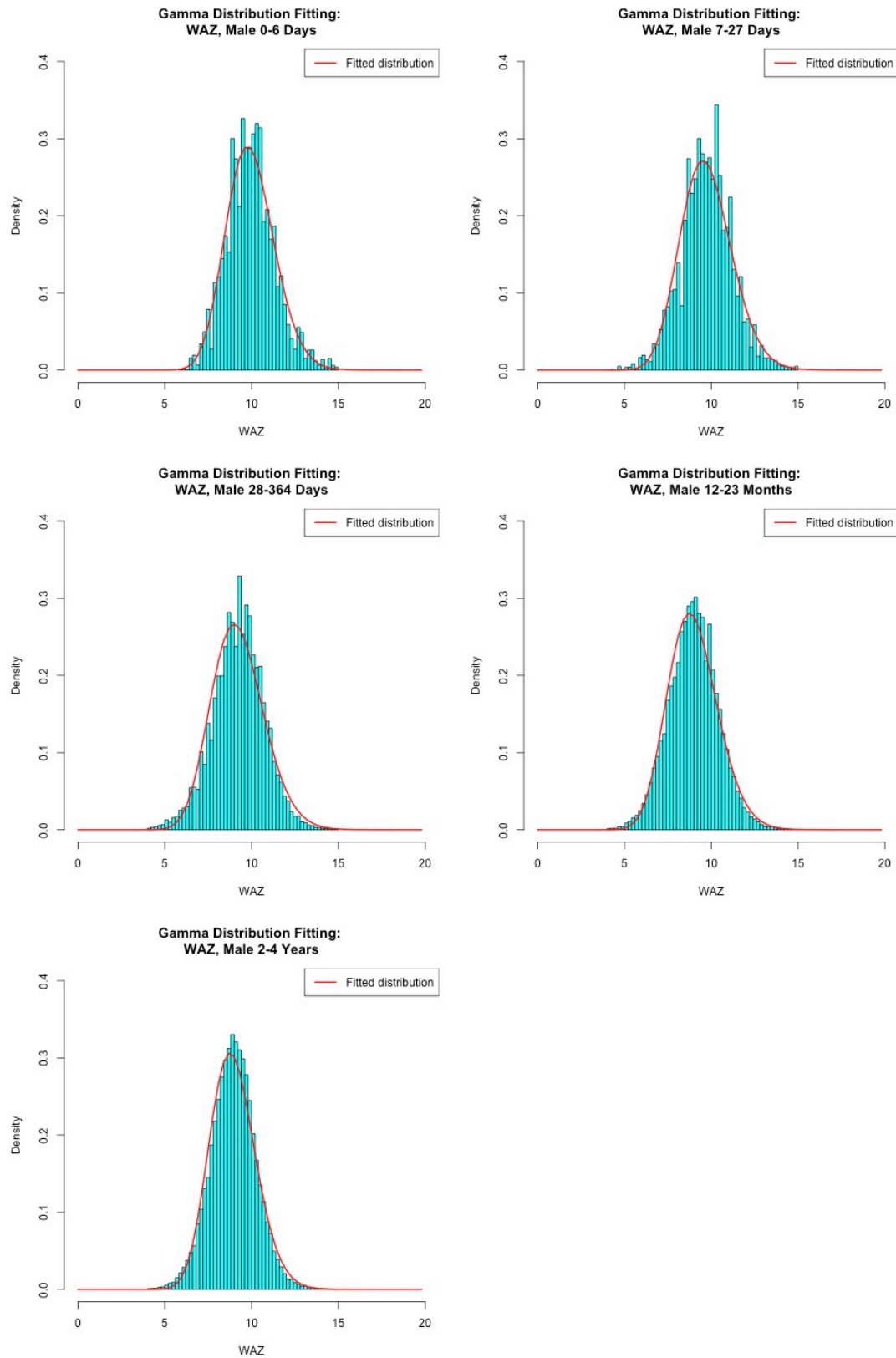
### Weibull



# Appendix 1: Distribution Fits by Indicator, Sex, and Age

## WAZ, Males

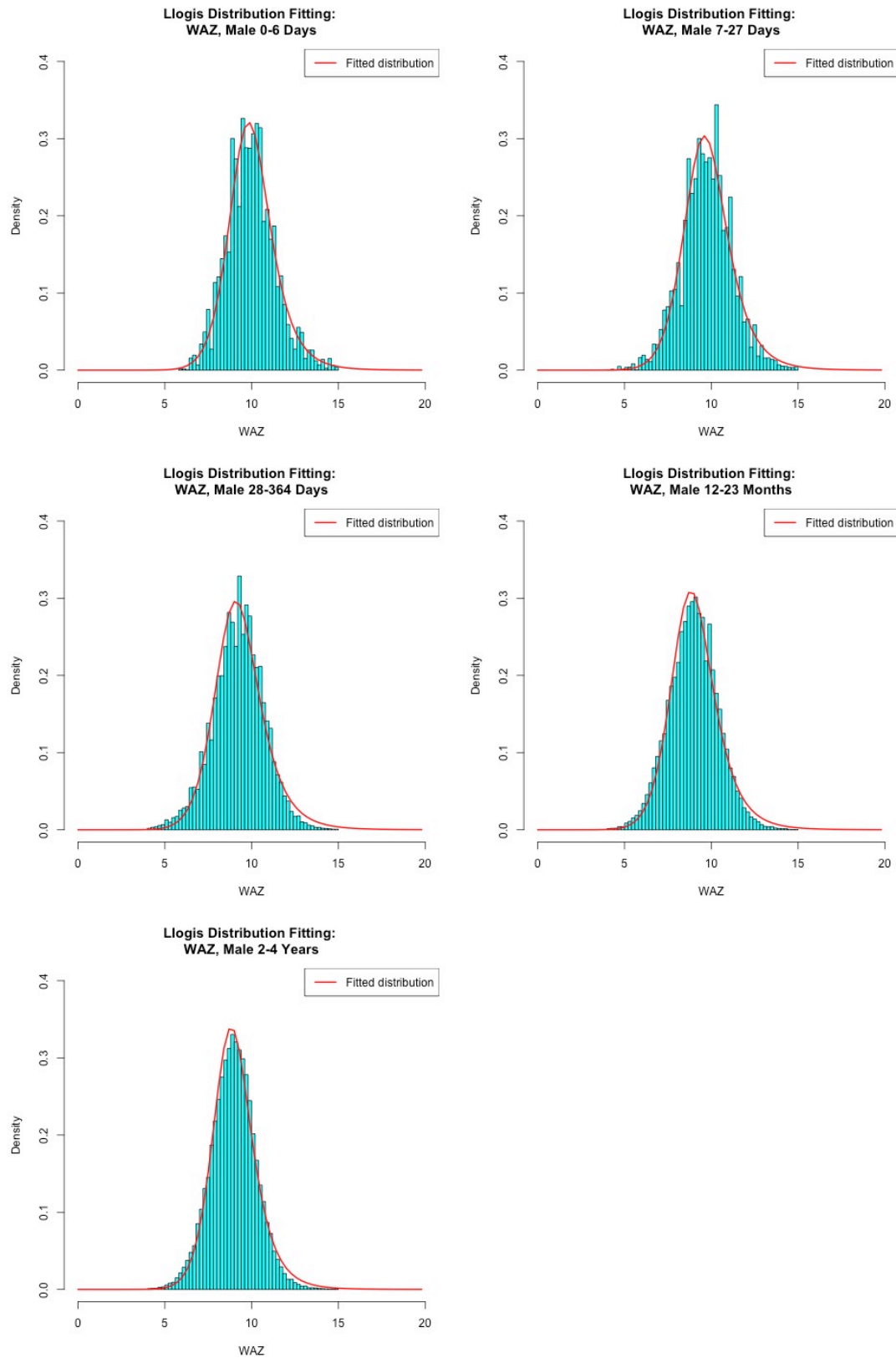
### Gamma



# Appendix 1: Distribution Fits by Indicator, Sex, and Age

## WAZ, Males

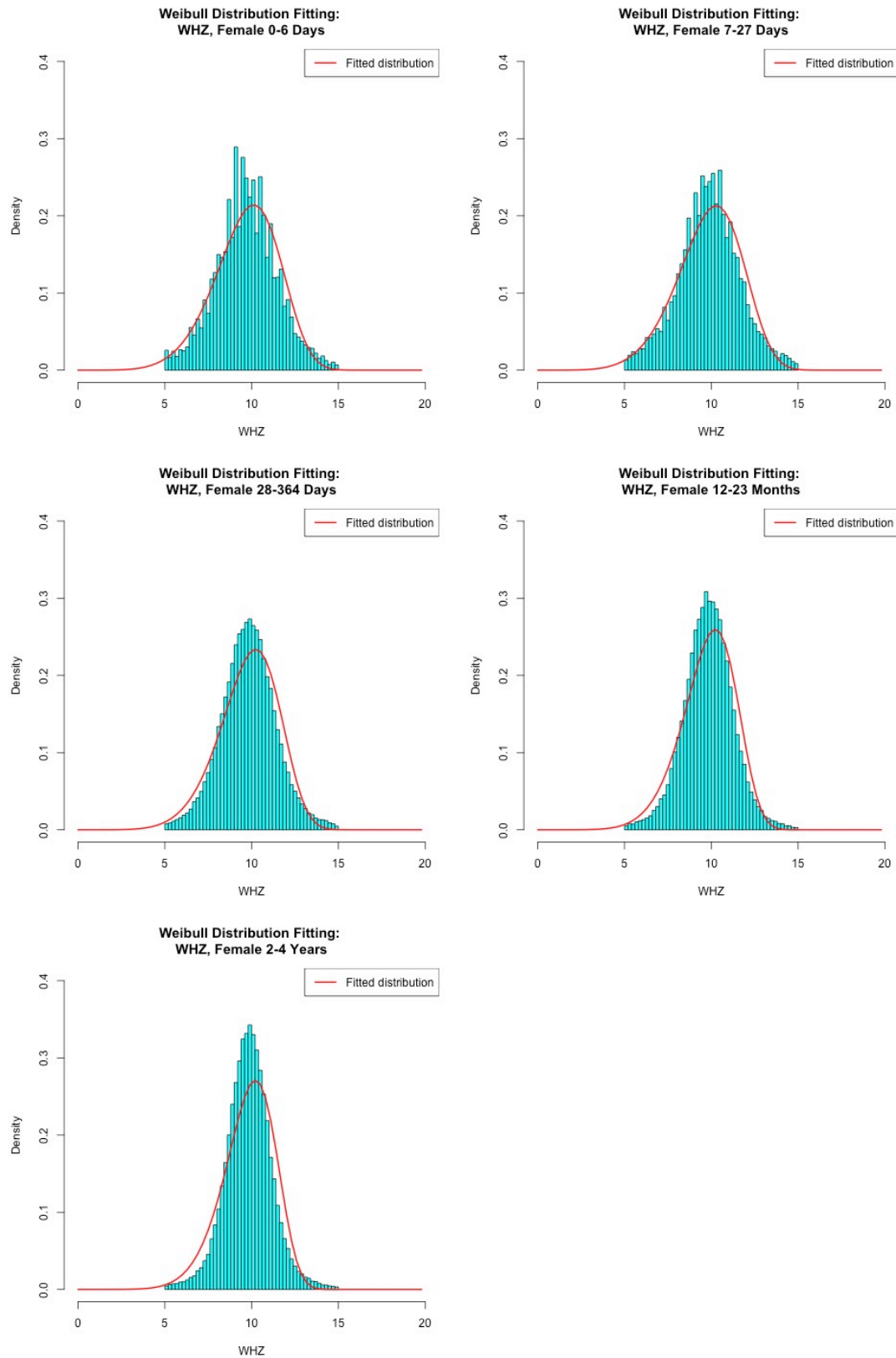
### Log-Logistic



# Appendix 1: Distribution Fits by Indicator, Sex, and Age

## WHZ, Females

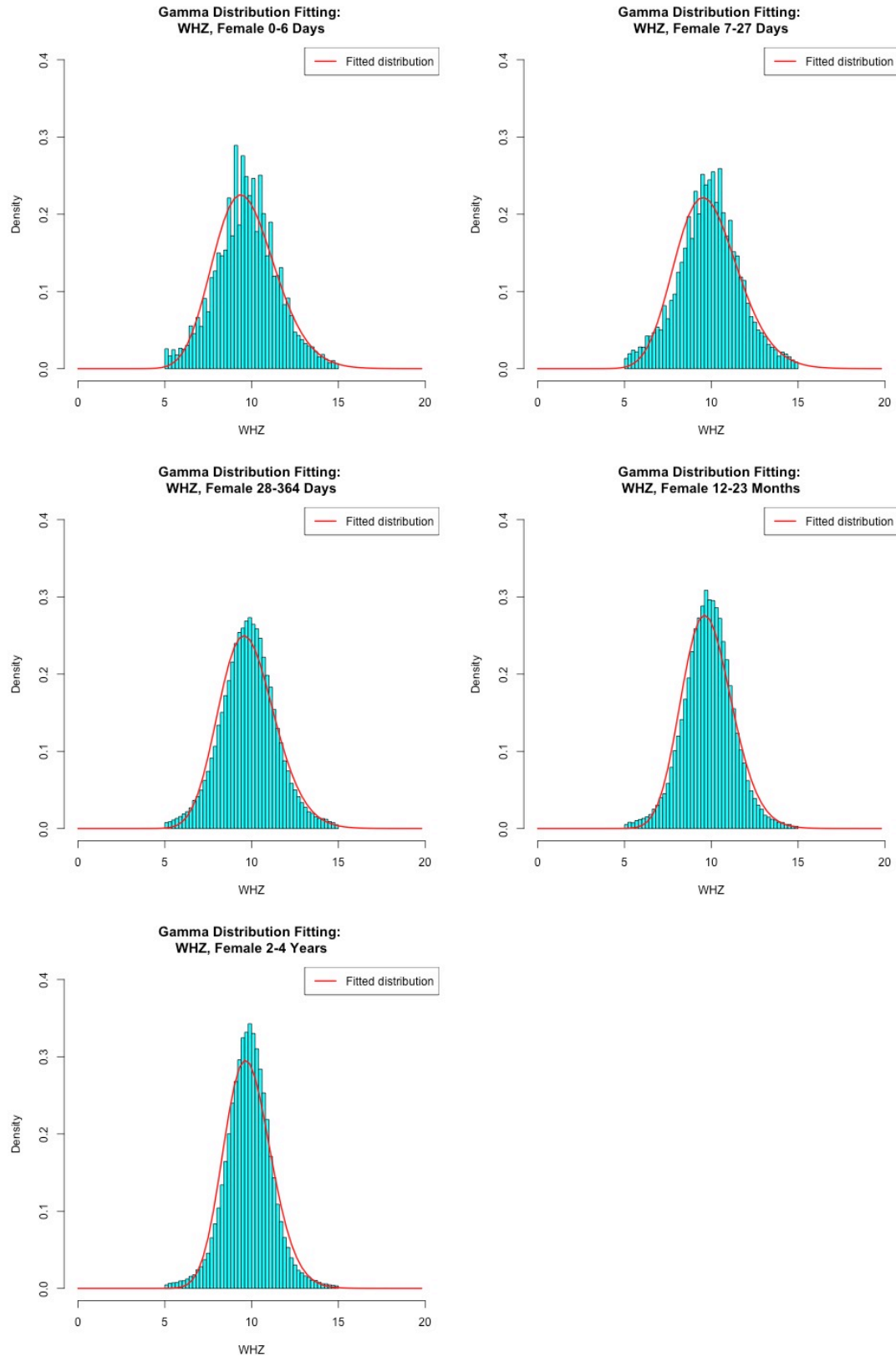
### Weibull



# Appendix 1: Distribution Fits by Indicator, Sex, and Age

## WHZ, Females

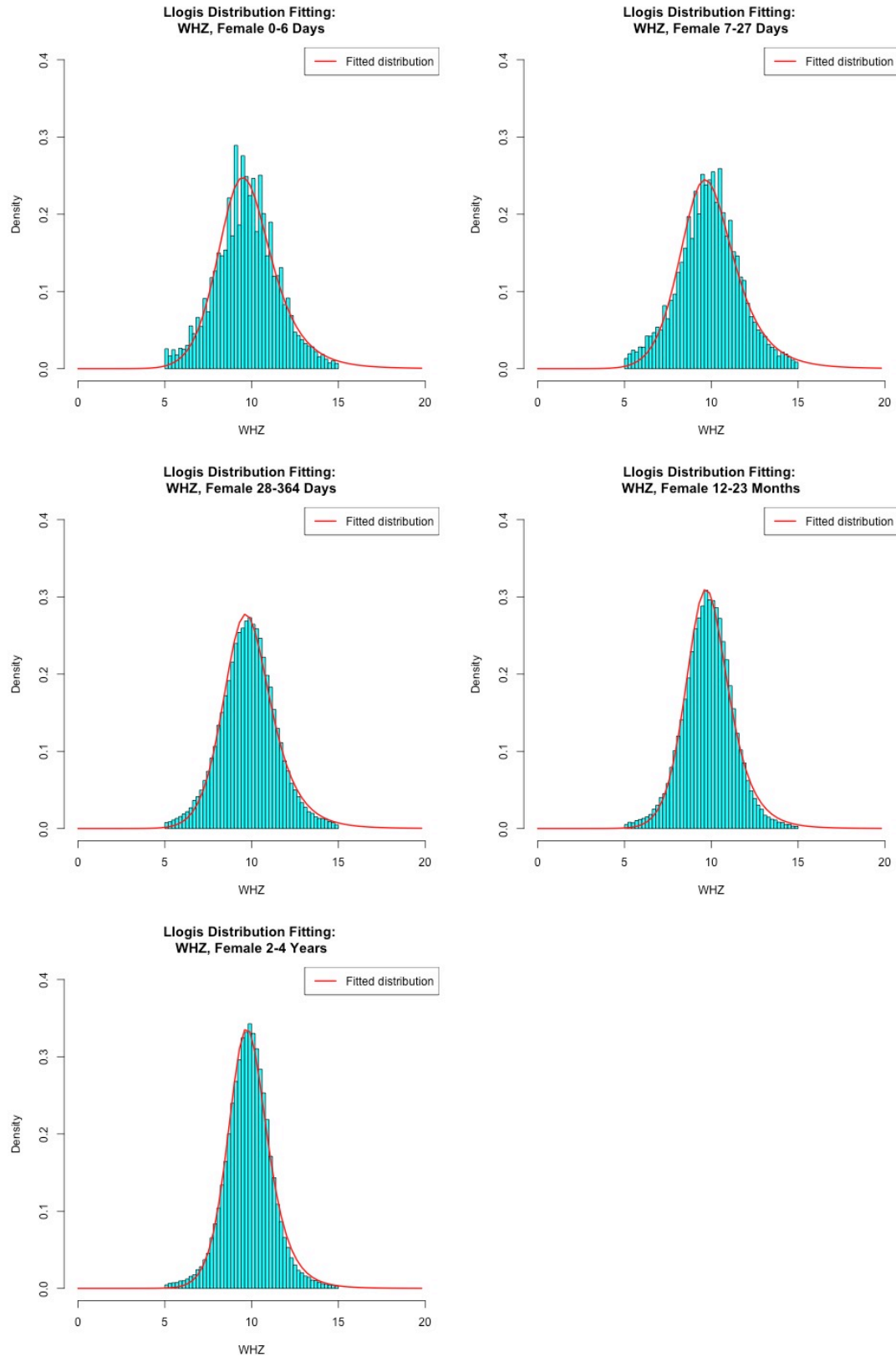
### Gamma



# Appendix 1: Distribution Fits by Indicator, Sex, and Age

## WHZ, Females

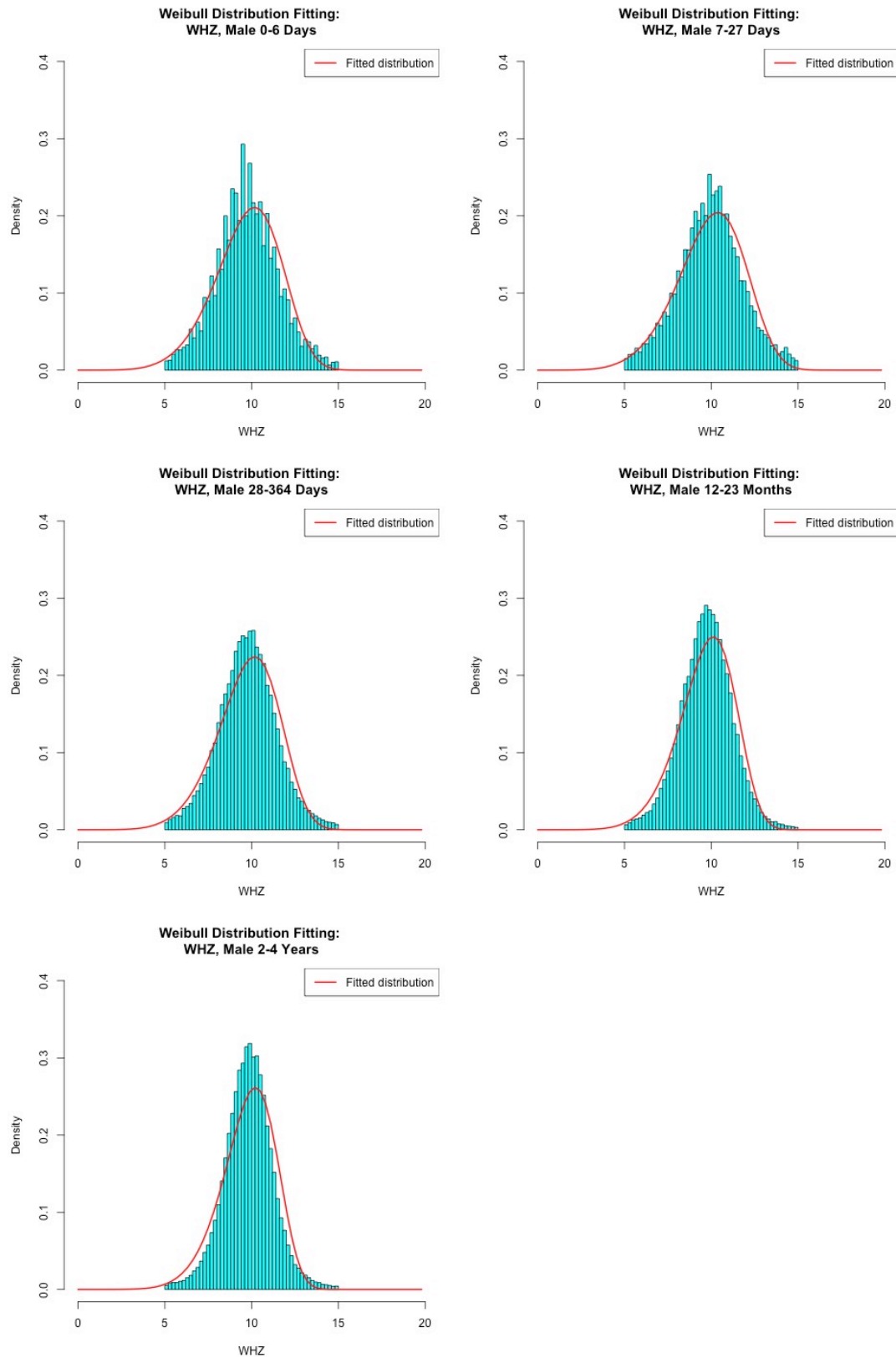
### Log-Logistic



# Appendix 1: Distribution Fits by Indicator, Sex, and Age

## WHZ, Males

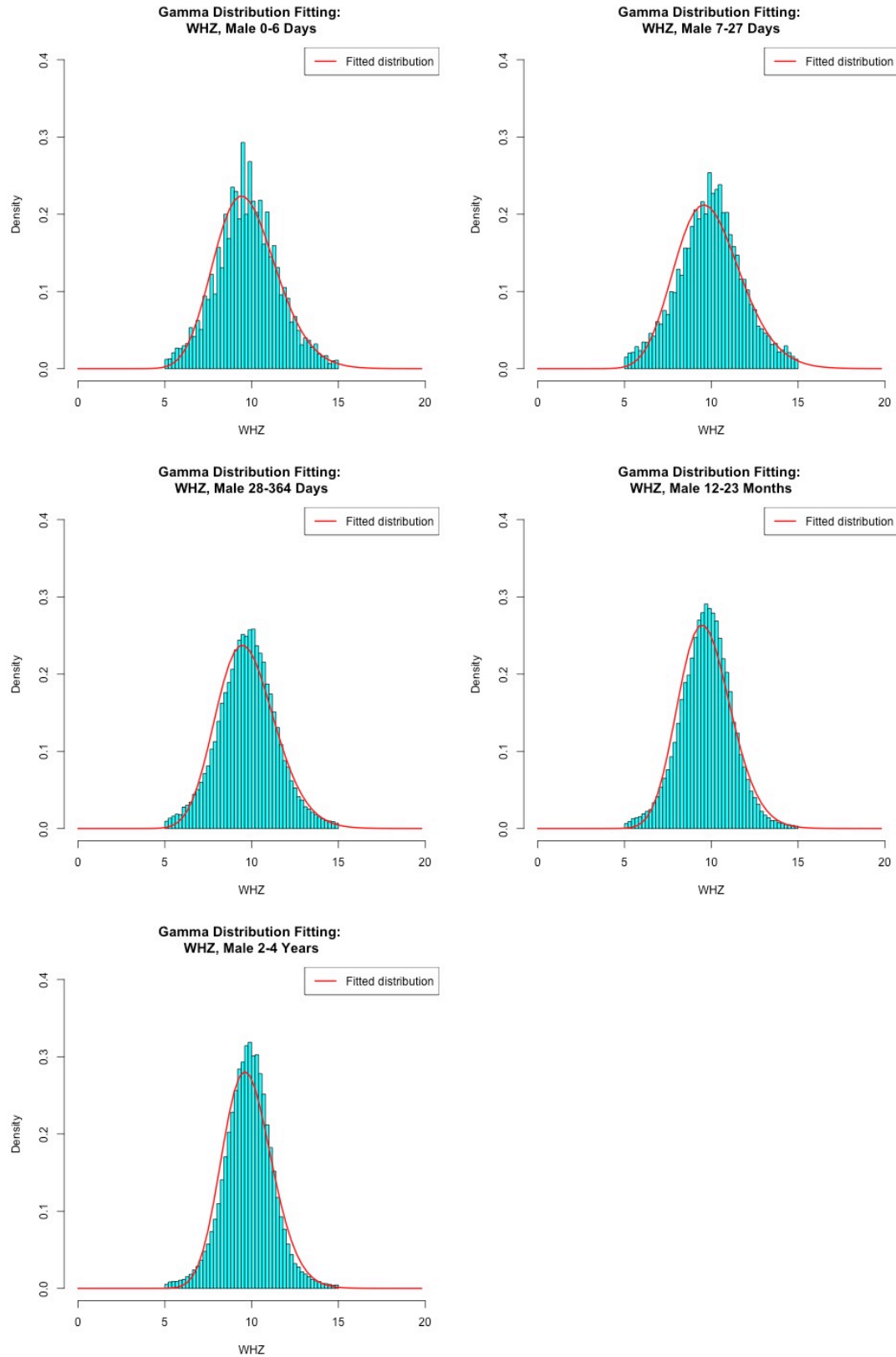
### Weibull



# Appendix 1: Distribution Fits by Indicator, Sex, and Age

## WHZ, Males

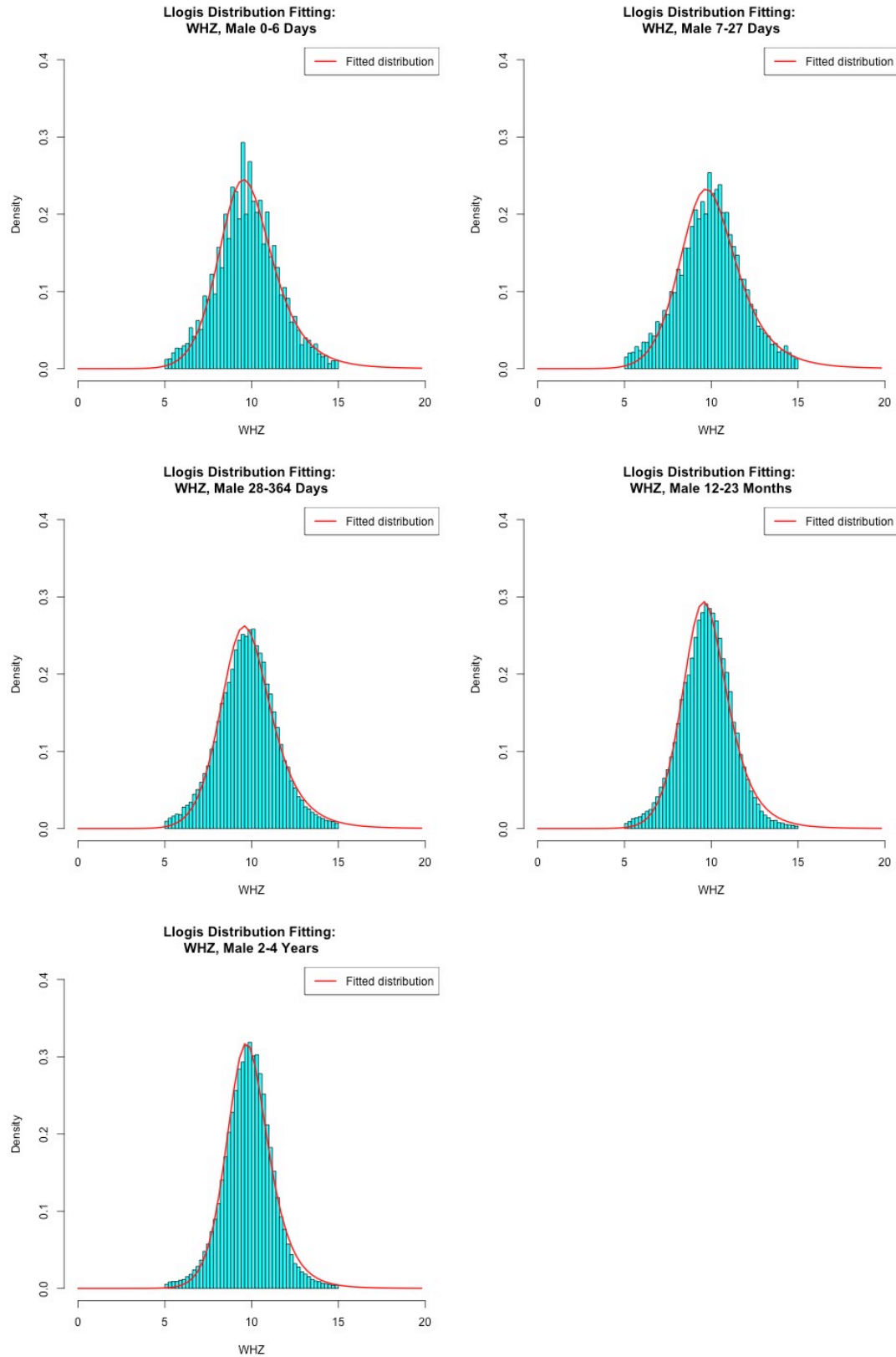
### Gamma



# Appendix 1: Distribution Fits by Indicator, Sex, and Age

## WHZ, Males

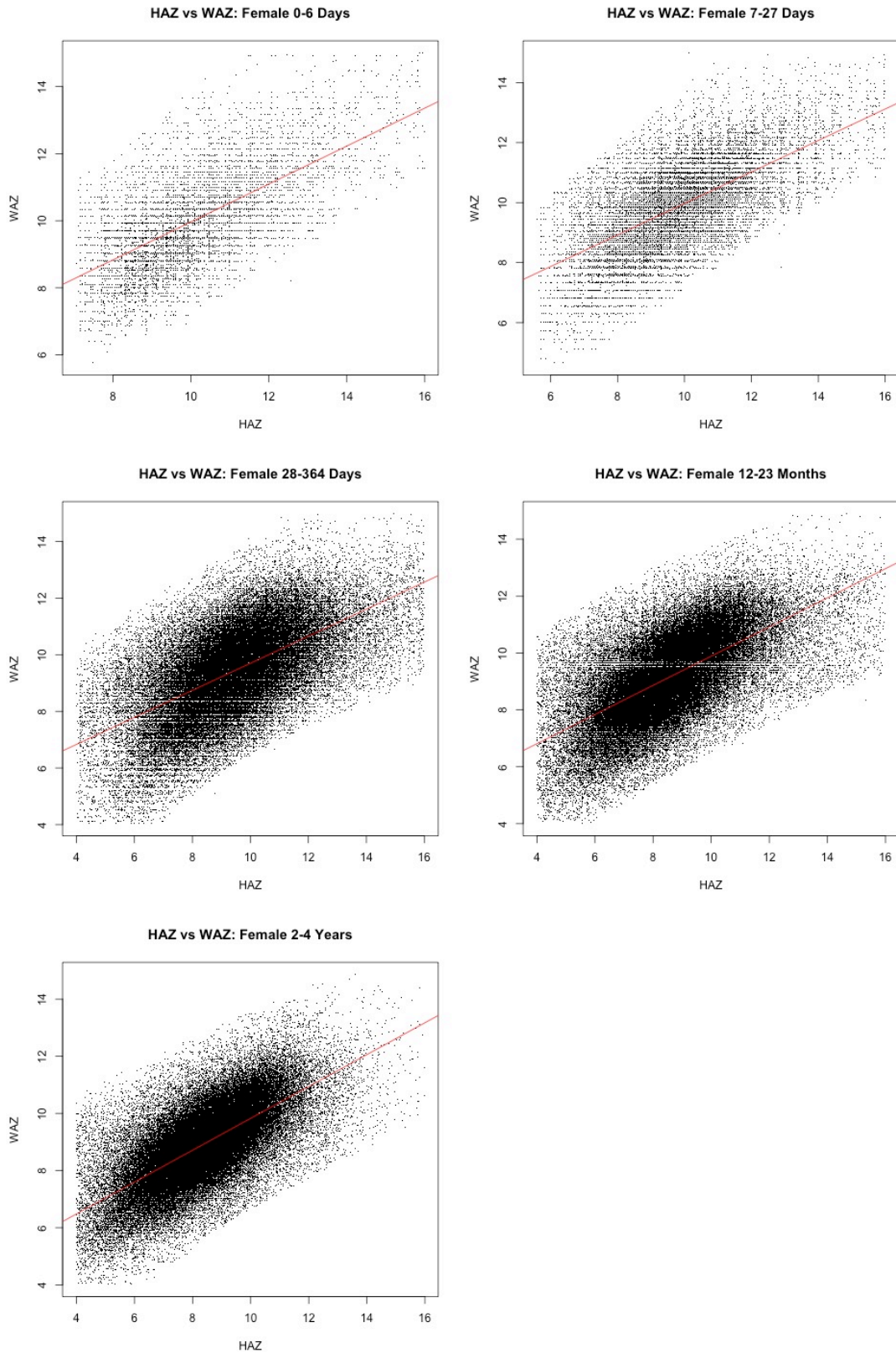
### Log-Logistic



## Appendix 2: Scatters of CGF indicators by Sex and Age

Note: all axes offset by 10 for analysis (e.g., z-score of -3 is represented as 7). Spearman's correlation shown as red line across each scatter.

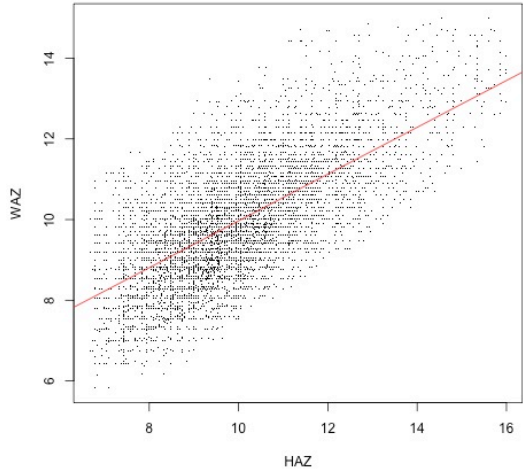
### HAZ vs WAZ, Females



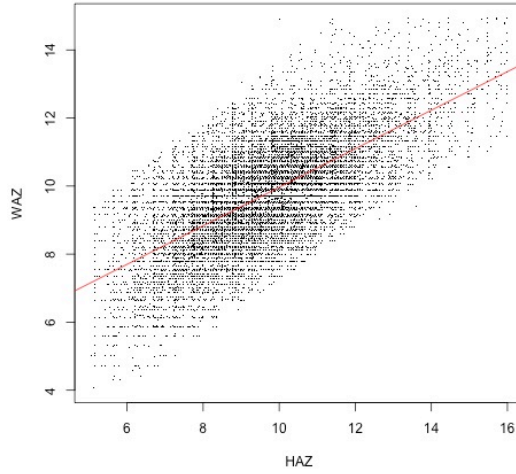
## Appendix 2: Scatters of CGF indicators by Sex and Age

### HAZ vs WAZ, Males

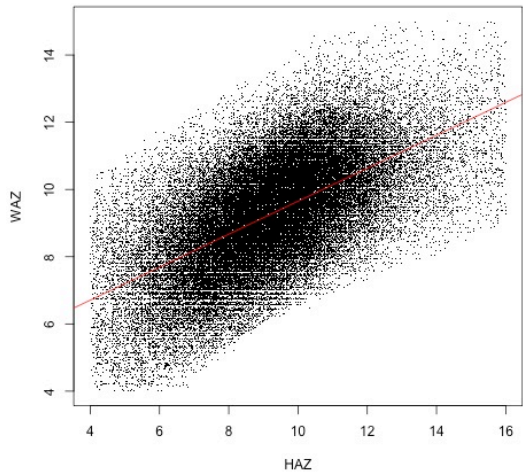
HAZ vs WAZ: Male 0-6 Days



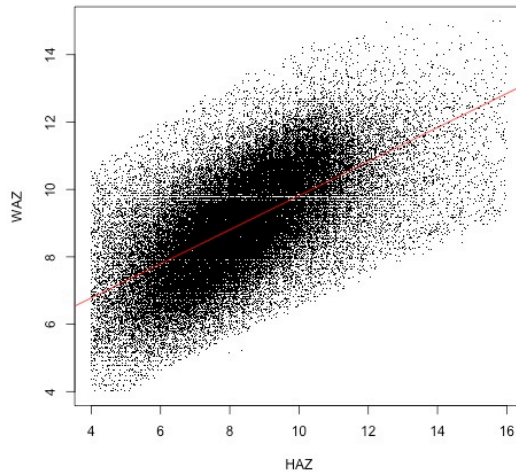
HAZ vs WAZ: Male 7-27 Days



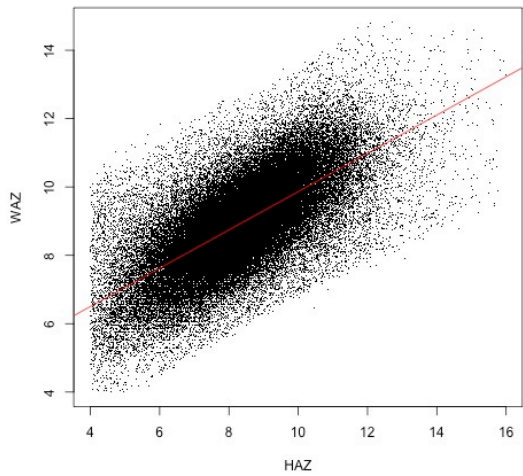
HAZ vs WAZ: Male 28-364 Days



HAZ vs WAZ: Male 12-23 Months



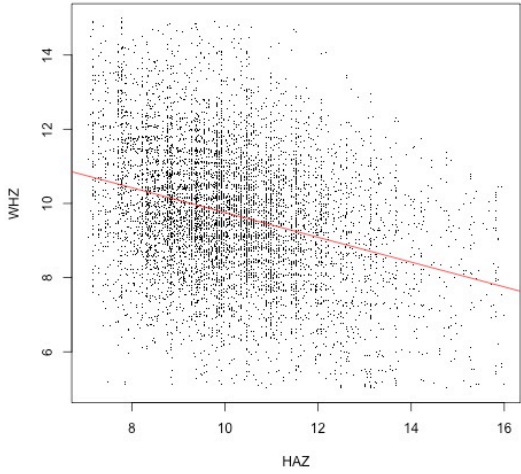
HAZ vs WAZ: Male 2-4 Years



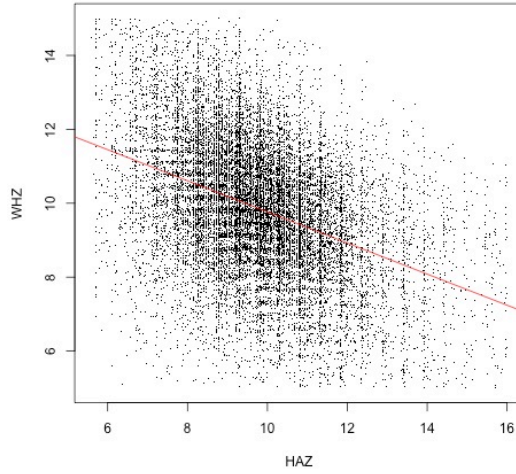
## Appendix 2: Scatters of CGF indicators by Sex and Age

### HAZ vs WHZ, Females

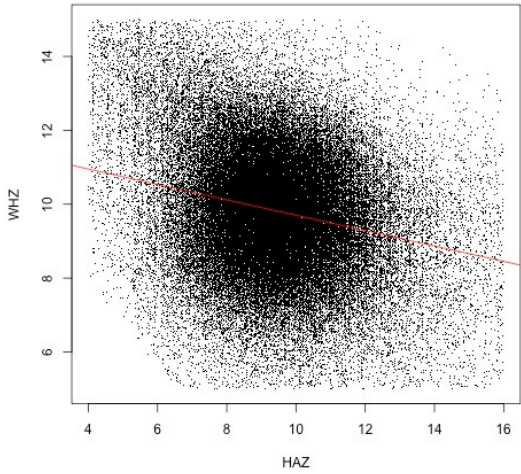
HAZ vs WHZ: Female 0-6 Days



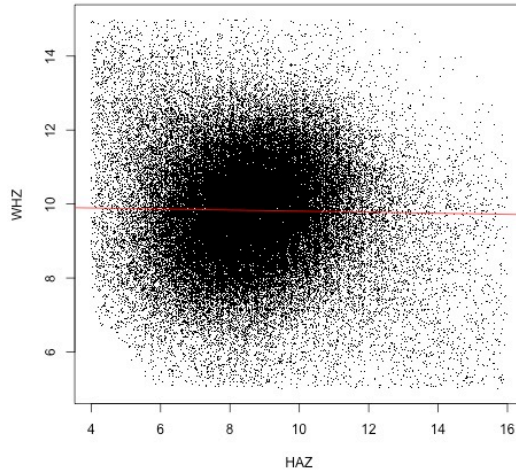
HAZ vs WHZ: Female 7-27 Days



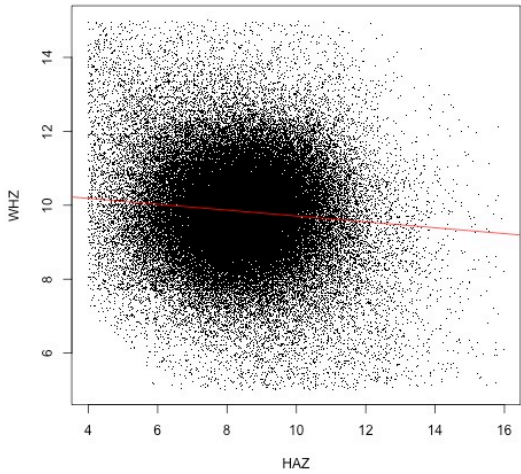
HAZ vs WHZ: Female 28-364 Days



HAZ vs WHZ: Female 12-23 Months



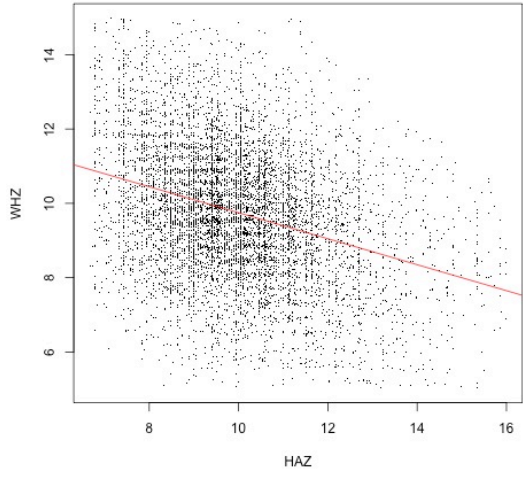
HAZ vs WHZ: Female 2-4 Years



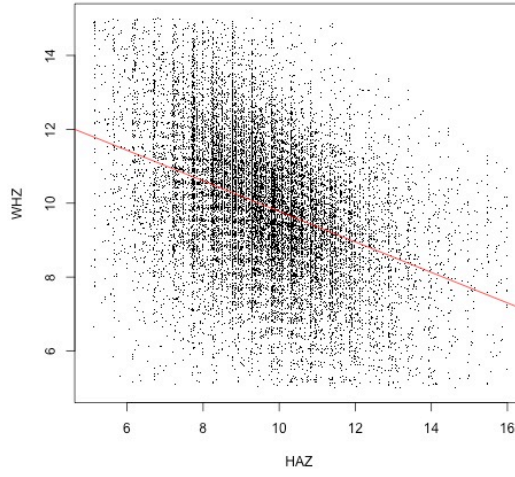
## Appendix 2: Scatters of CGF indicators by Sex and Age

### HAZ vs WHZ, Males

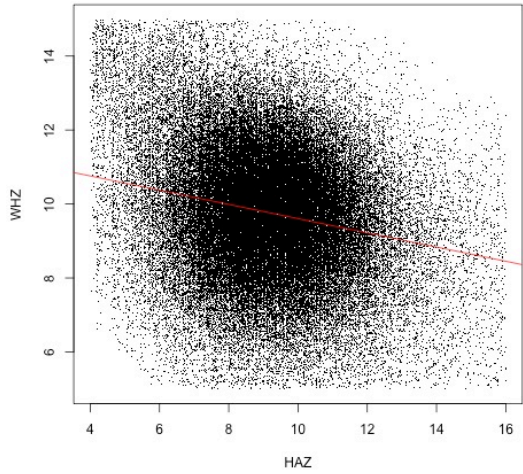
HAZ vs WHZ: Male 0-6 Days



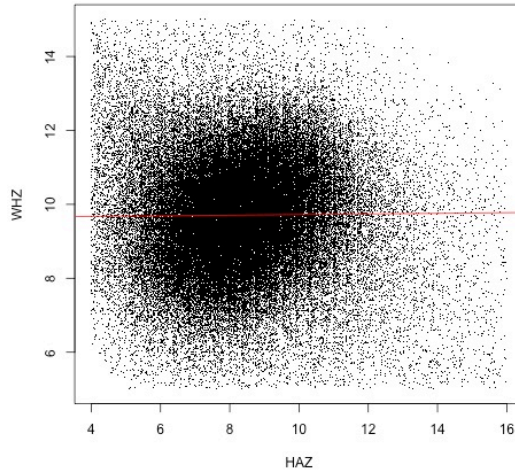
HAZ vs WHZ: Male 7-27 Days



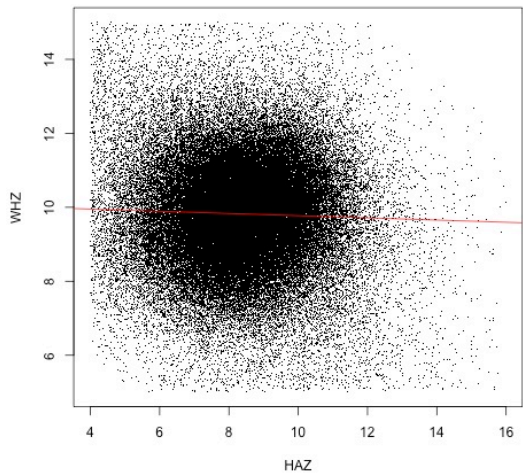
HAZ vs WHZ: Male 28-364 Days



HAZ vs WHZ: Male 12-23 Months



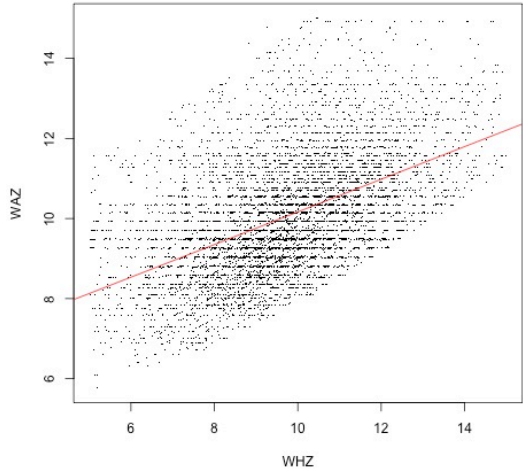
HAZ vs WHZ: Male 2-4 Years



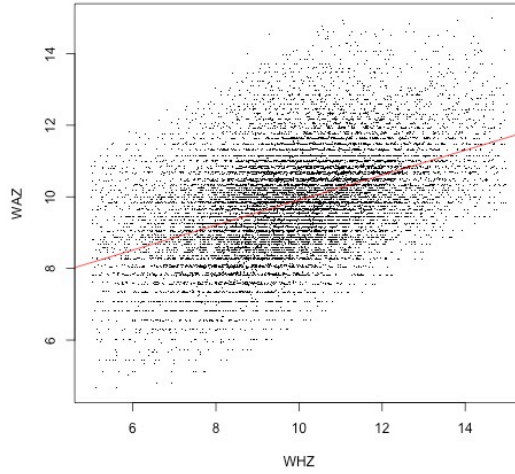
## Appendix 2: Scatters of CGF indicators by Sex and Age

### WAZ vs WHZ, Females

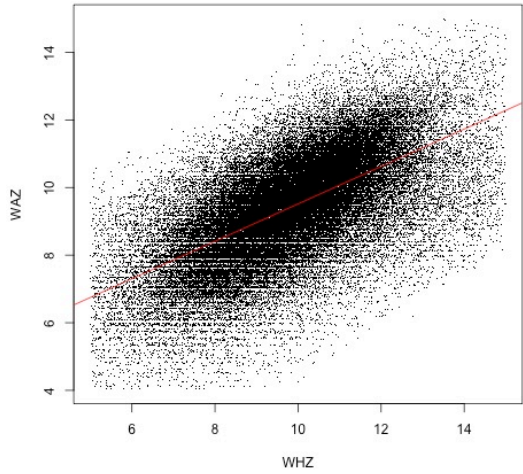
WHZ vs WAZ: Female 0-6 Days



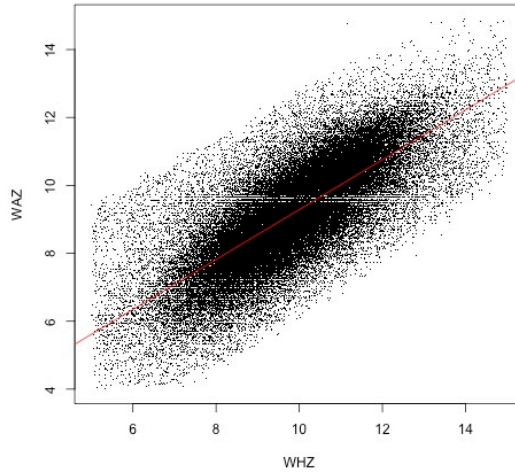
WHZ vs WAZ: Female 7-27 Days



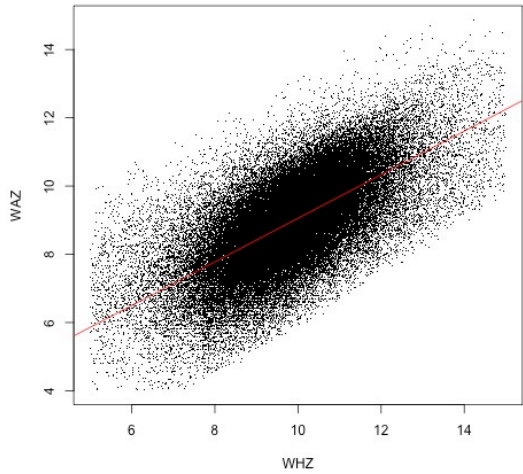
WHZ vs WAZ: Female 28-364 Days



WHZ vs WAZ: Female 12-23 Months



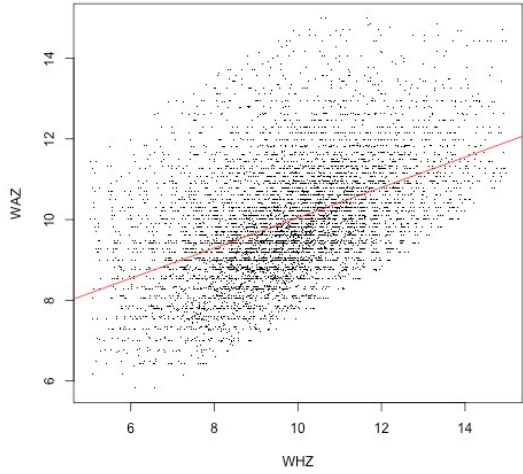
WHZ vs WAZ: Female 2-4 Years



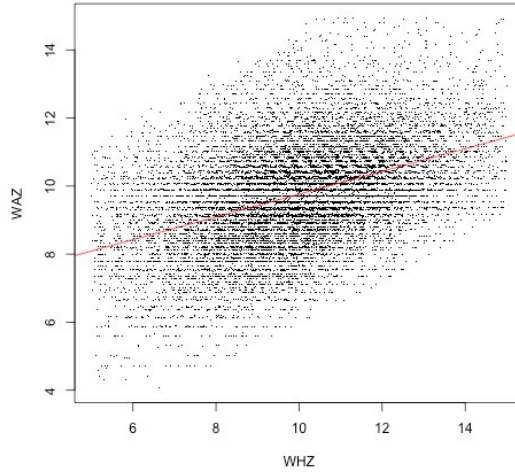
## Appendix 2: Scatters of CGF indicators by Sex and Age

### WAZ vs WHZ, Males

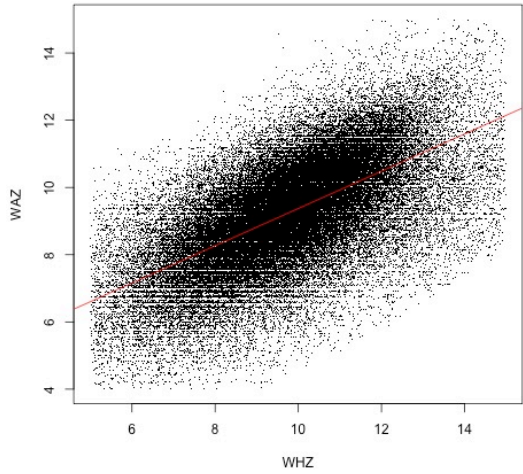
WHZ vs WAZ: Male 0-6 Days



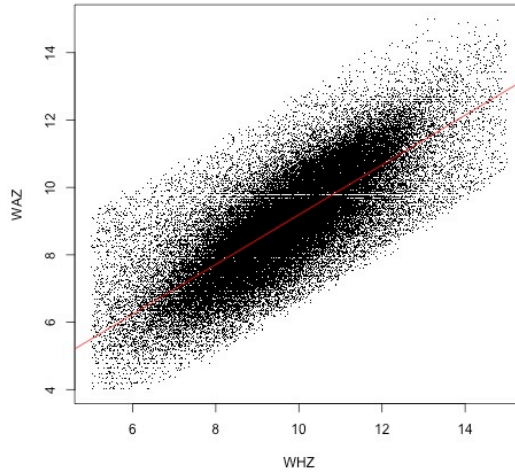
WHZ vs WAZ: Male 7-27 Days



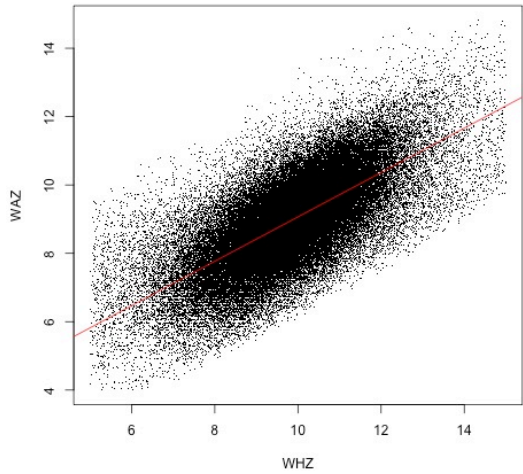
WHZ vs WAZ: Male 28-364 Days



WHZ vs WAZ: Male 12-23 Months

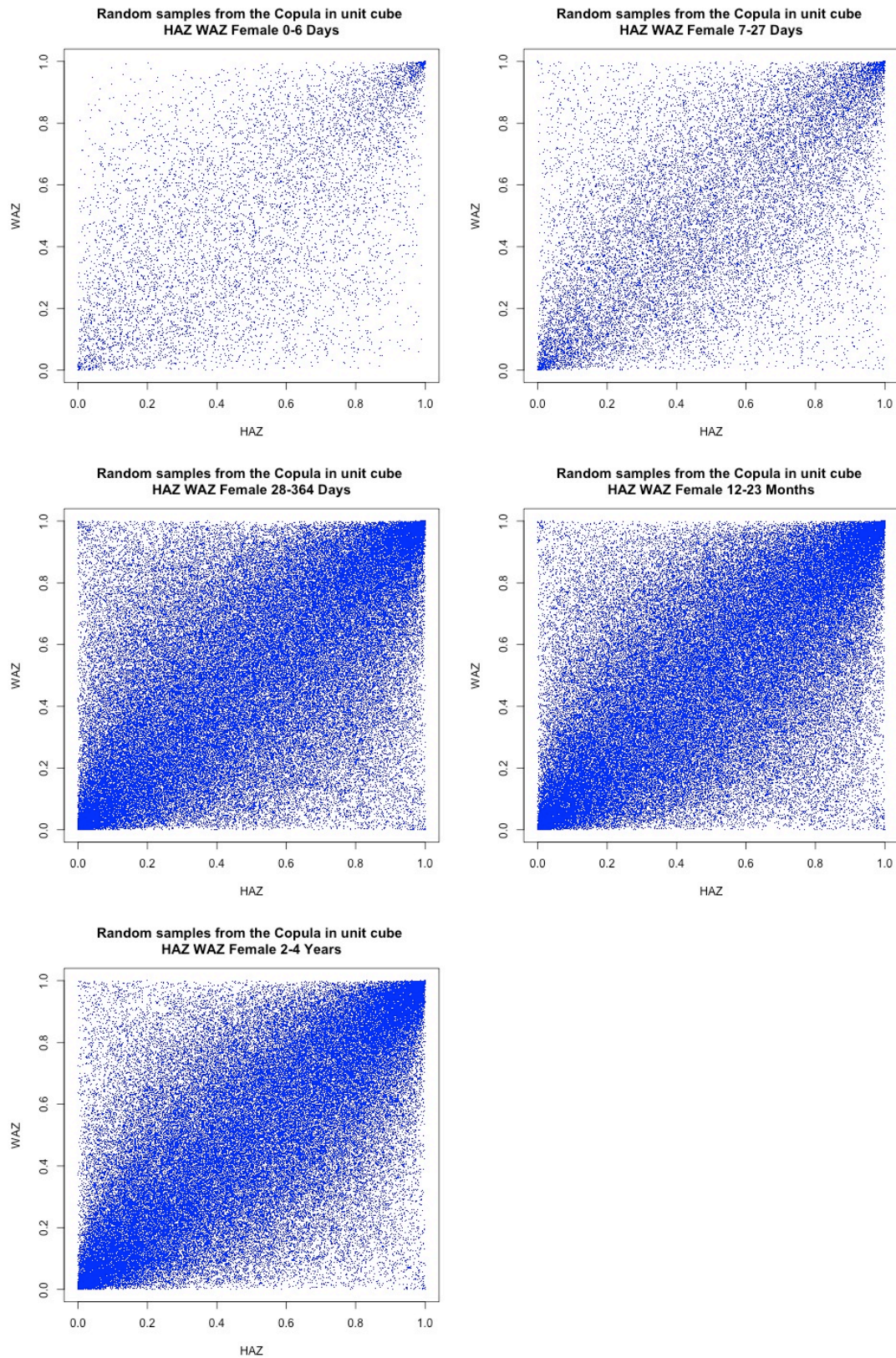


WHZ vs WAZ: Male 2-4 Years



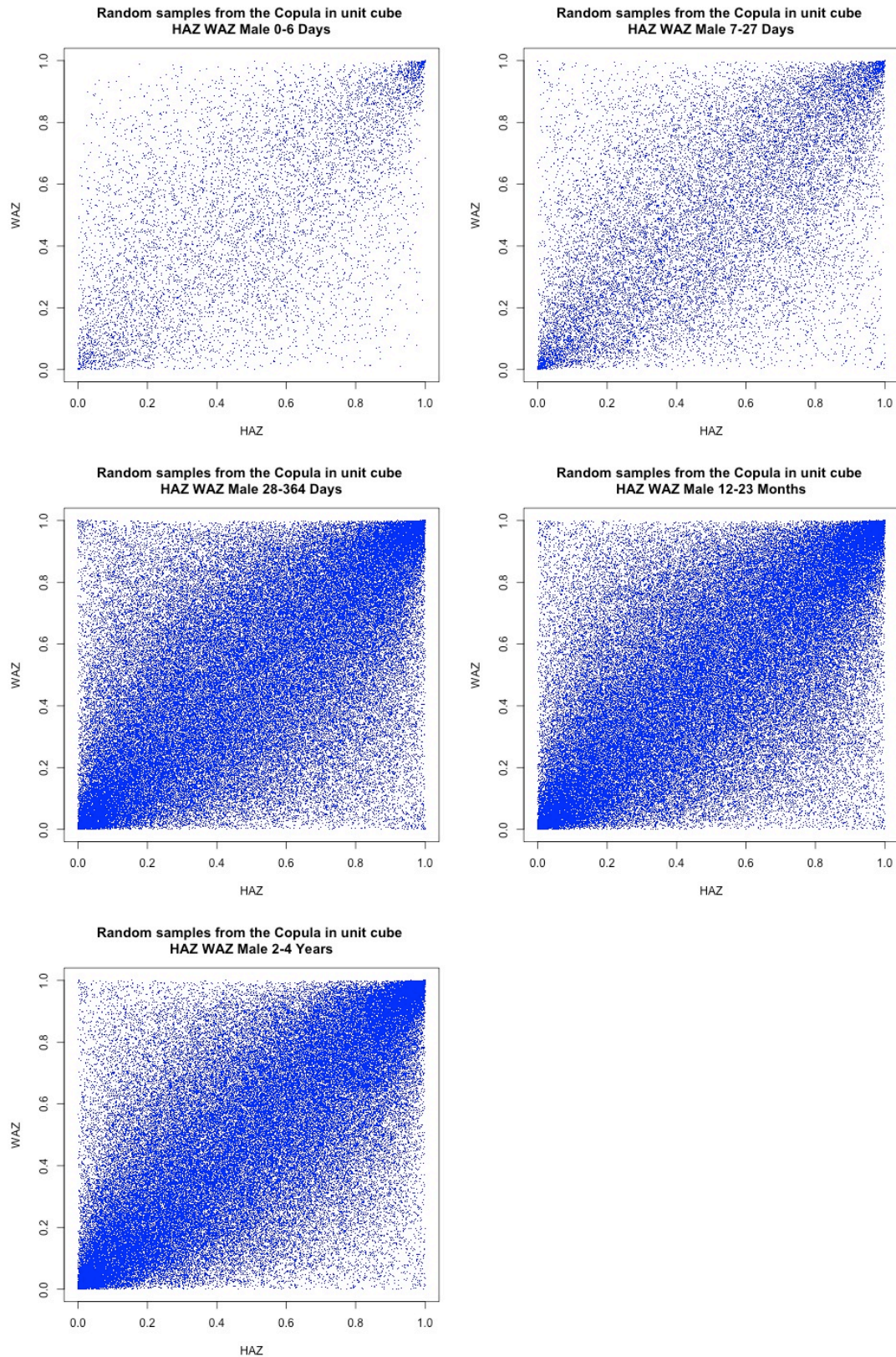
# Appendix 3: Random Samples from the Copula in Unit Cube by Indicator Combination, Sex, and Age

## HAZ vs WAZ, Females



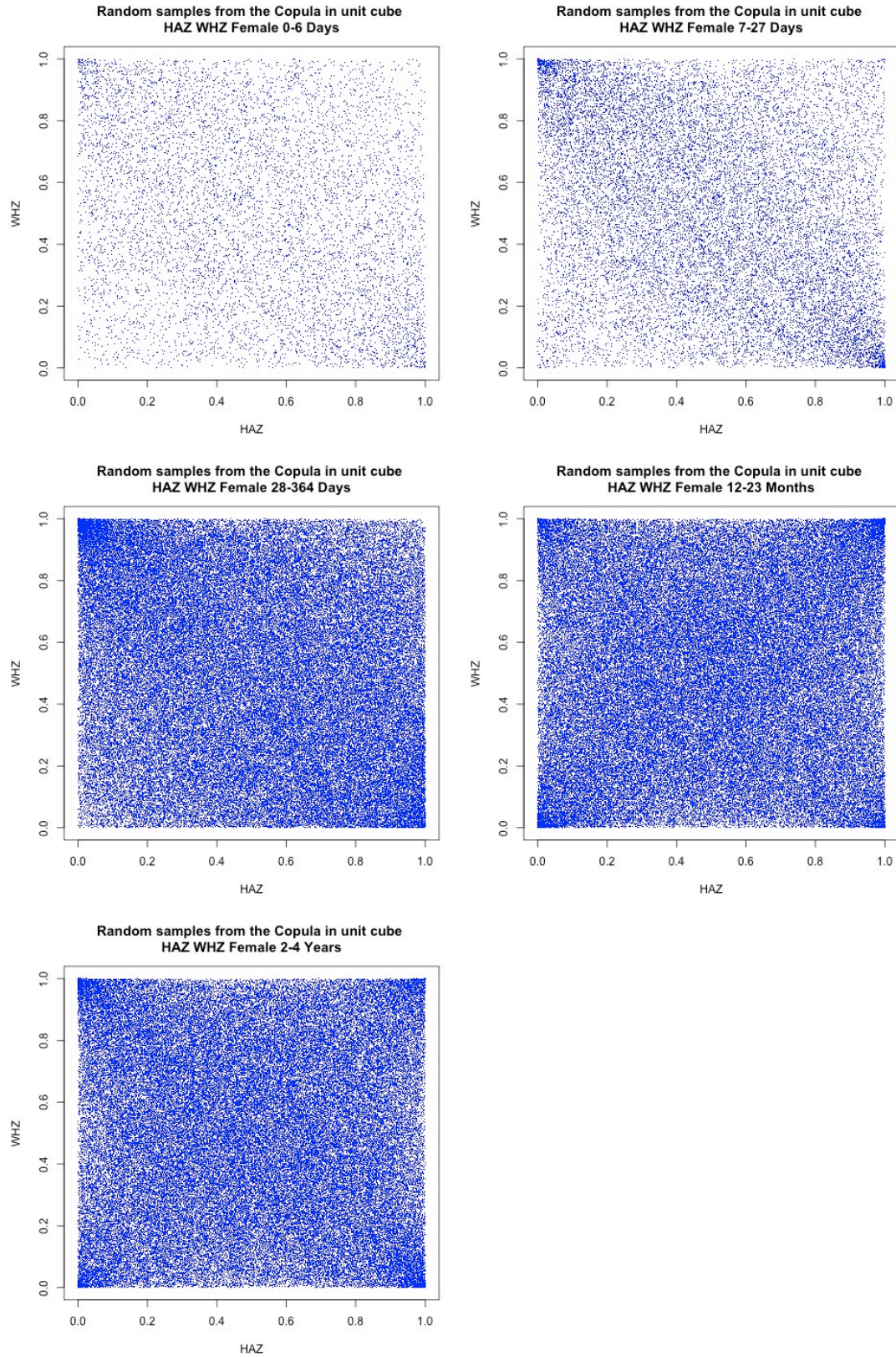
# Appendix 3: Random Samples from the Copula in Unit Cube by Indicator Combination, Sex, and Age

## HAZ vs WAZ, Males



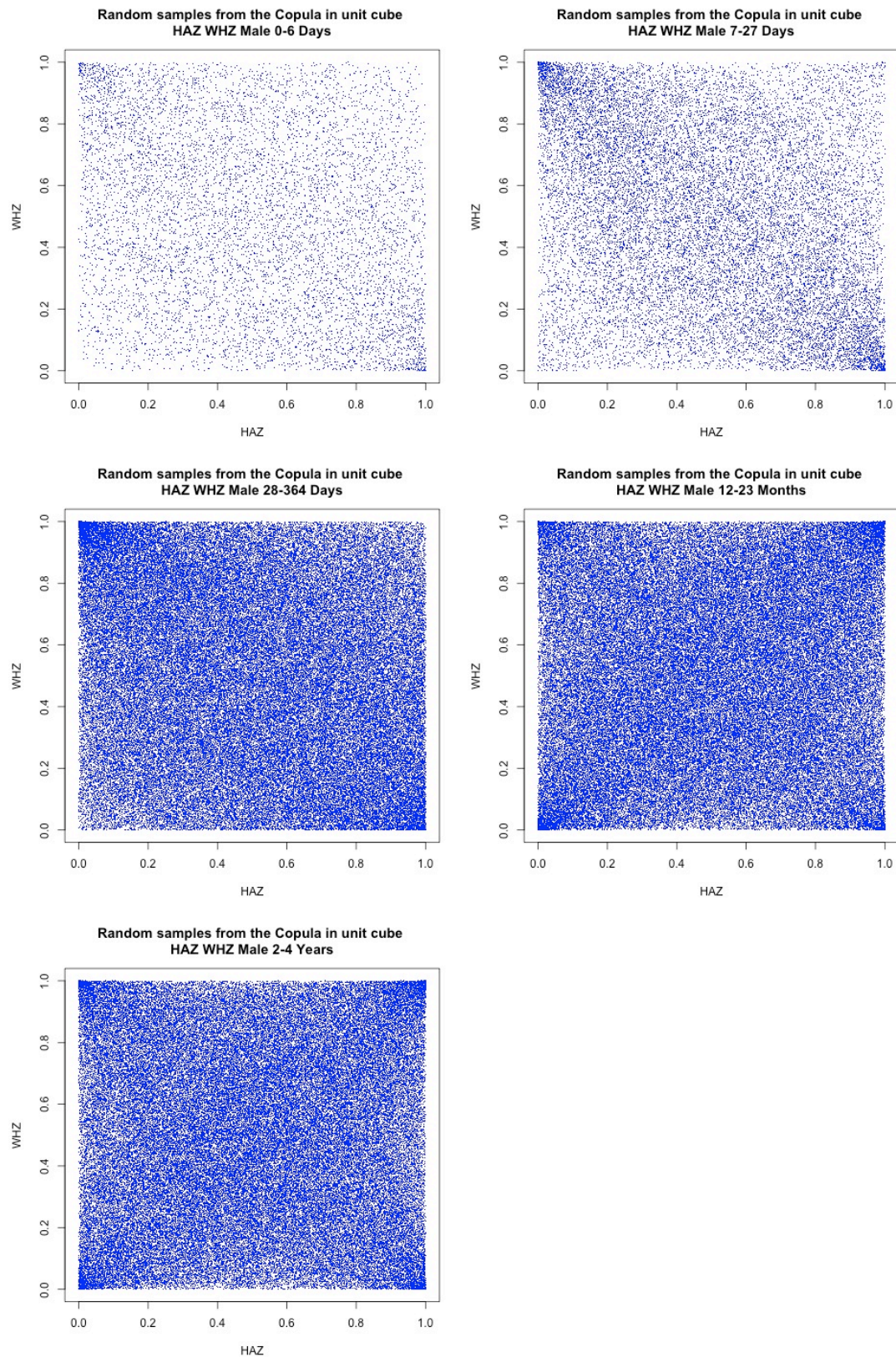
# Appendix 3: Random Samples from the Copula in Unit Cube by Indicator Combination, Sex, and Age

## HAZ vs WHZ, Females



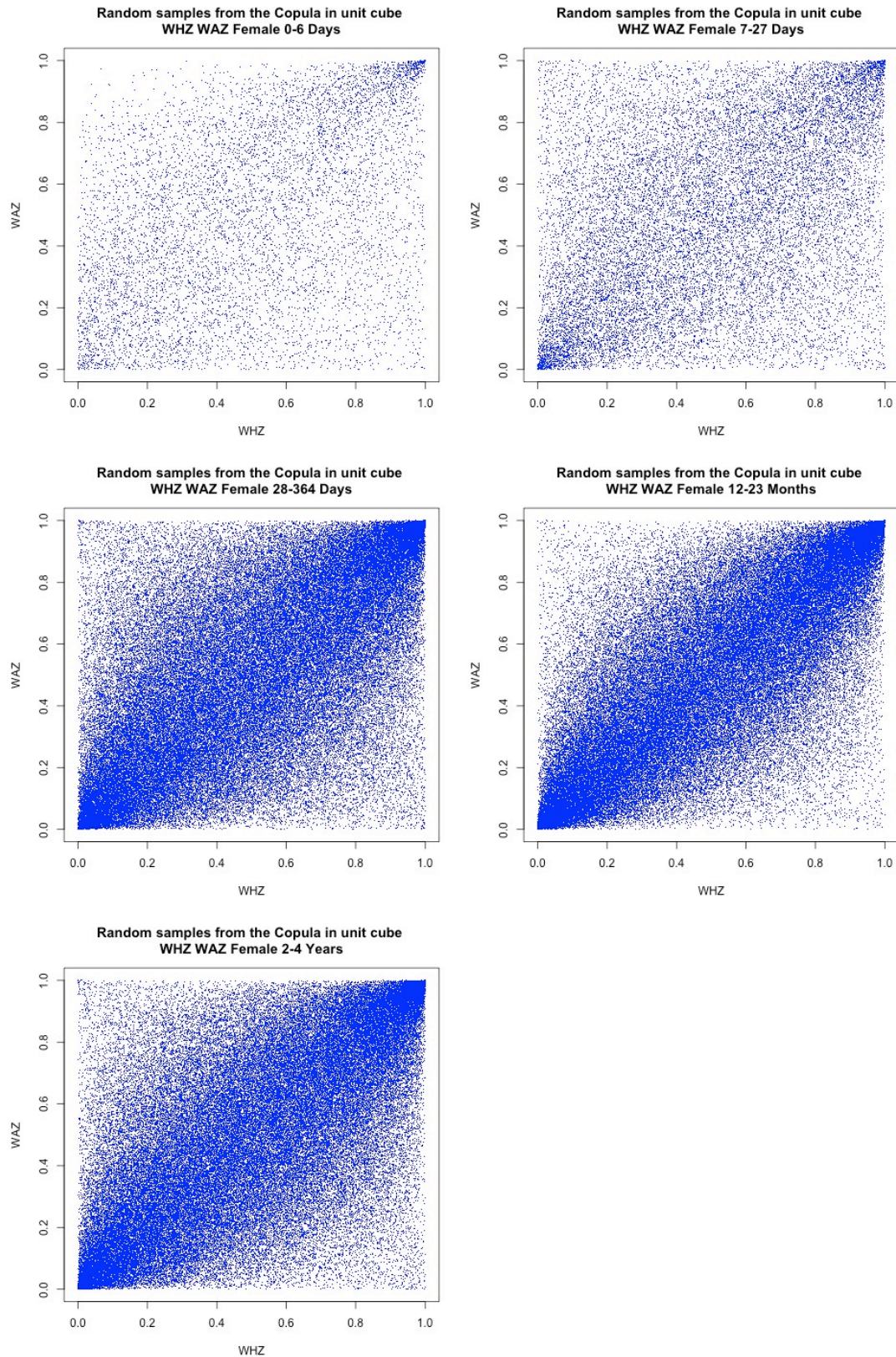
# Appendix 3: Random Samples from the Copula in Unit Cube by Indicator Combination, Sex, and Age

## HAZ vs WHZ, Males



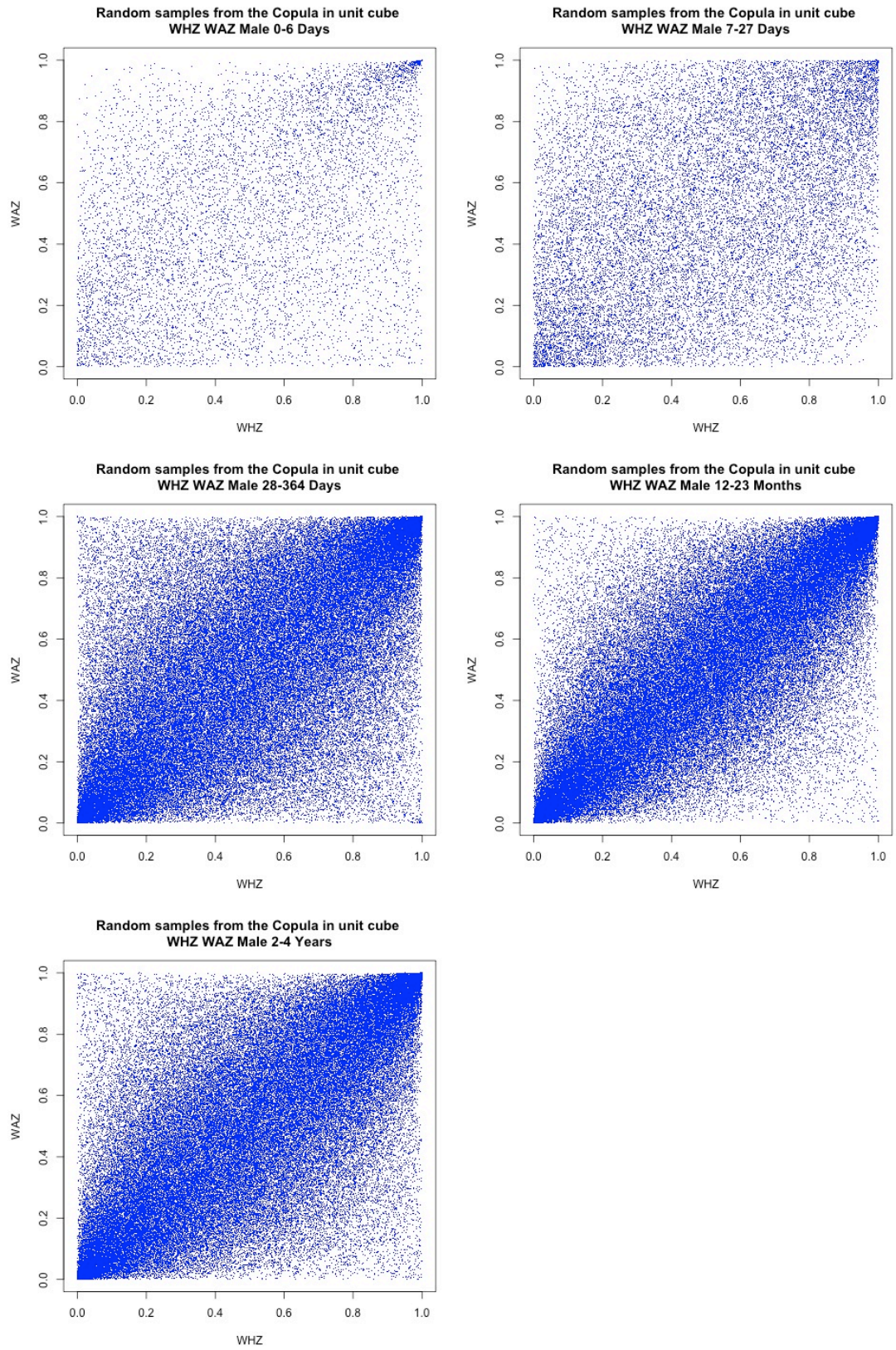
# Appendix 3: Random Samples from the Copula in Unit Cube by Indicator Combination, Sex, and Age

## WAZ vs WHZ, Females



# Appendix 3: Random Samples from the Copula in Unit Cube by Indicator Combination, Sex, and Age

## WAZ vs WHZ, Males

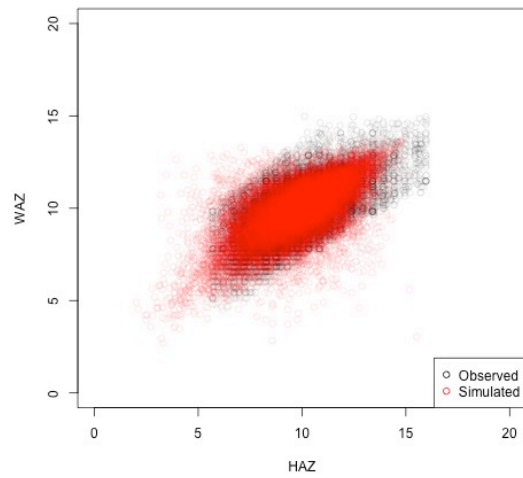
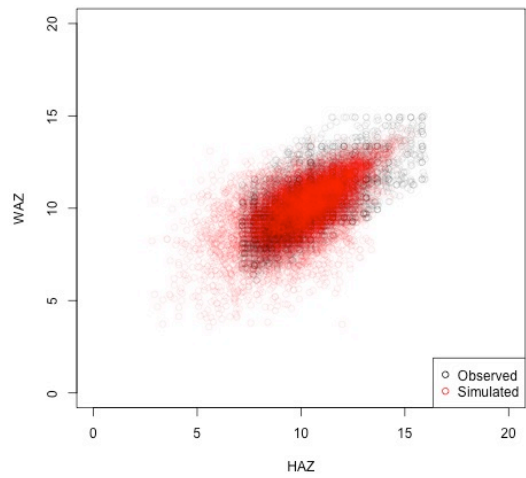


# Appendix 4: Joint Distributions: Comparison of Simulated and Observed Data, by Indicator Combination, Distribution, Sex, and Age

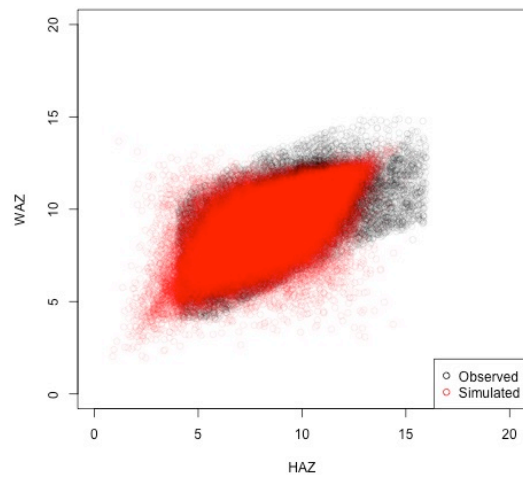
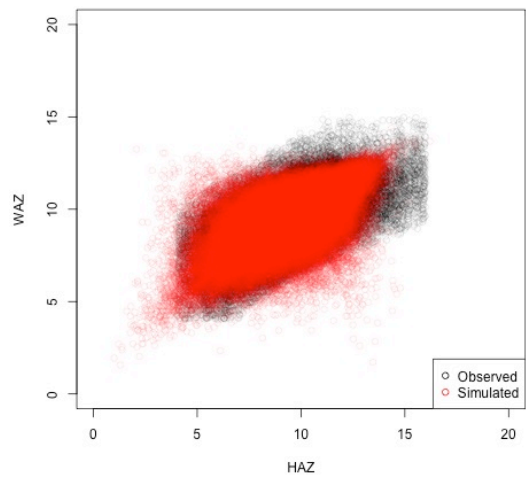
## HAZ vs WAZ, Females

### Weibull

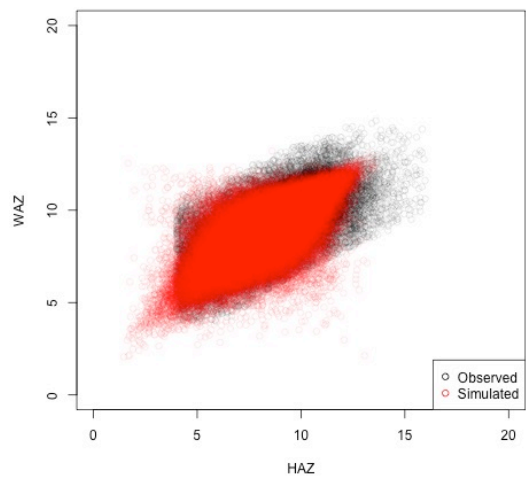
Weibull Joint Distributions: Comparison of Simulated and Observed D Weibull Joint Distributions: Comparison of Simulated and Observed D  
Female 0-6 Days Female 7-27 Days



Weibull Joint Distributions: Comparison of Simulated and Observed D Weibull Joint Distributions: Comparison of Simulated and Observed D  
Female 28-364 Days Female 12-23 Months



Weibull Joint Distributions: Comparison of Simulated and Observed D  
Female 2-4 Years

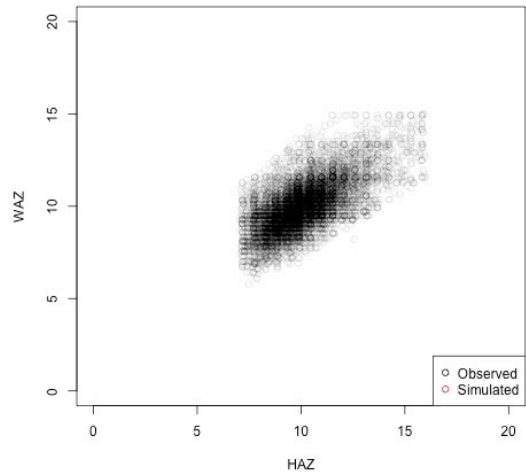


# Appendix 4: Joint Distributions: Comparison of Simulated and Observed Data, by Indicator Combination, Distribution, Sex, and Age

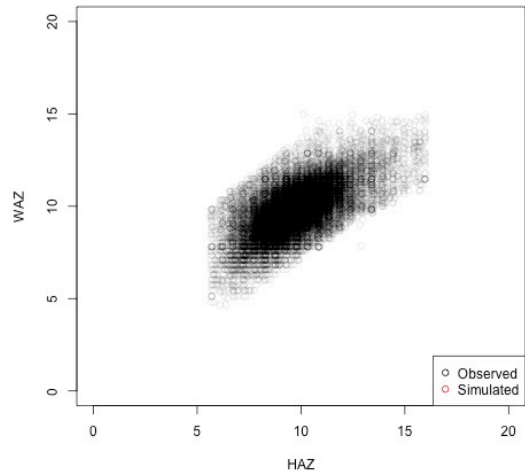
## HAZ vs WAZ, Females

### Gamma

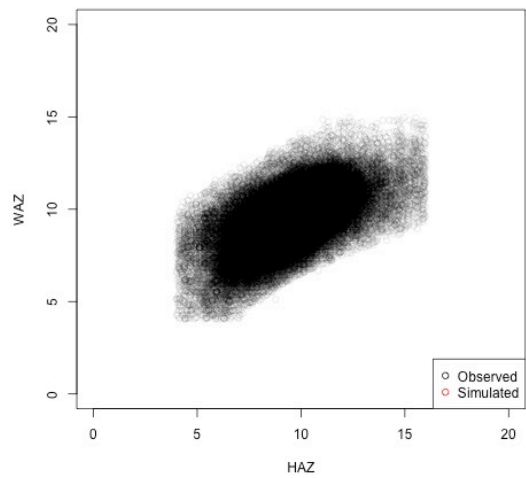
Gamma Joint Distributions: Comparison of Simulated and Observed D  
Female 0-6 Days



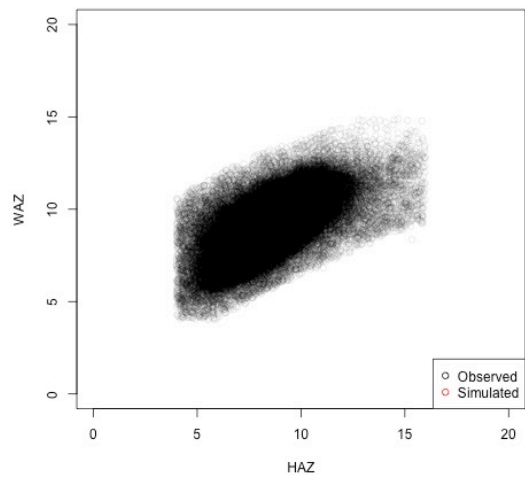
Gamma Joint Distributions: Comparison of Simulated and Observed D  
Female 7-27 Days



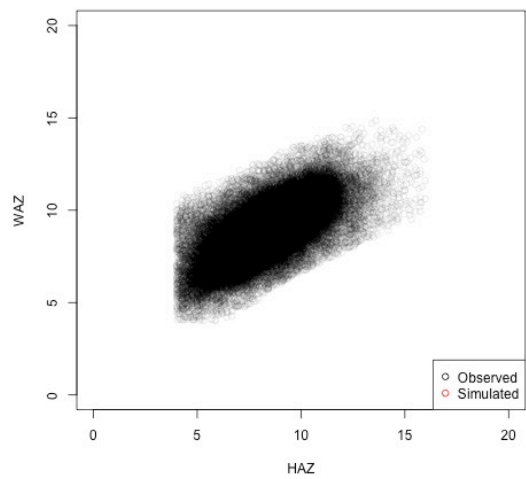
Gamma Joint Distributions: Comparison of Simulated and Observed D  
Female 28-364 Days



Gamma Joint Distributions: Comparison of Simulated and Observed D  
Female 12-23 Months



Gamma Joint Distributions: Comparison of Simulated and Observed D  
Female 2-4 Years

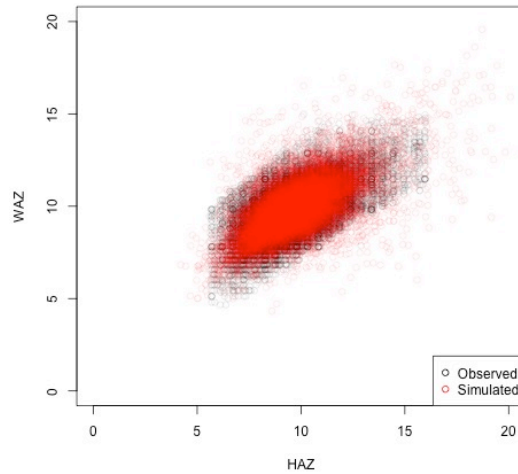
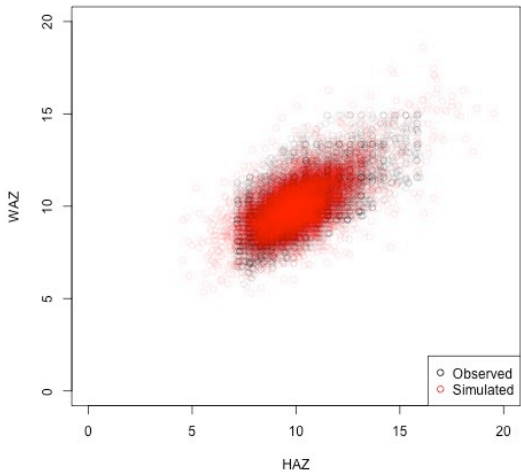


# Appendix 4: Joint Distributions: Comparison of Simulated and Observed Data, by Indicator Combination, Distribution, Sex, and Age

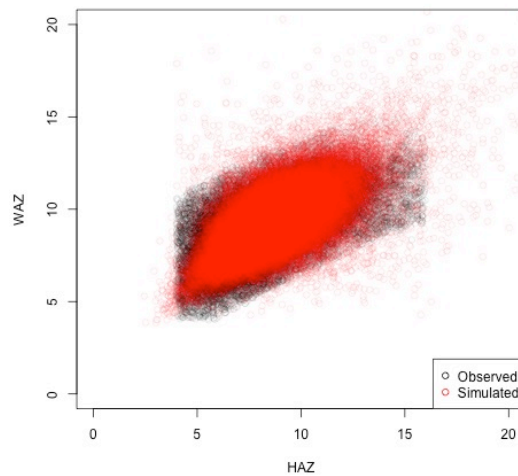
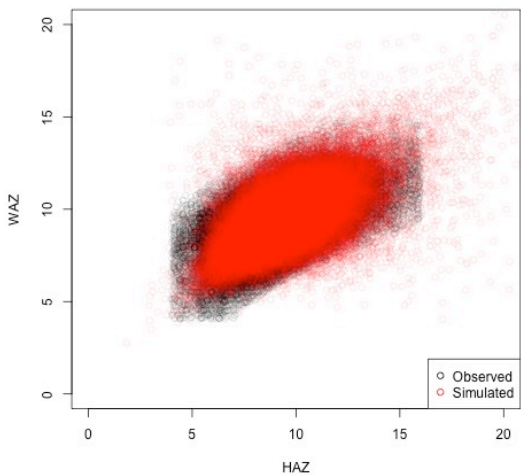
## HAZ vs WAZ, Females

### Log-Logistic

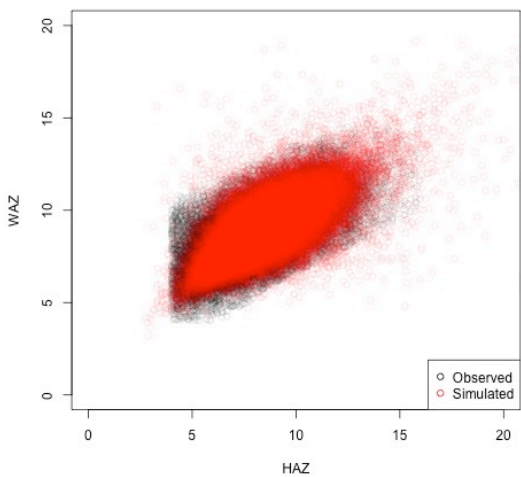
Llogis Joint Distributions: Comparison of Simulated and Observed Data: Llogis Joint Distributions: Comparison of Simulated and Observed Data:  
Female 0-6 Days



Llogis Joint Distributions: Comparison of Simulated and Observed Data: Llogis Joint Distributions: Comparison of Simulated and Observed Data:  
Female 28-364 Days



Llogis Joint Distributions: Comparison of Simulated and Observed Data:  
Female 2-4 Years

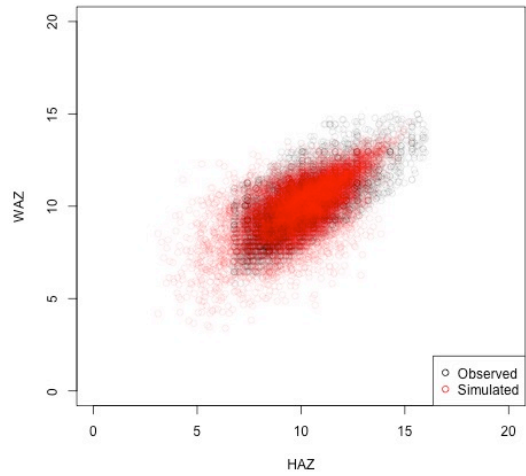


# Appendix 4: Joint Distributions: Comparison of Simulated and Observed Data, by Indicator Combination, Distribution, Sex, and Age

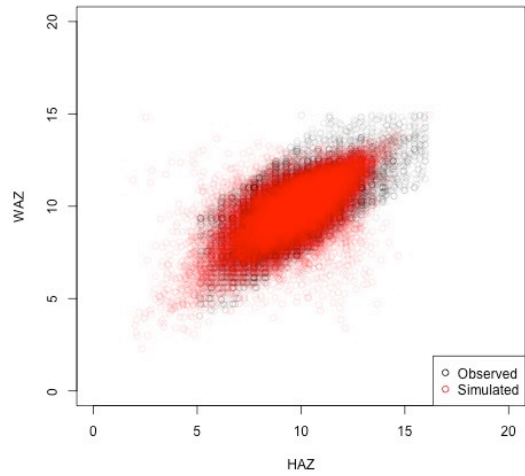
## HAZ vs WAZ, Males

### Weibull

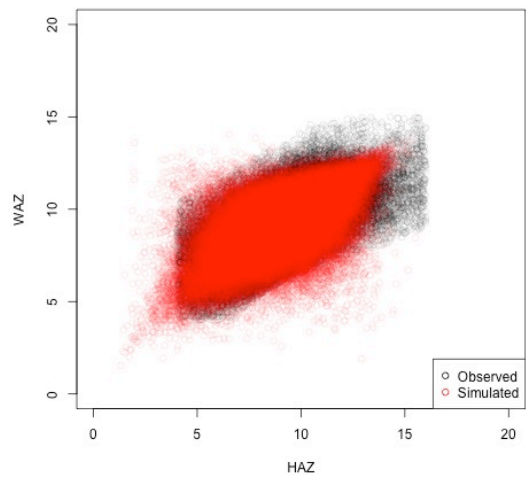
Weibull Joint Distributions: Comparison of Simulated and Observed D  
Male 0-6 Days



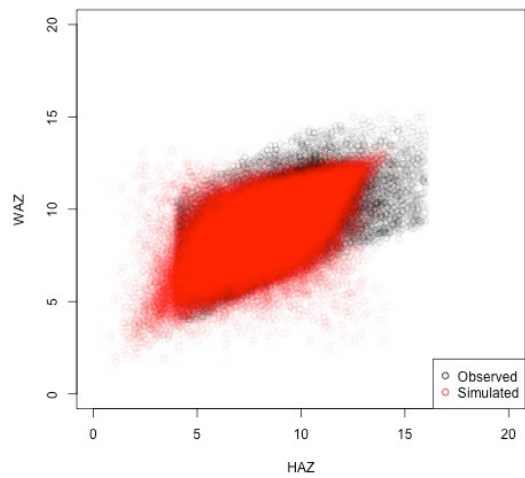
Weibull Joint Distributions: Comparison of Simulated and Observed D  
Male 7-27 Days



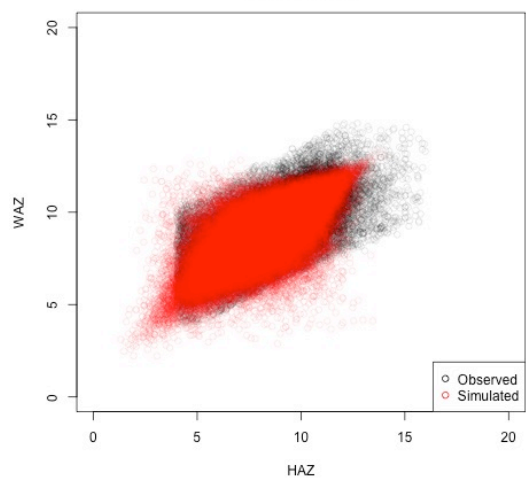
Weibull Joint Distributions: Comparison of Simulated and Observed D  
Male 28-364 Days



Weibull Joint Distributions: Comparison of Simulated and Observed D  
Male 12-23 Months



Weibull Joint Distributions: Comparison of Simulated and Observed D  
Male 2-4 Years

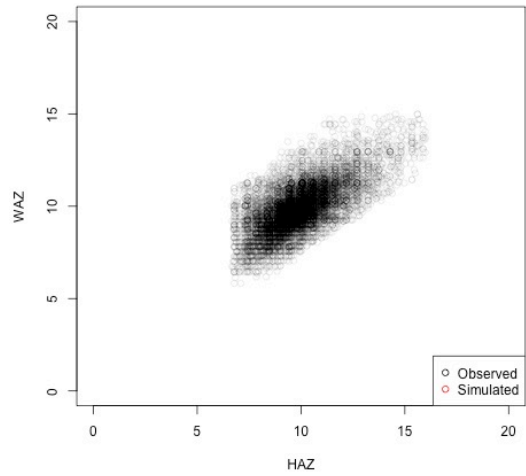


# Appendix 4: Joint Distributions: Comparison of Simulated and Observed Data, by Indicator Combination, Distribution, Sex, and Age

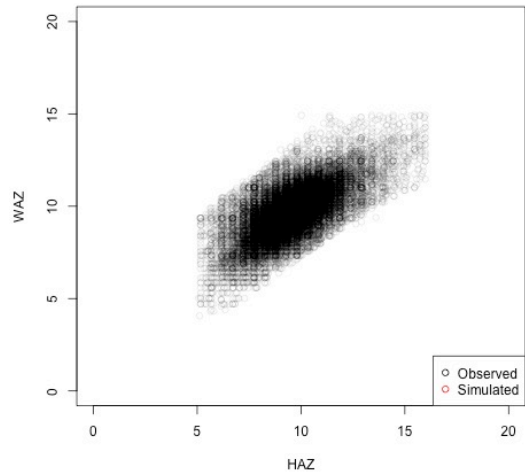
## HAZ vs WAZ, Males

### Gamma

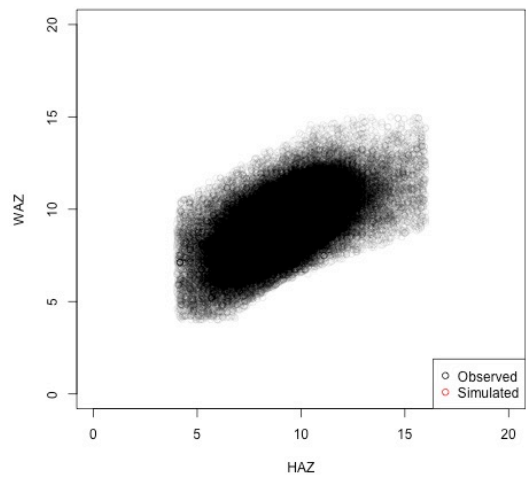
Gamma Joint Distributions: Comparison of Simulated and Observed D  
Male 0-6 Days



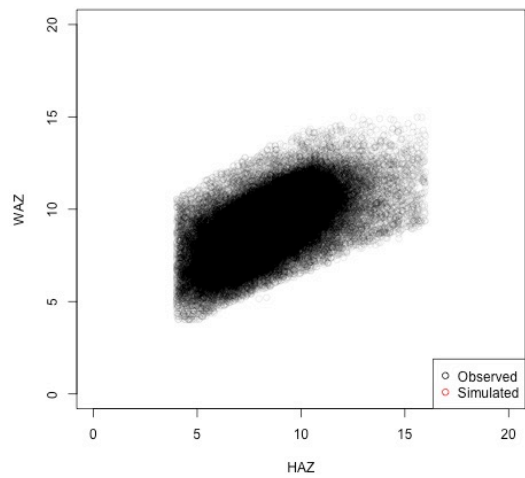
Gamma Joint Distributions: Comparison of Simulated and Observed D  
Male 7-27 Days



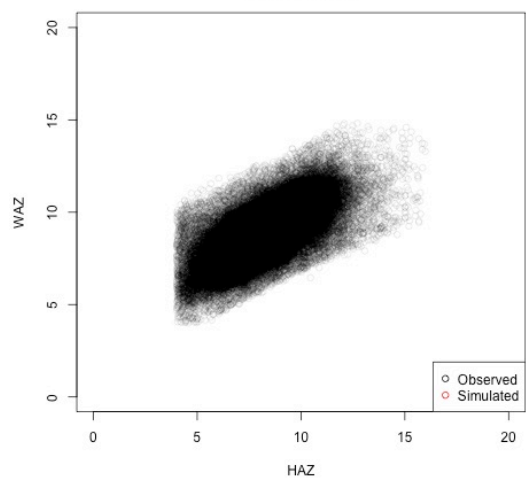
Gamma Joint Distributions: Comparison of Simulated and Observed D  
Male 28-364 Days



Gamma Joint Distributions: Comparison of Simulated and Observed D  
Male 12-23 Months



Gamma Joint Distributions: Comparison of Simulated and Observed D  
Male 2-4 Years

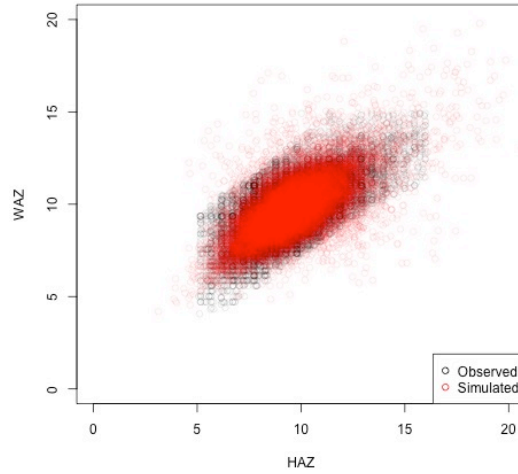
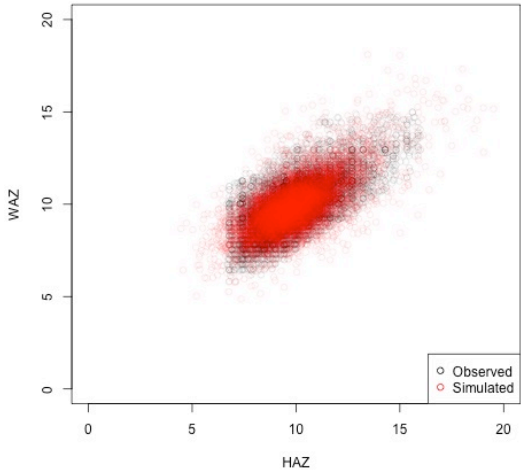


# Appendix 4: Joint Distributions: Comparison of Simulated and Observed Data, by Indicator Combination, Distribution, Sex, and Age

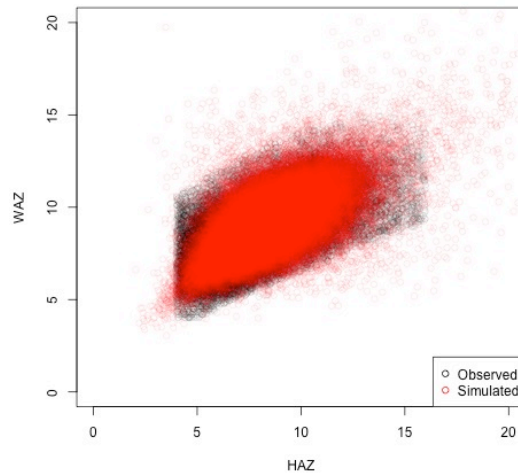
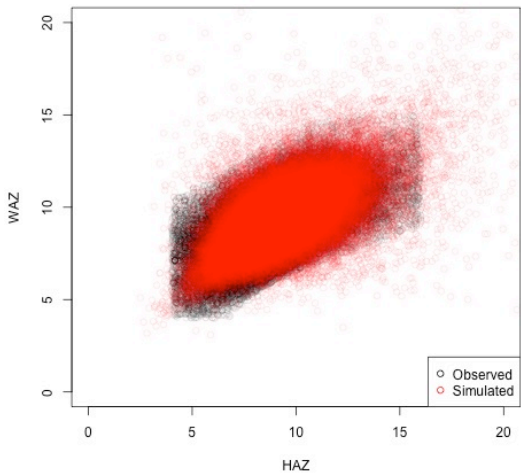
## HAZ vs WAZ, Males

### Log-Logistic

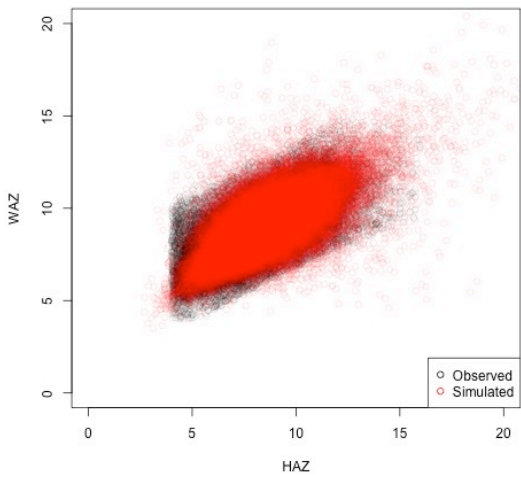
Llogis Joint Distributions: Comparison of Simulated and Observed Data: Llogis Joint Distributions: Comparison of Simulated and Observed Data: Male 0-6 Days



Llogis Joint Distributions: Comparison of Simulated and Observed Data: Llogis Joint Distributions: Comparison of Simulated and Observed Data: Male 28-364 Days



Llogis Joint Distributions: Comparison of Simulated and Observed Data: Male 2-4 Years

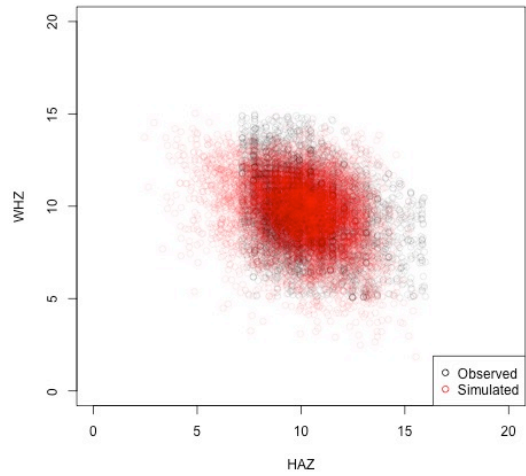


# Appendix 4: Joint Distributions: Comparison of Simulated and Observed Data, by Indicator Combination, Distribution, Sex, and Age

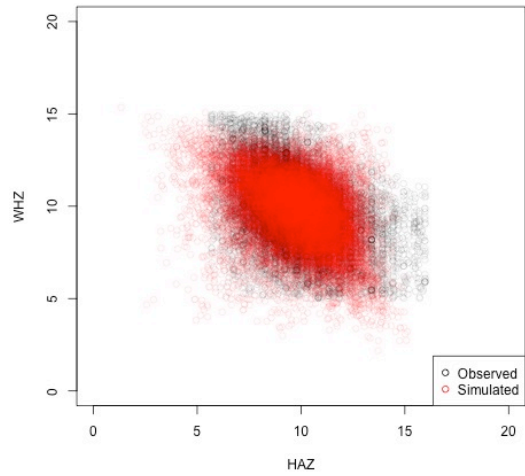
## HAZ vs WHZ, Females

### Weibull

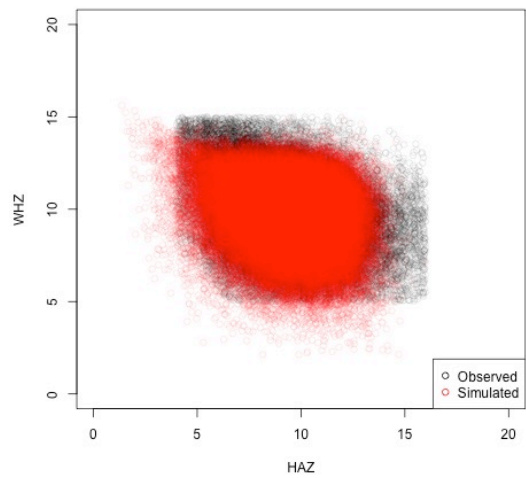
Weibull Joint Distributions: Comparison of Simulated and Observed D  
Female 0-6 Days



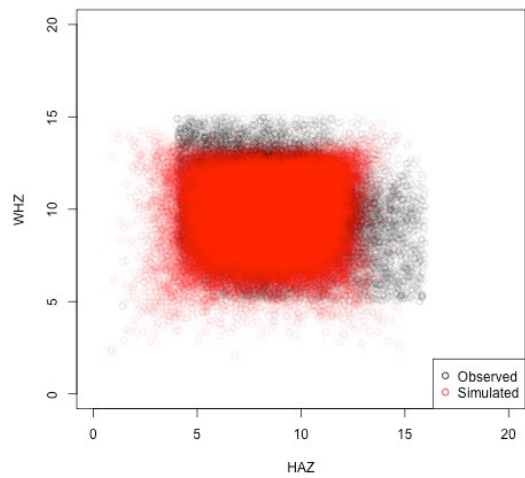
Weibull Joint Distributions: Comparison of Simulated and Observed D  
Female 7-27 Days



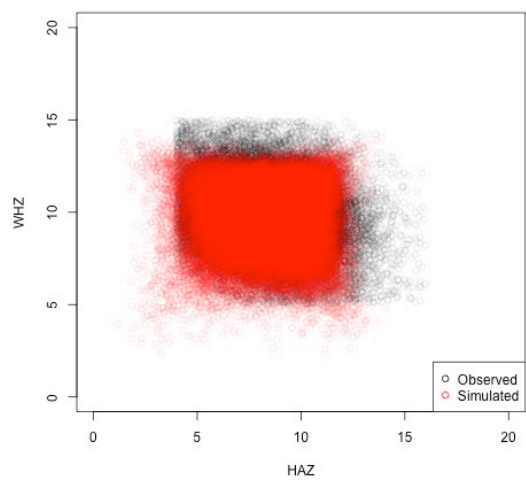
Weibull Joint Distributions: Comparison of Simulated and Observed D  
Female 28-364 Days



Weibull Joint Distributions: Comparison of Simulated and Observed D  
Female 12-23 Months



Weibull Joint Distributions: Comparison of Simulated and Observed D  
Female 2-4 Years

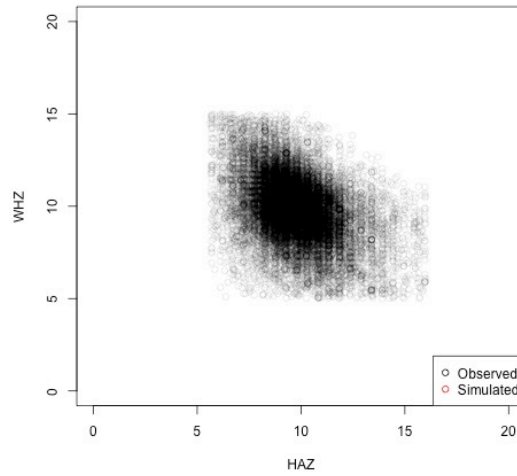
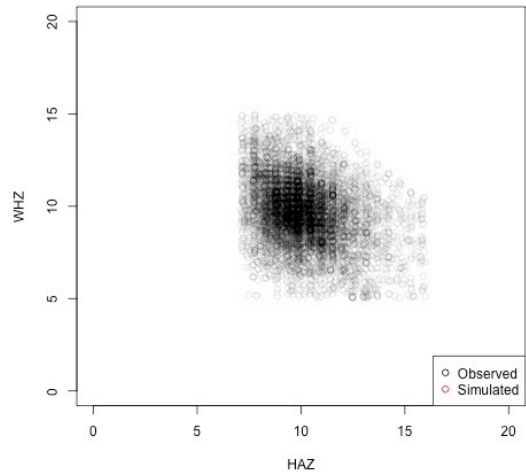


# Appendix 4: Joint Distributions: Comparison of Simulated and Observed Data, by Indicator Combination, Distribution, Sex, and Age

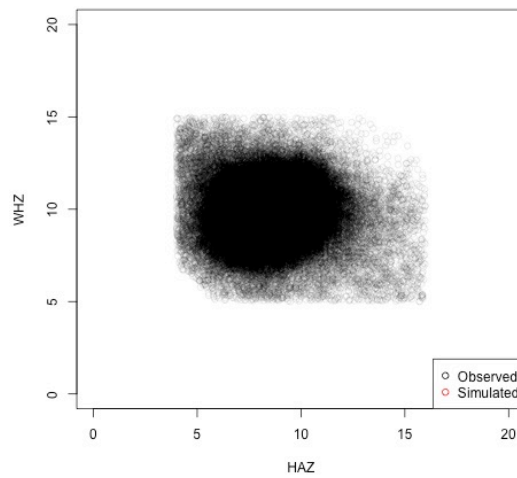
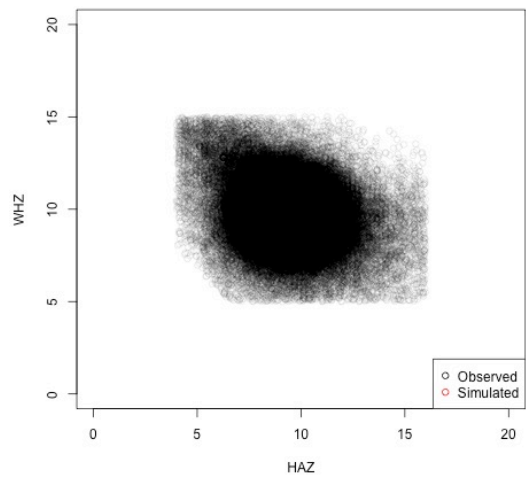
## HAZ vs WHZ, Females

### Gamma

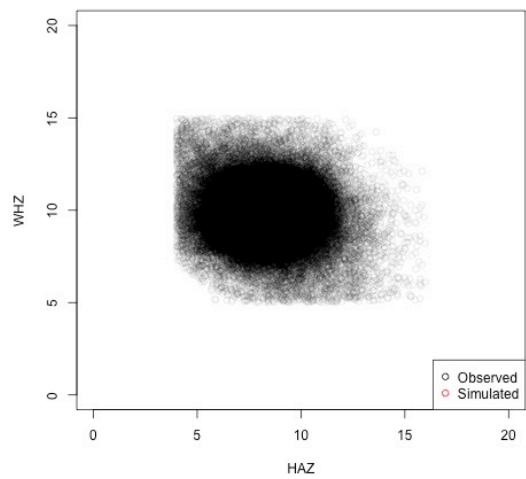
Gamma Joint Distributions: Comparison of Simulated and Observed D  
Female 0-6 Days



Gamma Joint Distributions: Comparison of Simulated and Observed D  
Female 28-364 Days



Gamma Joint Distributions: Comparison of Simulated and Observed D  
Female 2-4 Years

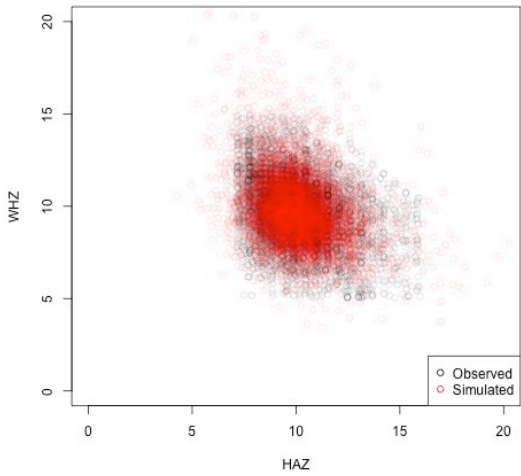


# Appendix 4: Joint Distributions: Comparison of Simulated and Observed Data, by Indicator Combination, Distribution, Sex, and Age

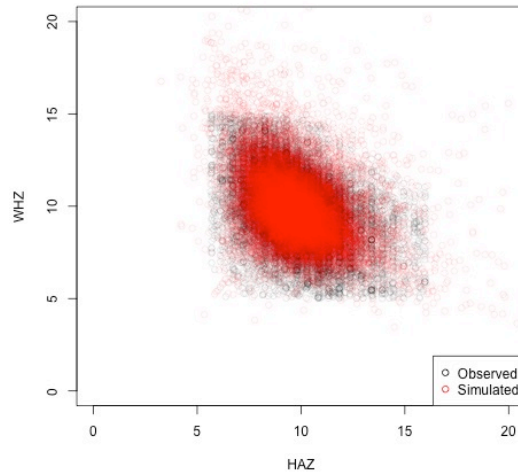
## HAZ vs WHZ, Females

### Log-Logistic

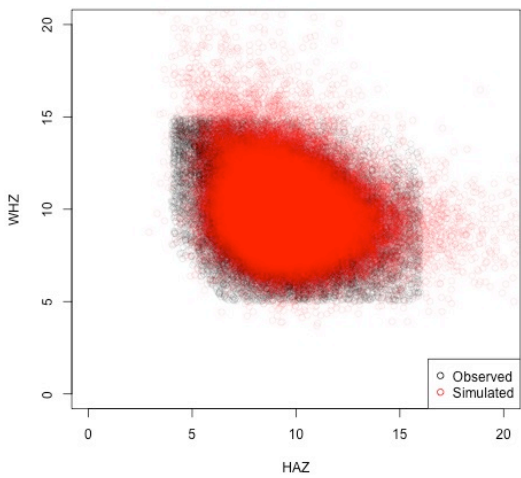
Logis Joint Distributions: Comparison of Simulated and Observed Data: Female 0-6 Days



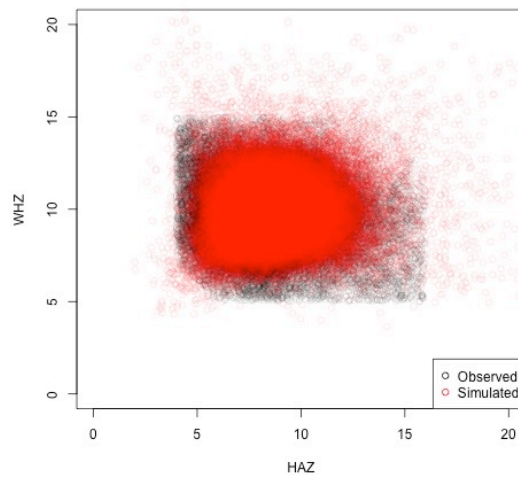
Logis Joint Distributions: Comparison of Simulated and Observed Data: Female 7-27 Days



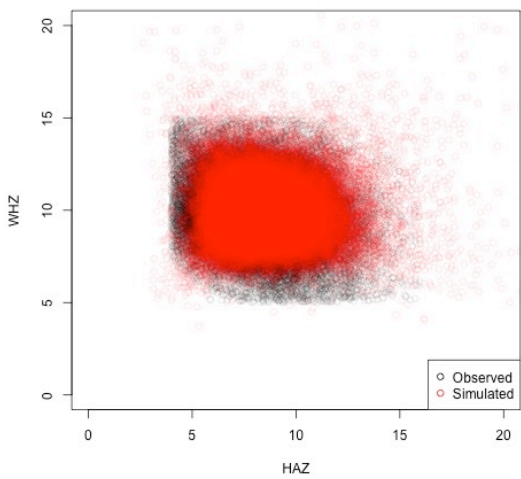
Logis Joint Distributions: Comparison of Simulated and Observed Data: Female 28-364 Days



Logis Joint Distributions: Comparison of Simulated and Observed Data: Female 12-23 Months



Logis Joint Distributions: Comparison of Simulated and Observed Data: Female 2-4 Years

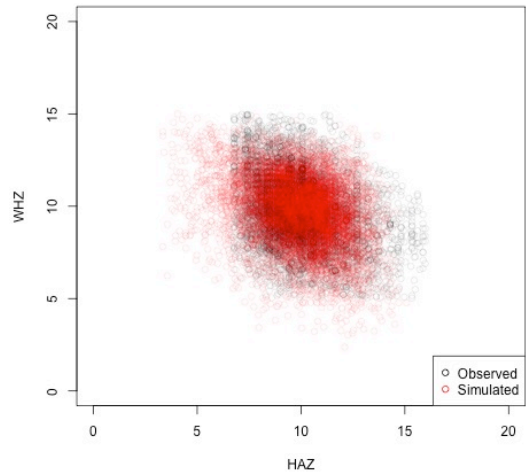


# Appendix 4: Joint Distributions: Comparison of Simulated and Observed Data, by Indicator Combination, Distribution, Sex, and Age

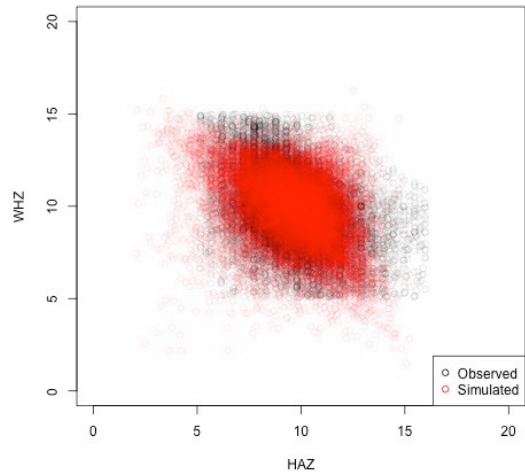
## HAZ vs WHZ, Males

### Weibull

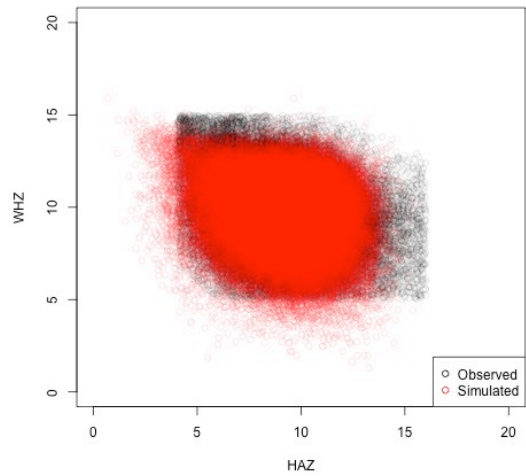
Weibull Joint Distributions: Comparison of Simulated and Observed D  
Male 0-6 Days



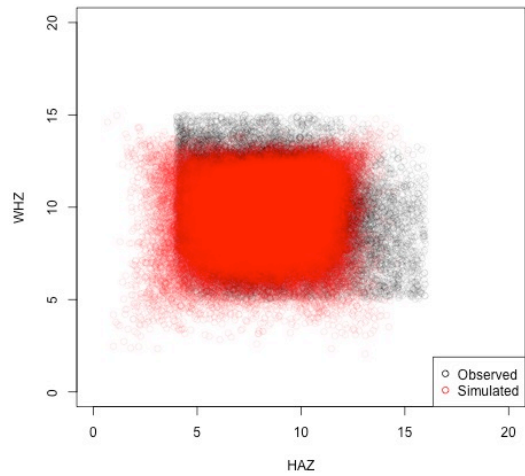
Weibull Joint Distributions: Comparison of Simulated and Observed D  
Male 7-27 Days



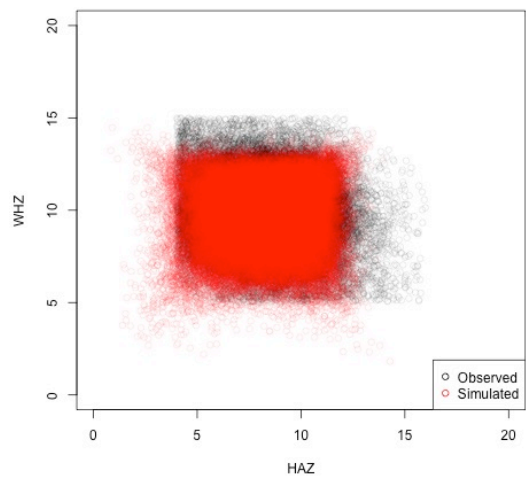
Weibull Joint Distributions: Comparison of Simulated and Observed D  
Male 28-364 Days



Weibull Joint Distributions: Comparison of Simulated and Observed D  
Male 12-23 Months



Weibull Joint Distributions: Comparison of Simulated and Observed D  
Male 2-4 Years

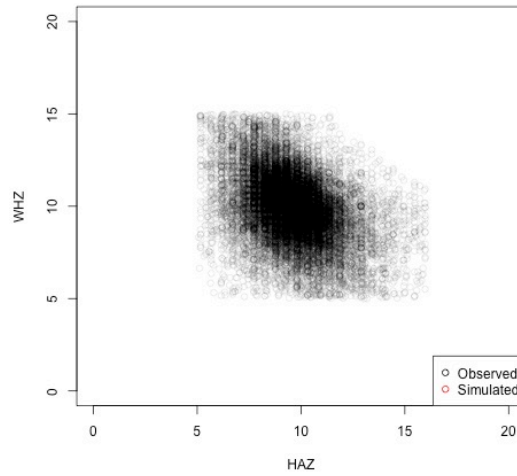
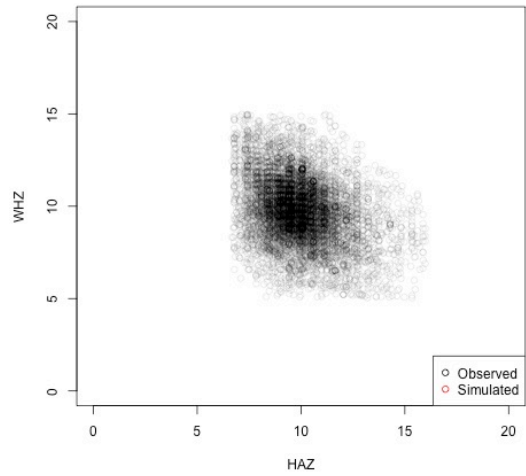


# Appendix 4: Joint Distributions: Comparison of Simulated and Observed Data, by Indicator Combination, Distribution, Sex, and Age

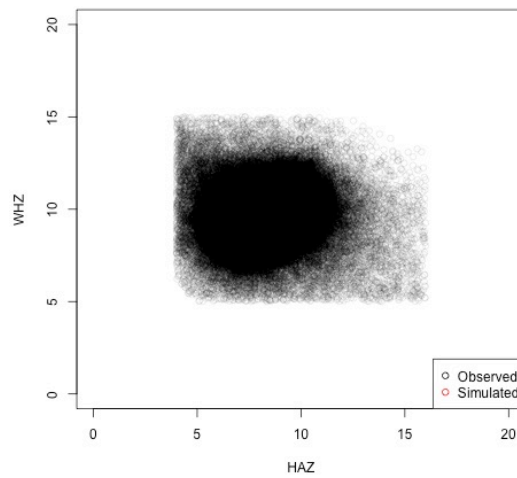
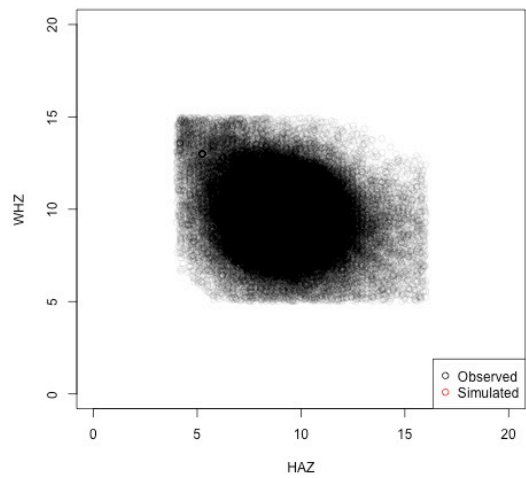
## HAZ vs WHZ, Males

### Gamma

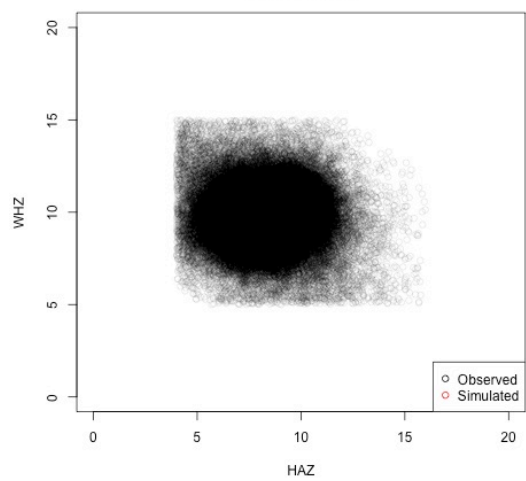
Gamma Joint Distributions: Comparison of Simulated and Observed D  
Male 0-6 Days



Gamma Joint Distributions: Comparison of Simulated and Observed D  
Male 28-364 Days



Gamma Joint Distributions: Comparison of Simulated and Observed D  
Male 2-4 Years

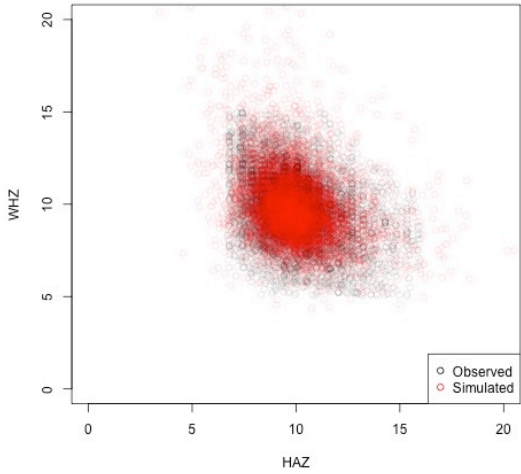


# Appendix 4: Joint Distributions: Comparison of Simulated and Observed Data, by Indicator Combination, Distribution, Sex, and Age

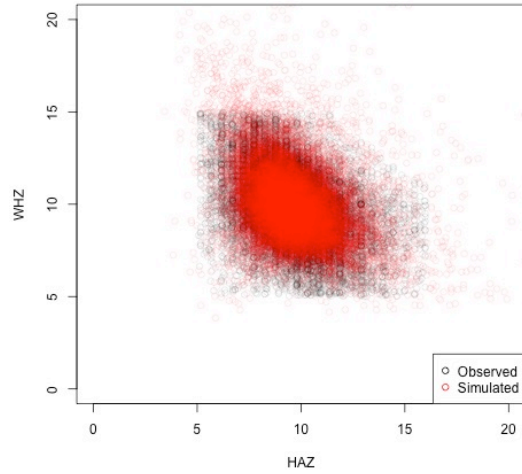
## HAZ vs WHZ, Males

### Log-Logistic

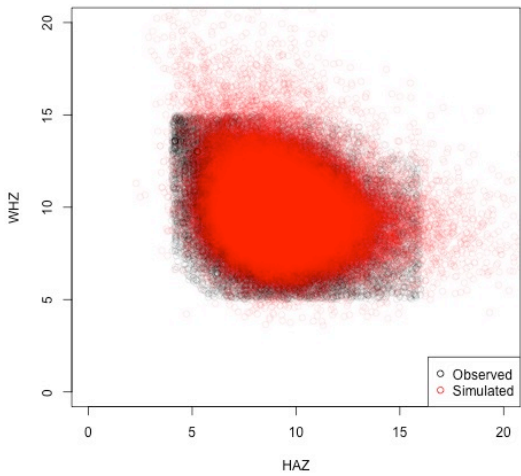
Logis Joint Distributions: Comparison of Simulated and Observed Data: Male 0-6 Days



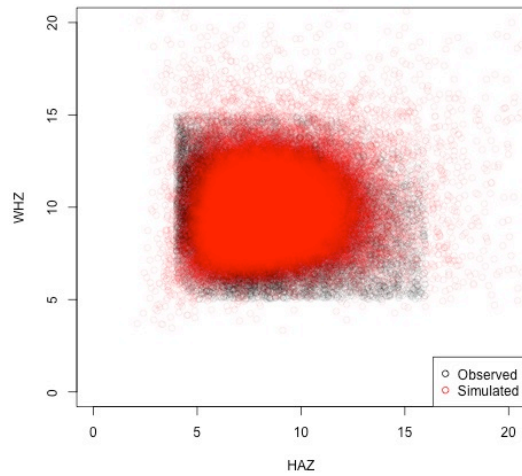
Logis Joint Distributions: Comparison of Simulated and Observed Data: Male 7-27 Days



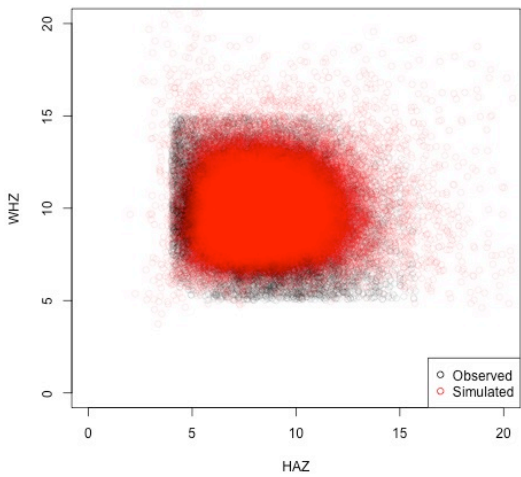
Logis Joint Distributions: Comparison of Simulated and Observed Data: Male 28-364 Days



Logis Joint Distributions: Comparison of Simulated and Observed Data: Male 12-23 Months



Logis Joint Distributions: Comparison of Simulated and Observed Data: Male 2-4 Years

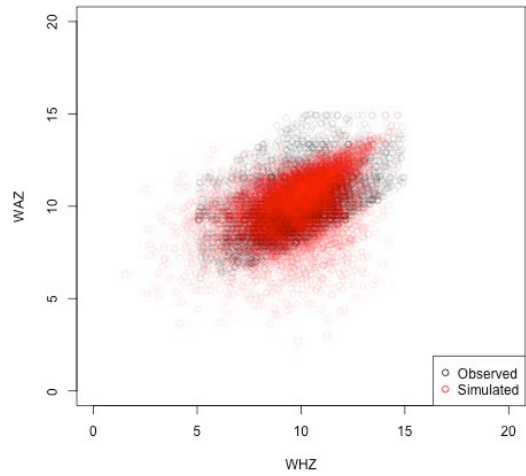


# Appendix 4: Joint Distributions: Comparison of Simulated and Observed Data, by Indicator Combination, Distribution, Sex, and Age

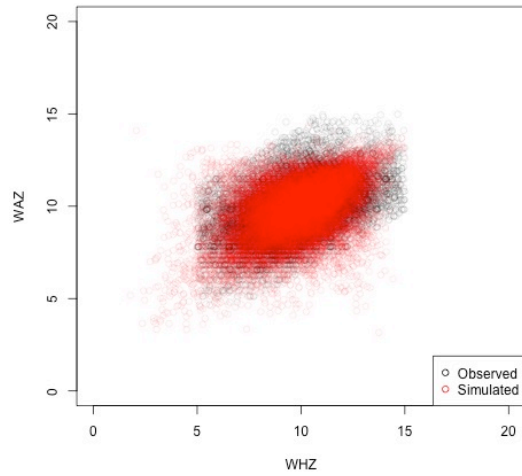
## WAZ vs WHZ, Females

### Weibull

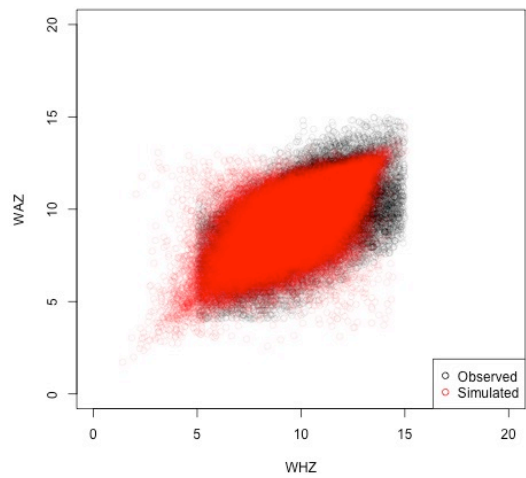
Weibull Joint Distributions: Comparison of Simulated and Observed D  
Female 0-6 Days



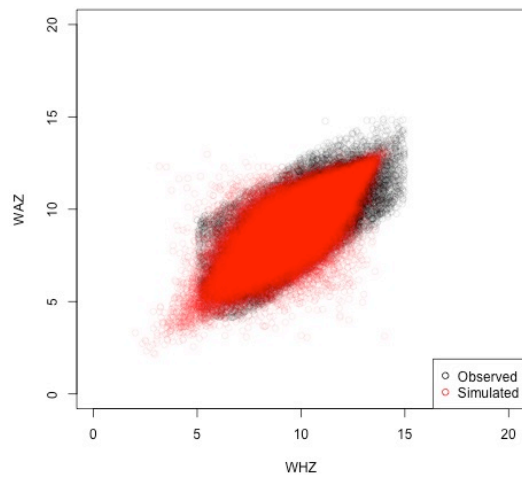
Weibull Joint Distributions: Comparison of Simulated and Observed D  
Female 7-27 Days



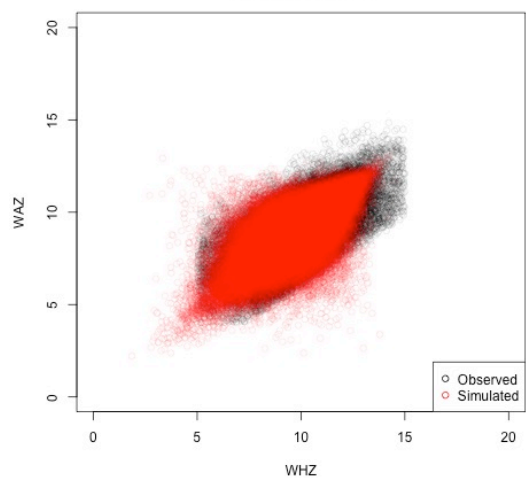
Weibull Joint Distributions: Comparison of Simulated and Observed D  
Female 28-364 Days



Weibull Joint Distributions: Comparison of Simulated and Observed D  
Female 12-23 Months



Weibull Joint Distributions: Comparison of Simulated and Observed D  
Female 2-4 Years

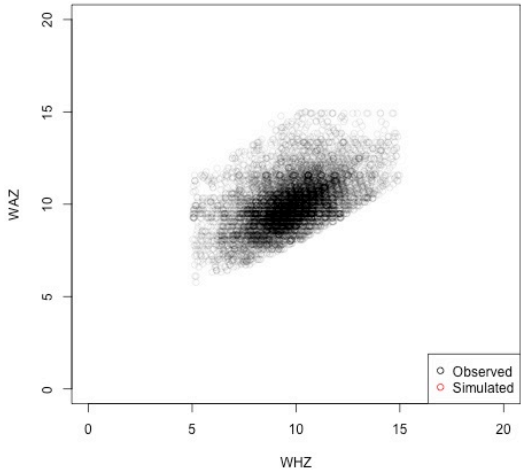


# Appendix 4: Joint Distributions: Comparison of Simulated and Observed Data, by Indicator Combination, Distribution, Sex, and Age

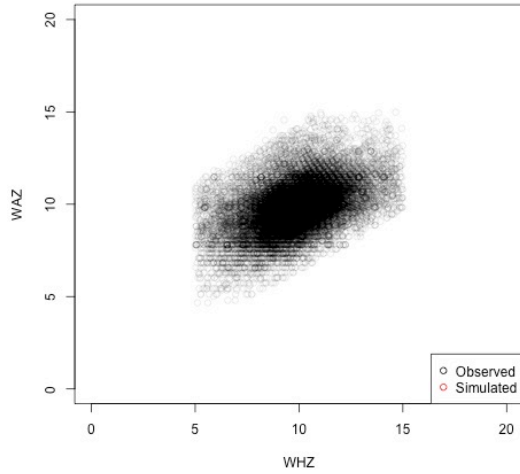
## WAZ vs WHZ, Females

### Gamma

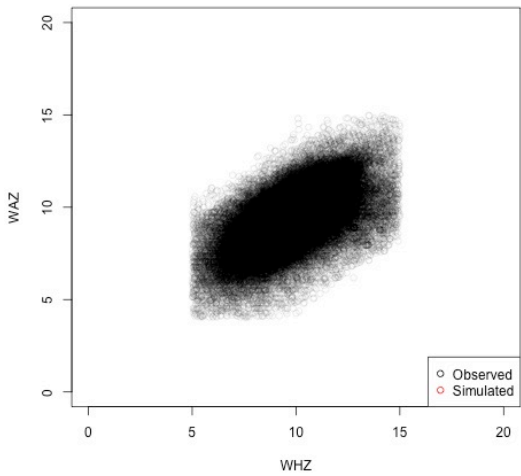
Gamma Joint Distributions: Comparison of Simulated and Observed D  
Female 0-6 Days



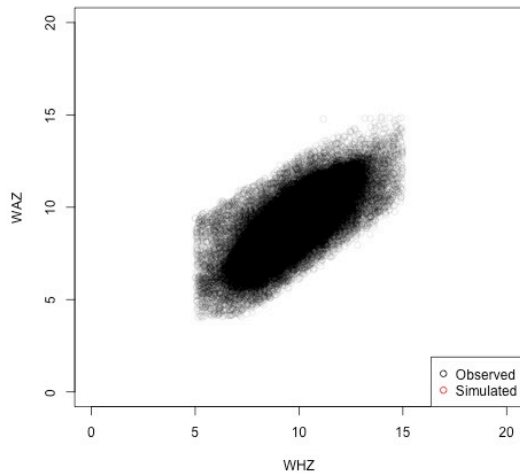
Gamma Joint Distributions: Comparison of Simulated and Observed D  
Female 7-27 Days



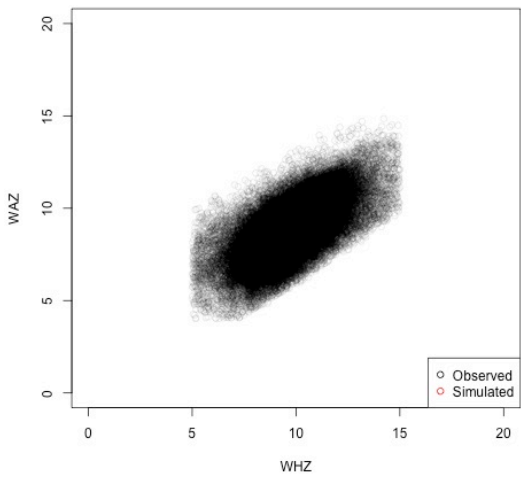
Gamma Joint Distributions: Comparison of Simulated and Observed D  
Female 28-364 Days



Gamma Joint Distributions: Comparison of Simulated and Observed D  
Female 12-23 Months



Gamma Joint Distributions: Comparison of Simulated and Observed D  
Female 2-4 Years

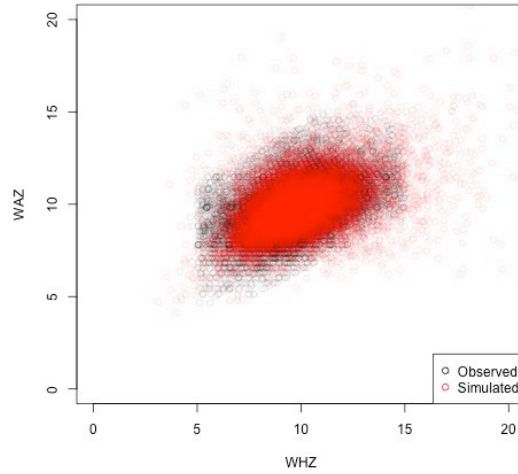
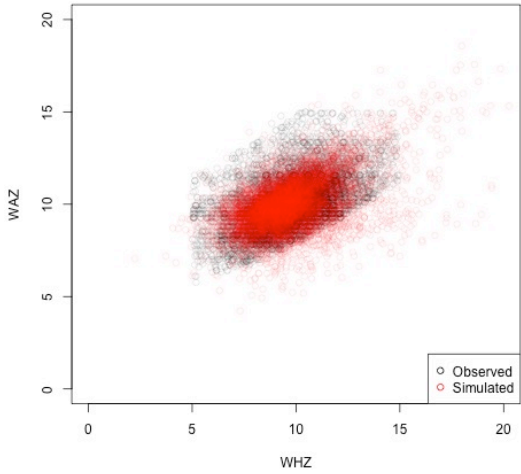


# Appendix 4: Joint Distributions: Comparison of Simulated and Observed Data, by Indicator Combination, Distribution, Sex, and Age

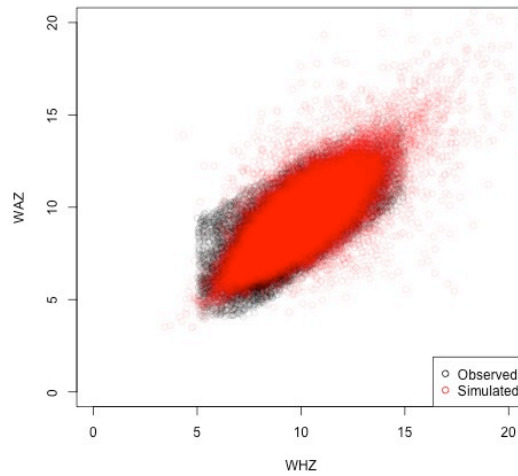
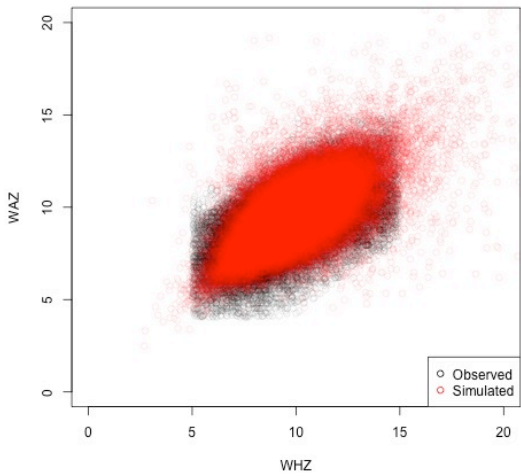
## WAZ vs WHZ, Females

### Log-Logistic

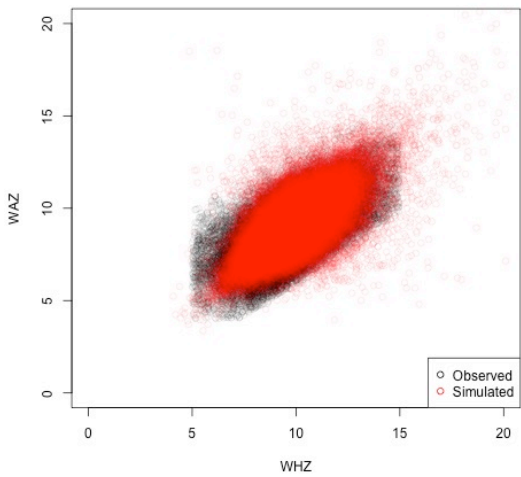
Llogis Joint Distributions: Comparison of Simulated and Observed Data: Llogis Joint Distributions: Comparison of Simulated and Observed Data:  
Female 0-6 Days



Llogis Joint Distributions: Comparison of Simulated and Observed Data: Llogis Joint Distributions: Comparison of Simulated and Observed Data:  
Female 28-364 Days



Llogis Joint Distributions: Comparison of Simulated and Observed Data:  
Female 2-4 Years

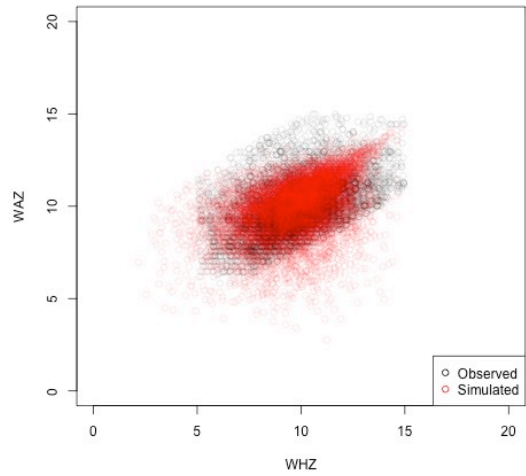


# Appendix 4: Joint Distributions: Comparison of Simulated and Observed Data, by Indicator Combination, Distribution, Sex, and Age

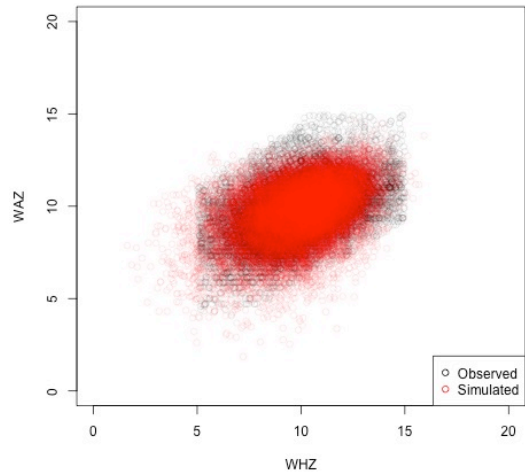
## WAZ vs WHZ, Males

### Weibull

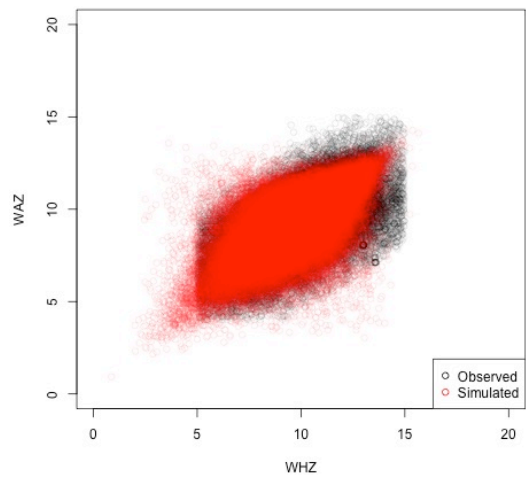
Weibull Joint Distributions: Comparison of Simulated and Observed D  
Male 0-6 Days



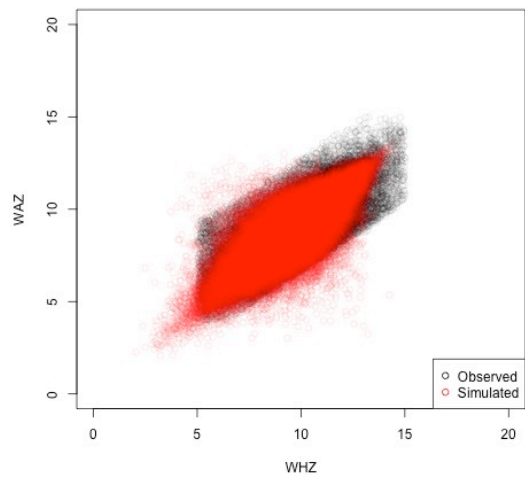
Weibull Joint Distributions: Comparison of Simulated and Observed D  
Male 7-27 Days



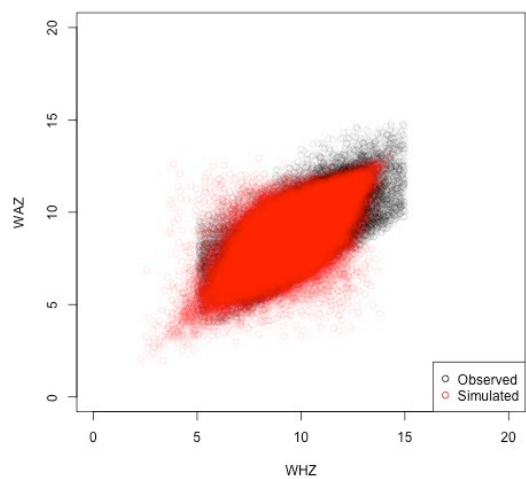
Weibull Joint Distributions: Comparison of Simulated and Observed D  
Male 28-364 Days



Weibull Joint Distributions: Comparison of Simulated and Observed D  
Male 12-23 Months



Weibull Joint Distributions: Comparison of Simulated and Observed D  
Male 2-4 Years

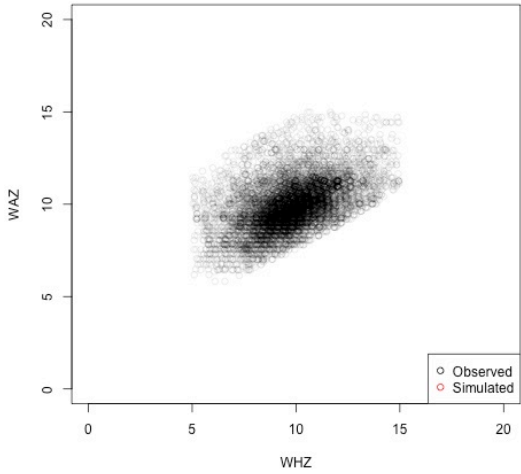


# Appendix 4: Joint Distributions: Comparison of Simulated and Observed Data, by Indicator Combination, Distribution, Sex, and Age

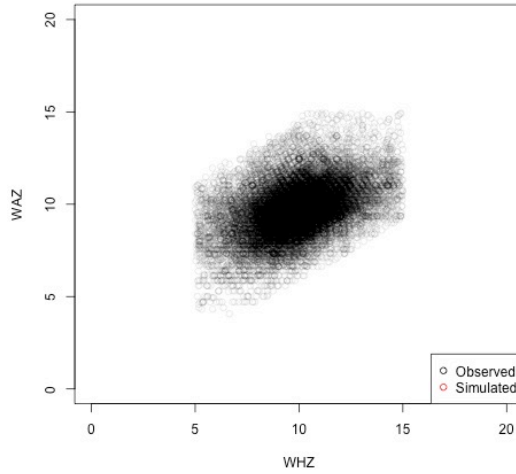
## WAZ vs WHZ, Males

### Gamma

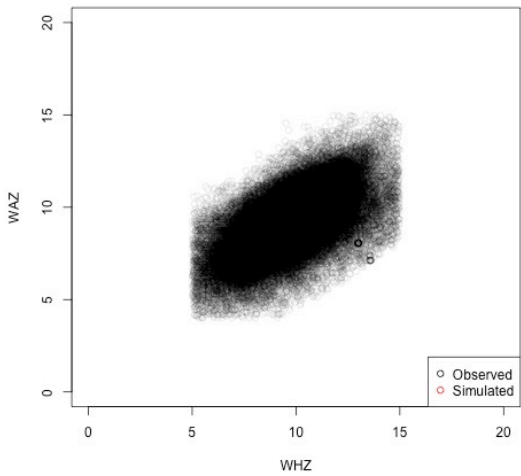
Gamma Joint Distributions: Comparison of Simulated and Observed D  
Male 0-6 Days



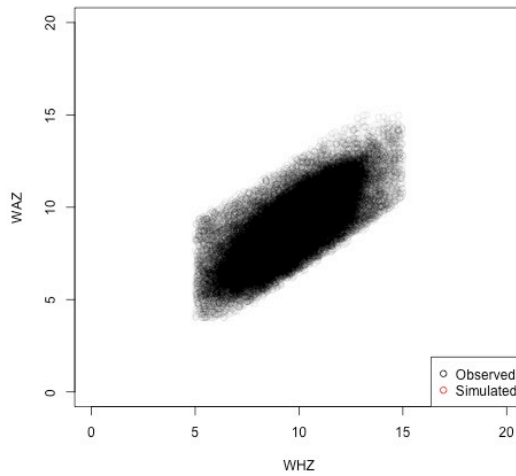
Gamma Joint Distributions: Comparison of Simulated and Observed D  
Male 7-27 Days



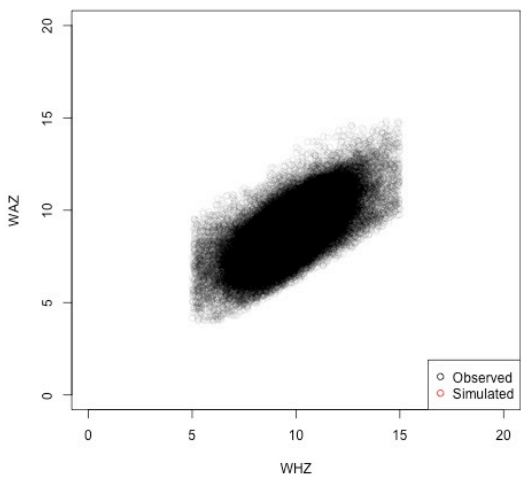
Gamma Joint Distributions: Comparison of Simulated and Observed D  
Male 28-364 Days



Gamma Joint Distributions: Comparison of Simulated and Observed D  
Male 12-23 Months



Gamma Joint Distributions: Comparison of Simulated and Observed D  
Male 2-4 Years

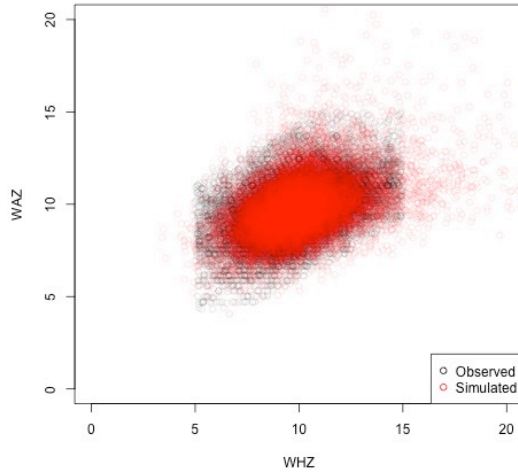
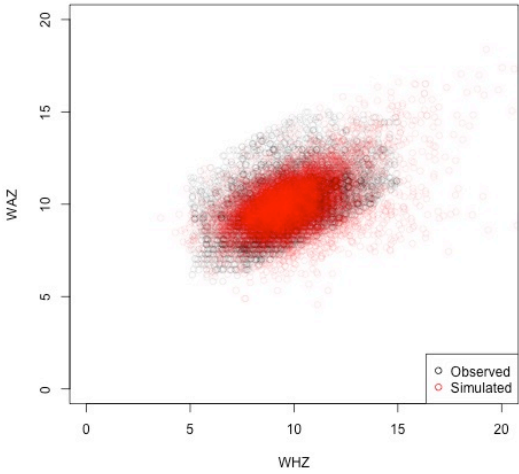


# Appendix 4: Joint Distributions: Comparison of Simulated and Observed Data, by Indicator Combination, Distribution, Sex, and Age

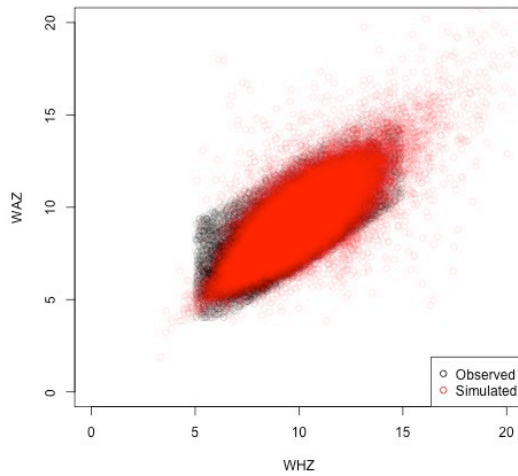
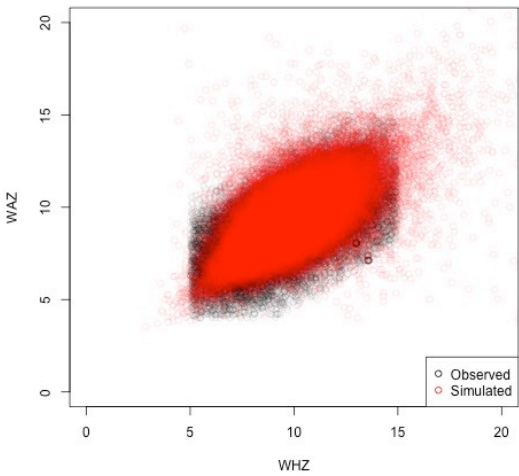
## WAZ vs WHZ, Males

### Log-Logistic

Llogis Joint Distributions: Comparison of Simulated and Observed Data: Llogis Joint Distributions: Comparison of Simulated and Observed Data:  
Male 0-6 Days



Llogis Joint Distributions: Comparison of Simulated and Observed Data: Llogis Joint Distributions: Comparison of Simulated and Observed Data:  
Male 28-364 Days



Llogis Joint Distributions: Comparison of Simulated and Observed Data:  
Male 2-4 Years

