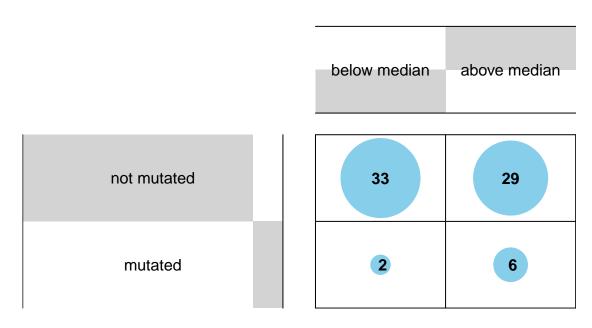
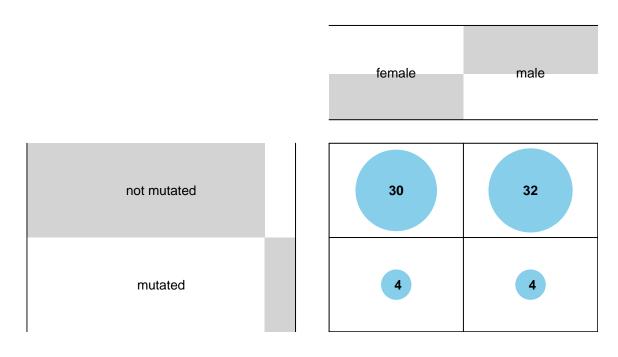
# GTF2IRD2B vs Age

Fisher's exact test p-value = 0.26; odds ratio = 3.4



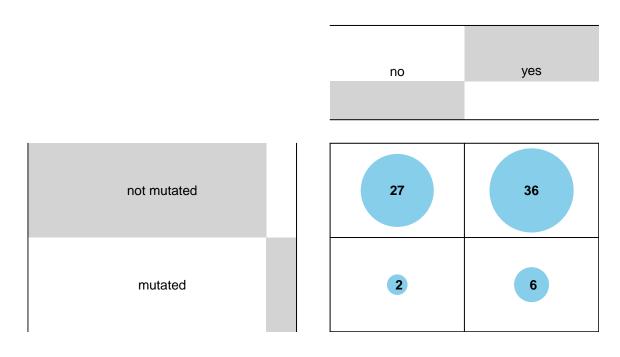
#### GTF2IRD2B vs Sex

## Fisher's exact test p-value = 1; odds ratio = 0.94



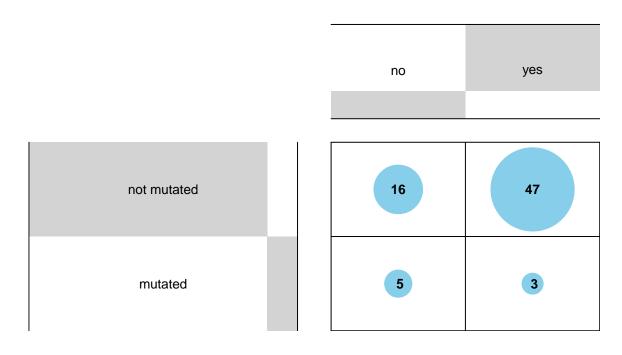
#### **GTF2IRD2B vs HCV**

Fisher's exact test p-value = 0.46; odds ratio = 2.2



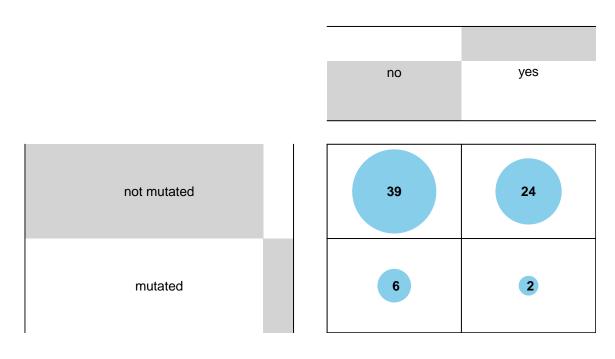
#### **GTF2IRD2B vs HBV**

#### Fisher's exact test p-value = 0.044; odds ratio = 0.21



#### **GTF2IRD2B vs HDV**

Fisher's exact test p-value = 0.7; odds ratio = 0.55



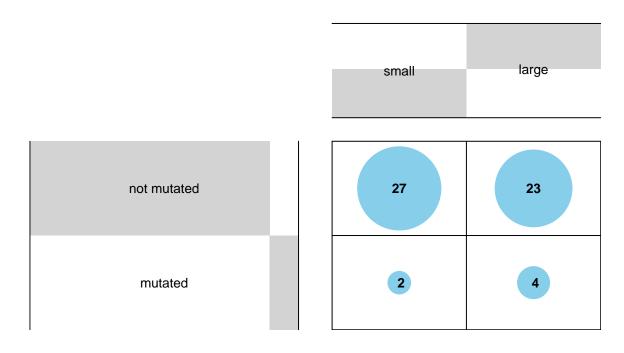
## GTF2IRD2B vs Stage

## Fisher's exact test p-value = 0.044; odds ratio = Inf

	_		
		early	advanced
not mutated		19	28
mutated			7

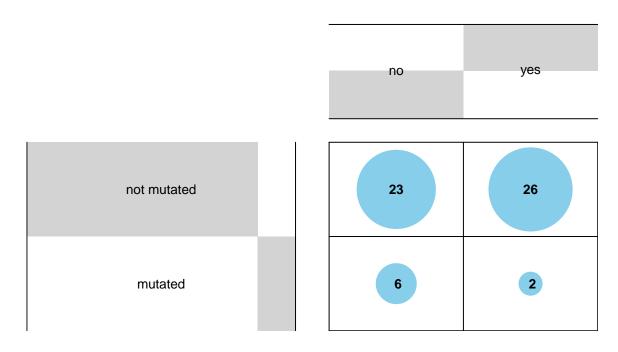
#### **GTF2IRD2B** vs Tumor Size

Fisher's exact test p-value = 0.41; odds ratio = 2.3



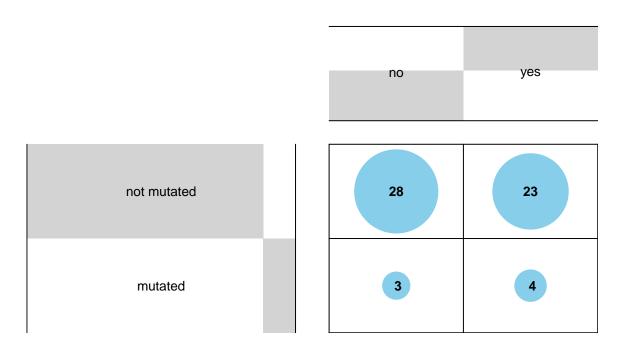
#### **GTF2IRD2B** vs Cirrhosis

Fisher's exact test p-value = 0.25; odds ratio = 0.3



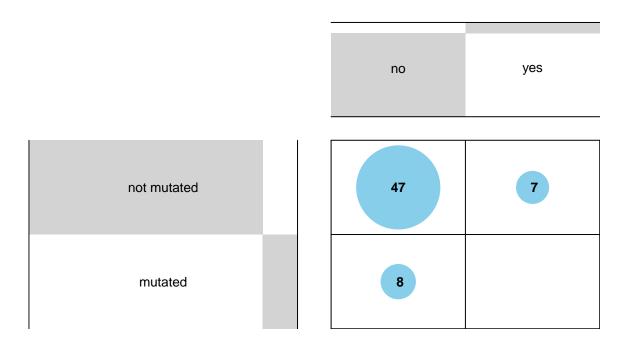
## **GTF2IRD2B** vs Obesity

Fisher's exact test p-value = 0.69; odds ratio = 1.6



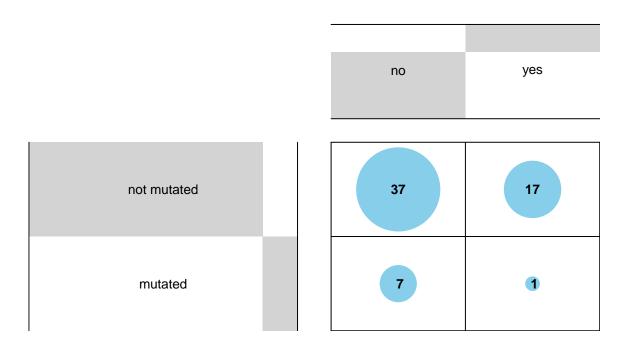
#### **GTF2IRD2B** vs Alcohol

## Fisher's exact test p-value = 0.58; odds ratio = 0



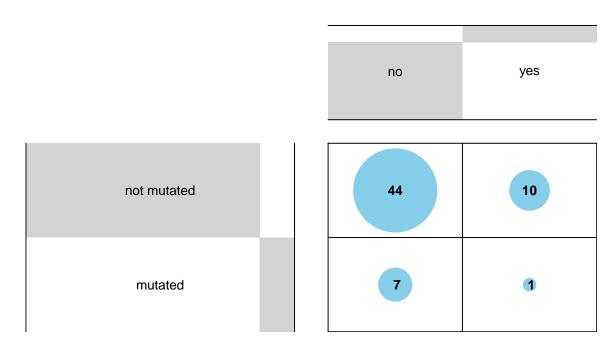
## **GTF2IRD2B** vs Smoker

Fisher's exact test p-value = 0.42; odds ratio = 0.32



## GTF2IRD2B vs Fam Hx Liv C

Fisher's exact test p-value = 1; odds ratio = 0.63



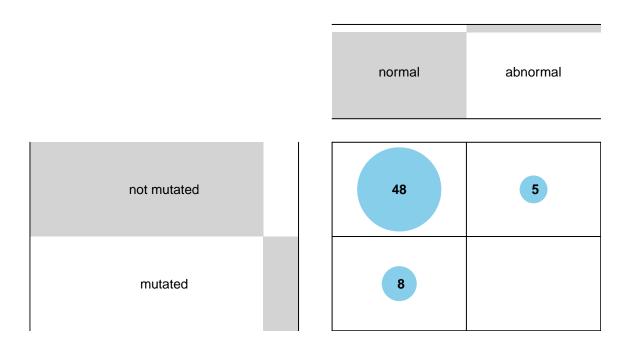
## **GTF2IRD2B** vs Albumin

Fisher's exact test p-value = 0.53; odds ratio = 1.6

	normal	abnormal
not mutated	49	5
mutated	6	1

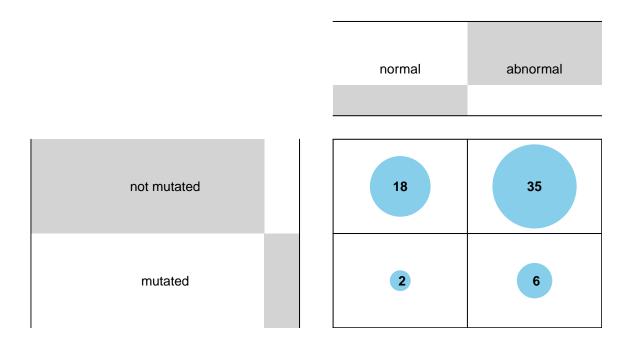
#### **GTF2IRD2B** vs Bilirubin

Fisher's exact test p-value = 1; odds ratio = 0



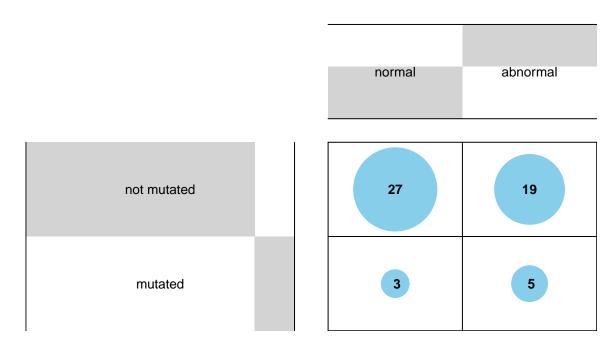
#### **GTF2IRD2B vs ALT**

#### Fisher's exact test p-value = 1; odds ratio = 1.5



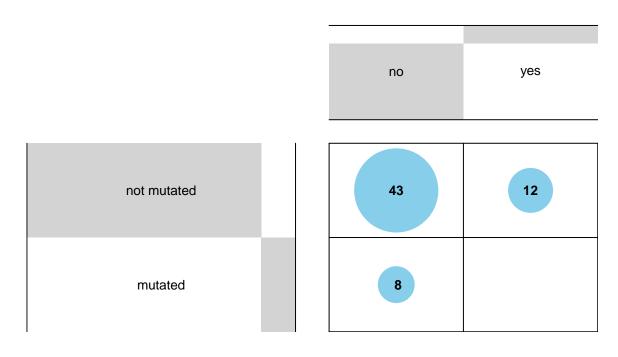
#### **GTF2IRD2B vs AFP**

Fisher's exact test p-value = 0.44; odds ratio = 2.3



#### **GTF2IRD2B** vs Multinodular

Fisher's exact test p-value = 0.33; odds ratio = 0

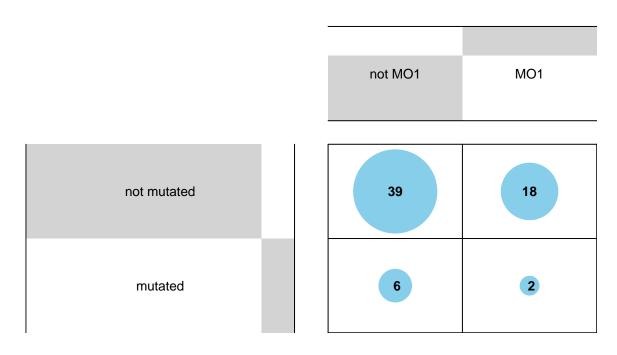


## **GTF2IRD2B** vs Risk Group

Fisher's exact test p-value = 0.67; odds ratio = 0.44

	low risk	high risk
not mutated	43	14
mutated	7	1

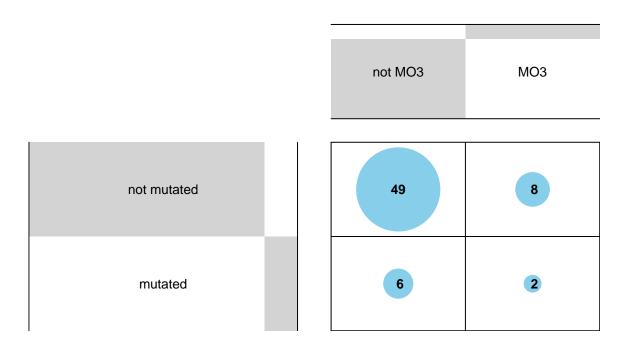
Fisher's exact test p-value = 1; odds ratio = 0.73



Fisher's exact test p-value = 0.42; odds ratio = 1.8

	not MO2	MO2
not mutated	43	14
mutated	5	3

Fisher's exact test p-value = 0.6; odds ratio = 2

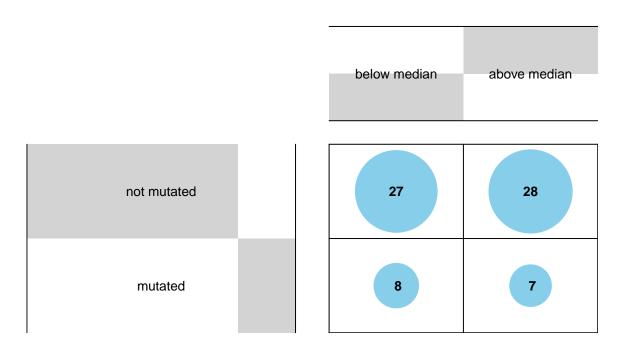


Fisher's exact test p-value = 0.43; odds ratio = 0.34

	not MO4	MO4
not mutated	40	17
mutated	7	1

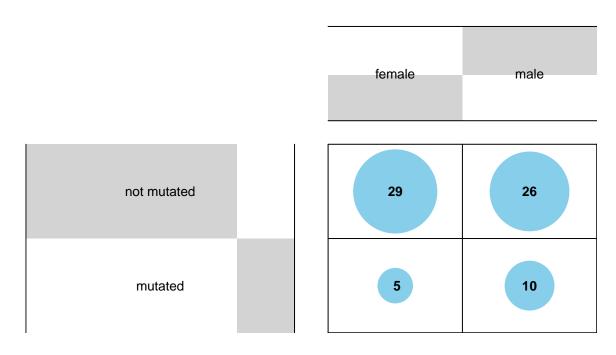
## **CTNNB1** vs Age

Fisher's exact test p-value = 1; odds ratio = 0.85



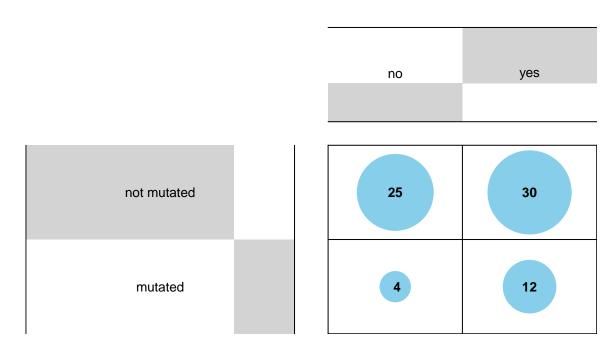
#### CTNNB1 vs Sex

Fisher's exact test p-value = 0.25; odds ratio = 2.2



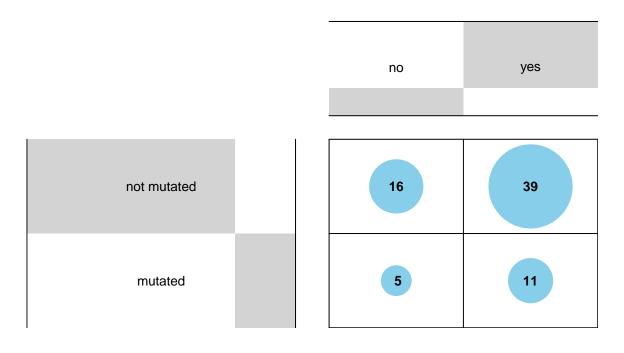
## CTNNB1 vs HCV

Fisher's exact test p-value = 0.16; odds ratio = 2.5



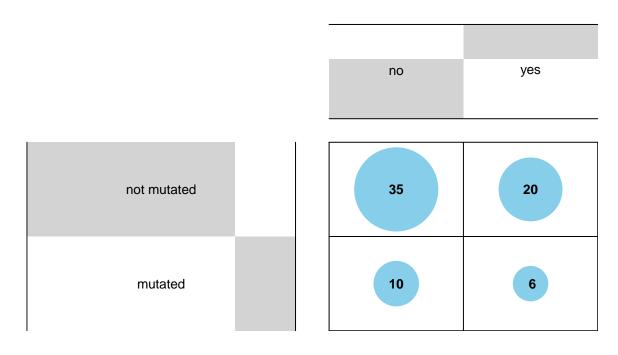
#### CTNNB1 vs HBV

## Fisher's exact test p-value = 1; odds ratio = 0.9



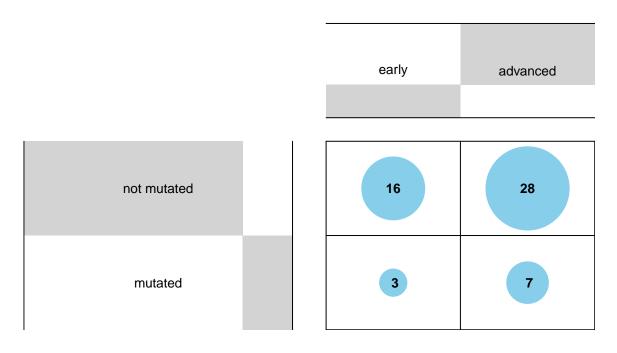
#### CTNNB1 vs HDV

## Fisher's exact test p-value = 1; odds ratio = 1



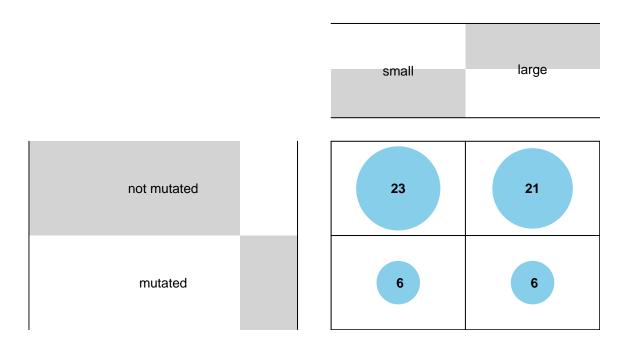
## CTNNB1 vs Stage

## Fisher's exact test p-value = 1; odds ratio = 1.3



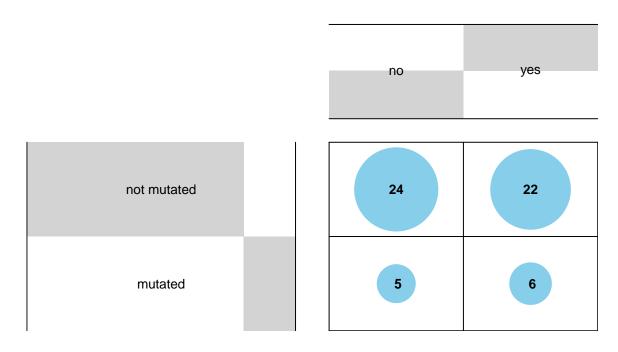
#### **CTNNB1** vs Tumor Size

Fisher's exact test p-value = 1; odds ratio = 1.1



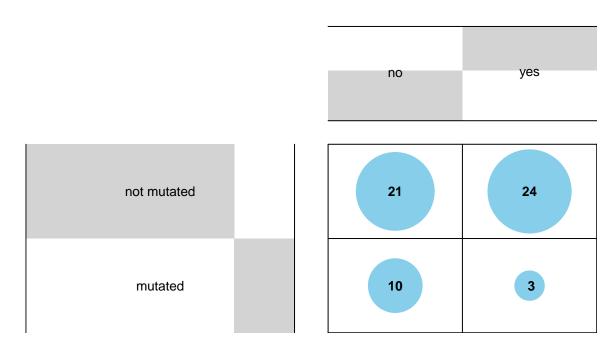
#### **CTNNB1** vs Cirrhosis

Fisher's exact test p-value = 0.75; odds ratio = 1.3



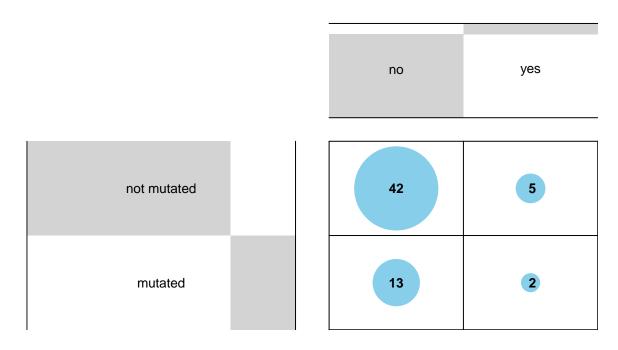
## **CTNNB1** vs Obesity

Fisher's exact test p-value = 0.066; odds ratio = 0.27



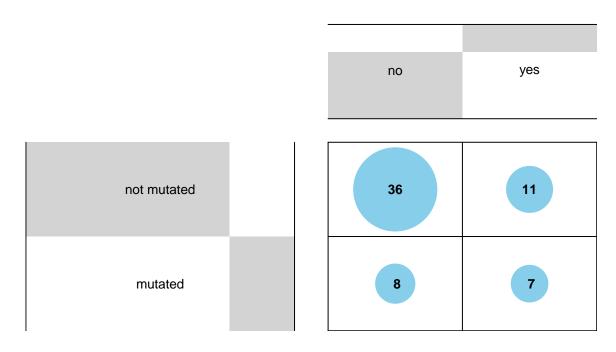
#### CTNNB1 vs Alcohol

## Fisher's exact test p-value = 1; odds ratio = 1.3



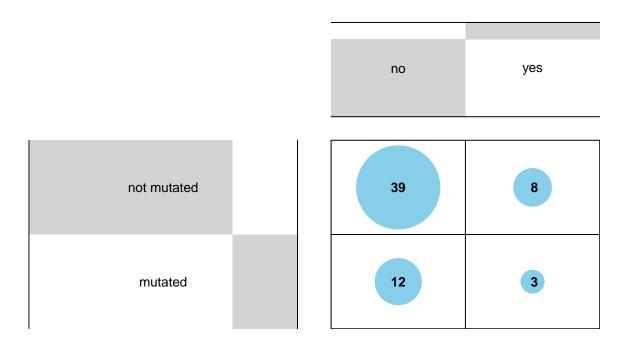
#### **CTNNB1** vs Smoker

#### Fisher's exact test p-value = 0.11; odds ratio = 2.8



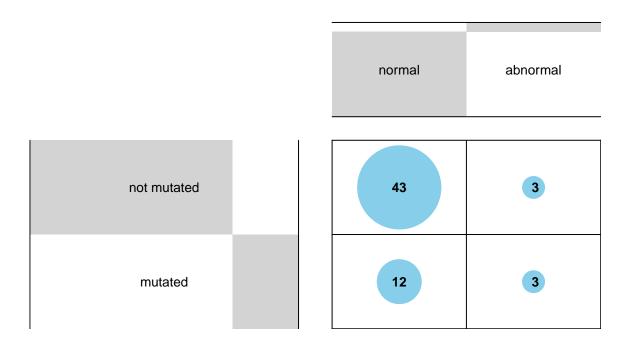
## CTNNB1 vs Fam Hx Liv C

#### Fisher's exact test p-value = 1; odds ratio = 1.2



#### **CTNNB1** vs Albumin

Fisher's exact test p-value = 0.15; odds ratio = 3.5

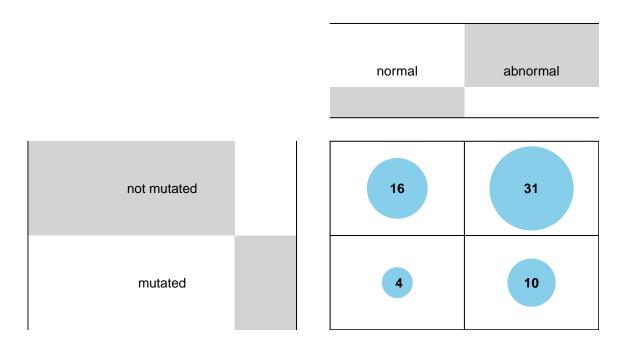


## **CTNNB1** vs Bilirubin

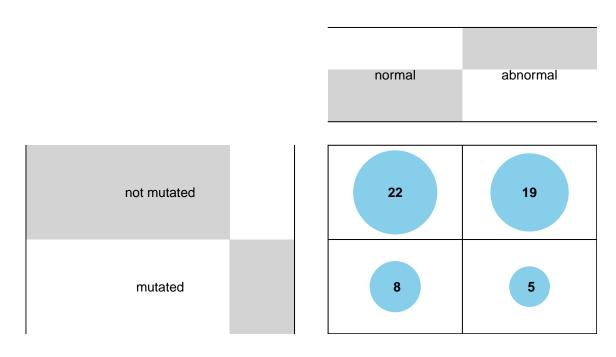
Fisher's exact test p-value = 0.074; odds ratio = 5.9

	normal	abnormal
not mutated	45	2
mutated	11	3

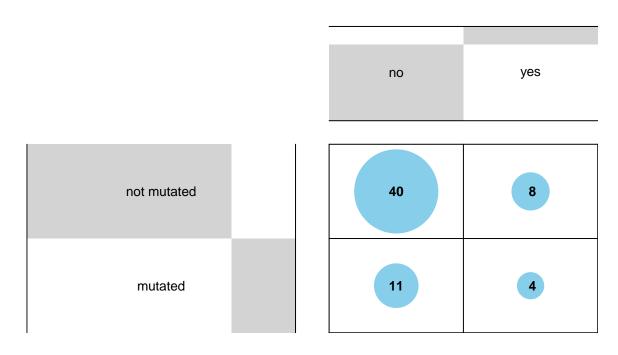
# CTNNB1 vs ALT



#### CTNNB1 vs AFP



#### **CTNNB1** vs Multinodular



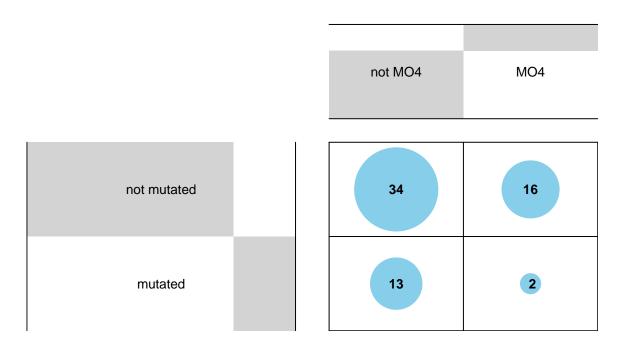
# **CTNNB1** vs Risk Group

	low risk	high risk
not mutated	37	13
mutated	13	2

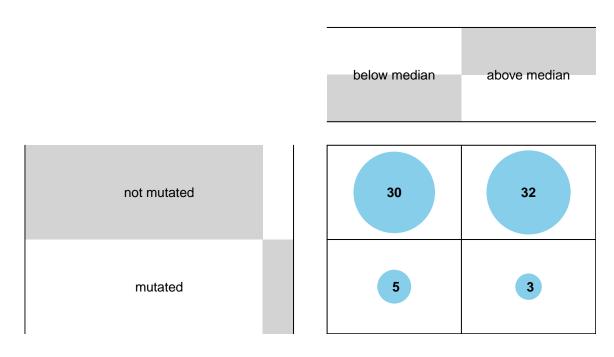
	not MO1	MO1
not mutated	38	12
mutated	7	8

	not MO2	MO2
not mutated	36	14
mutated	12	3

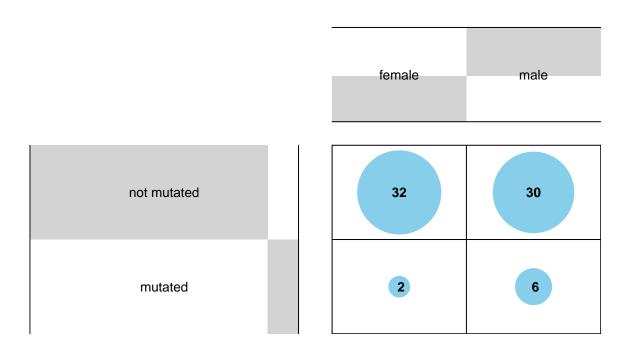




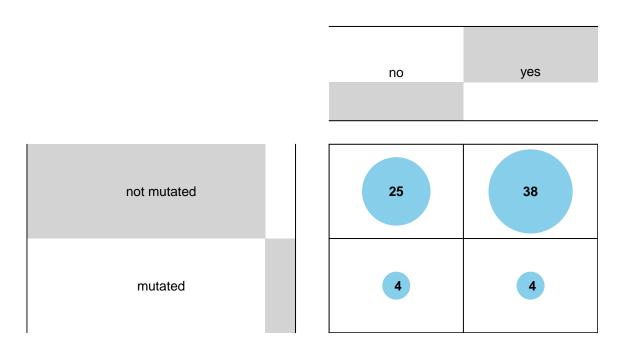
# PCDH7 vs Age



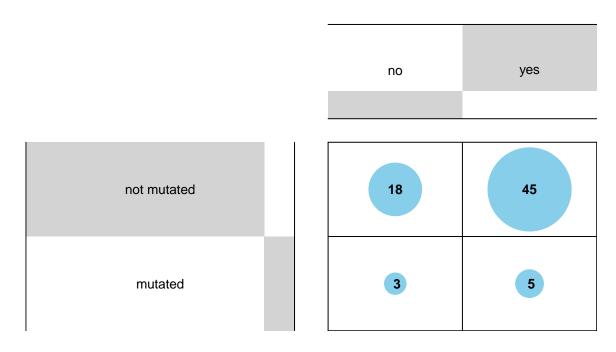
# PCDH7 vs Sex Fisher's exact test p-value = 0.26 ; odds ratio = 3.2



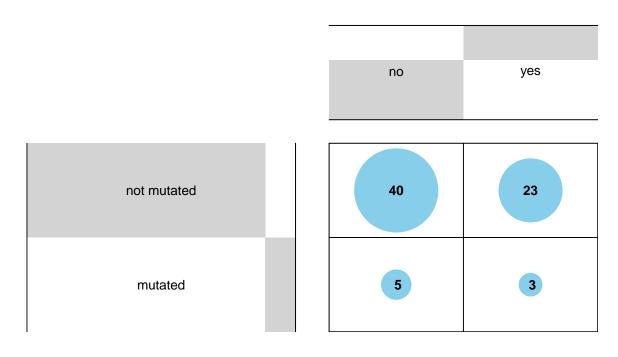
#### PCDH7 vs HCV



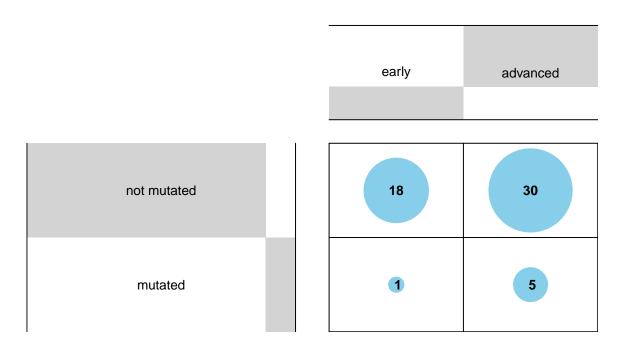
#### PCDH7 vs HBV



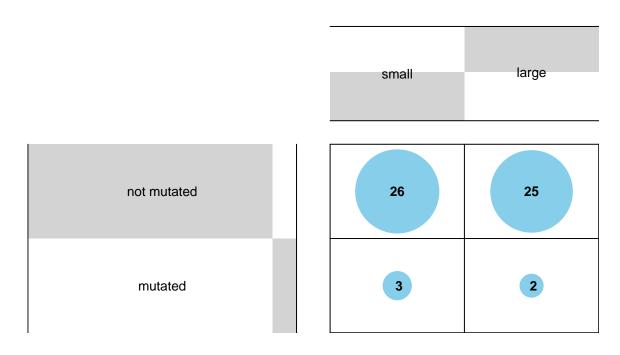
#### PCDH7 vs HDV



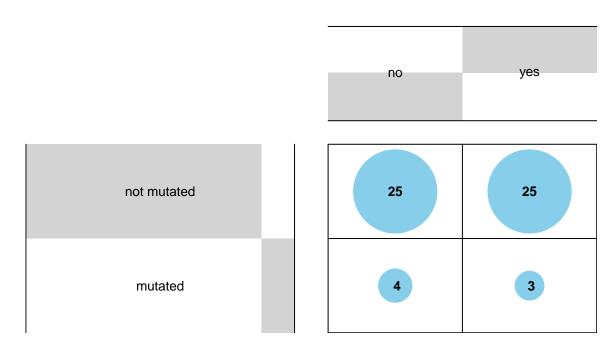
# PCDH7 vs Stage



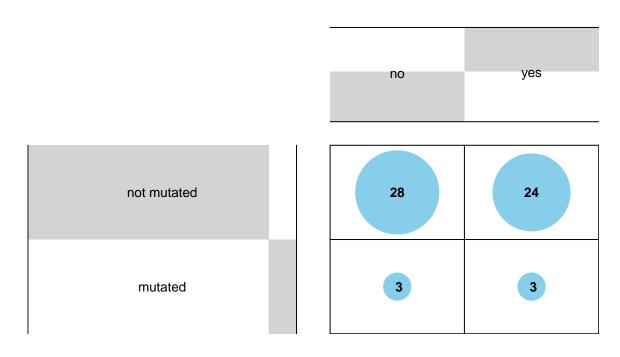
#### **PCDH7 vs Tumor Size**



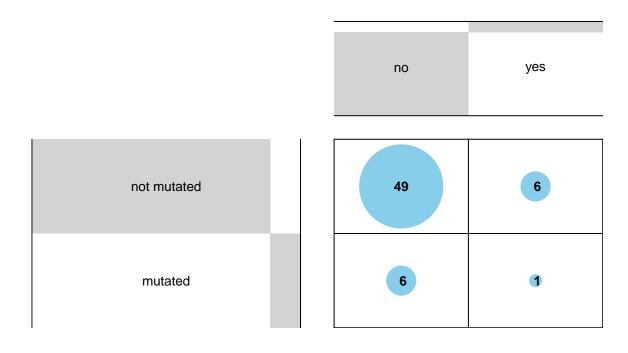
#### **PCDH7 vs Cirrhosis**



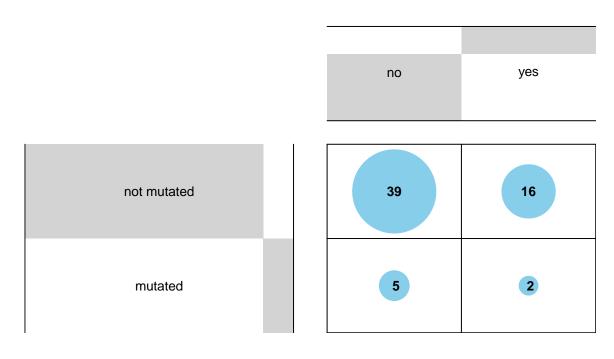
# **PCDH7 vs Obesity**



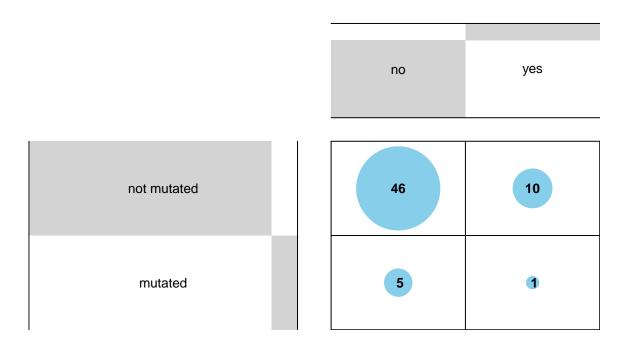
#### **PCDH7 vs Alcohol**



#### **PCDH7 vs Smoker**



#### PCDH7 vs Fam Hx Liv C



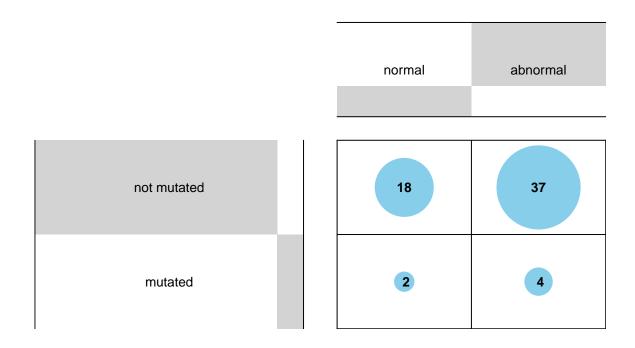
#### **PCDH7 vs Albumin**

	normal	abnormal
not mutated	49	5
mutated	6	1

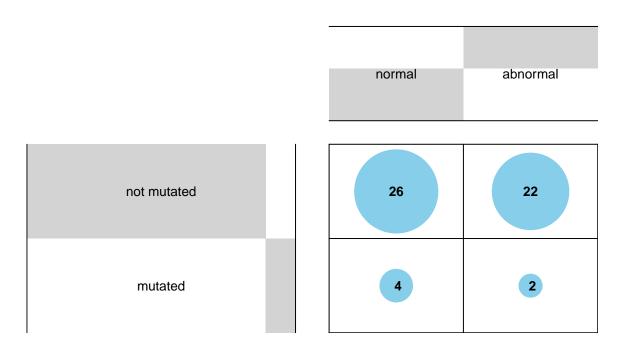
#### **PCDH7 vs Bilirubin**

	normal	abnormal
not mutated	51	4
mutated	5	1

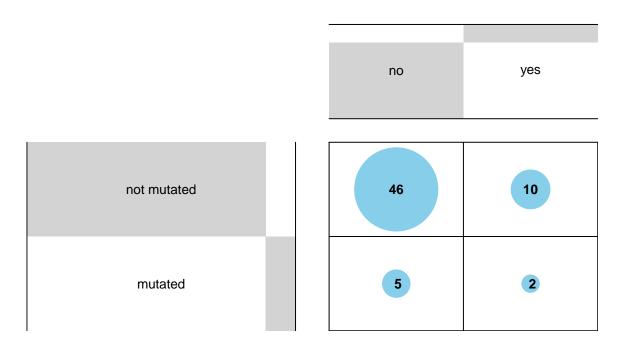
# PCDH7 vs ALT Fisher's exact test p-value = 1; odds ratio = 0.97



# PCDH7 vs AFP

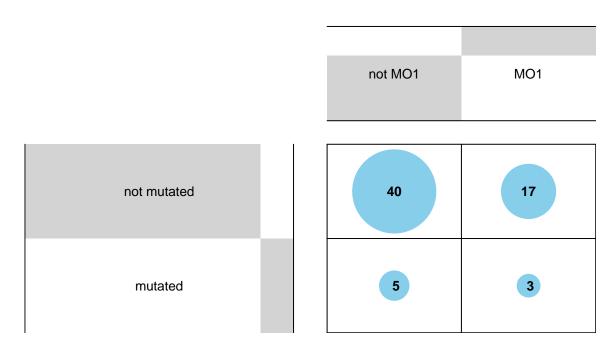


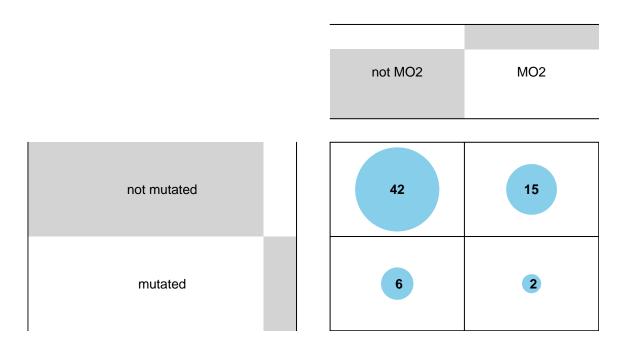
#### **PCDH7 vs Multinodular**

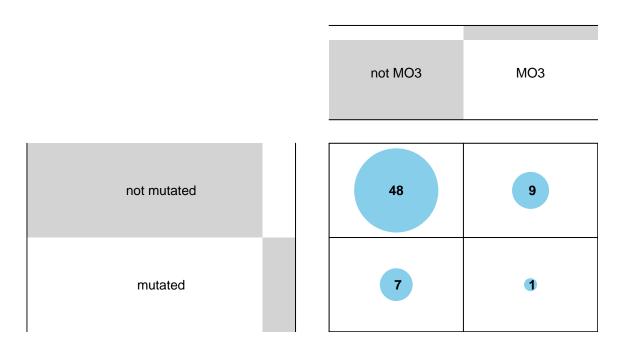


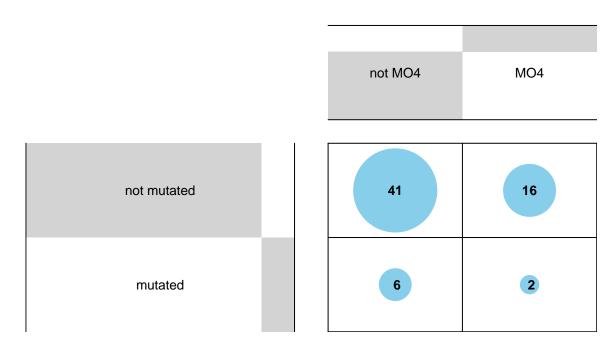
# **PCDH7 vs Risk Group**

	low risk	high risk
not mutated	46	11
mutated	4	4

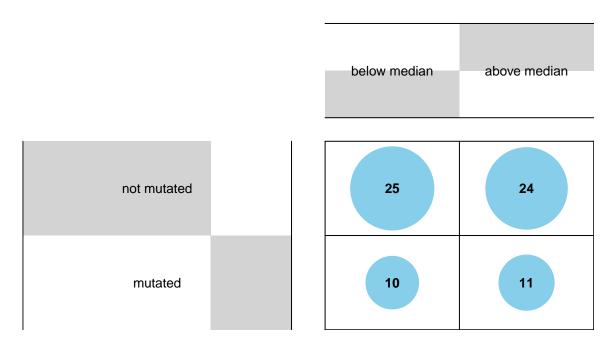




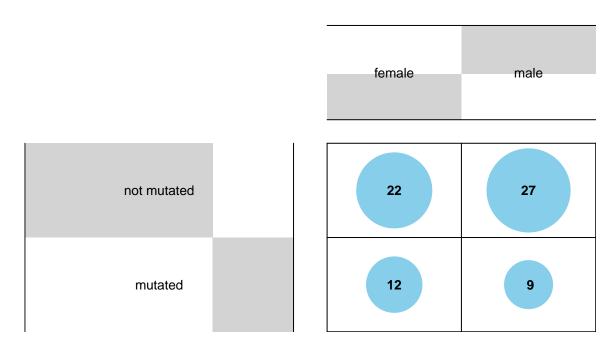




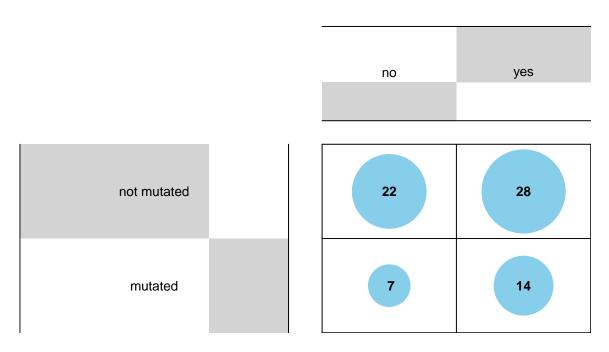
TP53 vs Age
Fisher's exact test p-value = 1; odds ratio = 1.1



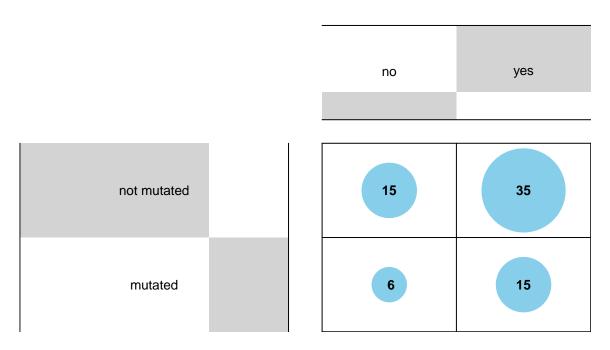
TP53 vs Sex
Fisher's exact test p-value = 0.44; odds ratio = 0.62



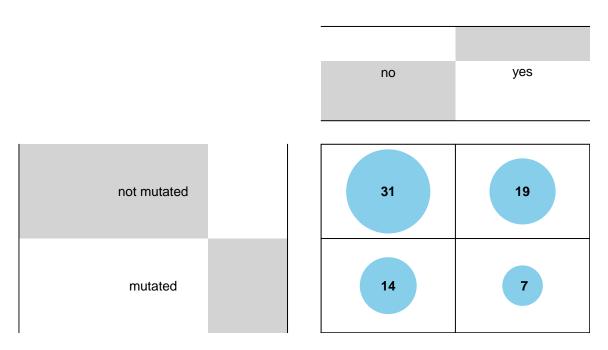
TP53 vs HCV
Fisher's exact test p-value = 0.44; odds ratio = 1.6



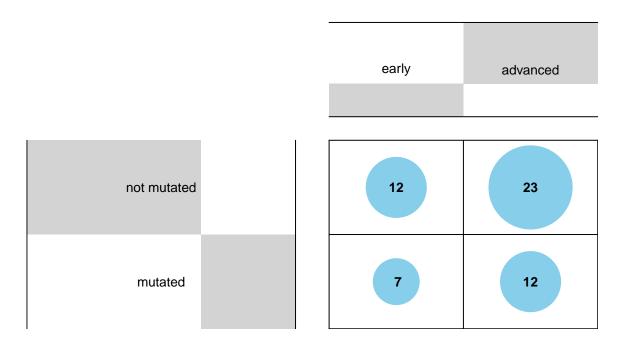
TP53 vs HBV
Fisher's exact test p-value = 1; odds ratio = 1.1



TP53 vs HDV
Fisher's exact test p-value = 0.79; odds ratio = 0.82

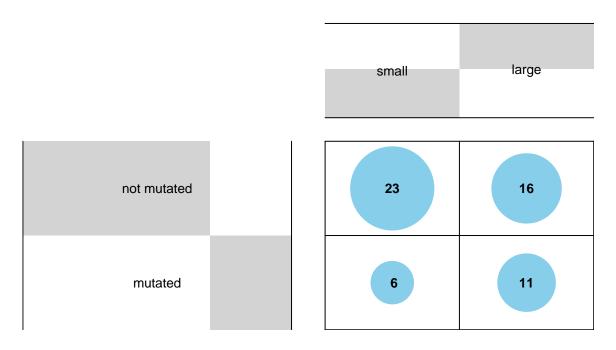


TP53 vs Stage
Fisher's exact test p-value = 1; odds ratio = 0.9

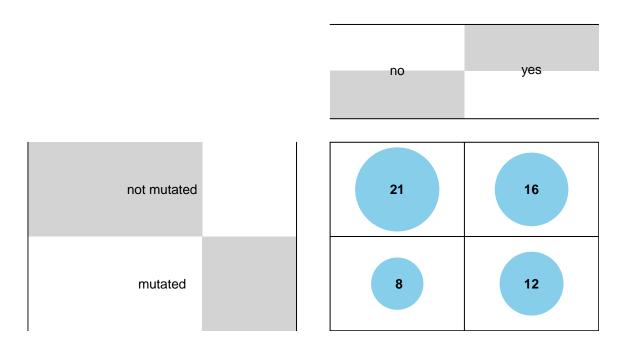


### **TP53 vs Tumor Size**

Fisher's exact test p-value = 0.15; odds ratio = 2.6

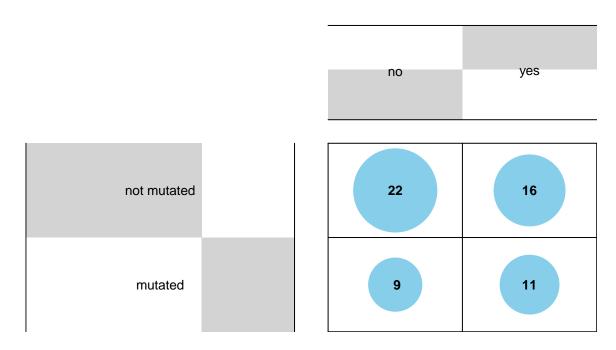


# TP53 vs Cirrhosis Fisher's exact test p-value = 0.27; odds ratio = 1.9

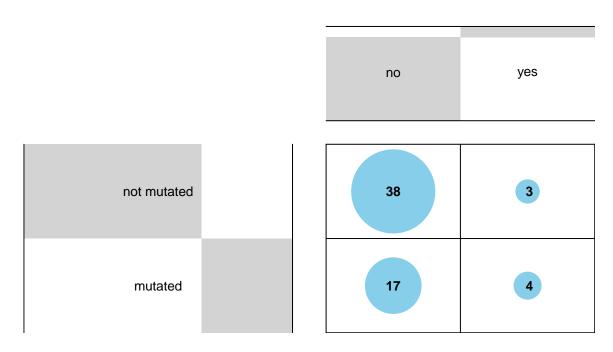


## TP53 vs Obesity

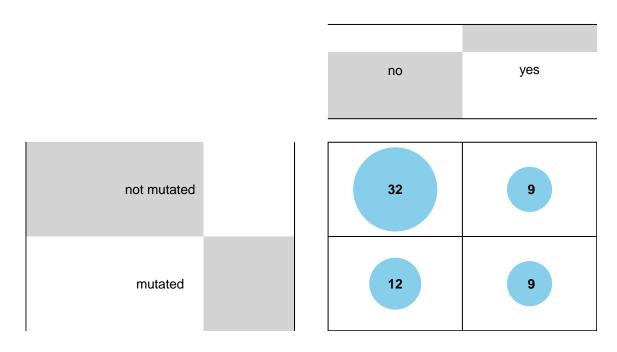
Fisher's exact test p-value = 0.41; odds ratio = 1.7



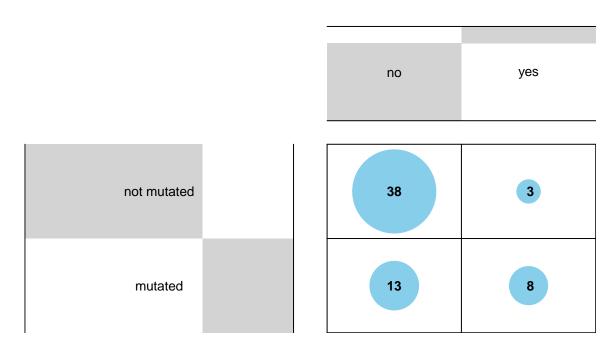
TP53 vs Alcohol
Fisher's exact test p-value = 0.21; odds ratio = 2.9



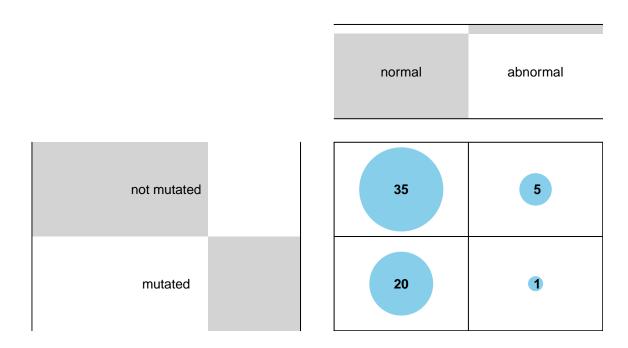
TP53 vs Smoker
Fisher's exact test p-value = 0.14; odds ratio = 2.6



TP53 vs Fam Hx Liv C
Fisher's exact test p-value = 0.0048; odds ratio = 7.5

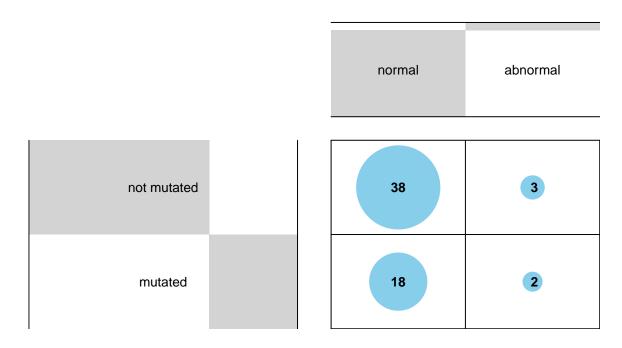


## TP53 vs Albumin Fisher's exact test p-value = 0.65; odds ratio = 0.36

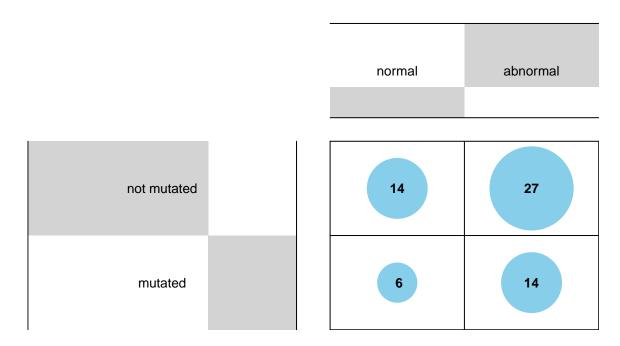


## TP53 vs Bilirubin

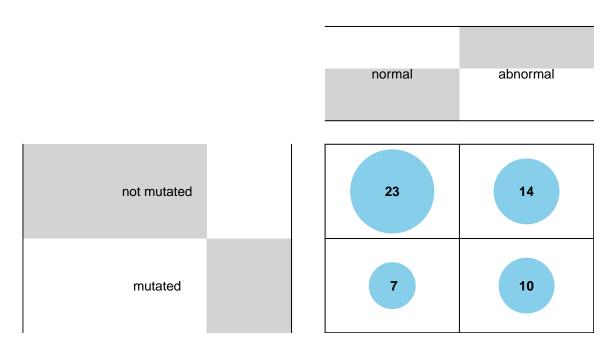
#### Fisher's exact test p-value = 1; odds ratio = 1.4



TP53 vs ALT
Fisher's exact test p-value = 1; odds ratio = 1.2

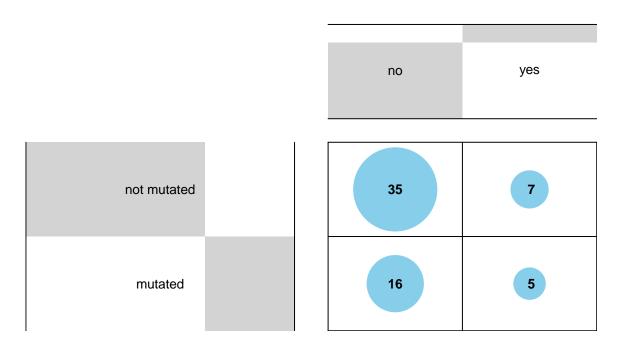


TP53 vs AFP
Fisher's exact test p-value = 0.24 ; odds ratio = 2.3



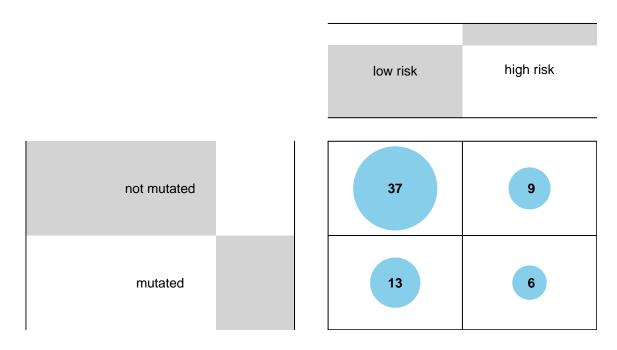
### **TP53 vs Multinodular**

Fisher's exact test p-value = 0.51; odds ratio = 1.6



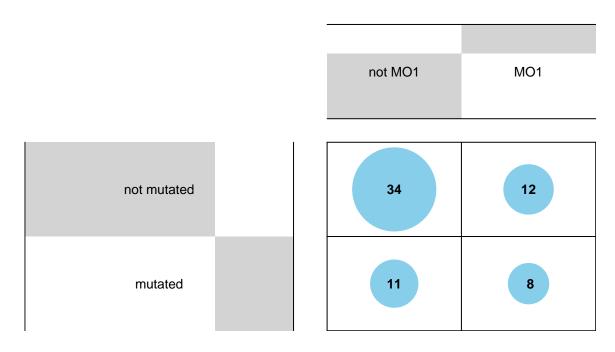
#### **TP53 vs Risk Group**

Fisher's exact test p-value = 0.34; odds ratio = 1.9

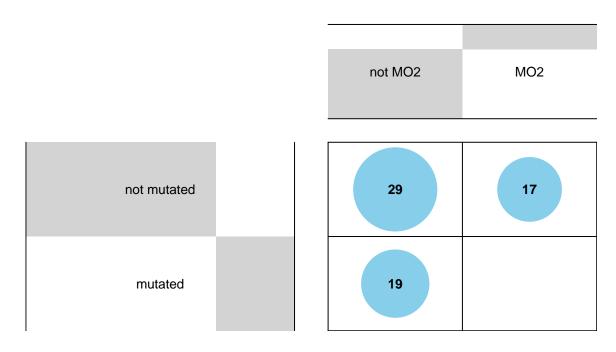


#### TP53 vs Class MO1

#### Fisher's exact test p-value = 0.24; odds ratio = 2

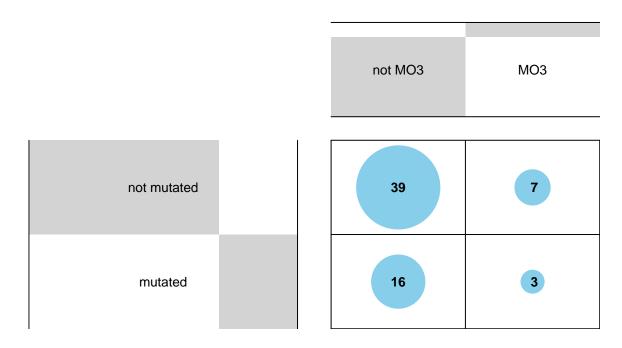


# TP53 vs Class MO2 Fisher's exact test p-value = 0.0014; odds ratio = 0



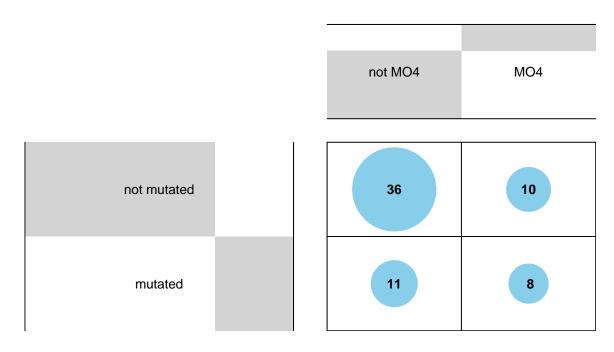
#### **TP53 vs Class MO3**

#### Fisher's exact test p-value = 1; odds ratio = 1

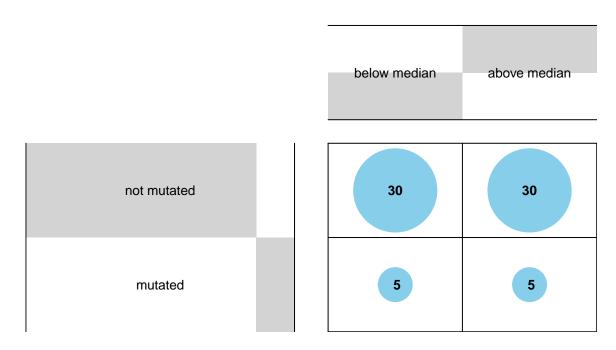


## **TP53 vs Class MO4**

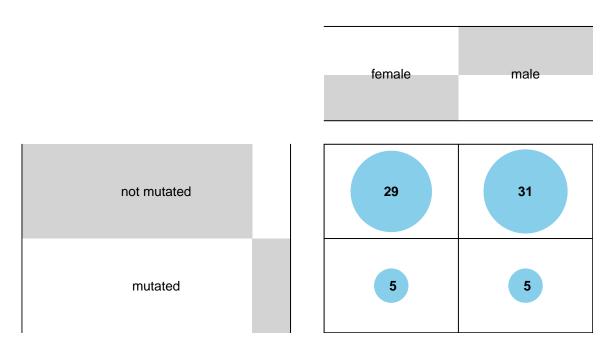
Fisher's exact test p-value = 0.13; odds ratio = 2.6



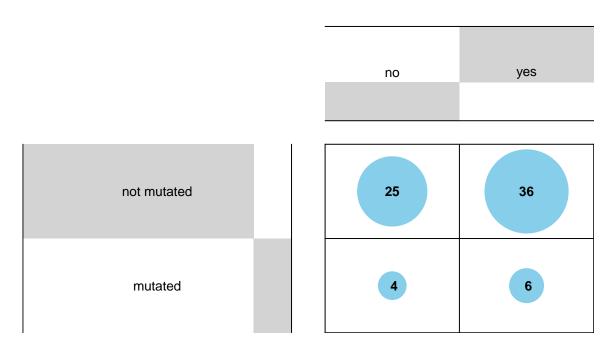
ALB vs Age
Fisher's exact test p-value = 1; odds ratio = 1



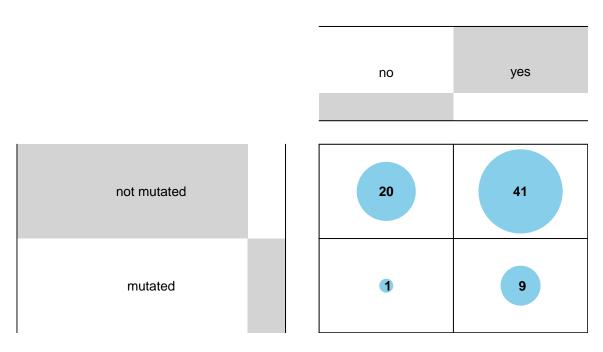
ALB vs Sex
Fisher's exact test p-value = 1; odds ratio = 0.94



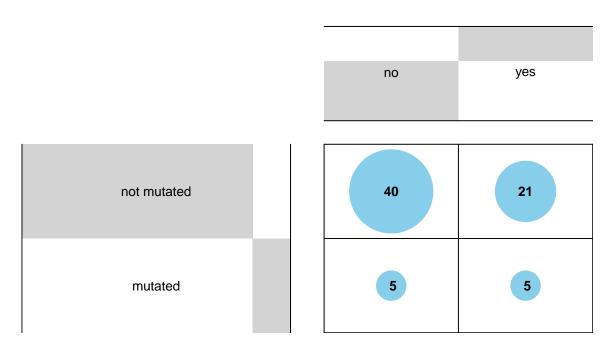
ALB vs HCV
Fisher's exact test p-value = 1; odds ratio = 1



ALB vs HBV
Fisher's exact test p-value = 0.26; odds ratio = 4.3



ALB vs HDV
Fisher's exact test p-value = 0.48; odds ratio = 1.9



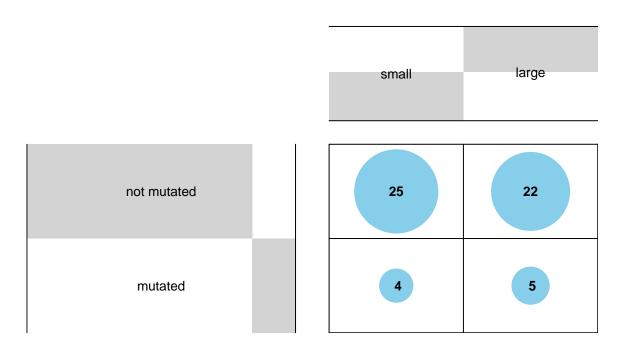
### **ALB vs Stage**

Fisher's exact test p-value = 0.23; odds ratio = 0.36

	early	advanced
	cany	auvanceu
not mutated	15	32
mutated	4	3

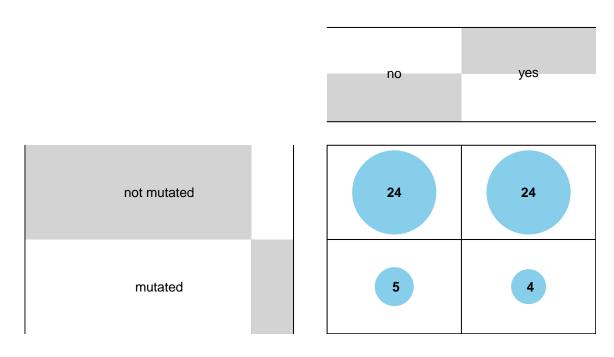
#### **ALB vs Tumor Size**

Fisher's exact test p-value = 0.72; odds ratio = 1.4

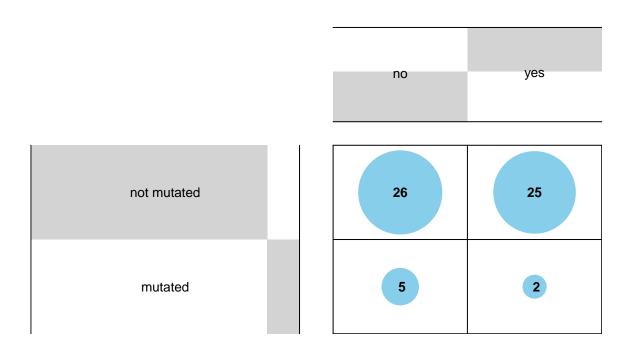


#### **ALB vs Cirrhosis**

Fisher's exact test p-value = 1; odds ratio = 0.8

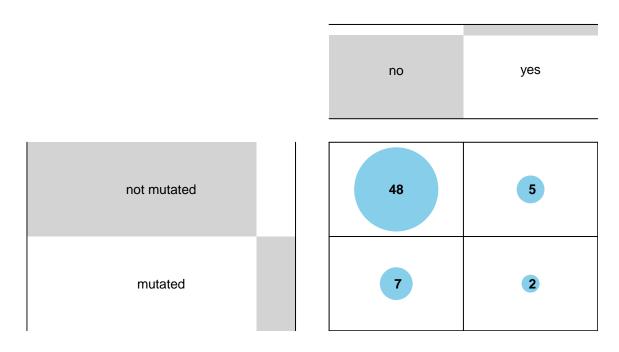


# ALB vs Obesity Fisher's exact test p-value = 0.43; odds ratio = 0.42



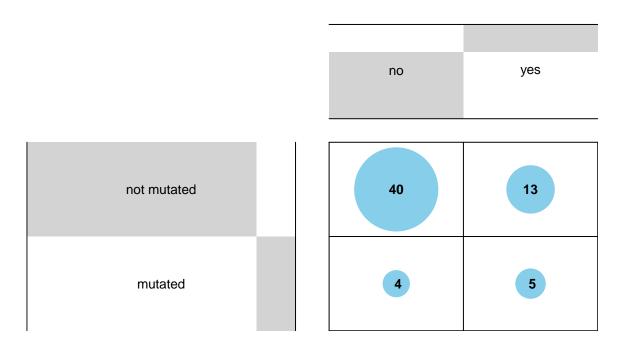
### **ALB vs Alcohol**

Fisher's exact test p-value = 0.27; odds ratio = 2.7



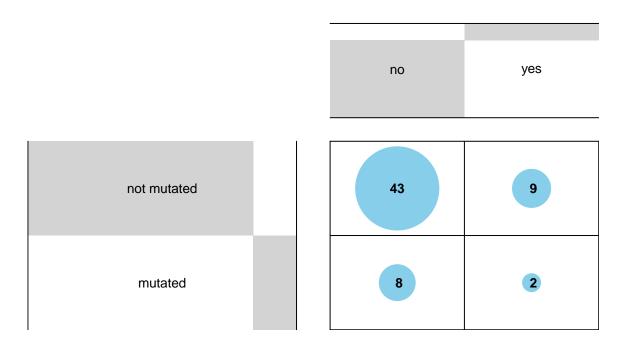
## ALB vs Smoker

Fisher's exact test p-value = 0.11; odds ratio = 3.7



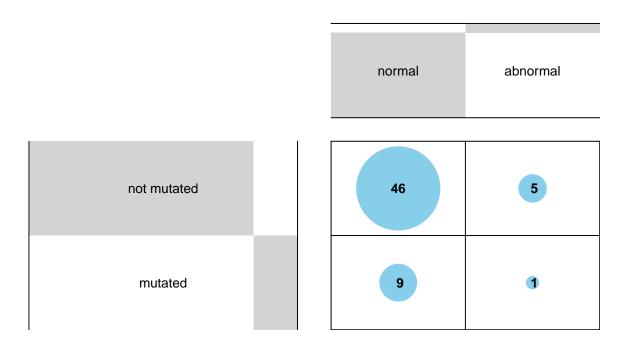
#### **ALB vs Fam Hx Liv C**

#### Fisher's exact test p-value = 1; odds ratio = 1.2



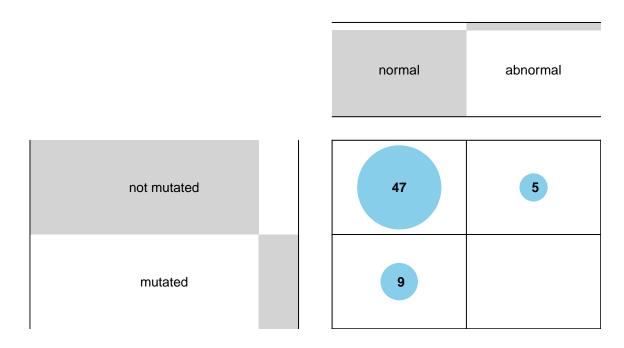
#### **ALB vs Albumin**

#### Fisher's exact test p-value = 1; odds ratio = 1

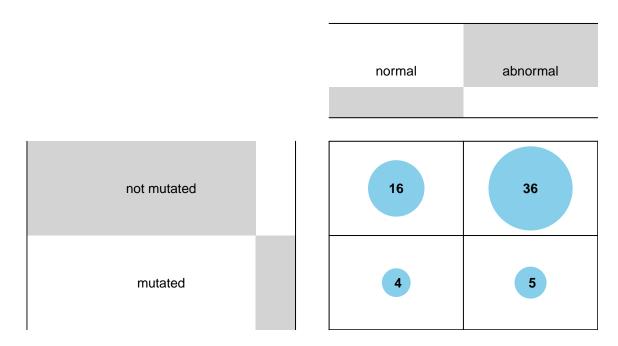


#### **ALB vs Bilirubin**

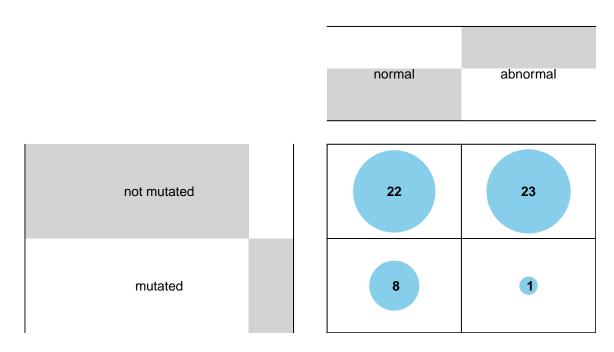
#### Fisher's exact test p-value = 1; odds ratio = 0



ALB vs ALT
Fisher's exact test p-value = 0.46; odds ratio = 0.56

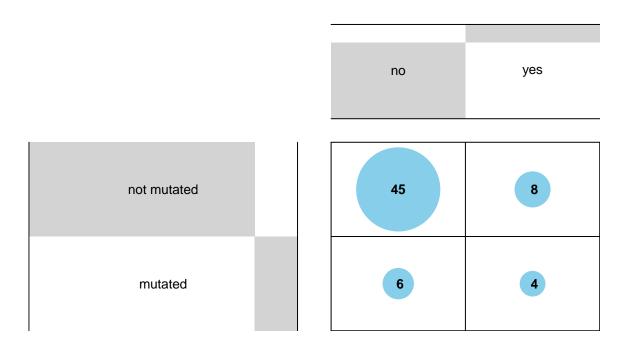


ALB vs AFP
Fisher's exact test p-value = 0.033 ; odds ratio = 0.12



#### **ALB vs Multinodular**

Fisher's exact test p-value = 0.086; odds ratio = 3.6



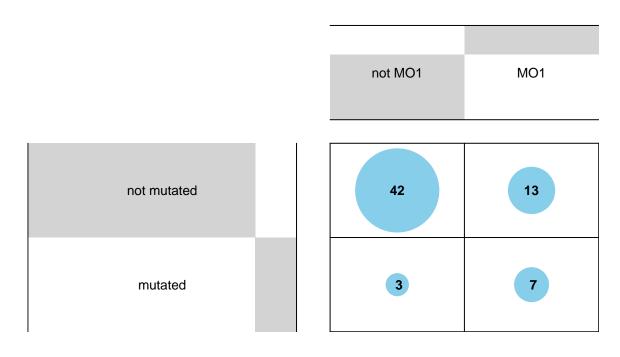
#### **ALB vs Risk Group**

Fisher's exact test p-value = 0.43; odds ratio = 0.33



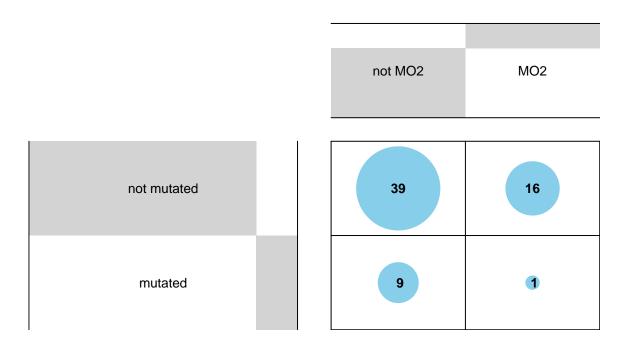
#### **ALB vs Class MO1**

Fisher's exact test p-value = 0.0069; odds ratio = 7.3



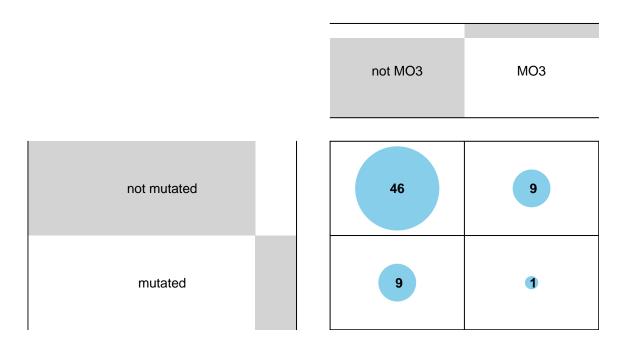
#### **ALB vs Class MO2**

Fisher's exact test p-value = 0.27; odds ratio = 0.28



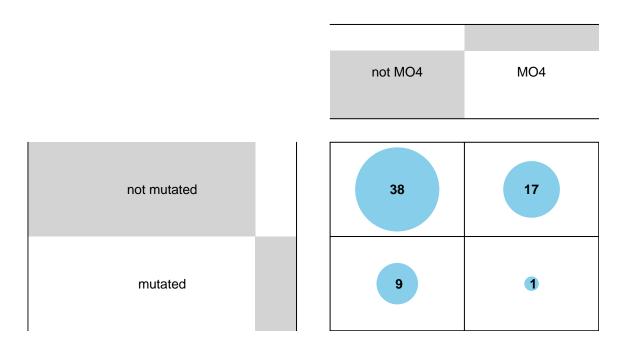
#### **ALB vs Class MO3**

## Fisher's exact test p-value = 1; odds ratio = 0.57

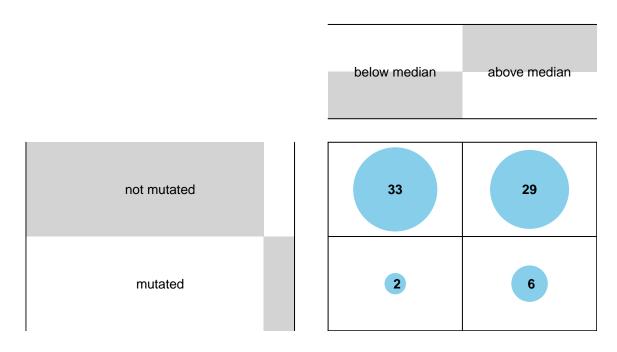


#### **ALB vs Class MO4**

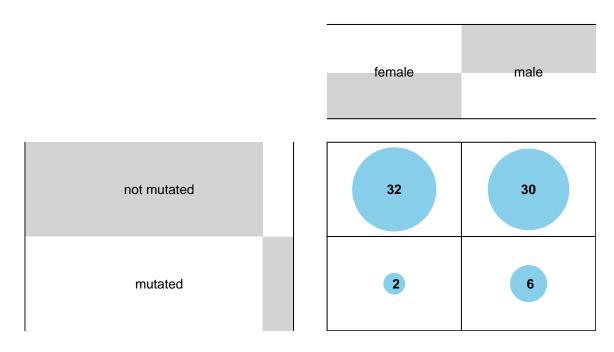
Fisher's exact test p-value = 0.26; odds ratio = 0.25



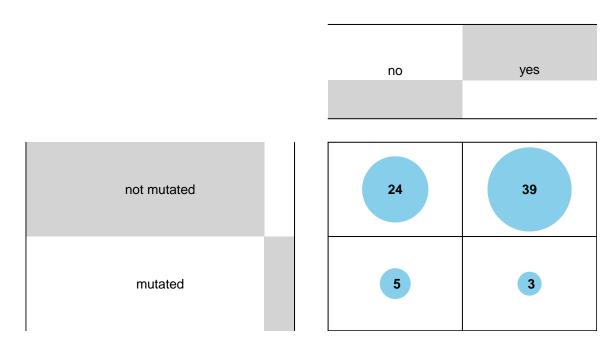
# SMC6 vs Age Fisher's exact test p-value = 0.26; odds ratio = 3.4



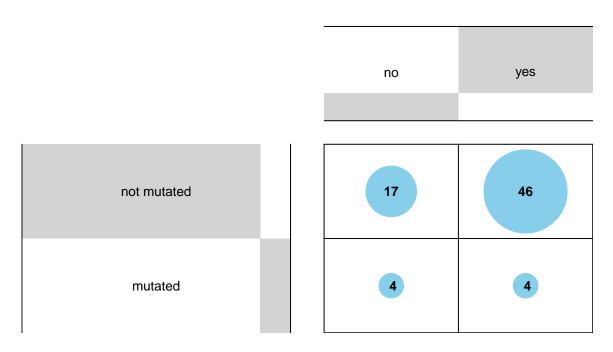
# SMC6 vs Sex Fisher's exact test p-value = 0.26; odds ratio = 3.2



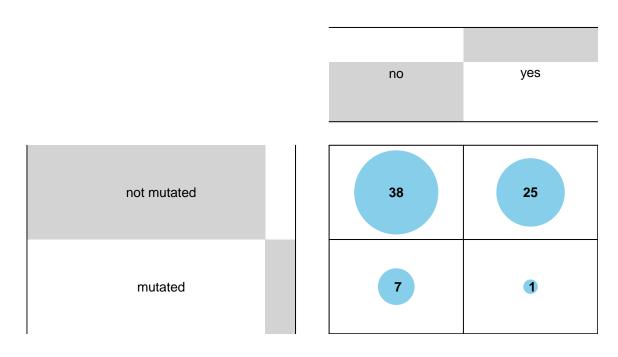
# SMC6 vs HCV Fisher's exact test p-value = 0.26; odds ratio = 0.37



SMC6 vs HBV Fisher's exact test p-value = 0.22; odds ratio = 0.38

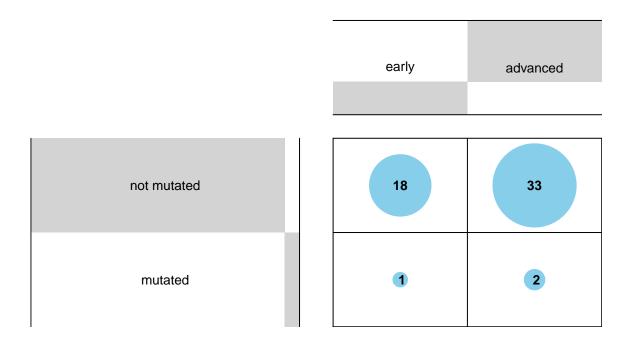


# SMC6 vs HDV Fisher's exact test p-value = 0.24; odds ratio = 0.22



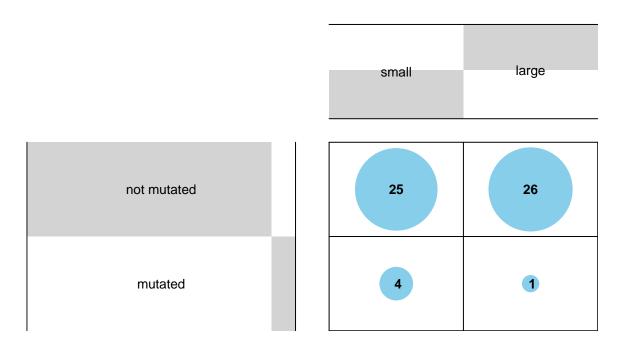
## **SMC6 vs Stage**

#### Fisher's exact test p-value = 1; odds ratio = 1.1



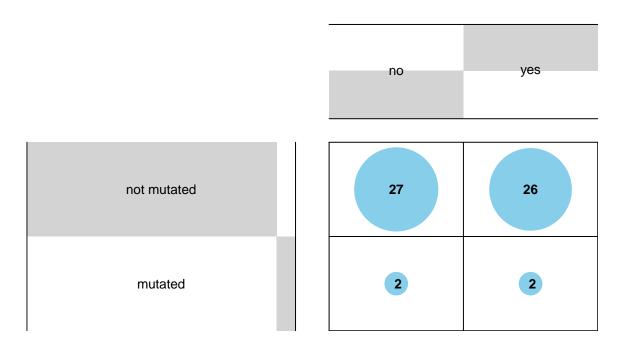
#### **SMC6** vs Tumor Size

Fisher's exact test p-value = 0.35; odds ratio = 0.25



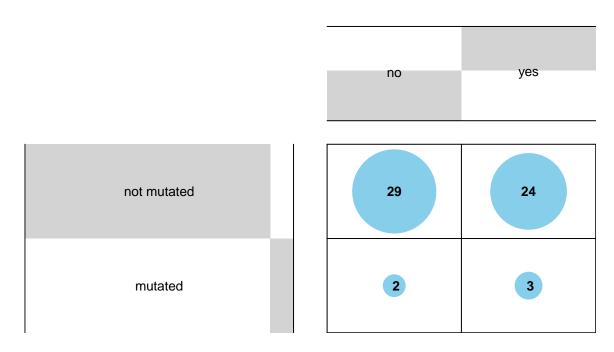
#### **SMC6** vs Cirrhosis

## Fisher's exact test p-value = 1; odds ratio = 1



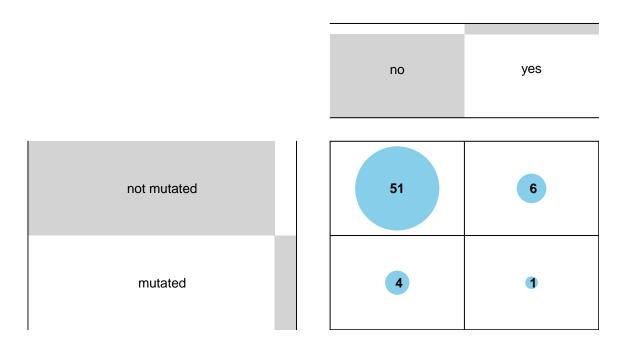
# **SMC6** vs Obesity

Fisher's exact test p-value = 0.66; odds ratio = 1.8



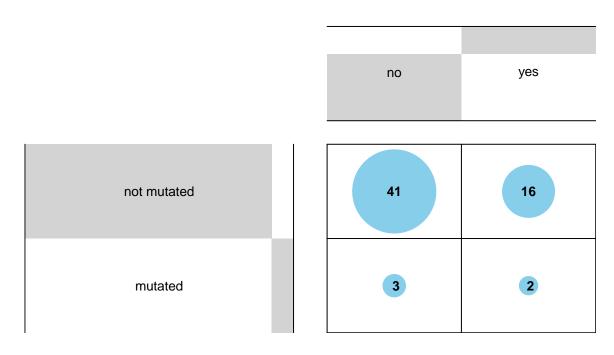
#### **SMC6** vs Alcohol

#### Fisher's exact test p-value = 0.46; odds ratio = 2.1



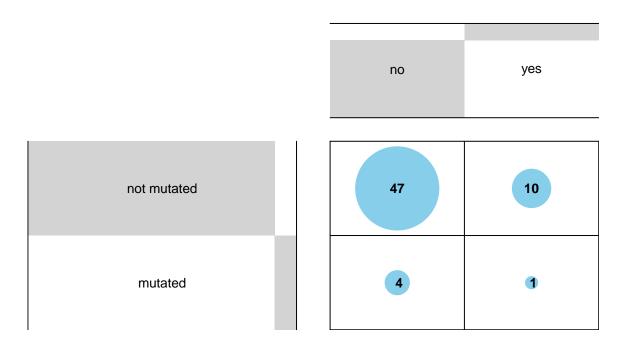
#### SMC6 vs Smoker

Fisher's exact test p-value = 0.62; odds ratio = 1.7



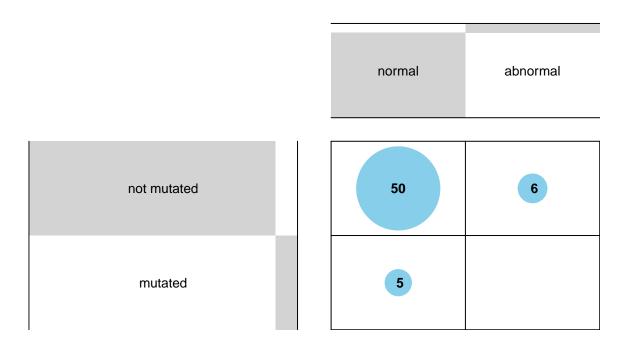
#### SMC6 vs Fam Hx Liv C

## Fisher's exact test p-value = 1; odds ratio = 1.2



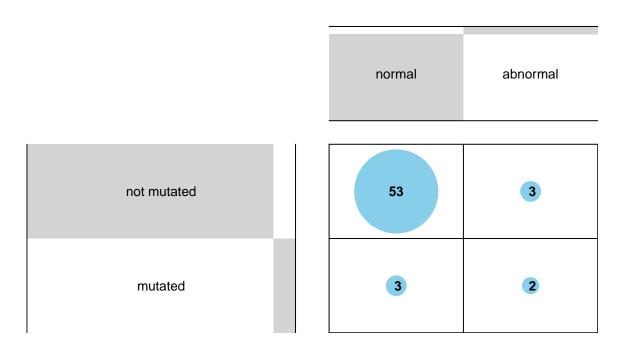
#### **SMC6** vs Albumin

#### Fisher's exact test p-value = 1; odds ratio = 0

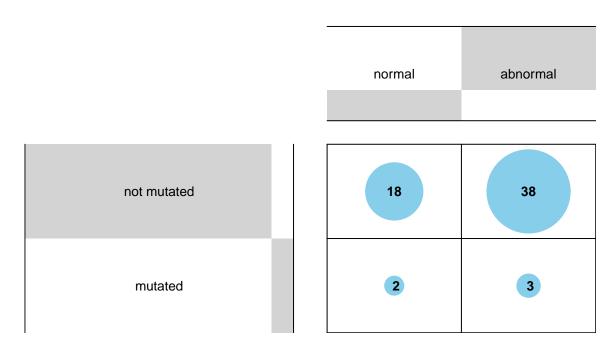


#### **SMC6** vs Bilirubin

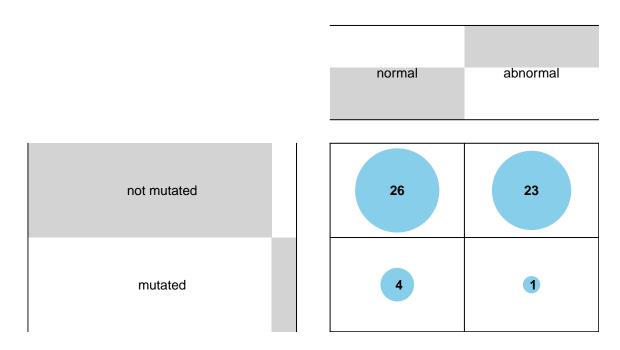
Fisher's exact test p-value = 0.049; odds ratio = 11



# SMC6 vs ALT Fisher's exact test p-value = 1; odds ratio = 0.71

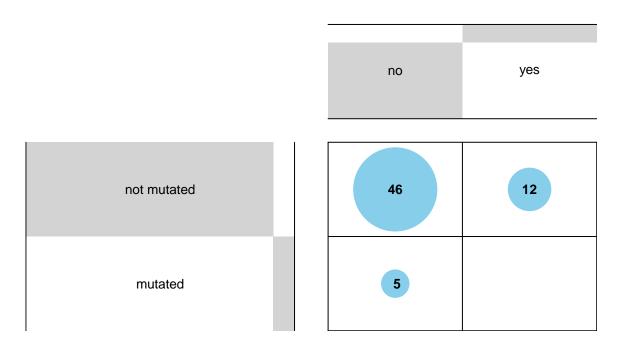


# SMC6 vs AFP Fisher's exact test p-value = 0.37; odds ratio = 0.29



#### **SMC6** vs Multinodular

Fisher's exact test p-value = 0.57; odds ratio = 0

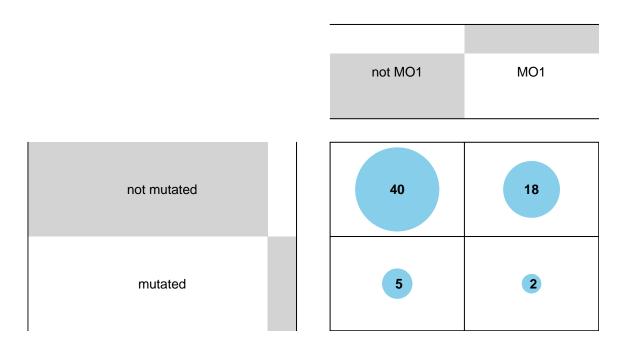


# **SMC6** vs Risk Group

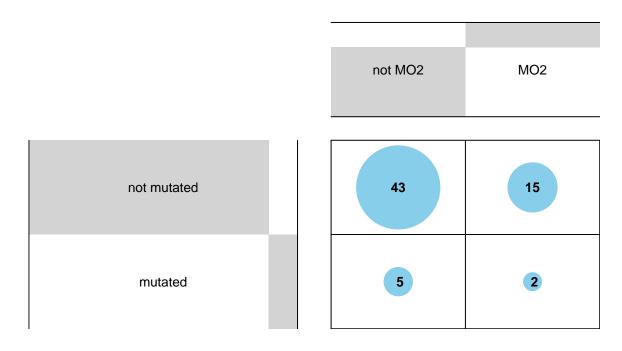
Fisher's exact test p-value = 0.34; odds ratio = 2.8

	low risk	high risk
not mutated	46	12
mutated	4	3

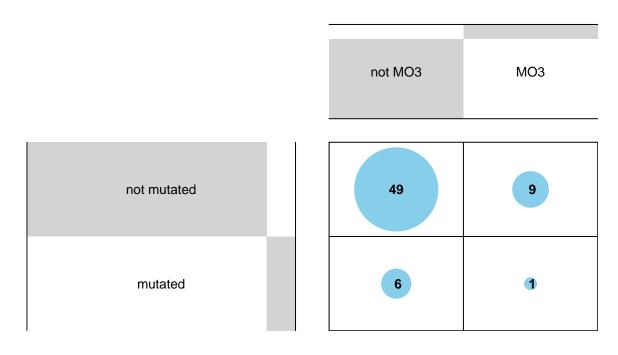
#### Fisher's exact test p-value = 1; odds ratio = 0.89



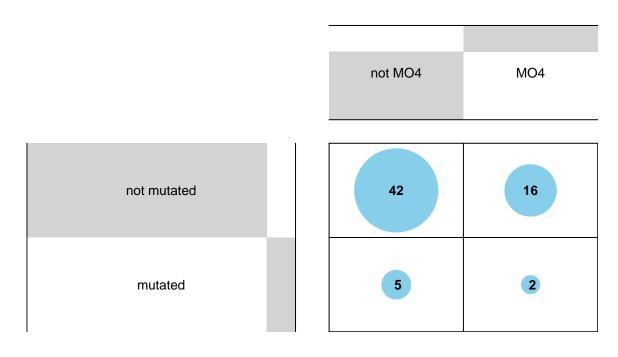
#### Fisher's exact test p-value = 1; odds ratio = 1.1



#### Fisher's exact test p-value = 1; odds ratio = 0.91

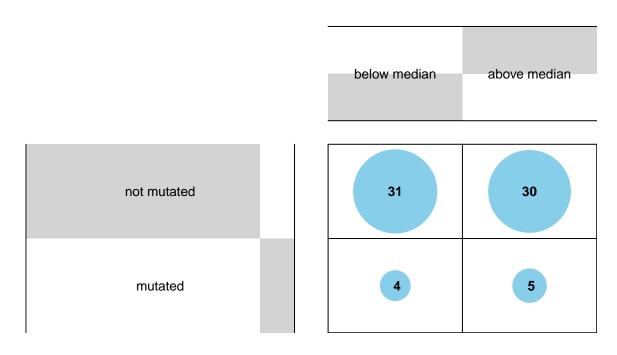


#### Fisher's exact test p-value = 1; odds ratio = 1



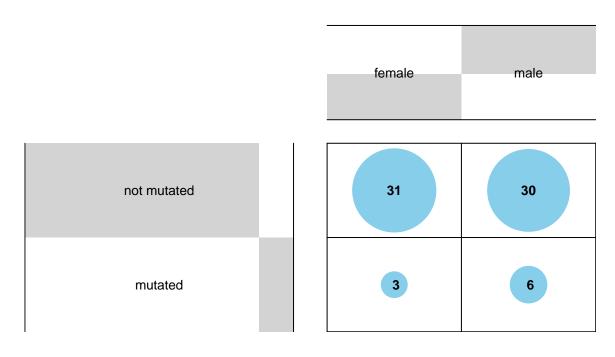
## **APOB** vs Age

Fisher's exact test p-value = 1; odds ratio = 1.3



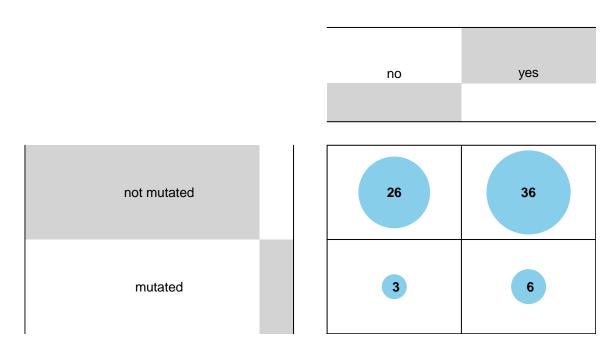
#### **APOB vs Sex**

#### Fisher's exact test p-value = 0.48; odds ratio = 2



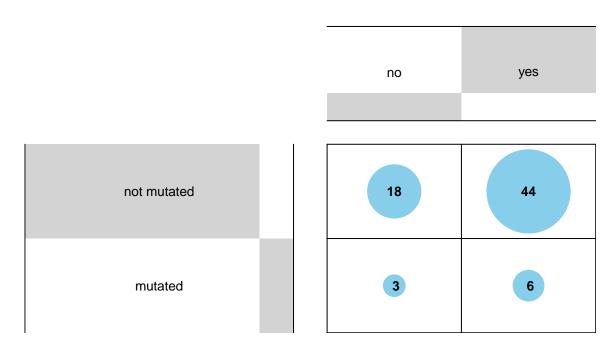
# **APOB vs HCV**

Fisher's exact test p-value = 0.73; odds ratio = 1.4



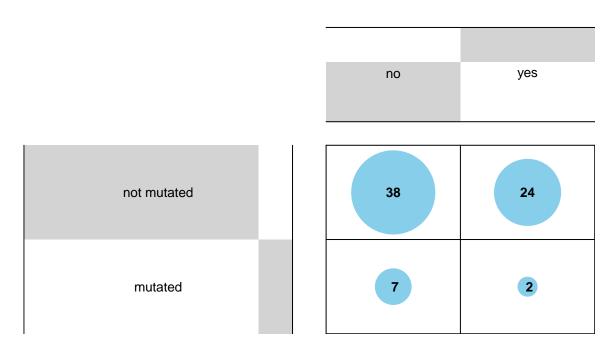
# APOB vs HBV

#### Fisher's exact test p-value = 1; odds ratio = 0.82



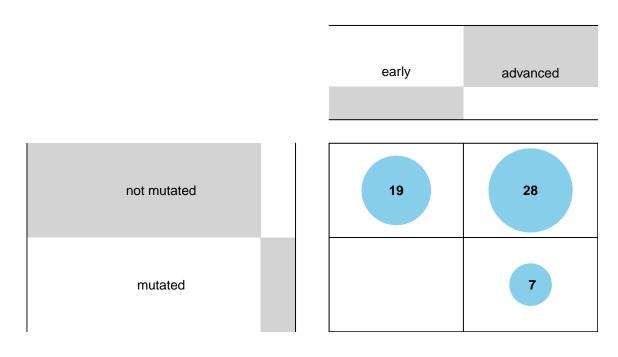
# APOB vs HDV

Fisher's exact test p-value = 0.47; odds ratio = 0.46



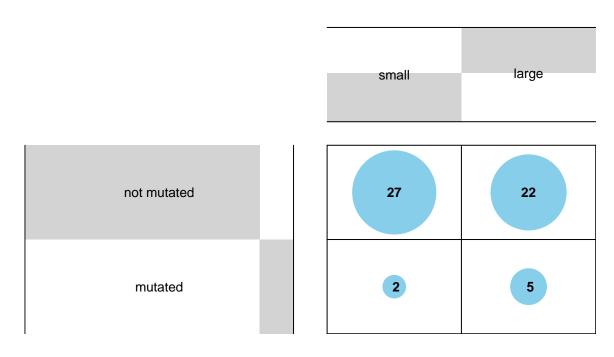
# **APOB vs Stage**

#### Fisher's exact test p-value = 0.044; odds ratio = Inf



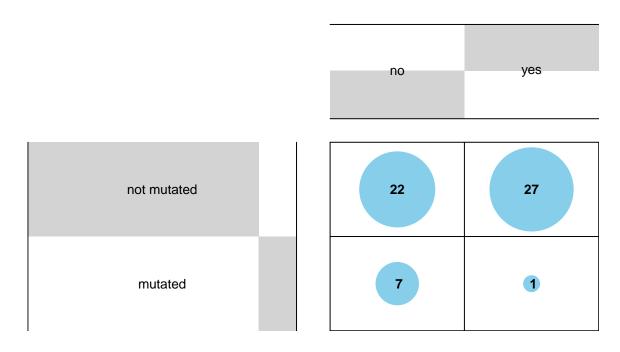
#### **APOB vs Tumor Size**

Fisher's exact test p-value = 0.24; odds ratio = 3



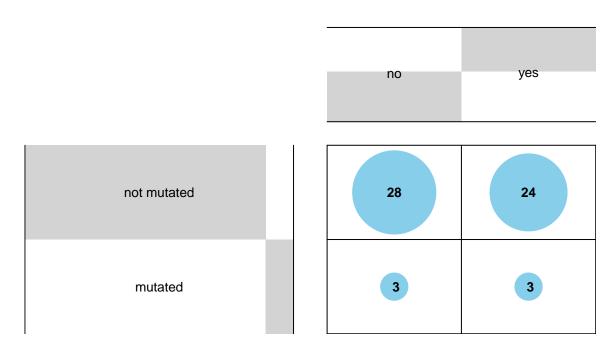
#### **APOB vs Cirrhosis**

Fisher's exact test p-value = 0.052; odds ratio = 0.12



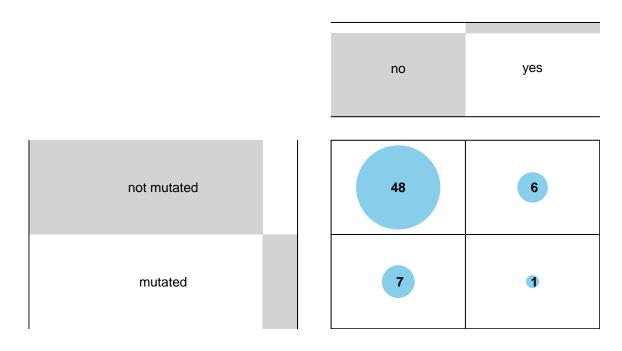
## **APOB vs Obesity**

Fisher's exact test p-value = 1; odds ratio = 1.2



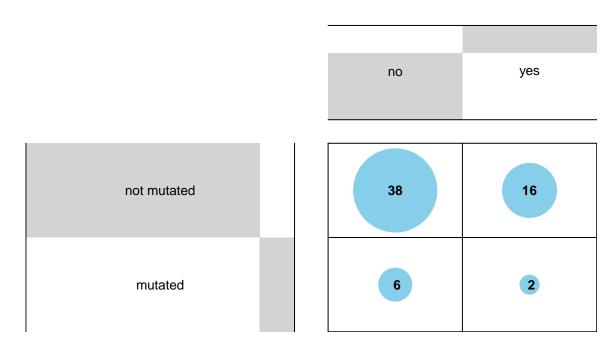
#### **APOB vs Alcohol**

## Fisher's exact test p-value = 1; odds ratio = 1.1



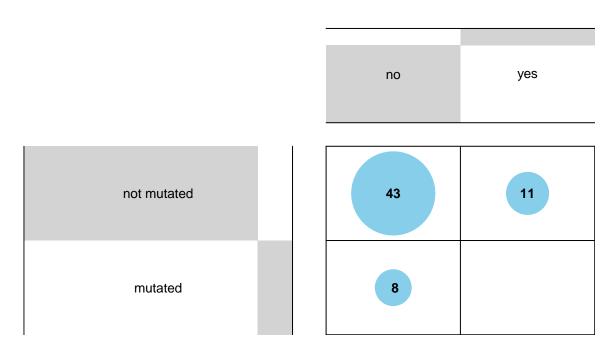
#### **APOB vs Smoker**

## Fisher's exact test p-value = 1; odds ratio = 0.79

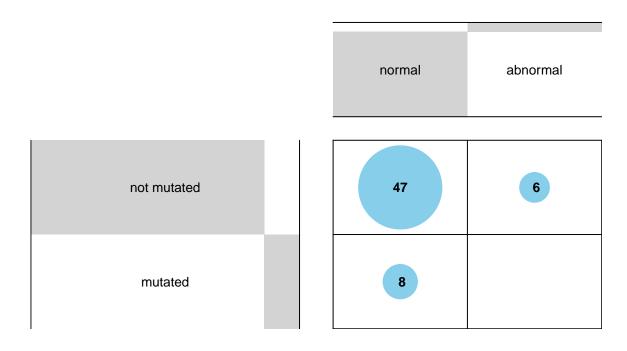


#### **APOB vs Fam Hx Liv C**

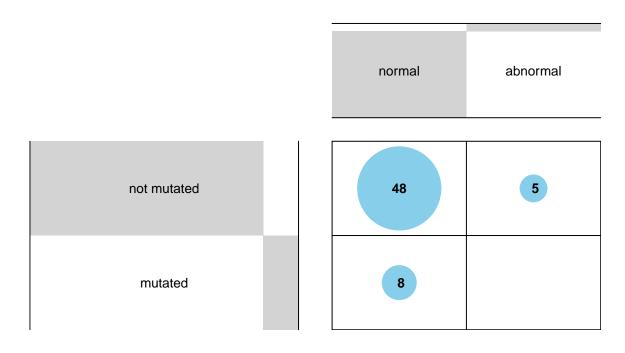
Fisher's exact test p-value = 0.33; odds ratio = 0



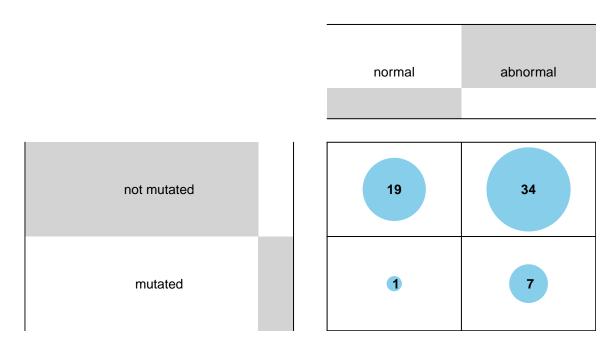
# **APOB** vs Albumin



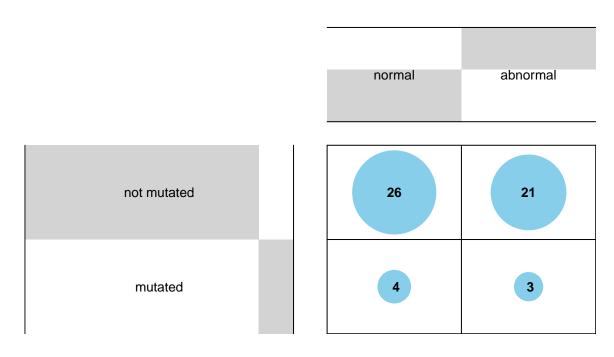
#### **APOB vs Bilirubin**



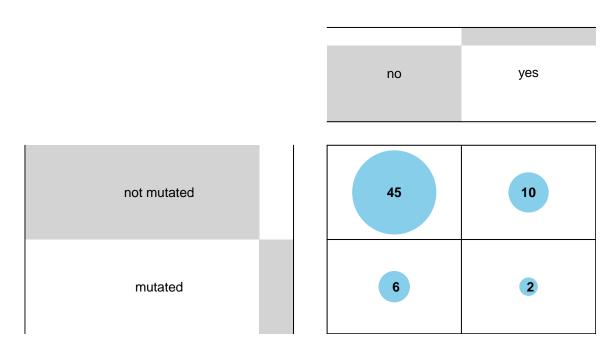
# APOB vs ALT Fisher's exact test p-value = 0.25 ; odds ratio = 3.8



# APOB vs AFP

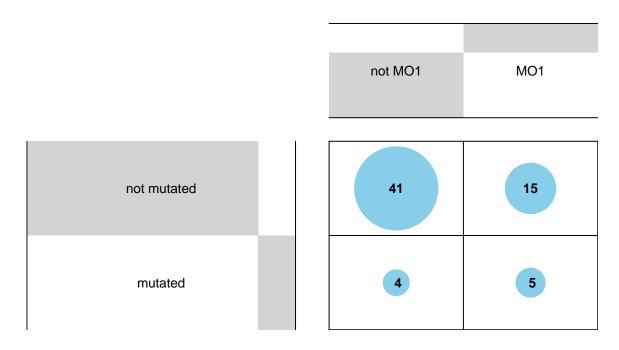


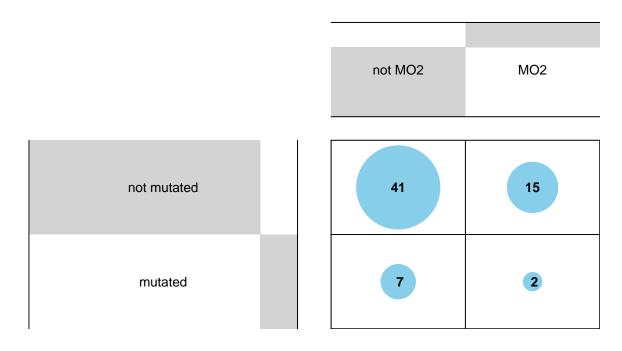
#### **APOB vs Multinodular**

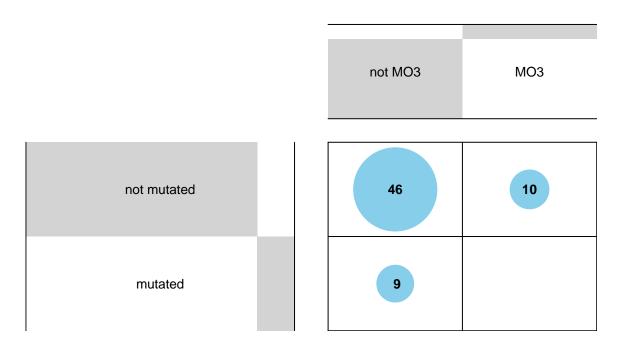


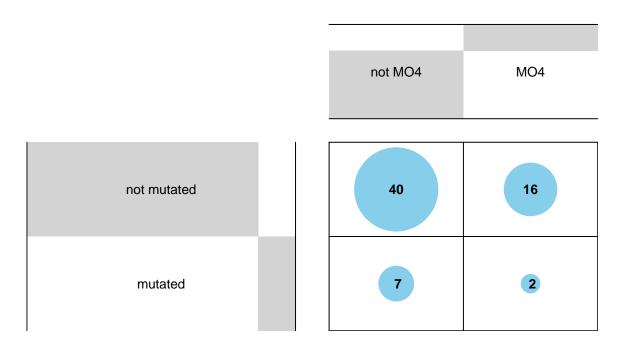
# **APOB vs Risk Group**

	•		
		low risk	high risk
not mutated		43	13
mutated		7	2

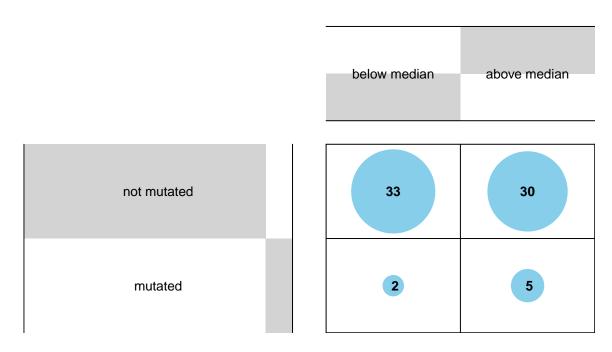




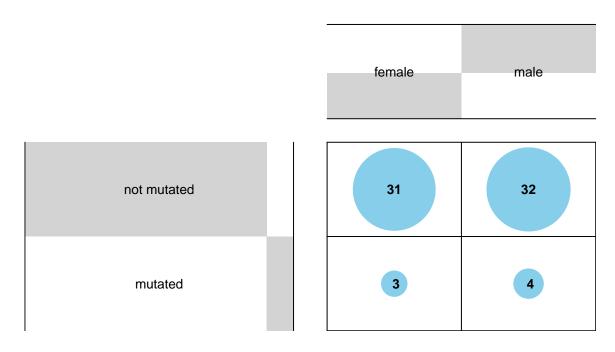




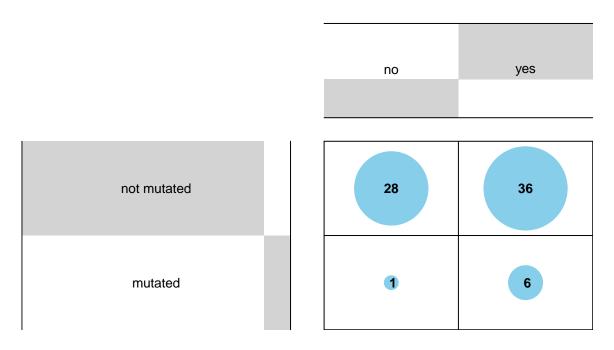
RB1 vs Age
Fisher's exact test p-value = 0.43 ; odds ratio = 2.7



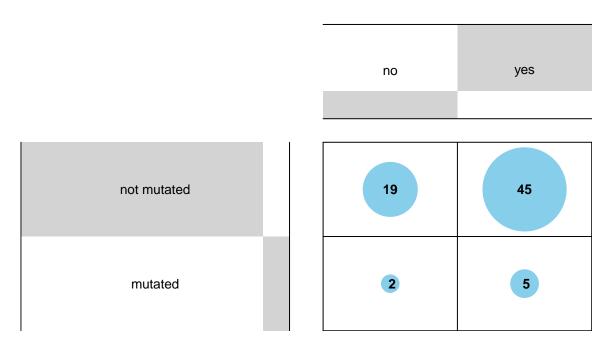
RB1 vs Sex
Fisher's exact test p-value = 1; odds ratio = 1.3



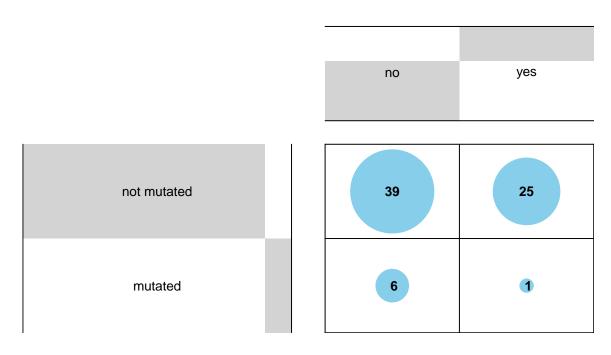
RB1 vs HCV
Fisher's exact test p-value = 0.23 ; odds ratio = 4.6



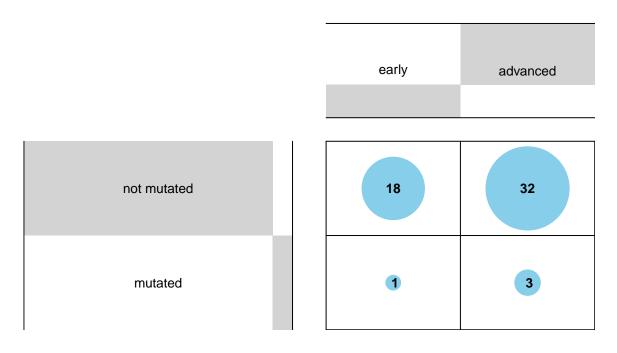
RB1 vs HBV
Fisher's exact test p-value = 1; odds ratio = 1.1



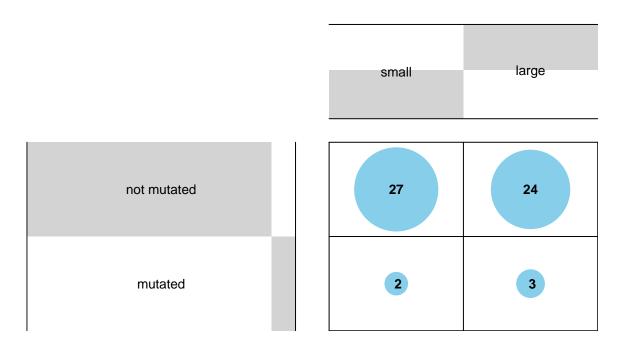
RB1 vs HDV
Fisher's exact test p-value = 0.25; odds ratio = 0.26



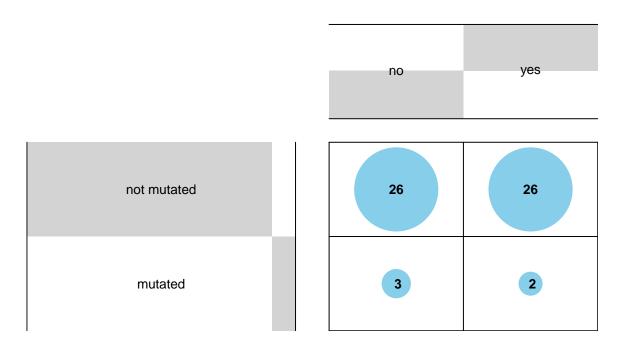
# **RB1 vs Stage**



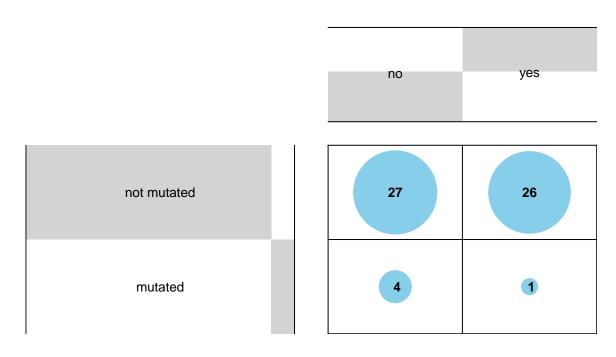
#### **RB1 vs Tumor Size**



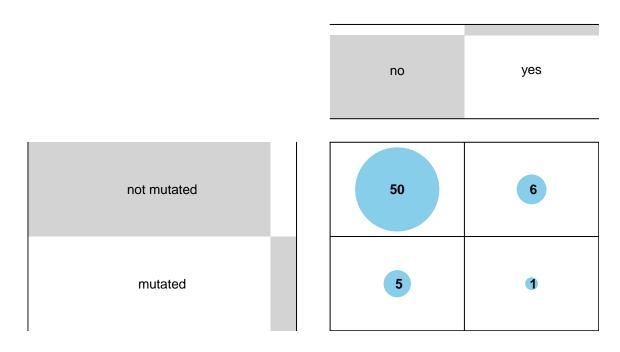
#### **RB1 vs Cirrhosis**



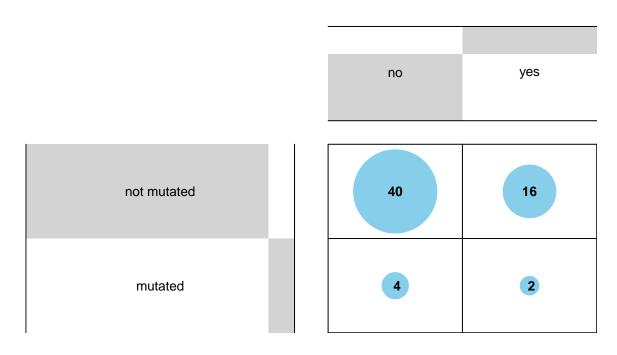
# **RB1 vs Obesity**



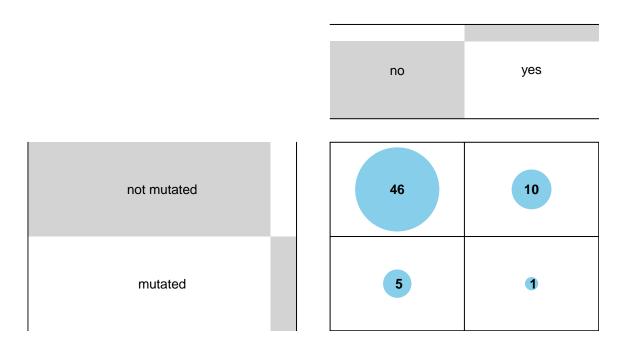
#### **RB1 vs Alcohol**



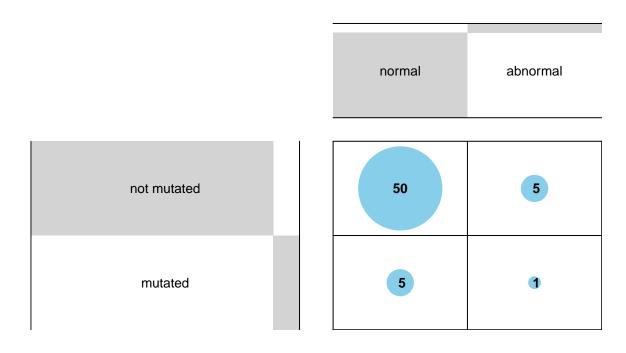
#### **RB1 vs Smoker**



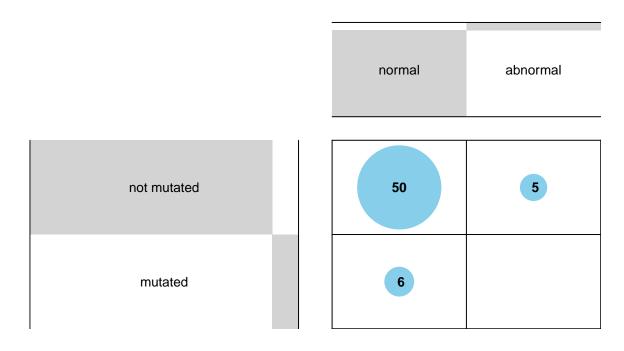
# **RB1 vs Fam Hx Liv C**



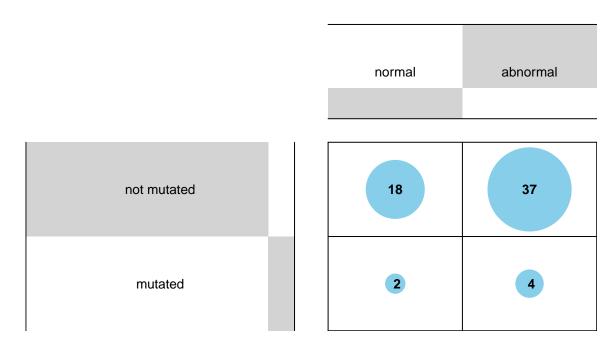
#### **RB1 vs Albumin**



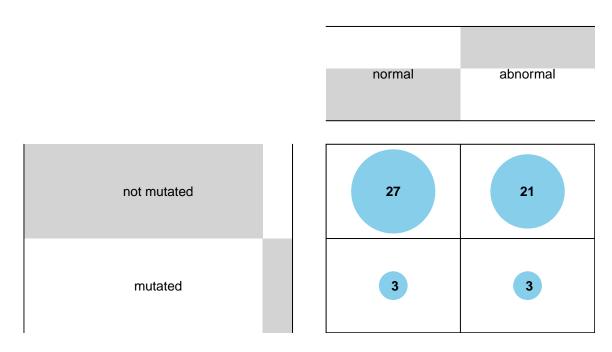
#### **RB1 vs Bilirubin**



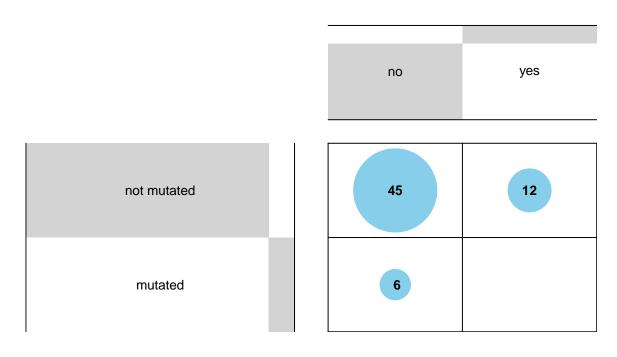
RB1 vs ALT
Fisher's exact test p-value = 1; odds ratio = 0.97



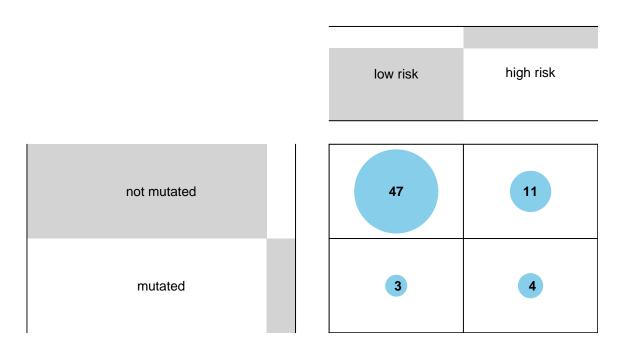
RB1 vs AFP
Fisher's exact test p-value = 1; odds ratio = 1.3

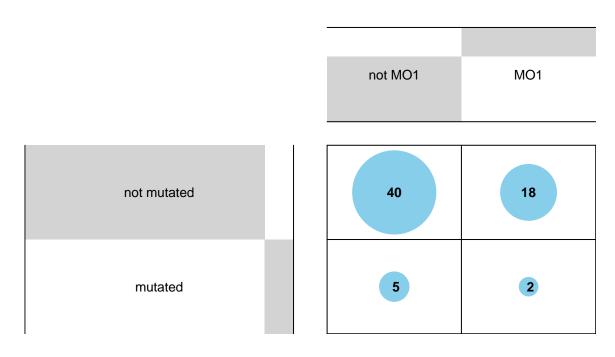


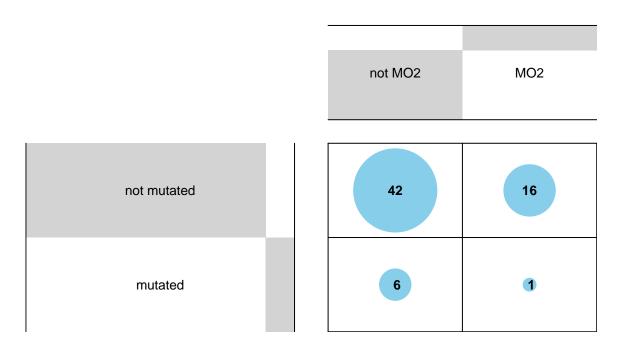
#### **RB1 vs Multinodular**

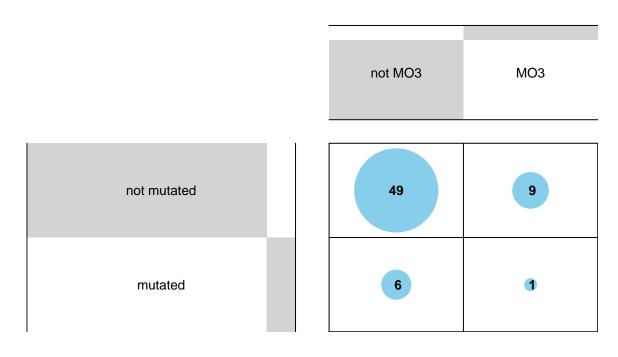


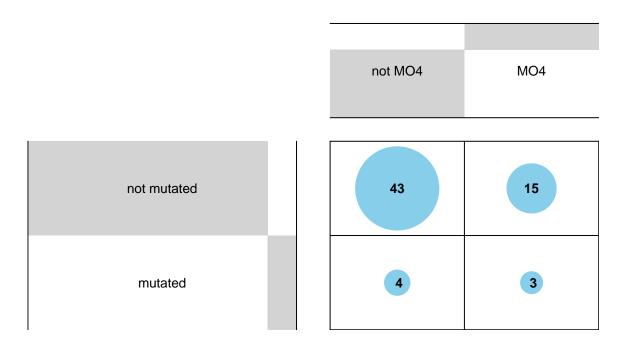
# **RB1 vs Risk Group**



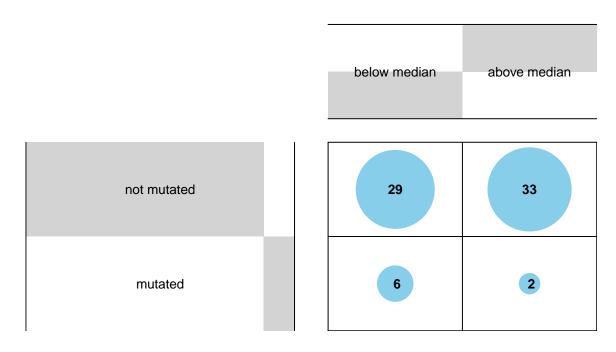




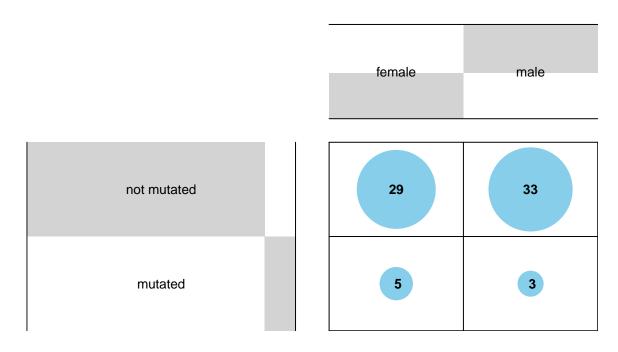




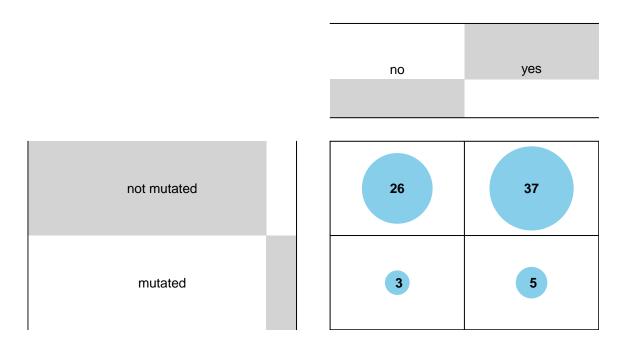
FKBP9 vs Age
Fisher's exact test p-value = 0.26 ; odds ratio = 0.3



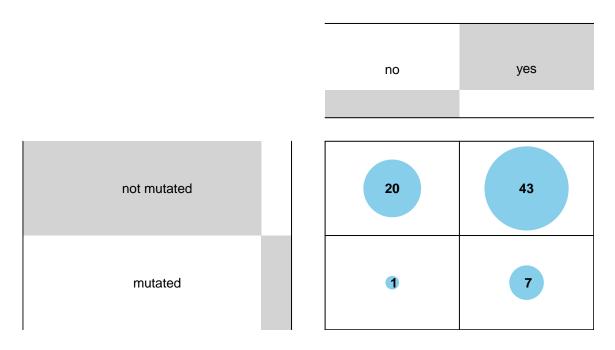
# FKBP9 vs Sex Fisher's exact test p-value = 0.47; odds ratio = 0.53



# FKBP9 vs HCV

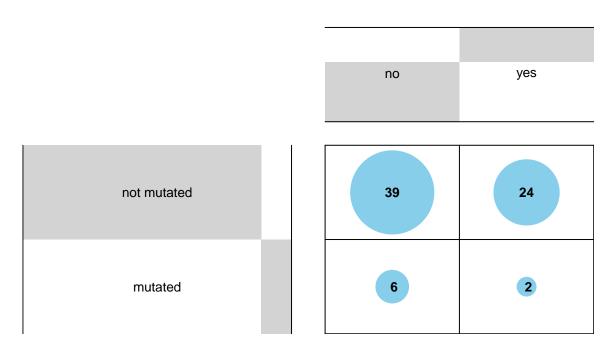


FKBP9 vs HBV
Fisher's exact test p-value = 0.42 ; odds ratio = 3.2



# FKBP9 vs HDV

Fisher's exact test p-value = 0.7; odds ratio = 0.55



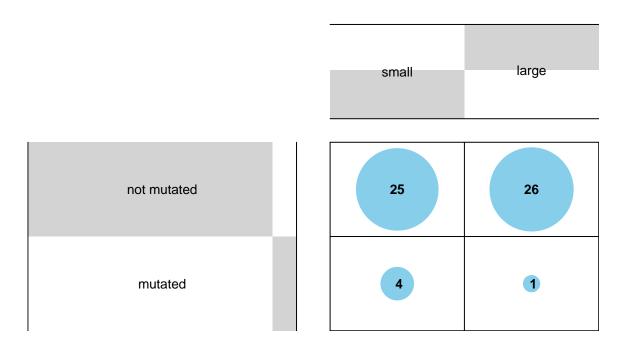
# **FKBP9 vs Stage**

Fisher's exact test p-value = 0.4; odds ratio = 3.7

	early	advanced
not mutated	18	29
mutated	1	6

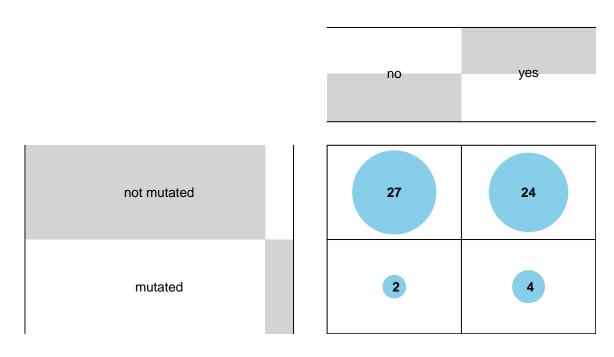
#### **FKBP9 vs Tumor Size**

Fisher's exact test p-value = 0.35; odds ratio = 0.25



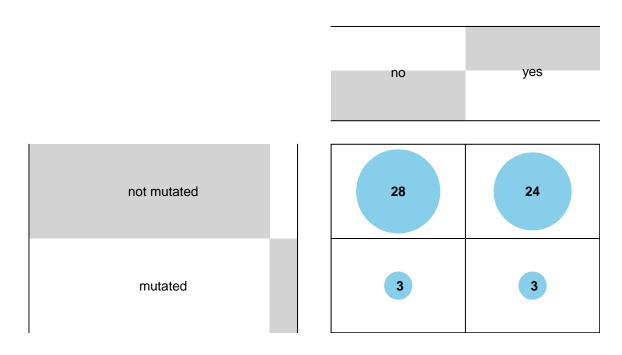
#### **FKBP9 vs Cirrhosis**

Fisher's exact test p-value = 0.42; odds ratio = 2.2



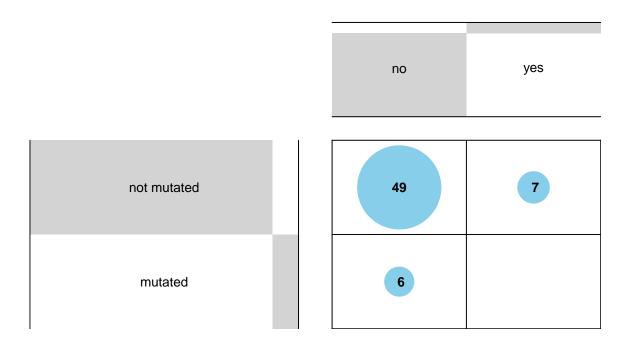
# **FKBP9 vs Obesity**

Fisher's exact test p-value = 1; odds ratio = 1.2



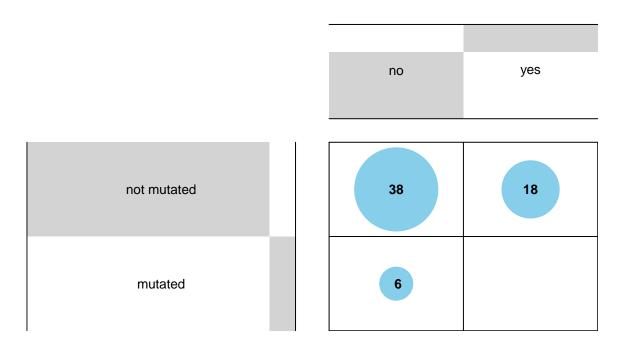
#### **FKBP9 vs Alcohol**

#### Fisher's exact test p-value = 1; odds ratio = 0



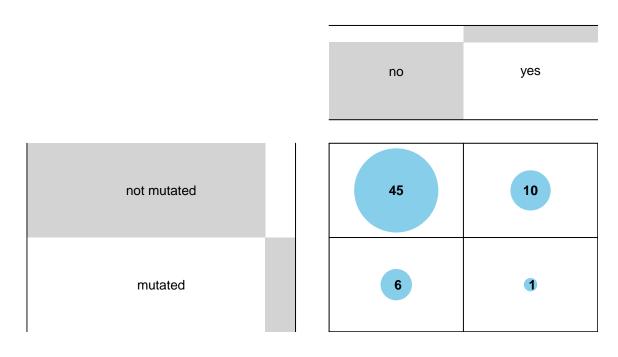
#### **FKBP9 vs Smoker**

## Fisher's exact test p-value = 0.17; odds ratio = 0



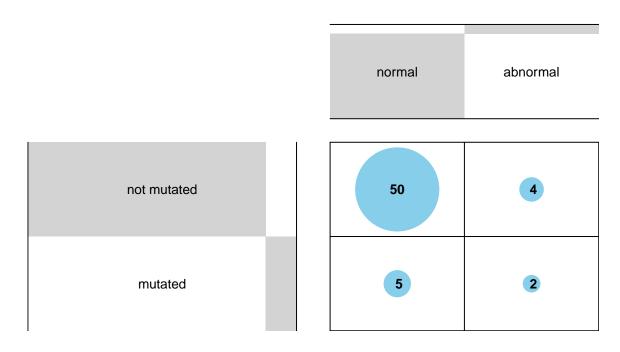
#### FKBP9 vs Fam Hx Liv C

## Fisher's exact test p-value = 1; odds ratio = 0.75



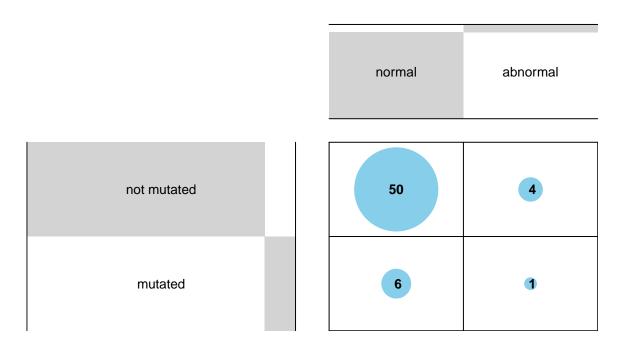
#### **FKBP9 vs Albumin**

Fisher's exact test p-value = 0.14; odds ratio = 4.8

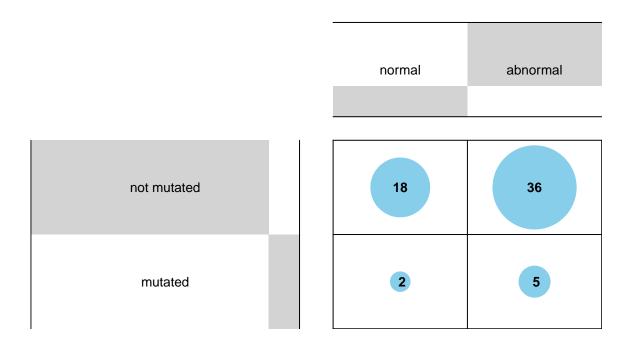


## **FKBP9** vs Bilirubin

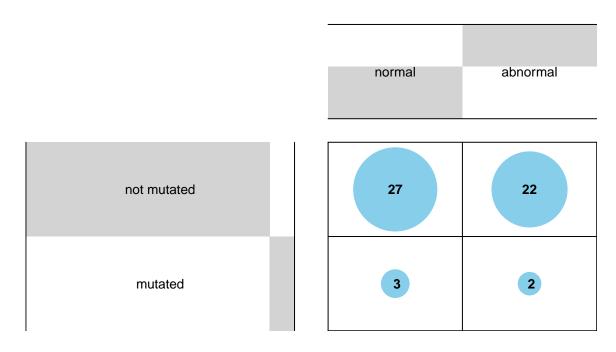
Fisher's exact test p-value = 0.47; odds ratio = 2.1



# FKBP9 vs ALT Fisher's exact test p-value = 1; odds ratio = 1.2

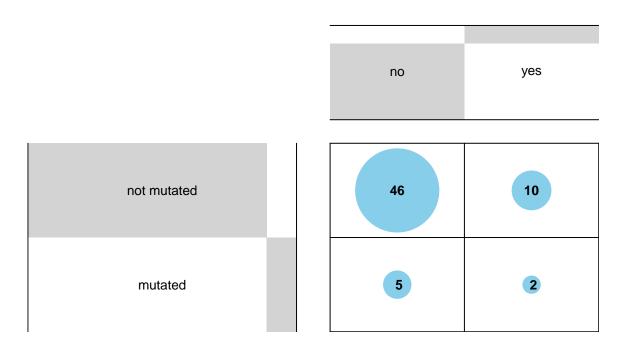


# FKBP9 vs AFP Fisher's exact test p-value = 1; odds ratio = 0.82



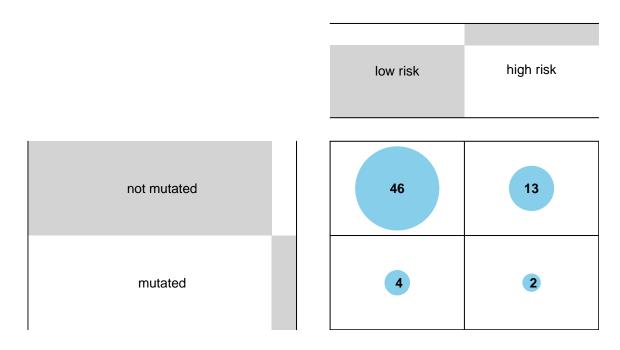
## **FKBP9** vs Multinodular

Fisher's exact test p-value = 0.61; odds ratio = 1.8

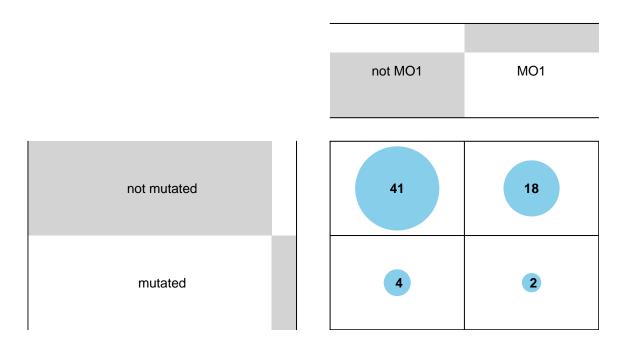


## **FKBP9 vs Risk Group**

Fisher's exact test p-value = 0.62; odds ratio = 1.8



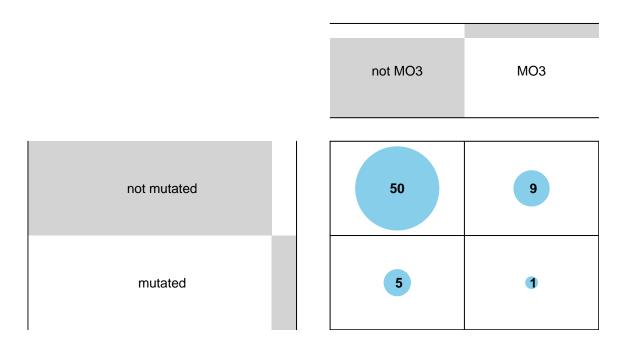
#### Fisher's exact test p-value = 1; odds ratio = 1.1



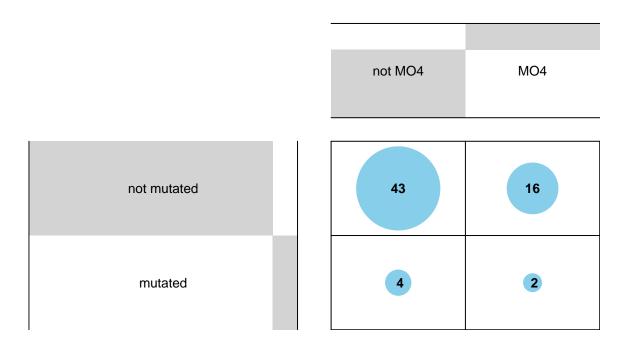
#### Fisher's exact test p-value = 1; odds ratio = 0.54



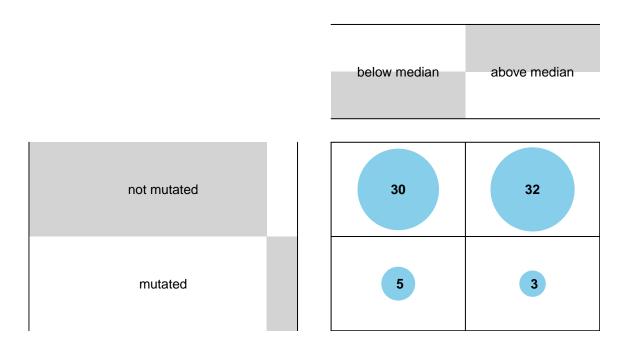
#### Fisher's exact test p-value = 1; odds ratio = 1.1



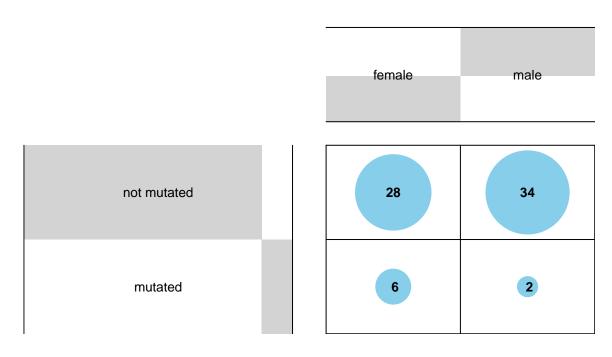
Fisher's exact test p-value = 0.67; odds ratio = 1.3



# LRP1B vs Age Fisher's exact test p-value = 0.71; odds ratio = 0.57

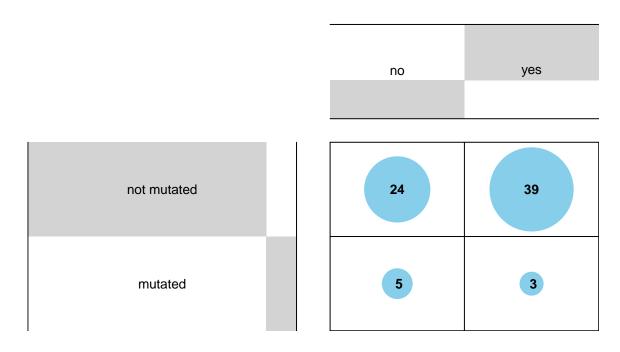


# LRP1B vs Sex Fisher's exact test p-value = 0.15; odds ratio = 0.28



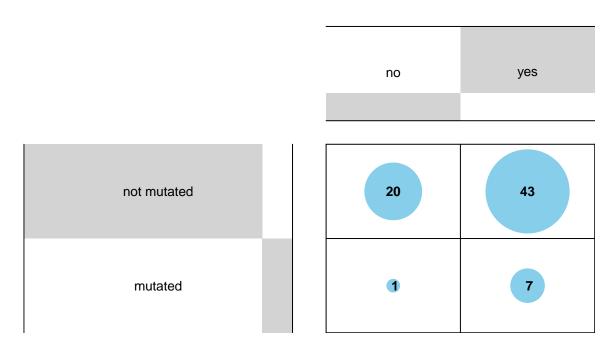
#### LRP1B vs HCV

Fisher's exact test p-value = 0.26; odds ratio = 0.37



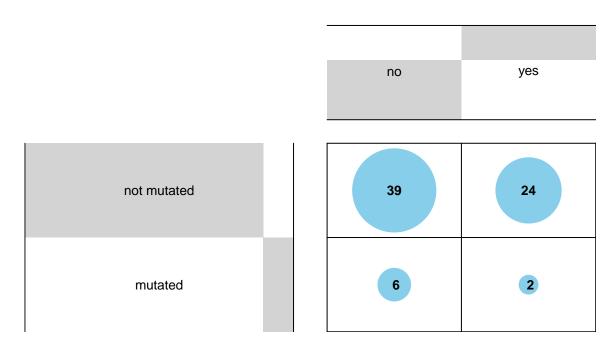
# LRP1B vs HBV

Fisher's exact test p-value = 0.42; odds ratio = 3.2



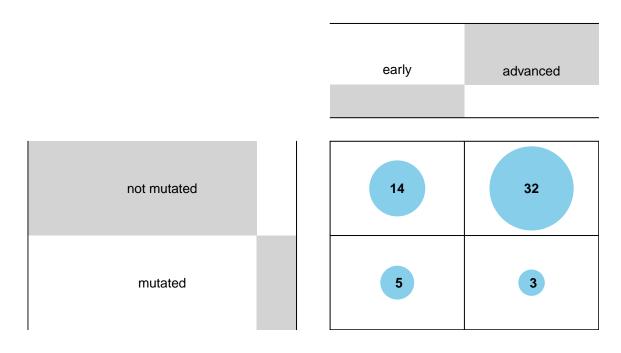
#### LRP1B vs HDV

Fisher's exact test p-value = 0.7; odds ratio = 0.55



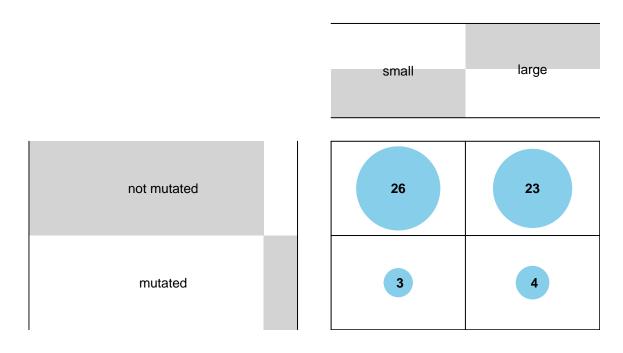
# LRP1B vs Stage

Fisher's exact test p-value = 0.11; odds ratio = 0.27



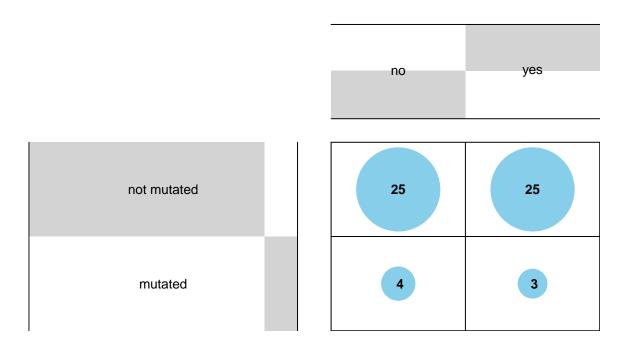
#### **LRP1B vs Tumor Size**

## Fisher's exact test p-value = 0.7; odds ratio = 1.5



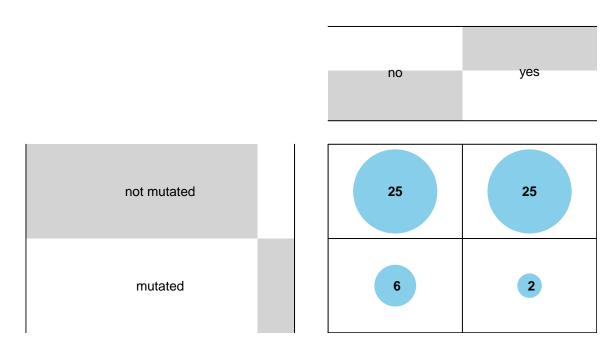
#### **LRP1B vs Cirrhosis**

## Fisher's exact test p-value = 1; odds ratio = 0.75



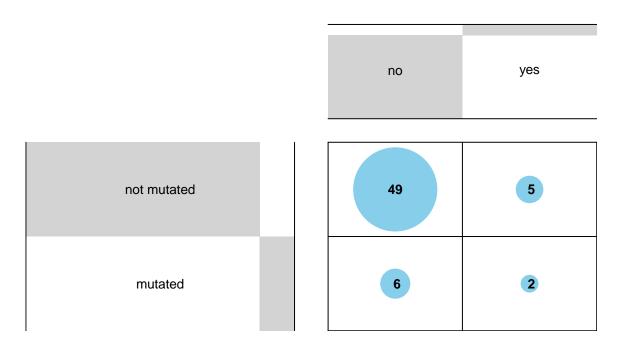
# **LRP1B** vs Obesity

Fisher's exact test p-value = 0.26; odds ratio = 0.34



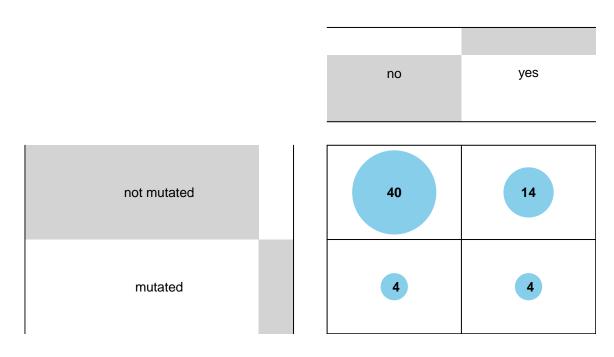
#### **LRP1B vs Alcohol**

#### Fisher's exact test p-value = 0.22; odds ratio = 3.2



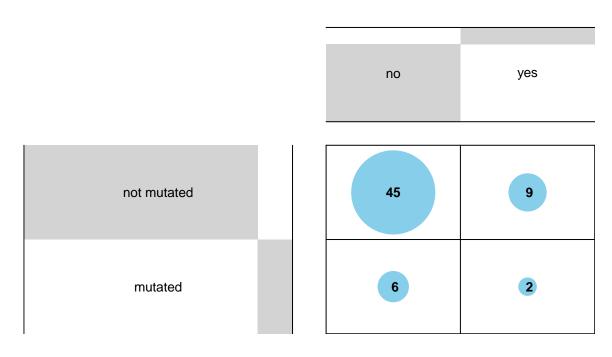
#### **LRP1B vs Smoker**

Fisher's exact test p-value = 0.21; odds ratio = 2.8



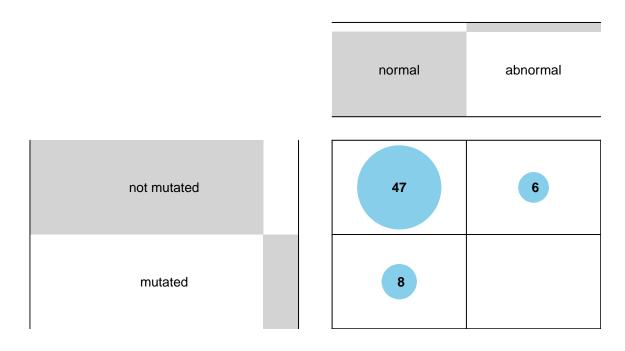
#### LRP1B vs Fam Hx Liv C

Fisher's exact test p-value = 0.62; odds ratio = 1.7



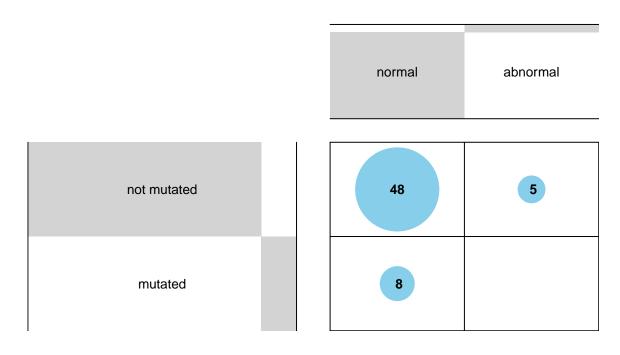
## **LRP1B** vs Albumin

#### Fisher's exact test p-value = 1; odds ratio = 0

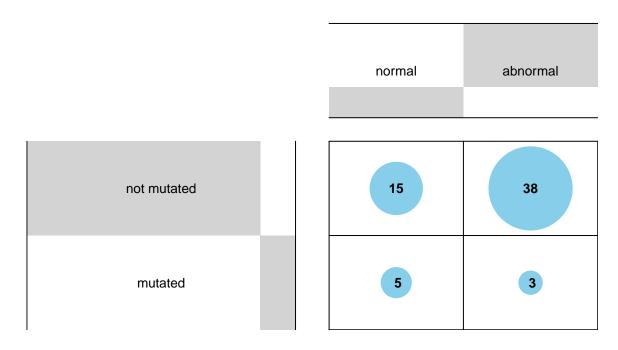


#### **LRP1B** vs Bilirubin

#### Fisher's exact test p-value = 1; odds ratio = 0

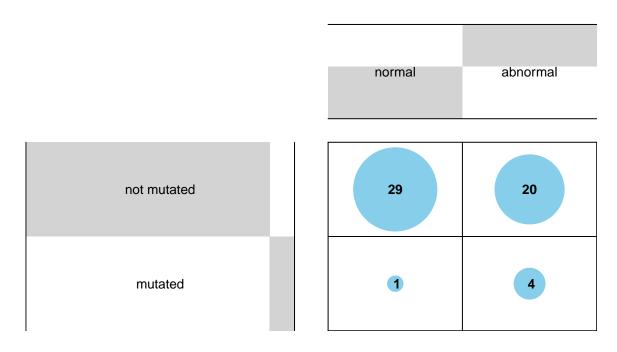


# LRP1B vs ALT Fisher's exact test p-value = 0.1 ; odds ratio = 0.24



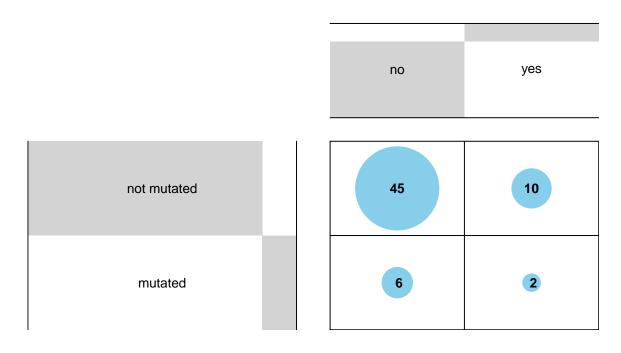
# LRP1B vs AFP

Fisher's exact test p-value = 0.16; odds ratio = 5.6



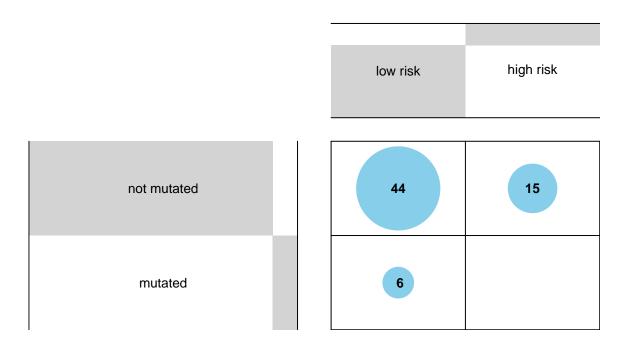
#### **LRP1B** vs Multinodular

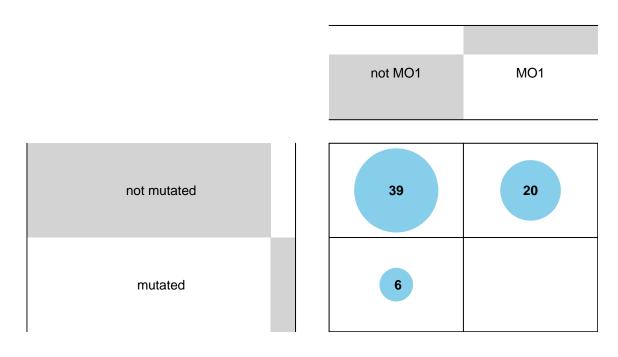
#### Fisher's exact test p-value = 0.64; odds ratio = 1.5

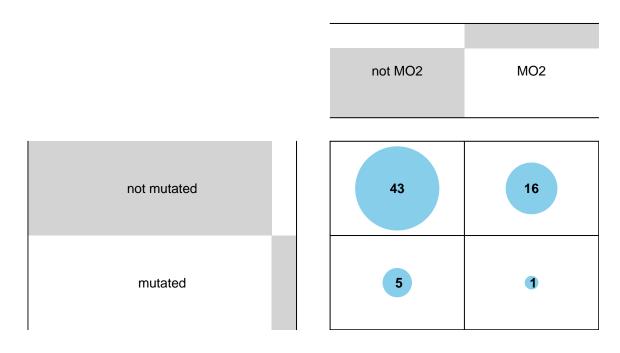


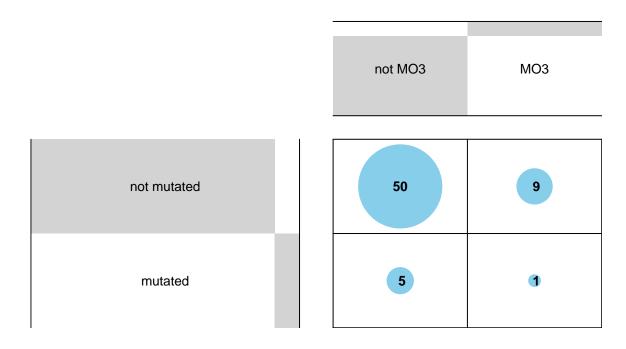
# **LRP1B vs Risk Group**

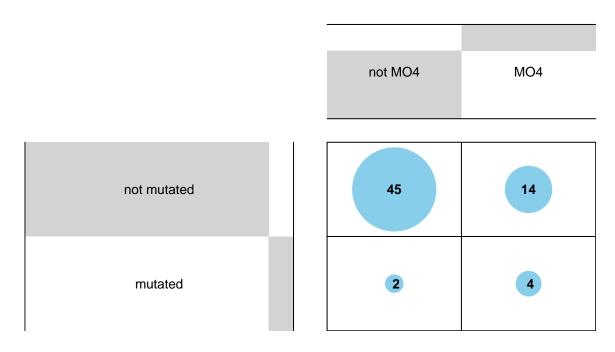
Fisher's exact test p-value = 0.32; odds ratio = 0



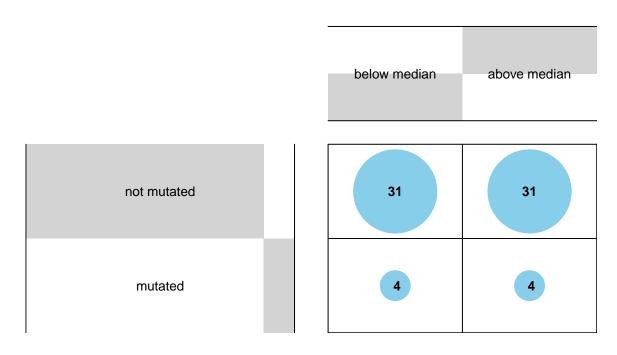




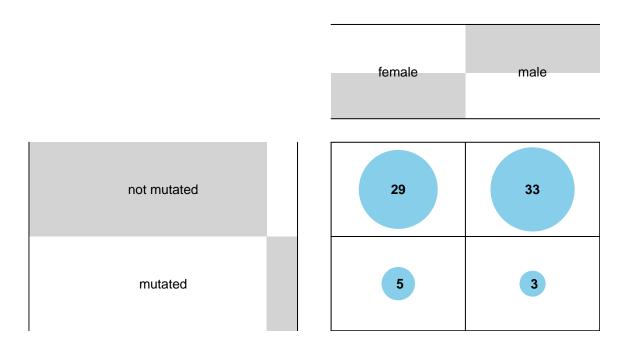




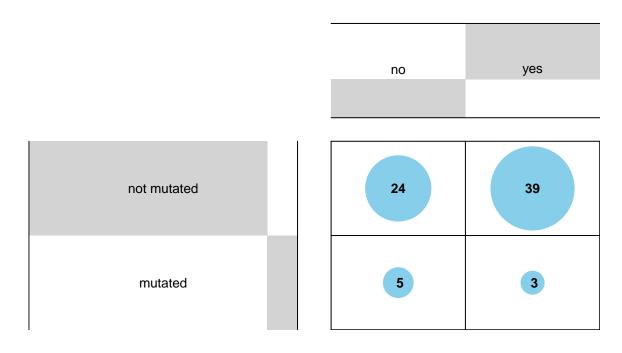
# DYNC2H1 vs Age



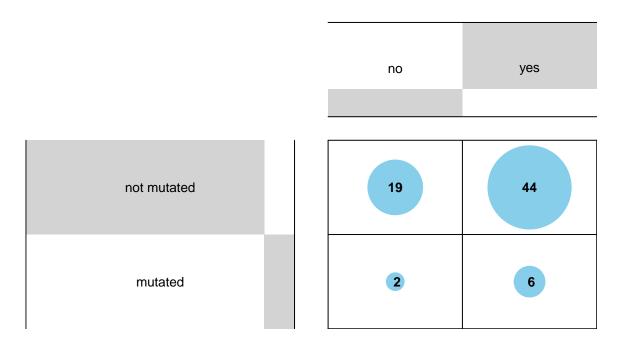
#### DYNC2H1 vs Sex



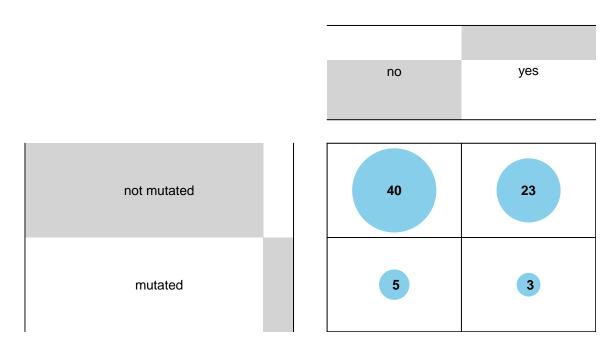
#### DYNC2H1 vs HCV



#### DYNC2H1 vs HBV

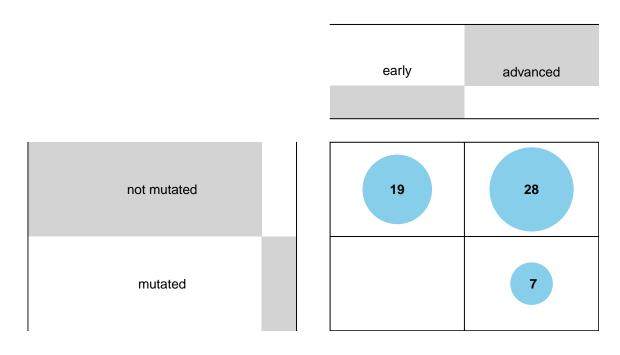


#### DYNC2H1 vs HDV

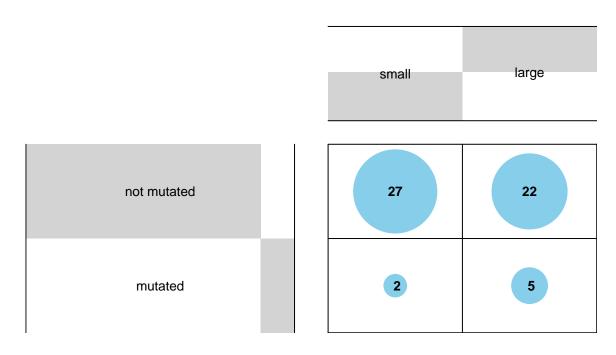


# DYNC2H1 vs Stage

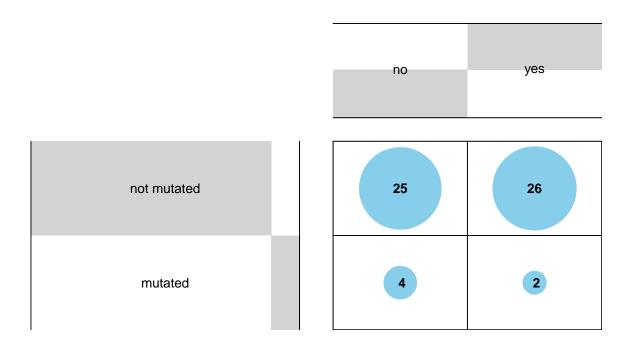
#### Fisher's exact test p-value = 0.044; odds ratio = Inf



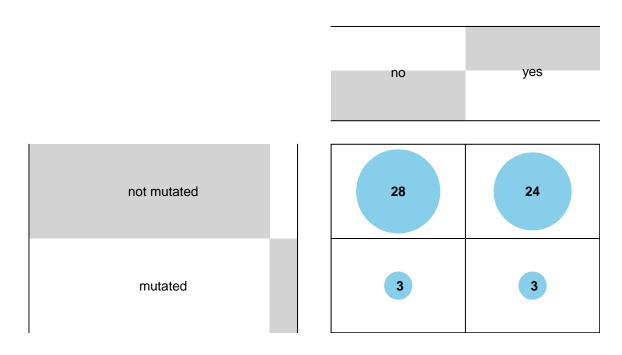
# **DYNC2H1 vs Tumor Size**



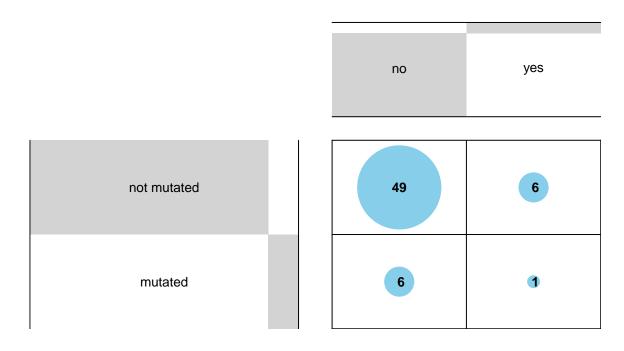
# **DYNC2H1 vs Cirrhosis**



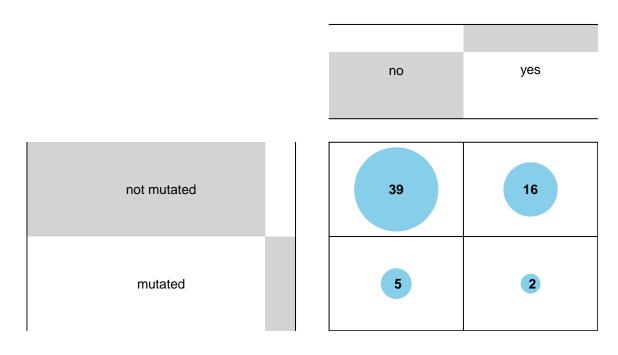
# **DYNC2H1 vs Obesity**



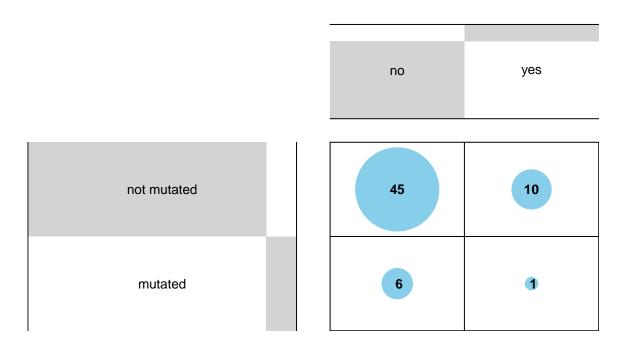
#### DYNC2H1 vs Alcohol



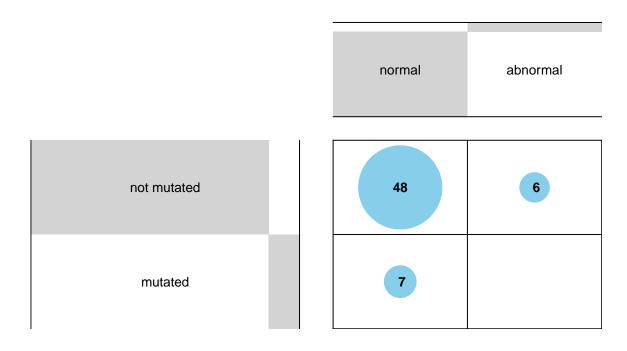
#### DYNC2H1 vs Smoker



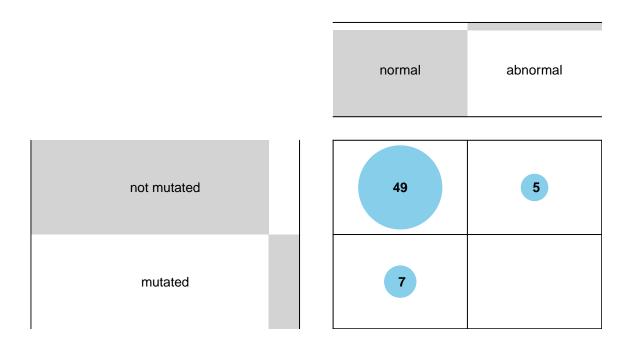
# DYNC2H1 vs Fam Hx Liv C



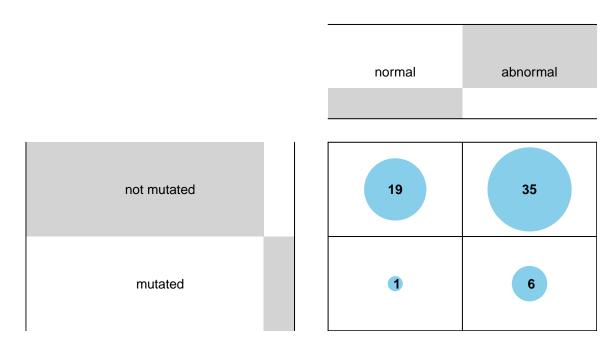
# **DYNC2H1 vs Albumin**



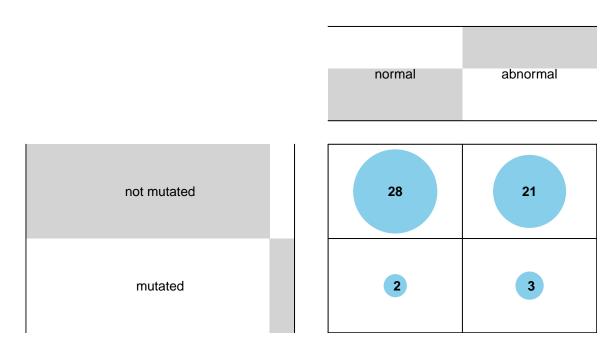
# **DYNC2H1 vs Bilirubin**



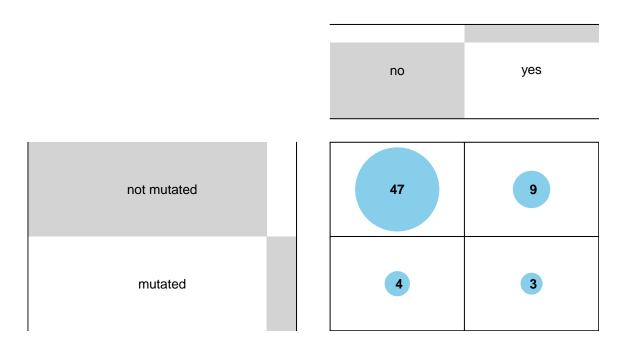
# DYNC2H1 vs ALT



#### DYNC2H1 vs AFP

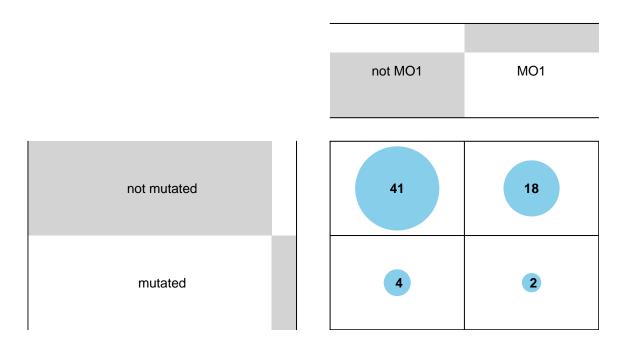


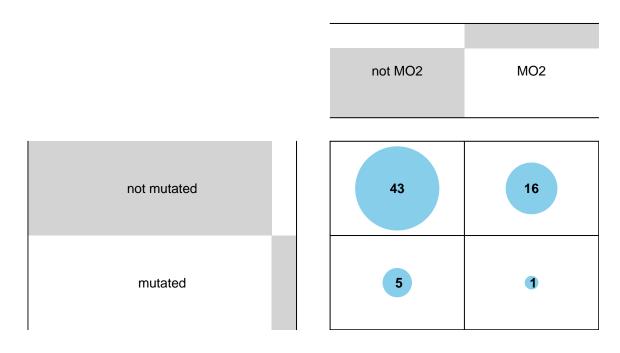
# **DYNC2H1 vs Multinodular**

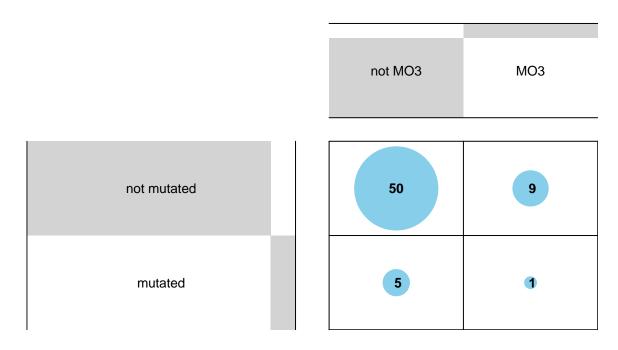


# **DYNC2H1 vs Risk Group**

	low risk	high risk
not mutated	46	13
mutated	4	2

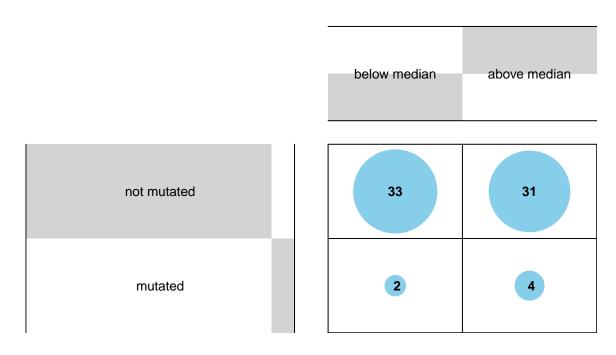




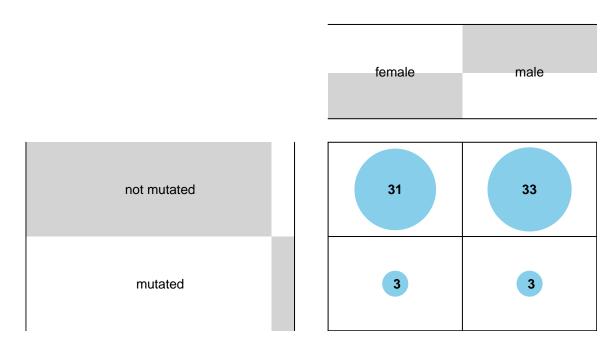


	not MO4	MO4
not mutated	43	16
mutated	4	2

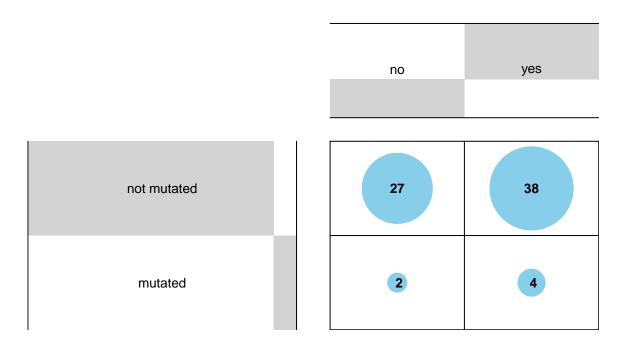
# PNRC2 vs Age



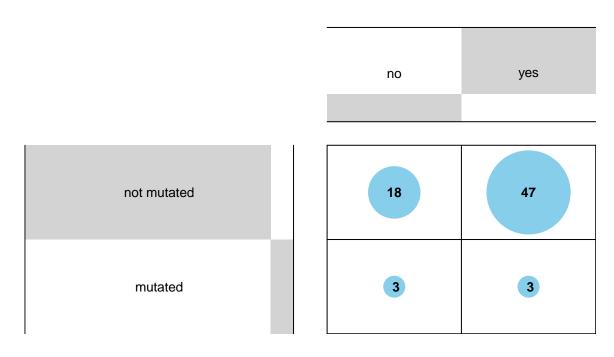
# PNRC2 vs Sex



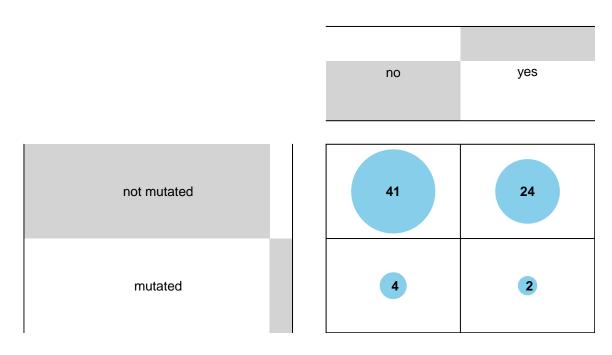
#### **PNRC2 vs HCV**



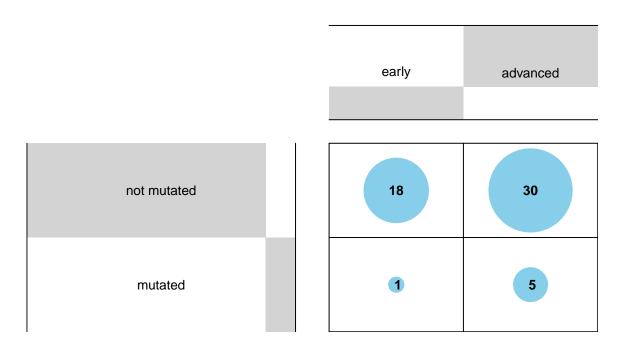
#### **PNRC2 vs HBV**



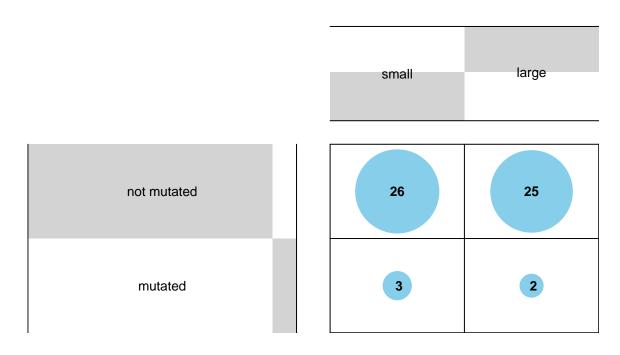
#### **PNRC2 vs HDV**



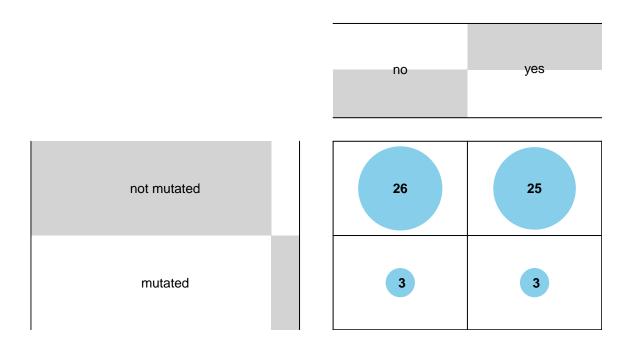
# **PNRC2 vs Stage**



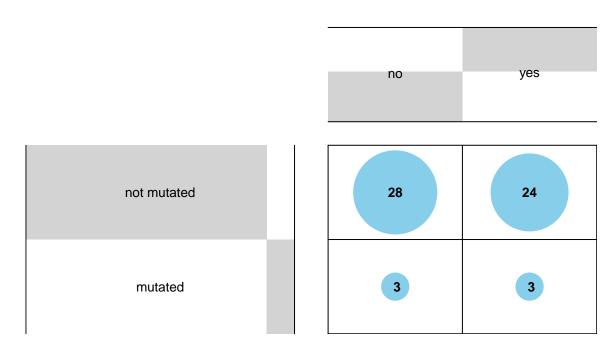
# **PNRC2 vs Tumor Size**



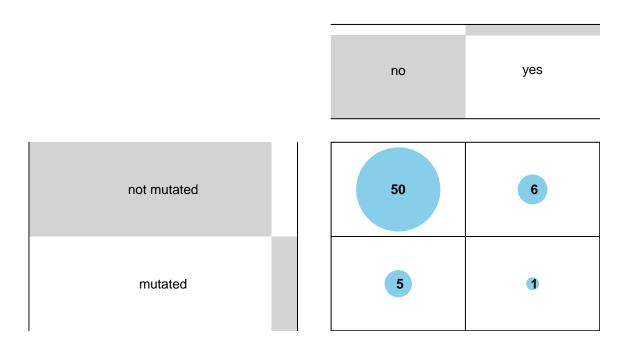
#### **PNRC2 vs Cirrhosis**



# **PNRC2** vs Obesity

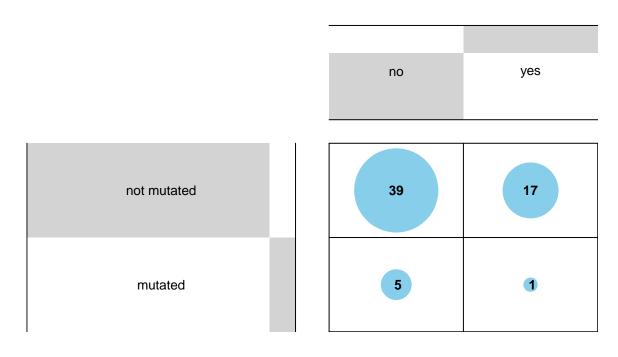


#### **PNRC2 vs Alcohol**



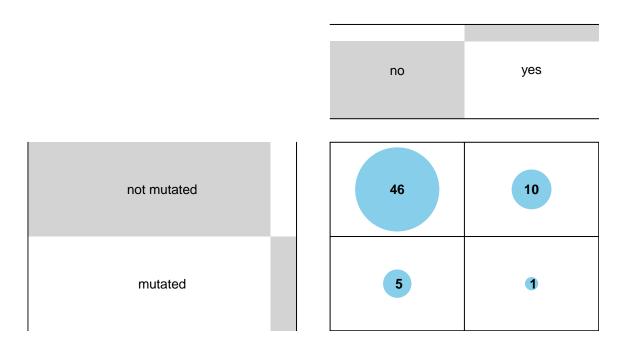
# **PNRC2 vs Smoker**

Fisher's exact test p-value = 0.66; odds ratio = 0.46



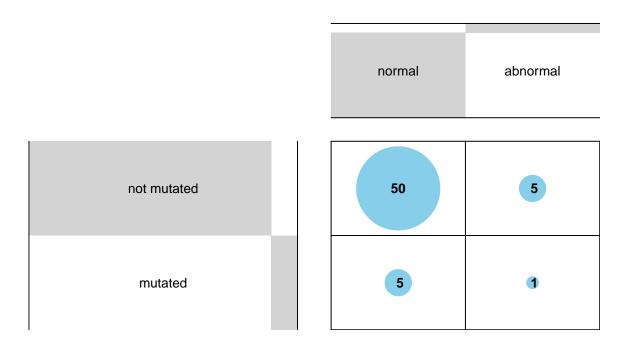
# PNRC2 vs Fam Hx Liv C

# Fisher's exact test p-value = 1; odds ratio = 0.92



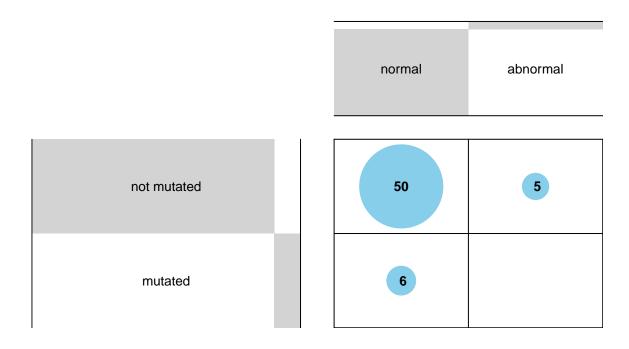
# **PNRC2** vs Albumin

Fisher's exact test p-value = 0.48; odds ratio = 2

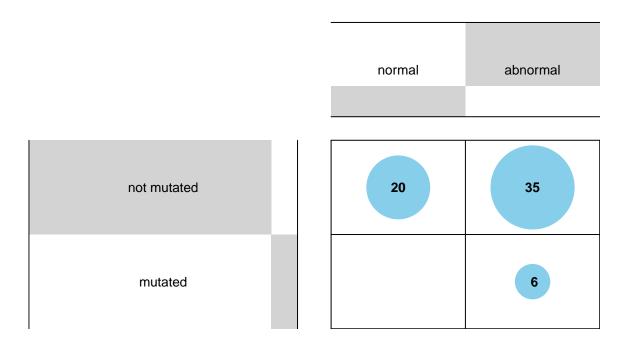


# **PNRC2** vs Bilirubin

# Fisher's exact test p-value = 1; odds ratio = 0

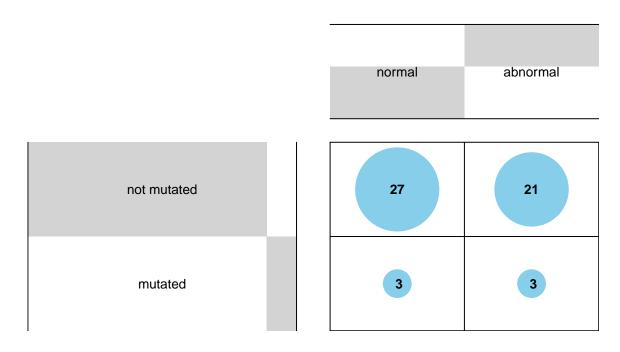


PNRC2 vs ALT
Fisher's exact test p-value = 0.16; odds ratio = Inf



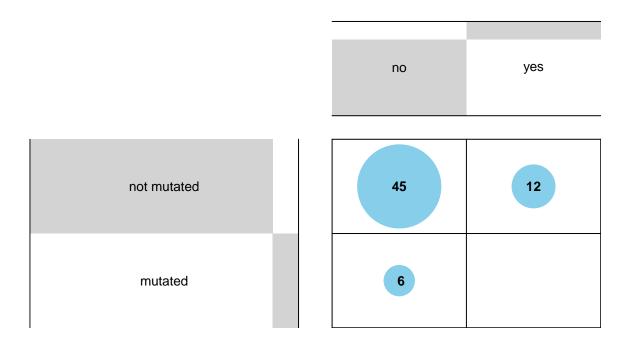
# PNRC2 vs AFP

# Fisher's exact test p-value = 1; odds ratio = 1.3



# **PNRC2 vs Multinodular**

# Fisher's exact test p-value = 0.59; odds ratio = 0

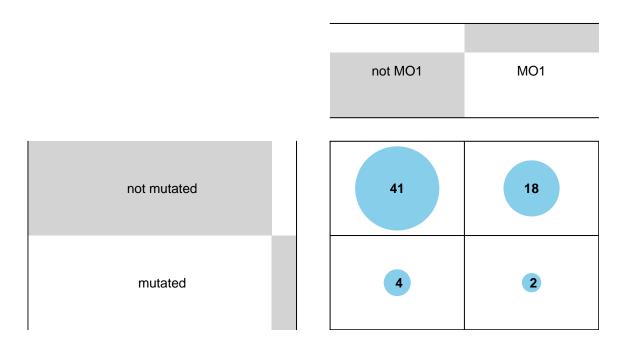


# **PNRC2 vs Risk Group**

Fisher's exact test p-value = 0.13; odds ratio = 3.8

	low risk	high risk
not mutated	47	12
mutated	3	3

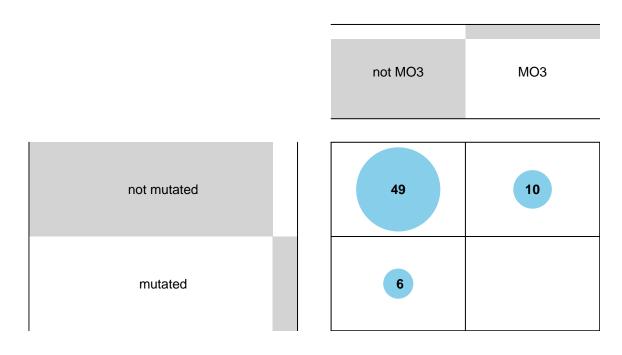
# Fisher's exact test p-value = 1; odds ratio = 1.1



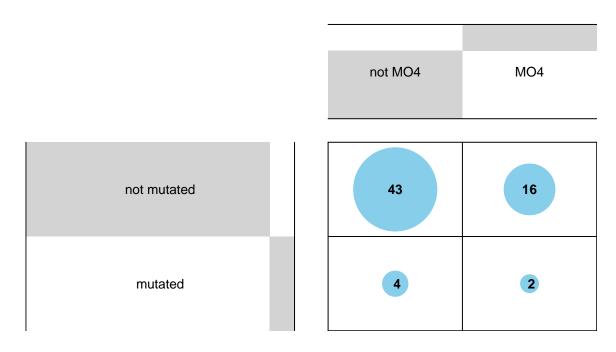
Fisher's exact test p-value = 0.65; odds ratio = 1.5

	not MO2	MO2
not mutated	44	15
mutated	4	2

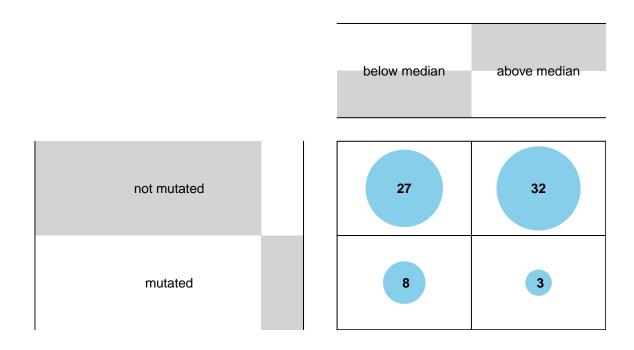
Fisher's exact test p-value = 0.58; odds ratio = 0



Fisher's exact test p-value = 0.67; odds ratio = 1.3

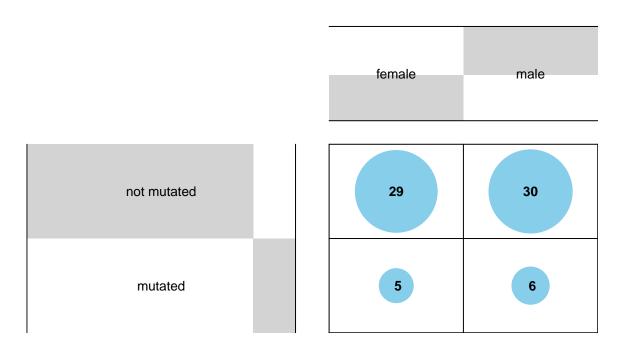


# PCLO vs Age Fisher's exact test p-value = 0.19; odds ratio = 0.32

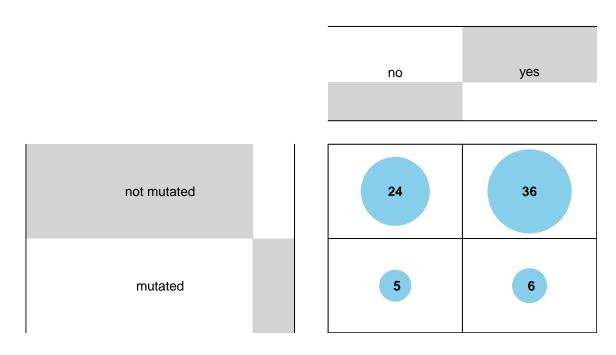


# **PCLO vs Sex**

# Fisher's exact test p-value = 1; odds ratio = 1.2

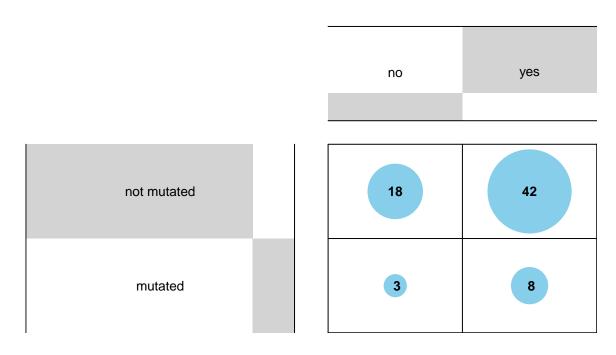


# PCLO vs HCV Fisher's exact test p-value = 0.75 ; odds ratio = 0.8

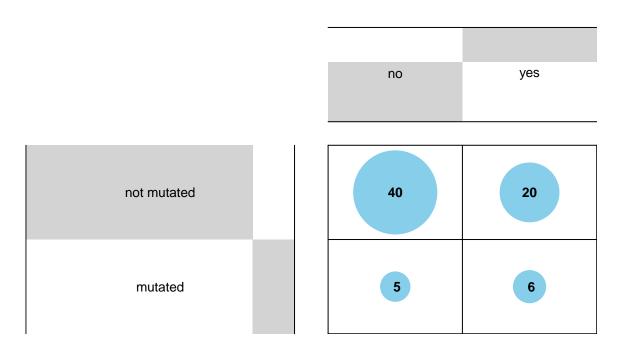


# PCLO vs HBV

# Fisher's exact test p-value = 1; odds ratio = 1.1

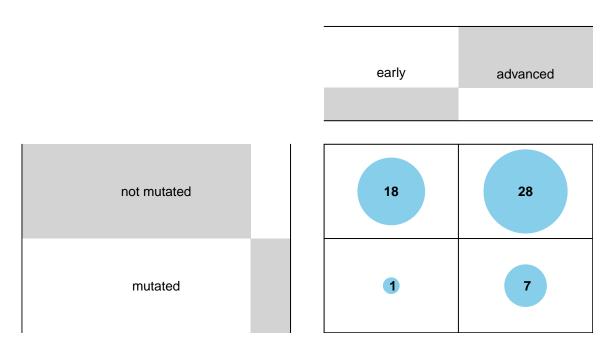


# PCLO vs HDV Fisher's exact test p-value = 0.19 ; odds ratio = 2.4



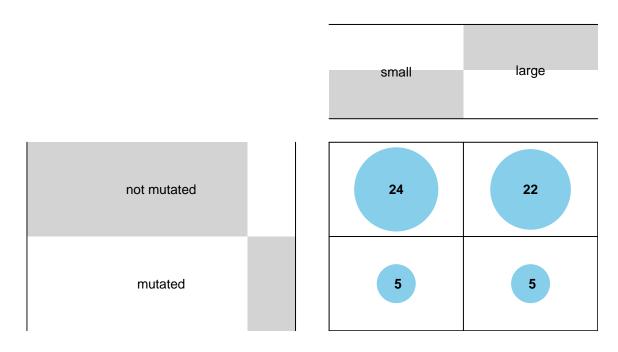
# PCLO vs Stage

Fisher's exact test p-value = 0.24; odds ratio = 4.4



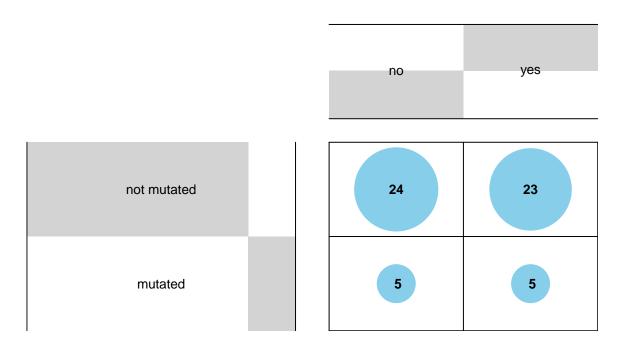
# **PCLO vs Tumor Size**

Fisher's exact test p-value = 1; odds ratio = 1.1



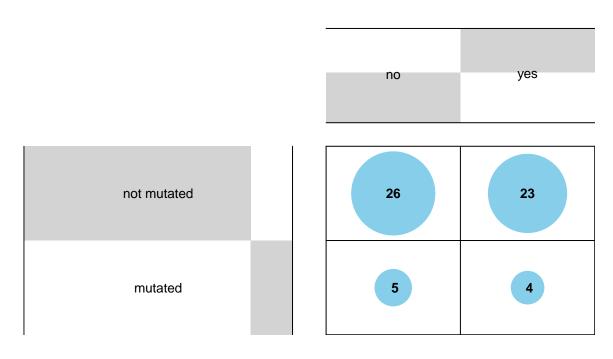
# **PCLO vs Cirrhosis**

# Fisher's exact test p-value = 1; odds ratio = 1



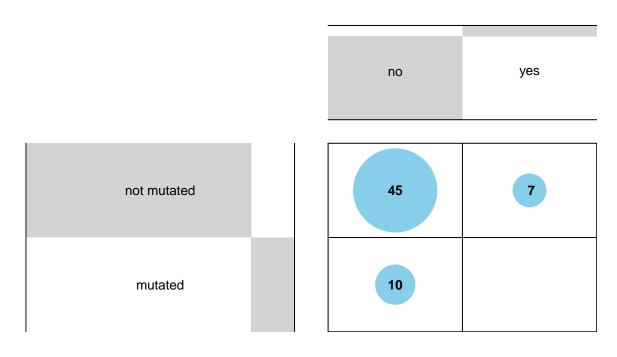
# **PCLO vs Obesity**

Fisher's exact test p-value = 1; odds ratio = 0.91



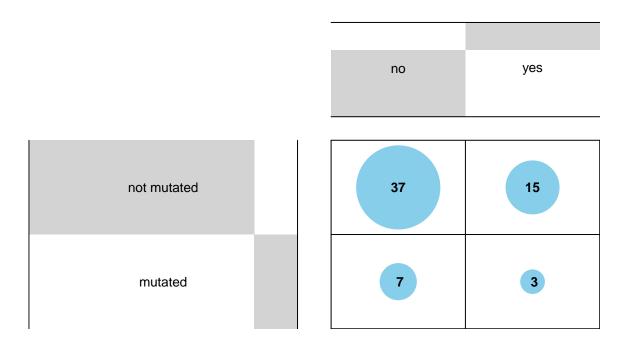
# **PCLO vs Alcohol**

# Fisher's exact test p-value = 0.59; odds ratio = 0



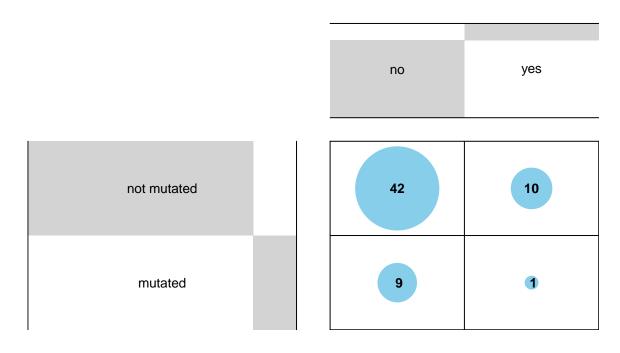
# **PCLO vs Smoker**

# Fisher's exact test p-value = 1; odds ratio = 1.1



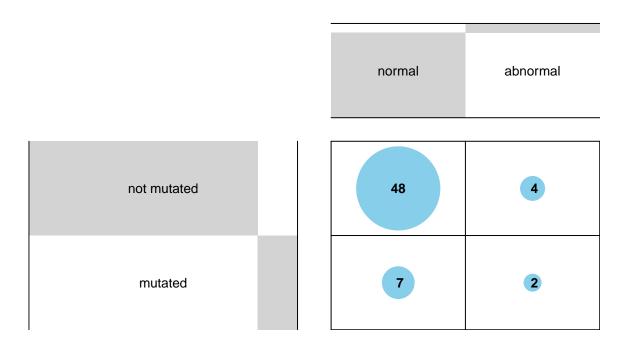
# **PCLO vs Fam Hx Liv C**

Fisher's exact test p-value = 0.67; odds ratio = 0.47



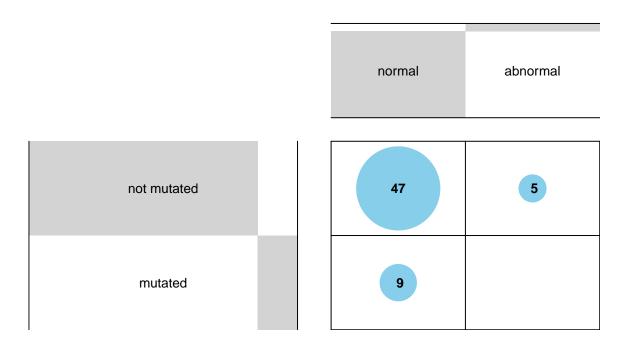
# **PCLO vs Albumin**

Fisher's exact test p-value = 0.21; odds ratio = 3.3

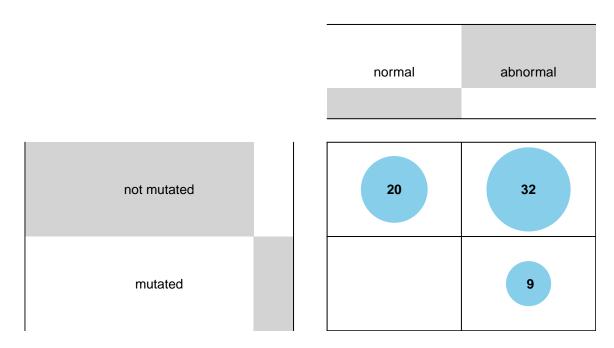


# **PCLO vs Bilirubin**

# Fisher's exact test p-value = 1; odds ratio = 0

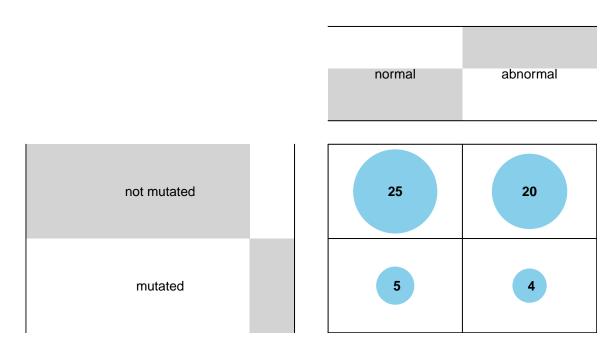


PCLO vs ALT
Fisher's exact test p-value = 0.024; odds ratio = Inf



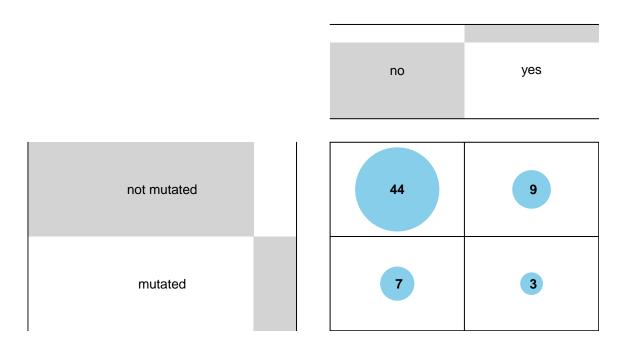
# PCLO vs AFP

# Fisher's exact test p-value = 1; odds ratio = 1



# **PCLO vs Multinodular**

Fisher's exact test p-value = 0.39; odds ratio = 2.1

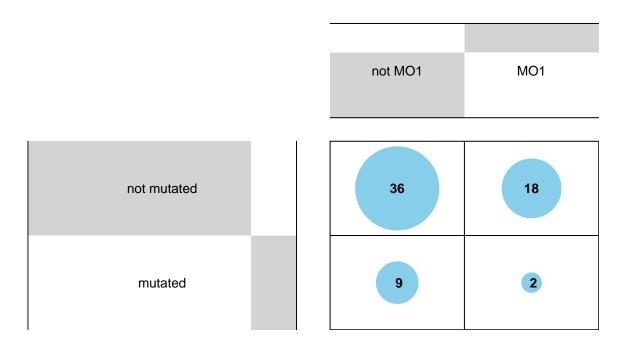


# **PCLO vs Risk Group**

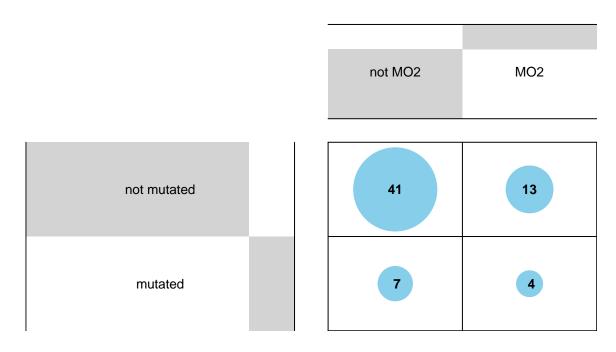
Fisher's exact test p-value = 0.11; odds ratio = 3.6

	low risk	high risk
not mutated	44	10
mutated	6	5

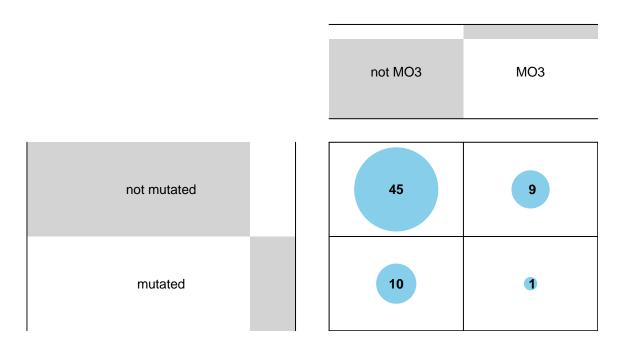
Fisher's exact test p-value = 0.48; odds ratio = 0.45



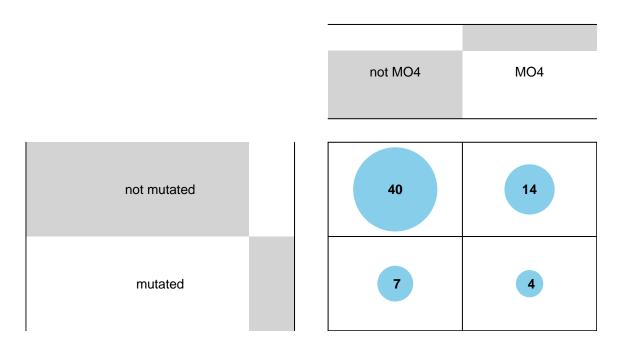
# Fisher's exact test p-value = 0.46; odds ratio = 1.8



# Fisher's exact test p-value = 1; odds ratio = 0.5

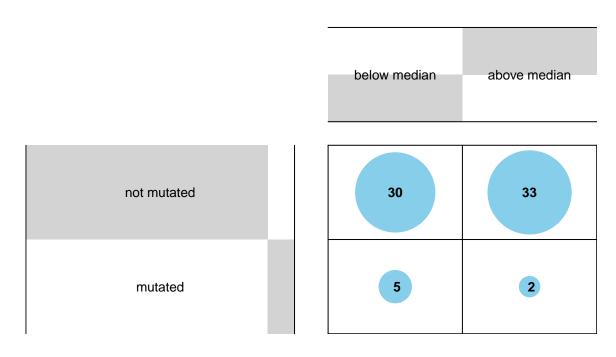


# Fisher's exact test p-value = 0.48; odds ratio = 1.6



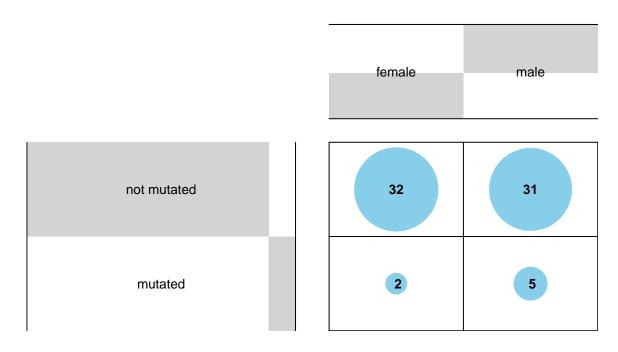
# COL11A1 vs Age

Fisher's exact test p-value = 0.43; odds ratio = 0.37



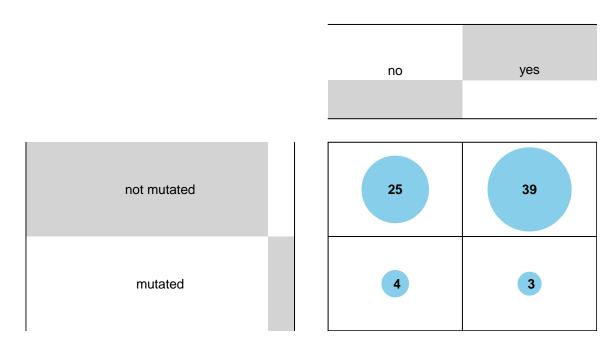
# **COL11A1 vs Sex**

Fisher's exact test p-value = 0.43; odds ratio = 2.5



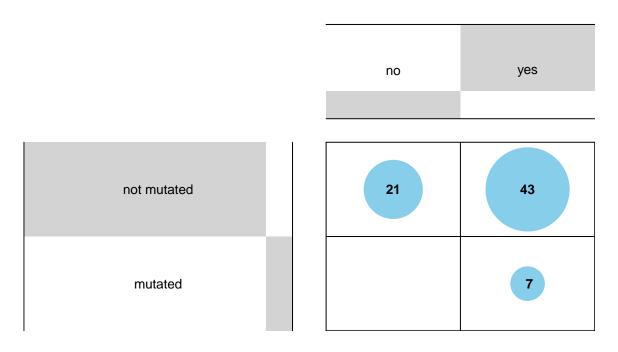
## COL11A1 vs HCV

Fisher's exact test p-value = 0.43; odds ratio = 0.49



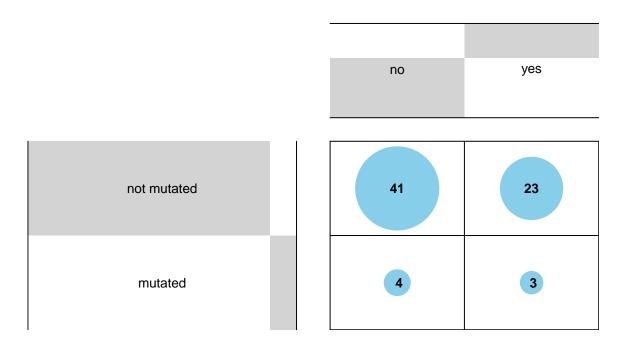
# **COL11A1 vs HBV**

## Fisher's exact test p-value = 0.096; odds ratio = Inf



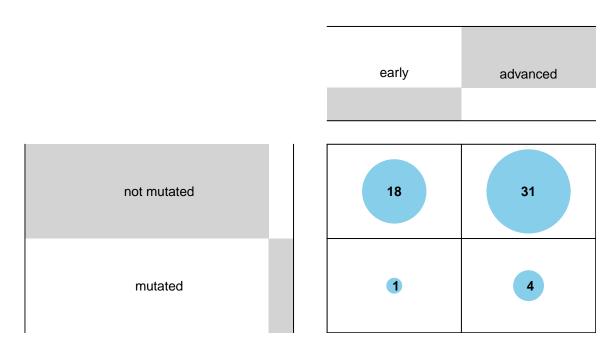
## COL11A1 vs HDV

# Fisher's exact test p-value = 0.7; odds ratio = 1.3



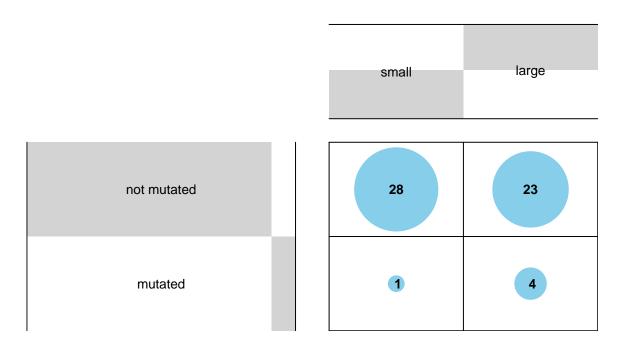
# **COL11A1 vs Stage**

Fisher's exact test p-value = 0.65; odds ratio = 2.3



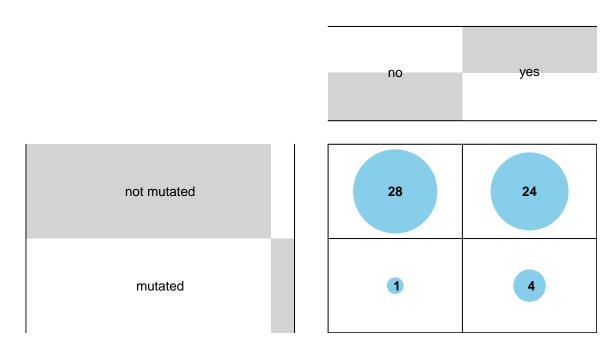
# **COL11A1 vs Tumor Size**

Fisher's exact test p-value = 0.19; odds ratio = 4.7



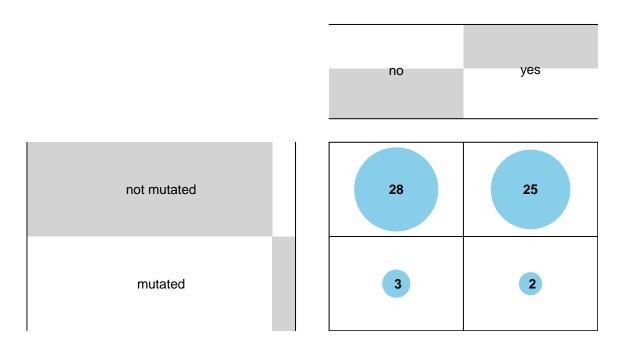
## **COL11A1 vs Cirrhosis**

Fisher's exact test p-value = 0.19; odds ratio = 4.6



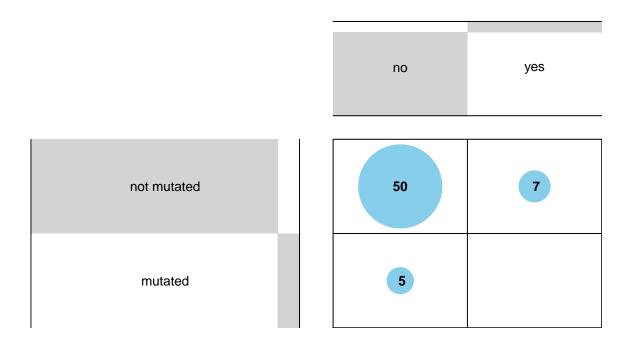
# **COL11A1** vs Obesity

# Fisher's exact test p-value = 1; odds ratio = 0.75



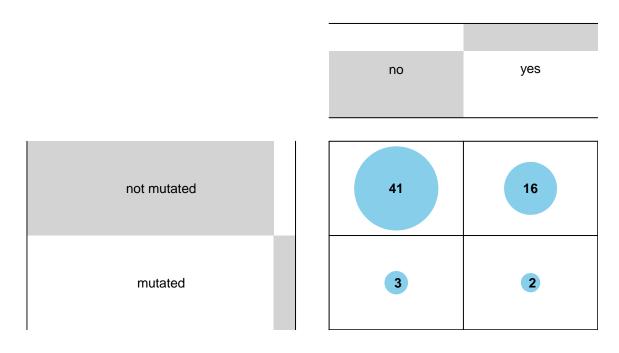
## **COL11A1 vs Alcohol**

# Fisher's exact test p-value = 1; odds ratio = 0



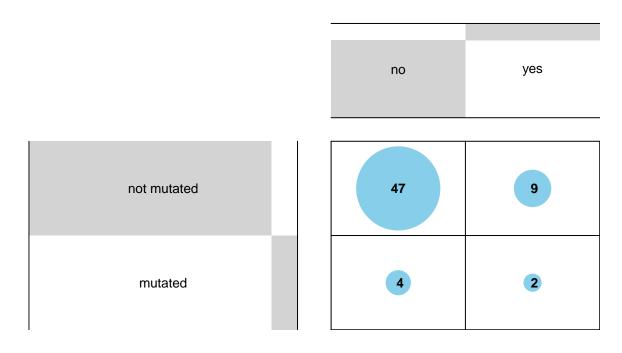
## COL11A1 vs Smoker

# Fisher's exact test p-value = 0.62; odds ratio = 1.7



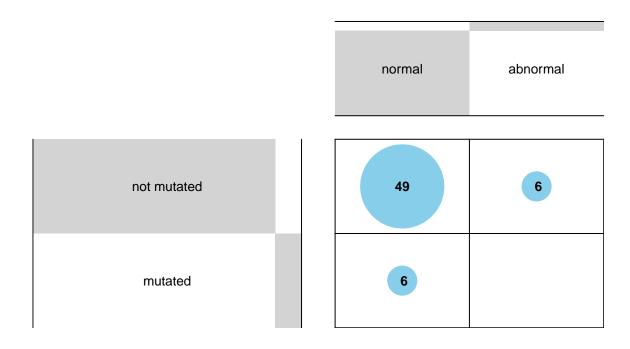
# COL11A1 vs Fam Hx Liv C

Fisher's exact test p-value = 0.29; odds ratio = 2.6



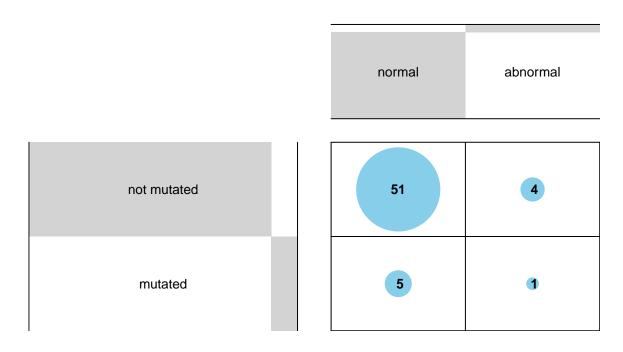
## **COL11A1 vs Albumin**

## Fisher's exact test p-value = 1; odds ratio = 0



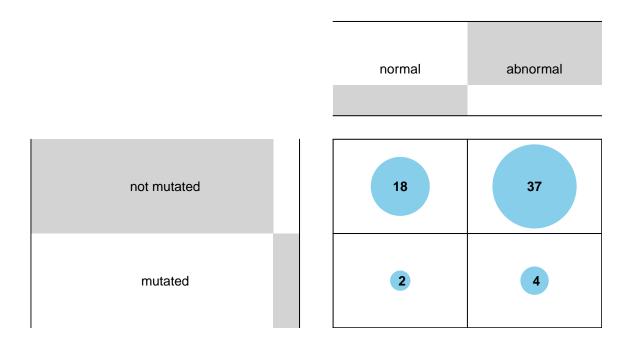
# **COL11A1 vs Bilirubin**

Fisher's exact test p-value = 0.42; odds ratio = 2.5



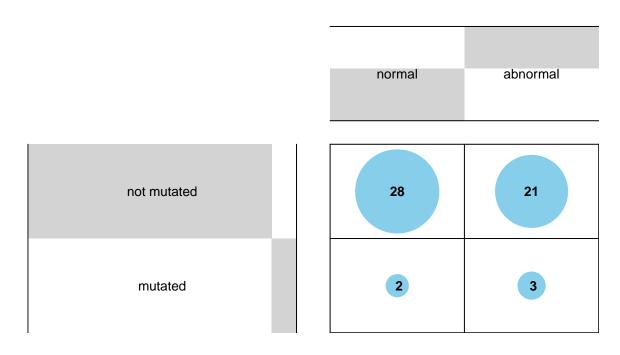
## **COL11A1 vs ALT**

## Fisher's exact test p-value = 1; odds ratio = 0.97



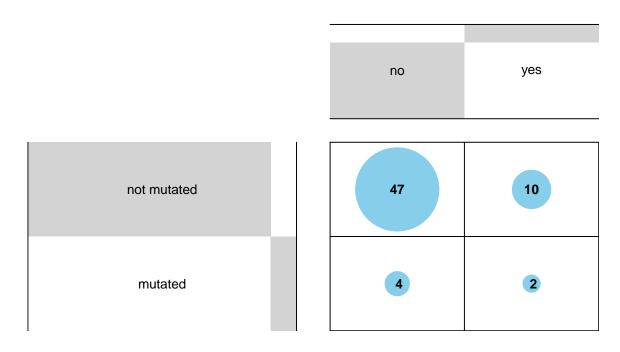
## **COL11A1 vs AFP**

Fisher's exact test p-value = 0.65; odds ratio = 2



# **COL11A1 vs Multinodular**

Fisher's exact test p-value = 0.32; odds ratio = 2.3

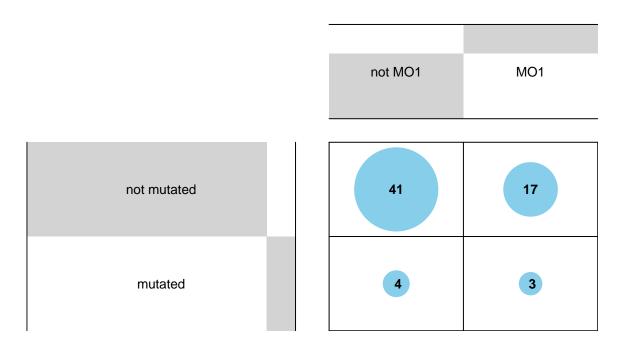


# **COL11A1 vs Risk Group**

Fisher's exact test p-value = 0.66; odds ratio = 1.4

	low risk	high risk
not mutated	45	13
mutated	5	2

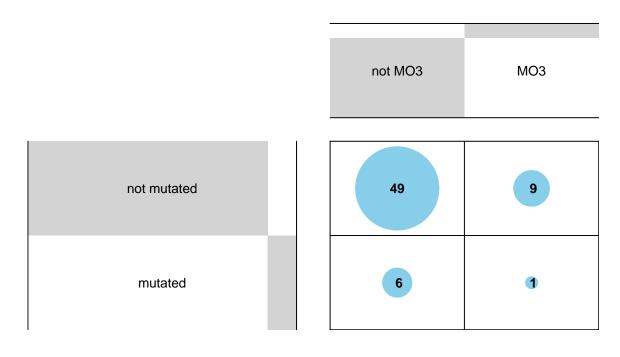
Fisher's exact test p-value = 0.67; odds ratio = 1.8



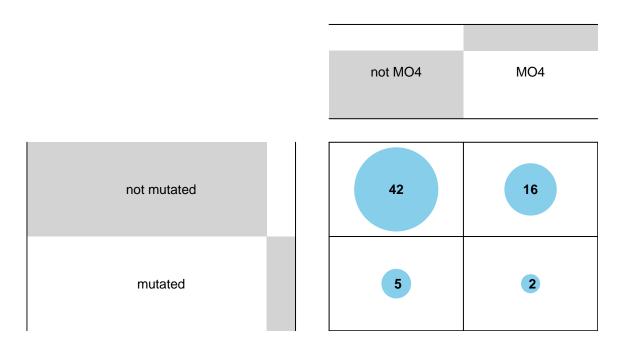
Fisher's exact test p-value = 0.67; odds ratio = 0.44

	not MO2	MO2
not mutated	42	16
mutated	6	1

## Fisher's exact test p-value = 1; odds ratio = 0.91

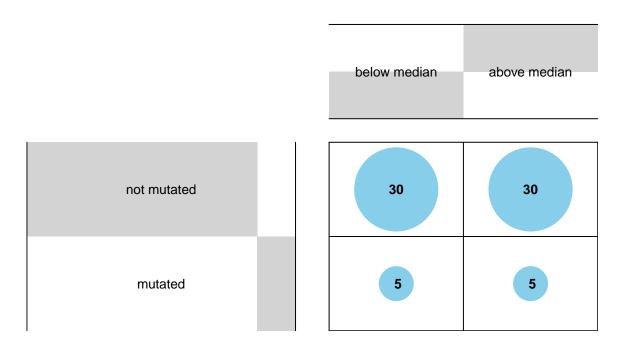


## Fisher's exact test p-value = 1; odds ratio = 1



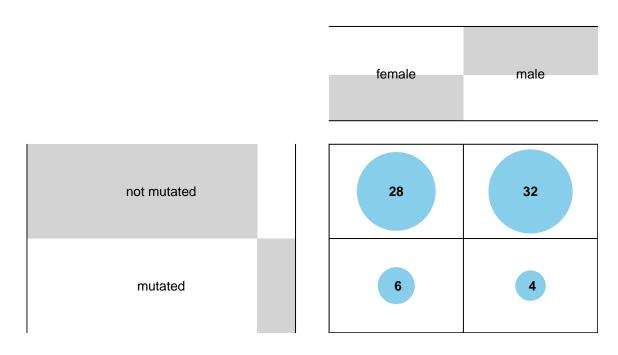
# CSMD2 vs Age

# Fisher's exact test p-value = 1; odds ratio = 1



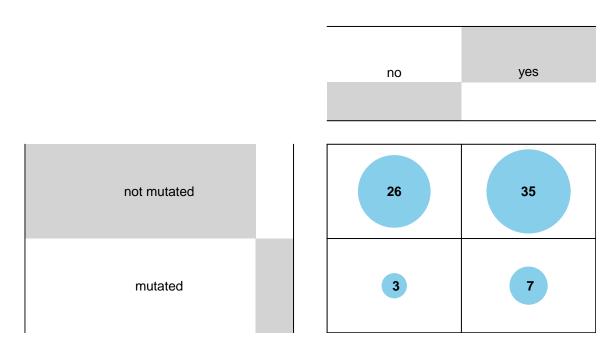
# CSMD2 vs Sex

Fisher's exact test p-value = 0.51; odds ratio = 0.59



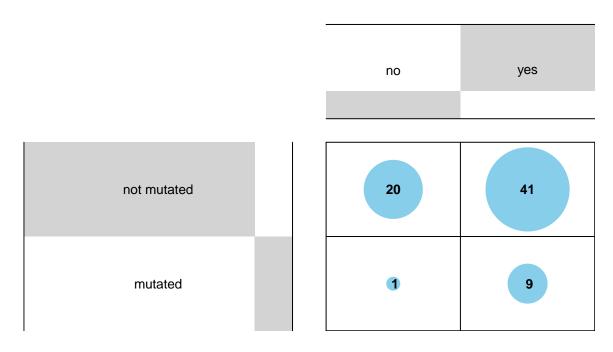
## CSMD2 vs HCV

# Fisher's exact test p-value = 0.51; odds ratio = 1.7



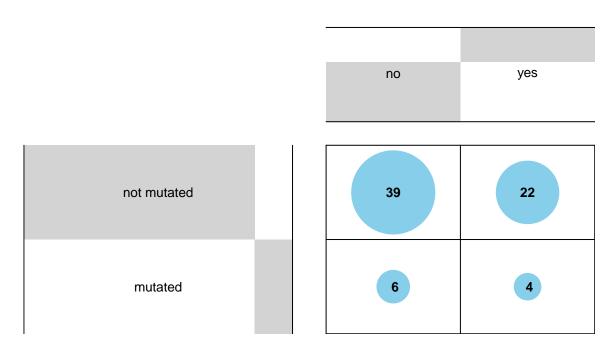
## CSMD2 vs HBV

# Fisher's exact test p-value = 0.26; odds ratio = 4.3



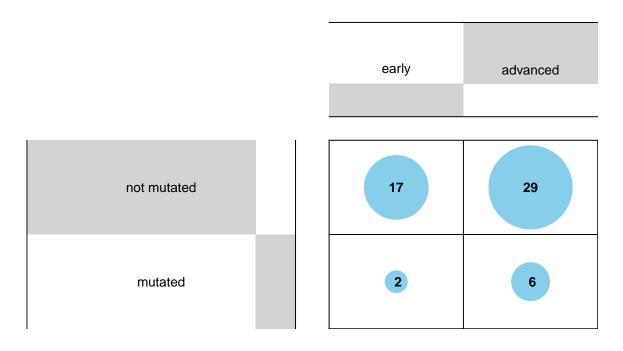
## CSMD2 vs HDV

# Fisher's exact test p-value = 1; odds ratio = 1.2



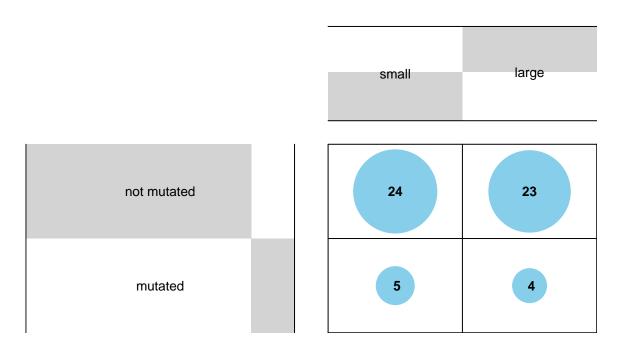
# CSMD2 vs Stage

## Fisher's exact test p-value = 0.7; odds ratio = 1.7



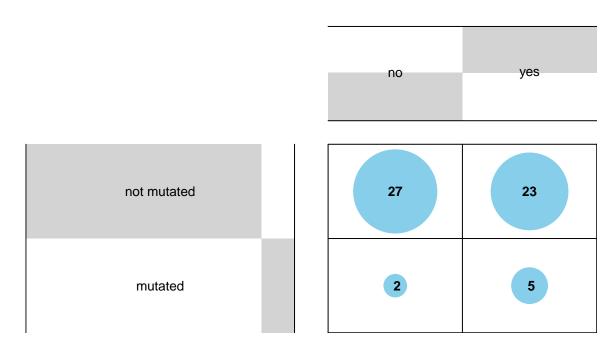
# **CSMD2** vs Tumor Size

Fisher's exact test p-value = 1; odds ratio = 0.84



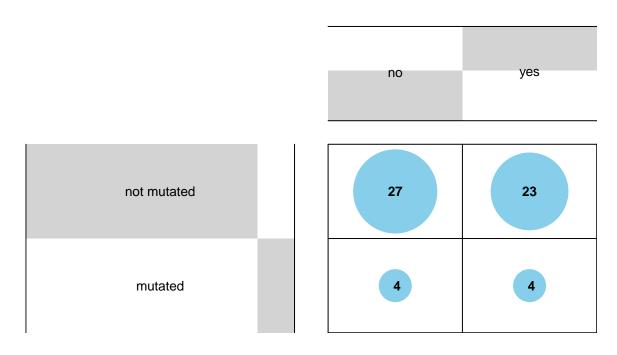
## **CSMD2** vs Cirrhosis

Fisher's exact test p-value = 0.25; odds ratio = 2.9



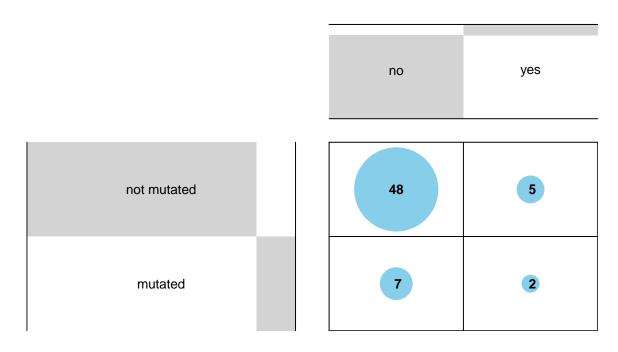
# **CSMD2** vs Obesity

# Fisher's exact test p-value = 1; odds ratio = 1.2



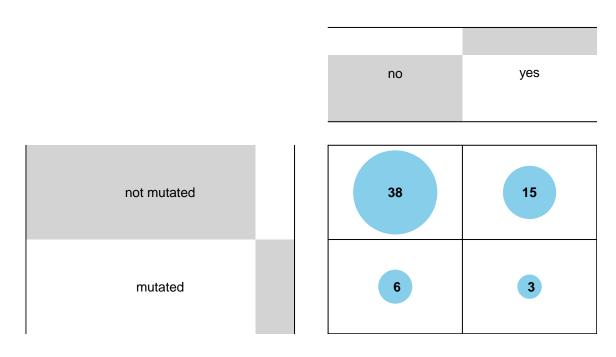
## **CSMD2** vs Alcohol

# Fisher's exact test p-value = 0.27; odds ratio = 2.7



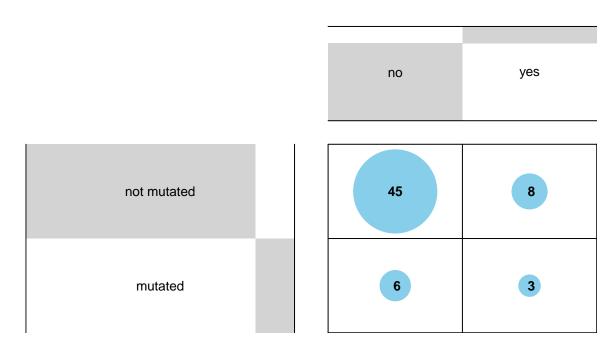
## CSMD2 vs Smoker

Fisher's exact test p-value = 0.71; odds ratio = 1.3



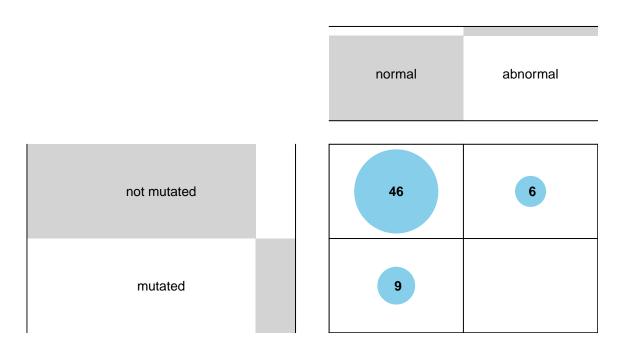
# CSMD2 vs Fam Hx Liv C

Fisher's exact test p-value = 0.19; odds ratio = 2.8



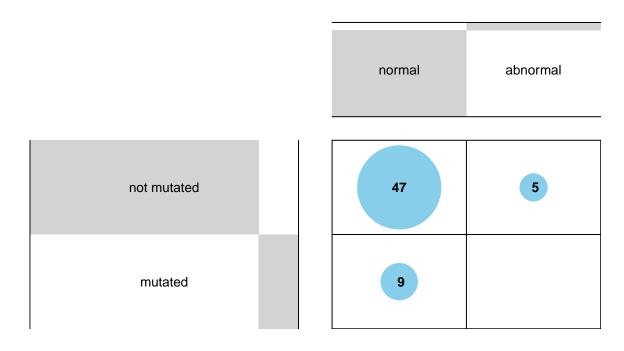
## **CSMD2** vs Albumin

Fisher's exact test p-value = 0.58; odds ratio = 0

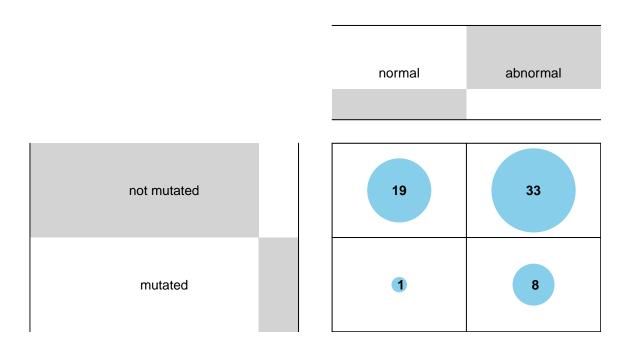


## **CSMD2** vs Bilirubin

# Fisher's exact test p-value = 1; odds ratio = 0

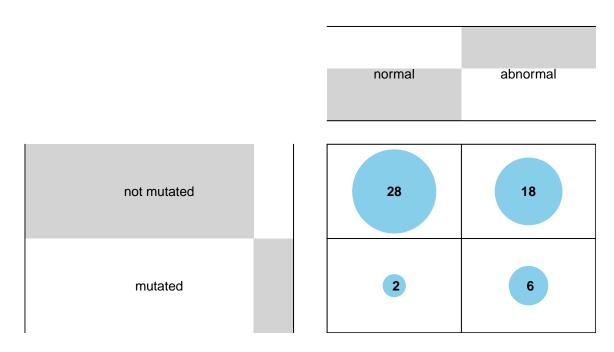


# CSMD2 vs ALT Fisher's exact test p-value = 0.25 ; odds ratio = 4.5

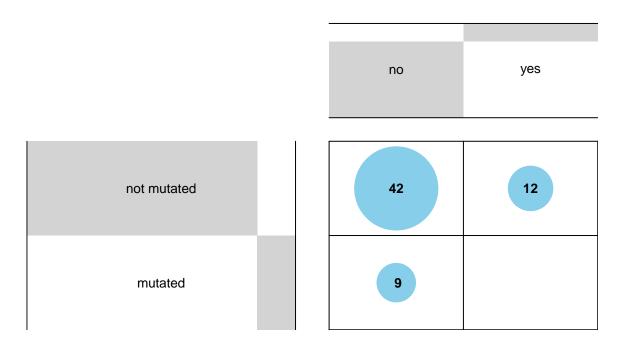


# CSMD2 vs AFP

Fisher's exact test p-value = 0.12; odds ratio = 4.5

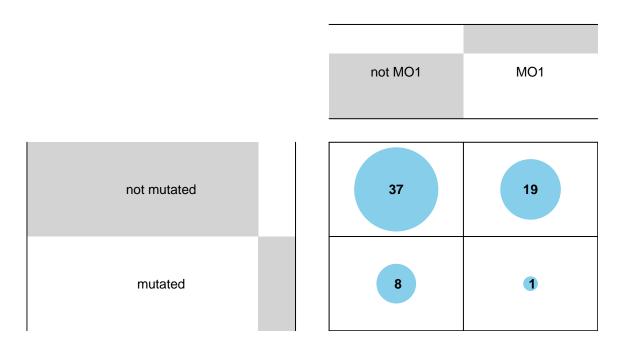


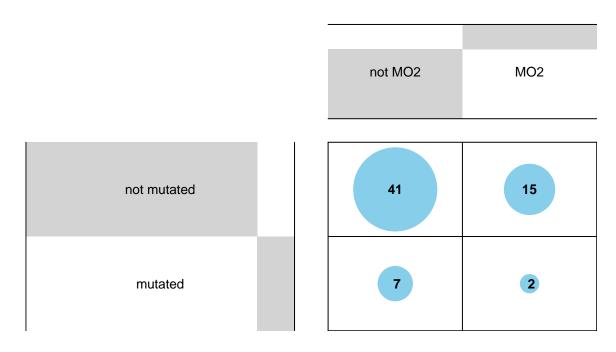
### **CSMD2** vs Multinodular

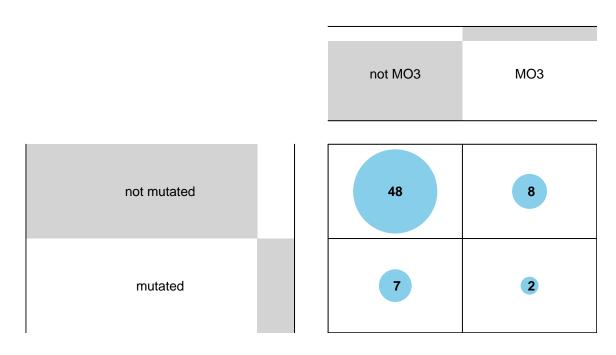


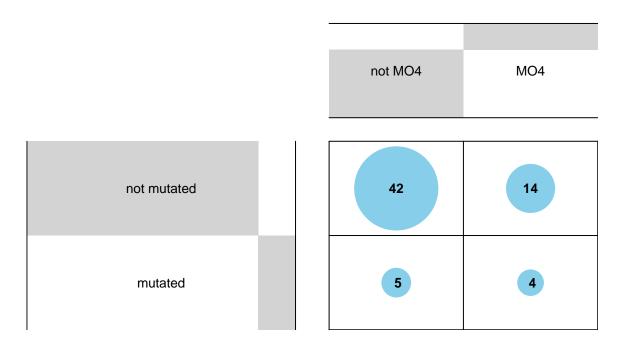
# **CSMD2** vs Risk Group

	low risk	high risk
not mutated	46	10
mutated	4	5

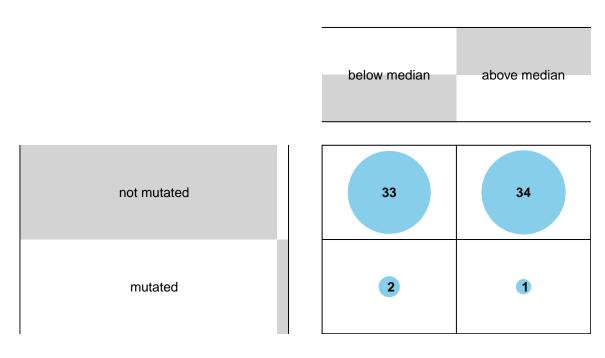




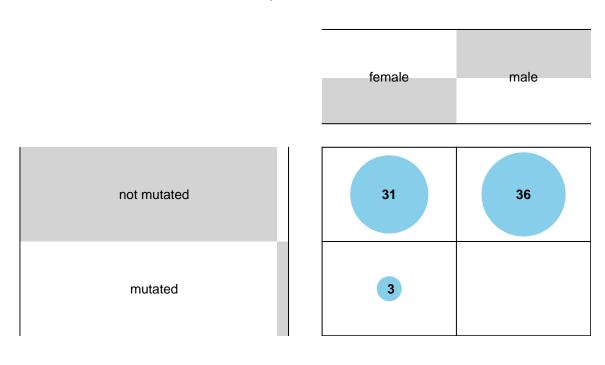




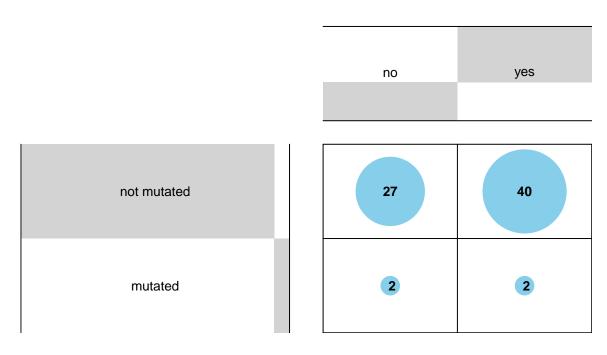
AK2 vs Age
Fisher's exact test p-value = 1; odds ratio = 0.49



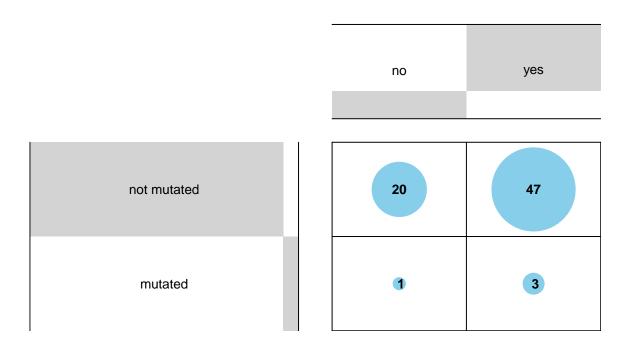
# AK2 vs Sex Fisher's exact test p-value = 0.11; odds ratio = 0



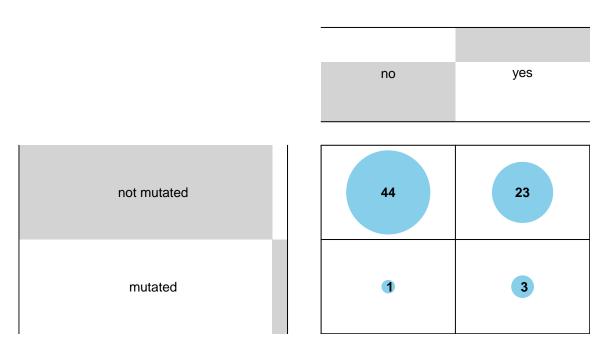
# AK2 vs HCV Fisher's exact test p-value = 1 ; odds ratio = 0.68



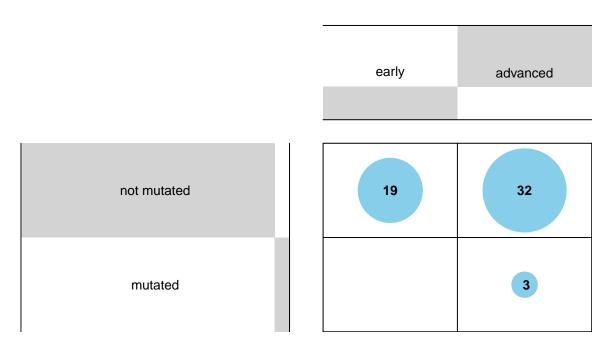
# AK2 vs HBV Fisher's exact test p-value = 1; odds ratio = 1.3



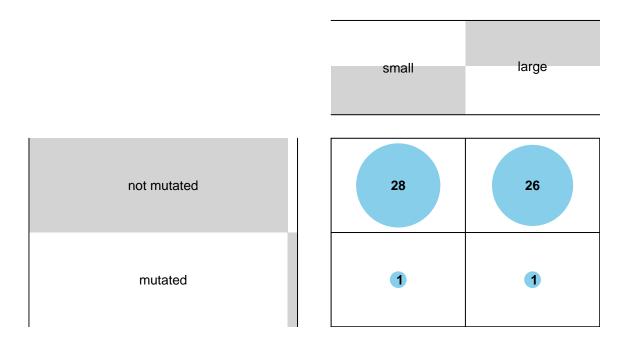
AK2 vs HDV
Fisher's exact test p-value = 0.14; odds ratio = 5.6



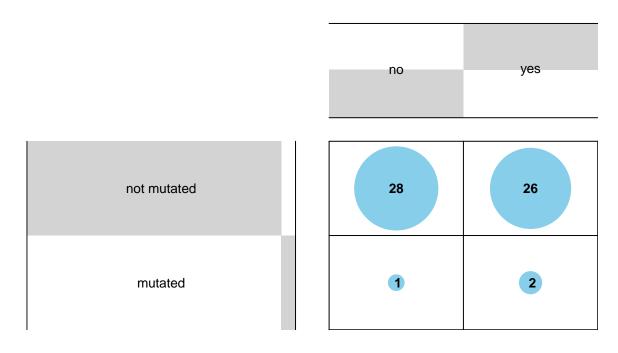
# AK2 vs Stage Fisher's exact test p-value = 0.54; odds ratio = Inf



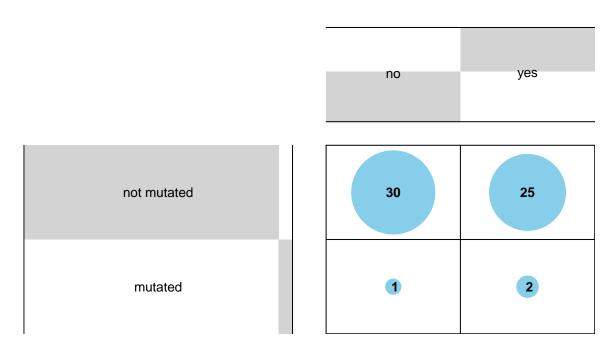
### **AK2 vs Tumor Size**



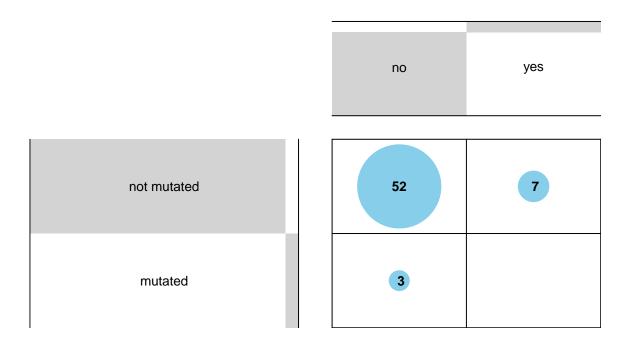
### **AK2 vs Cirrhosis**



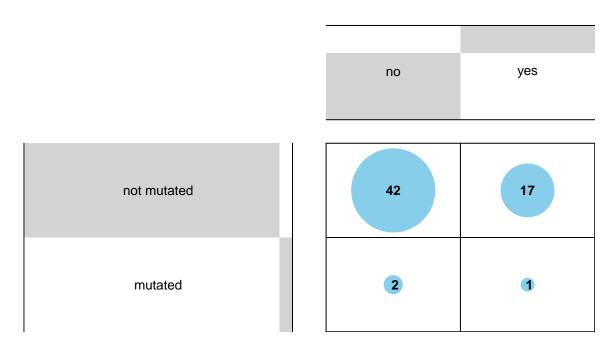
# AK2 vs Obesity



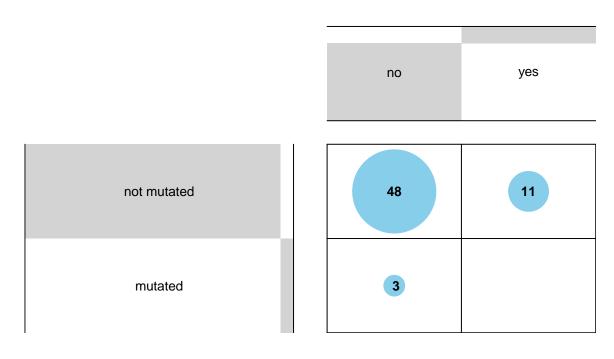
### **AK2 vs Alcohol**



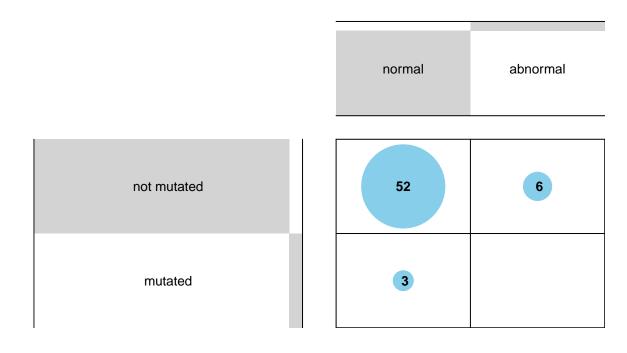
### AK2 vs Smoker



### AK2 vs Fam Hx Liv C



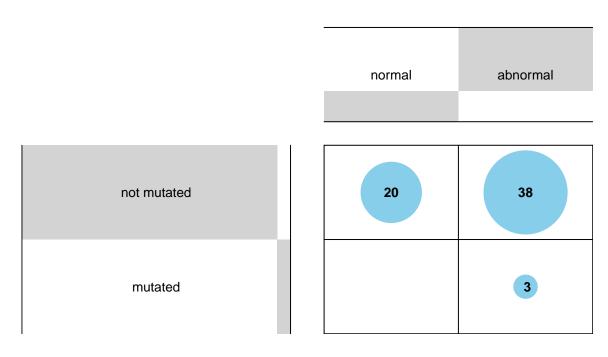
### **AK2 vs Albumin**



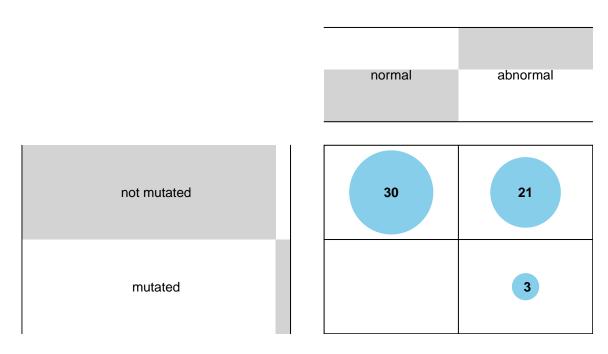
# **AK2 vs Bilirubin**

	normal	abnormal
not mutated	53	5
mutated	3	

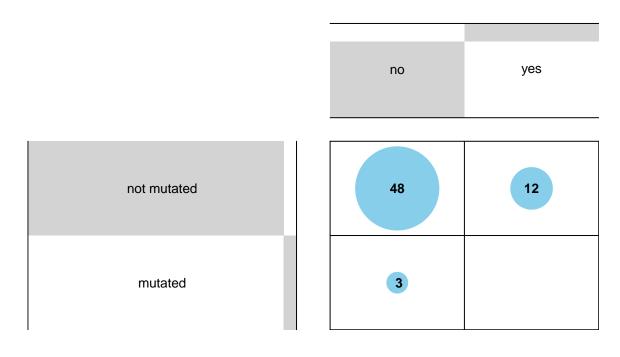
AK2 vs ALT Fisher's exact test p-value = 0.54; odds ratio = Inf



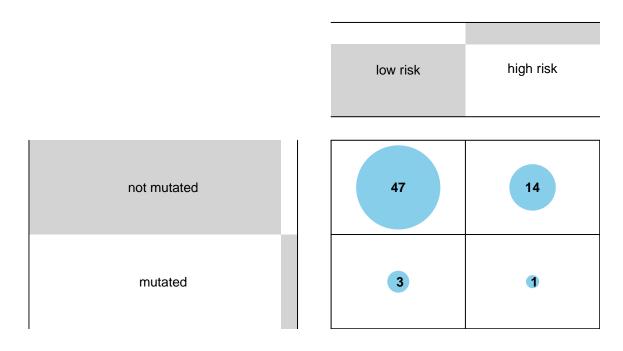
AK2 vs AFP
Fisher's exact test p-value = 0.082; odds ratio = Inf

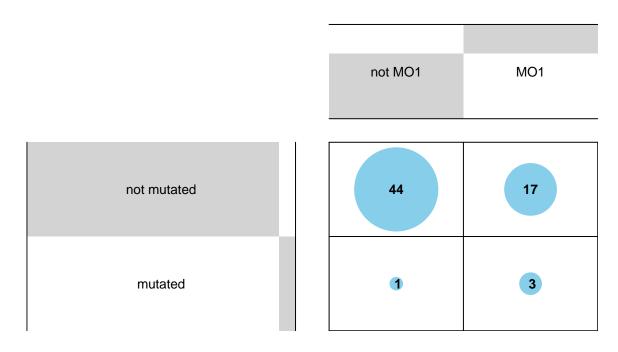


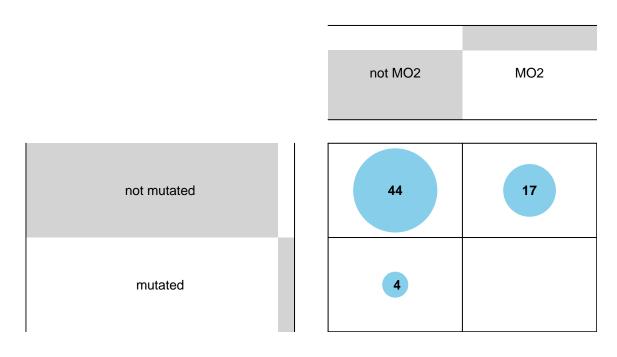
### **AK2 vs Multinodular**



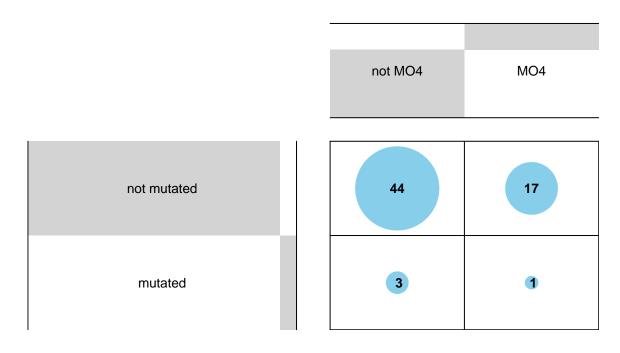
# **AK2 vs Risk Group**



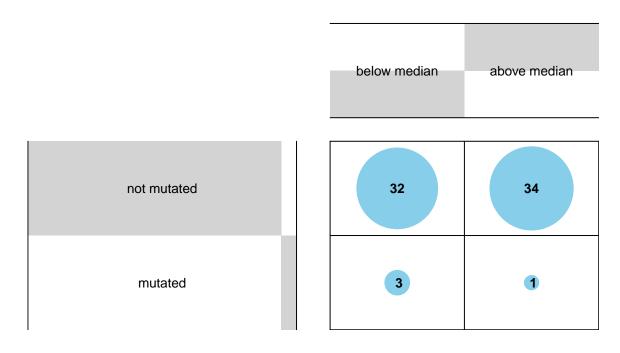




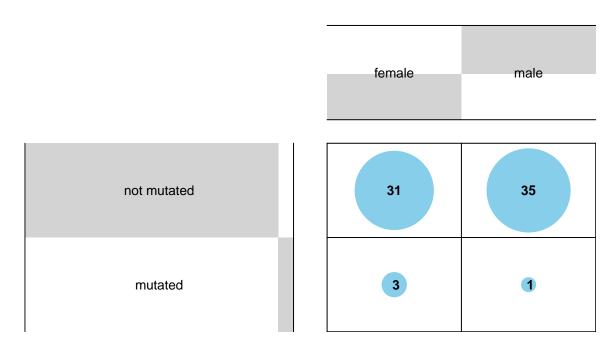




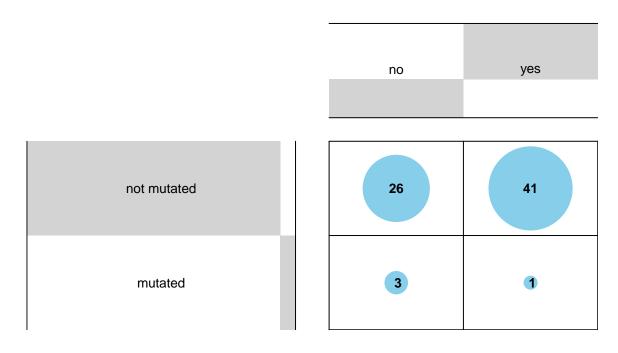
# SPTA1 vs Age



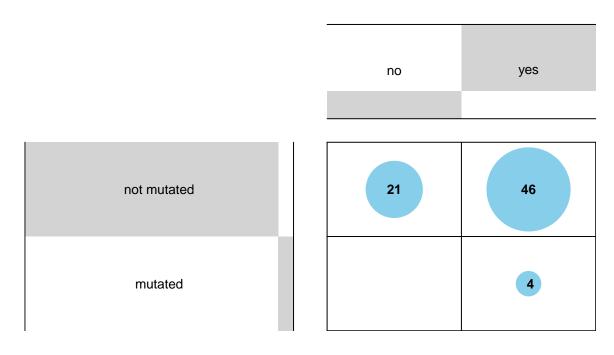
# SPTA1 vs Sex Fisher's exact test p-value = 0.35 ; odds ratio = 0.3



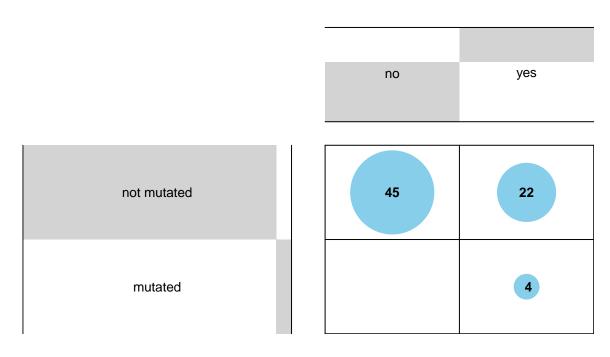
# SPTA1 vs HCV



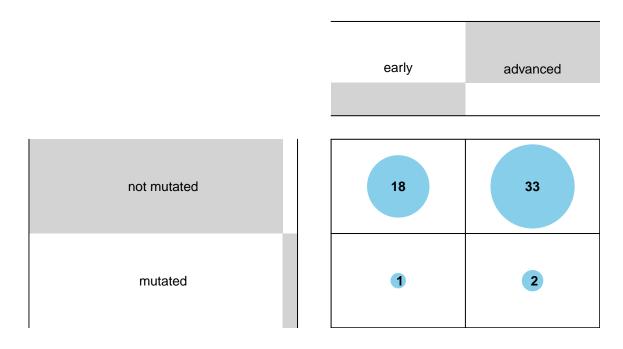
# SPTA1 vs HBV Fisher's exact test p-value = 0.31; odds ratio = Inf



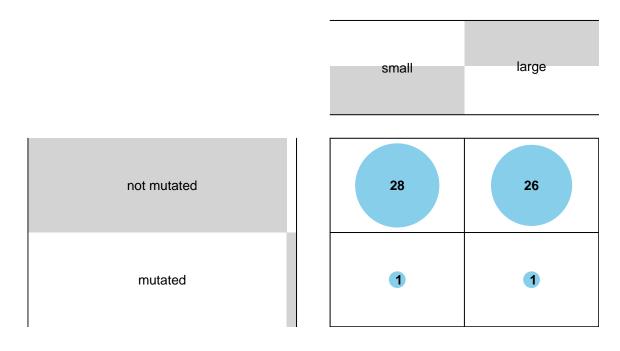
# SPTA1 vs HDV Fisher's exact test p-value = 0.015 ; odds ratio = Inf



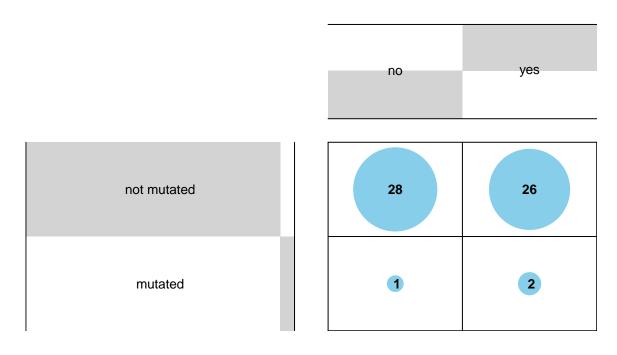
# **SPTA1 vs Stage**



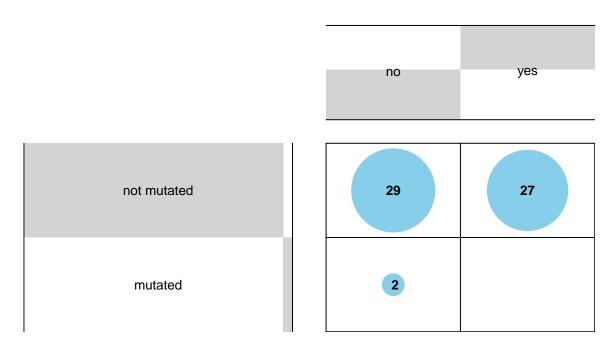
### **SPTA1 vs Tumor Size**



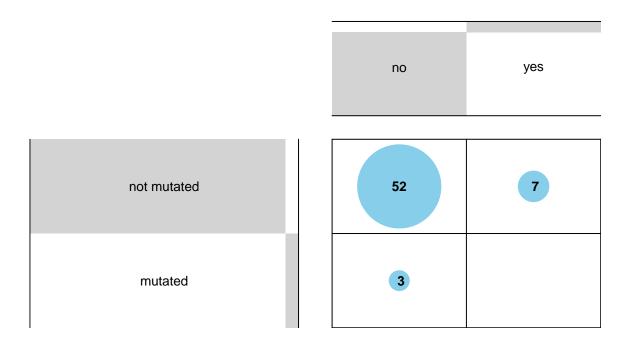
### **SPTA1 vs Cirrhosis**



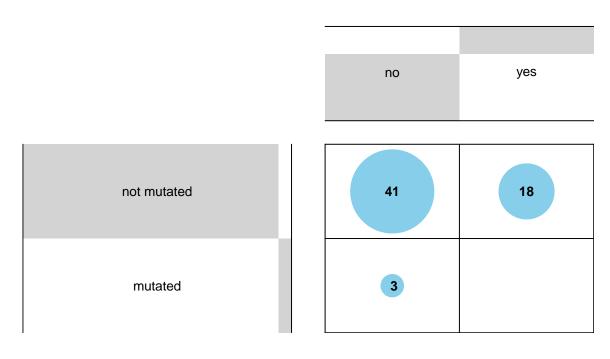
# **SPTA1 vs Obesity**



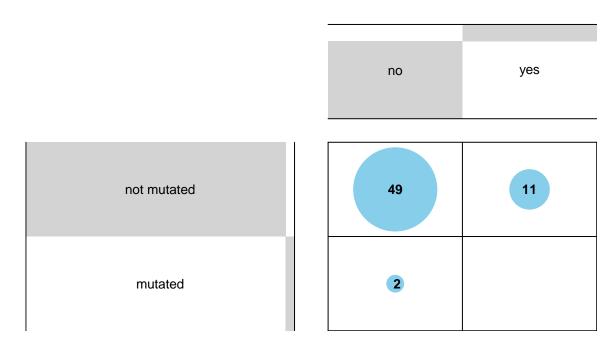
#### **SPTA1 vs Alcohol**



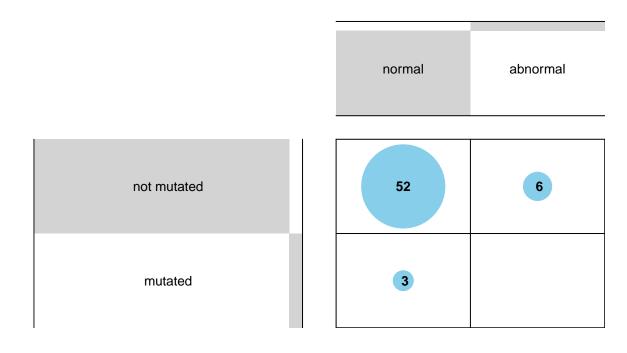
#### **SPTA1 vs Smoker**



#### **SPTA1 vs Fam Hx Liv C**



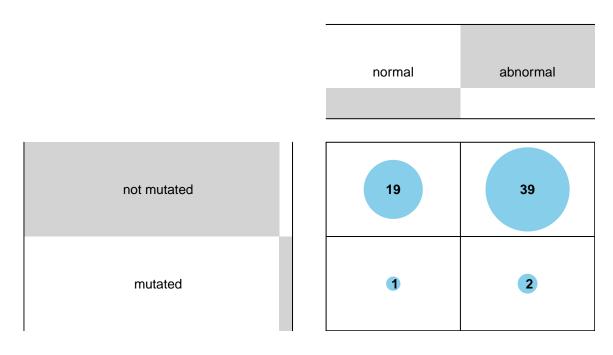
#### **SPTA1 vs Albumin**



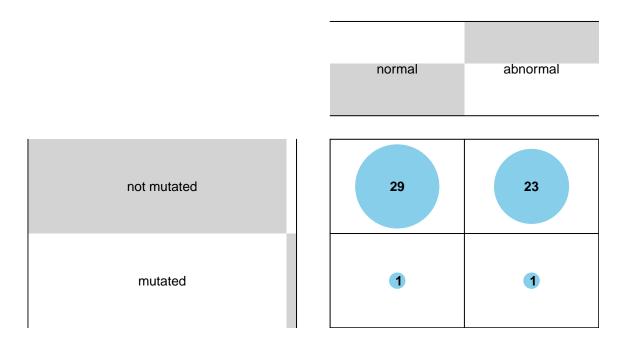
# **SPTA1** vs Bilirubin

	normal	abnormal
not mutated	53	5
mutated	3	

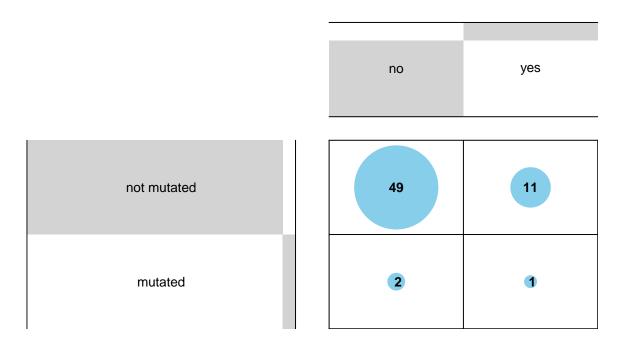
# SPTA1 vs ALT Fisher's exact test p-value = 1; odds ratio = 0.97



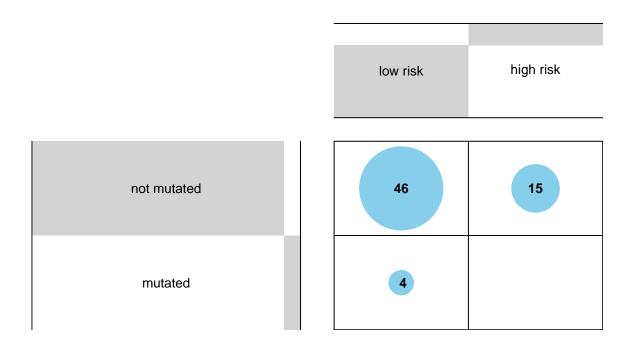
#### SPTA1 vs AFP

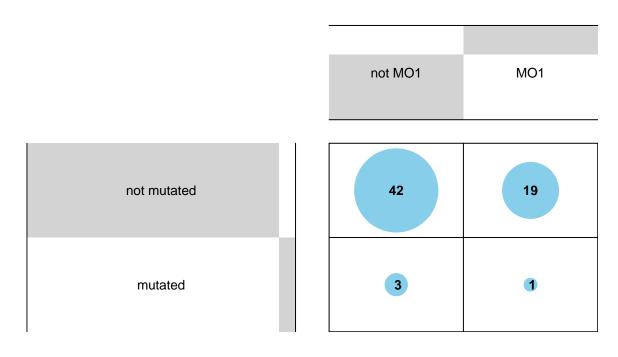


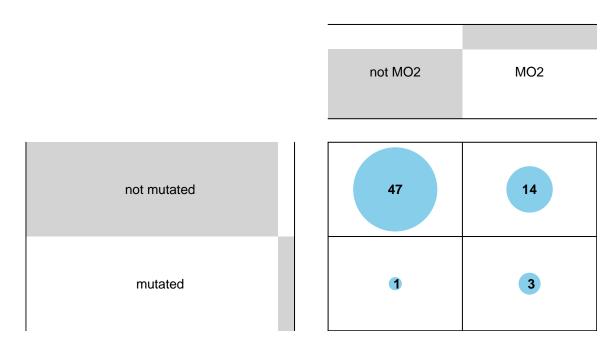
#### **SPTA1** vs Multinodular

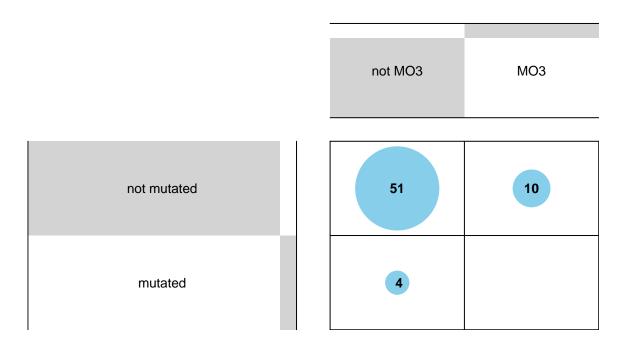


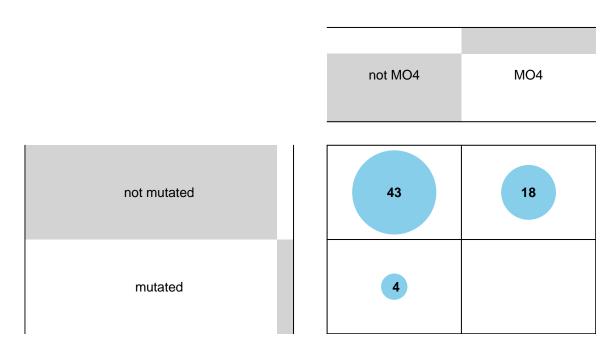
# **SPTA1 vs Risk Group**



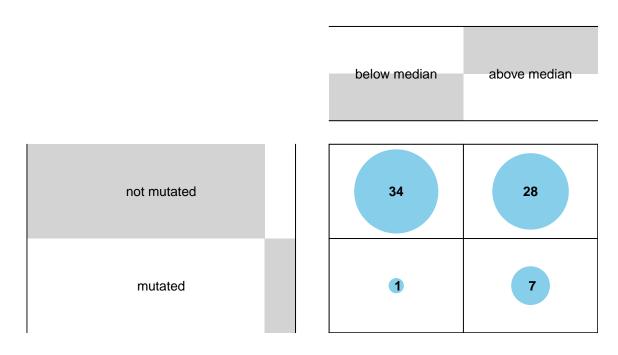




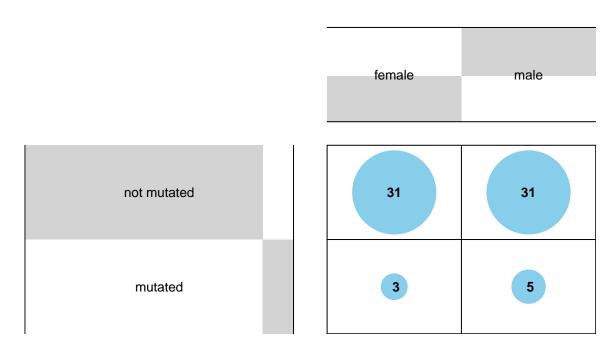




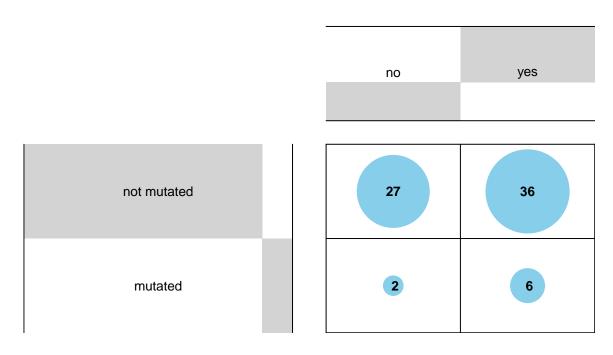
# CSMD3 vs Age



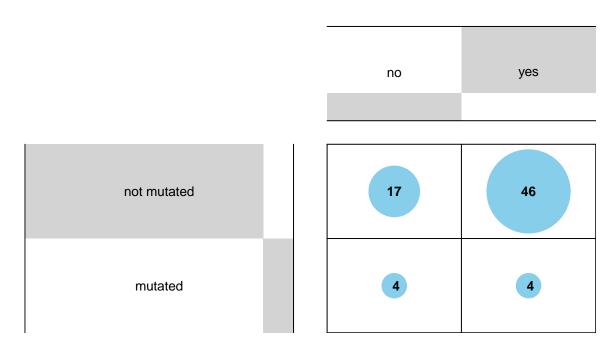
# CSMD3 vs Sex



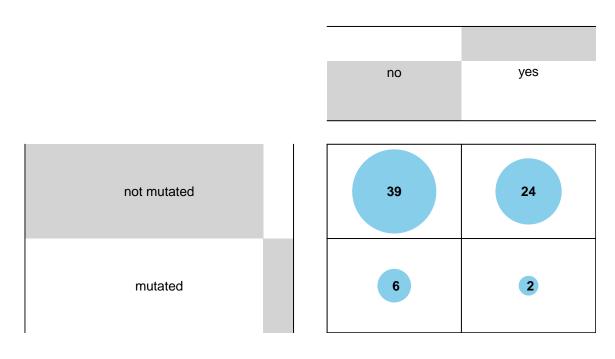
# CSMD3 vs HCV



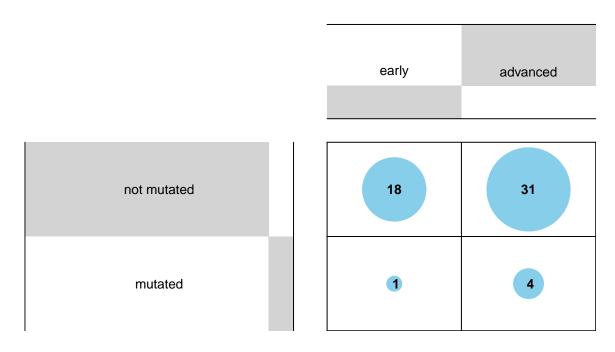
#### CSMD3 vs HBV



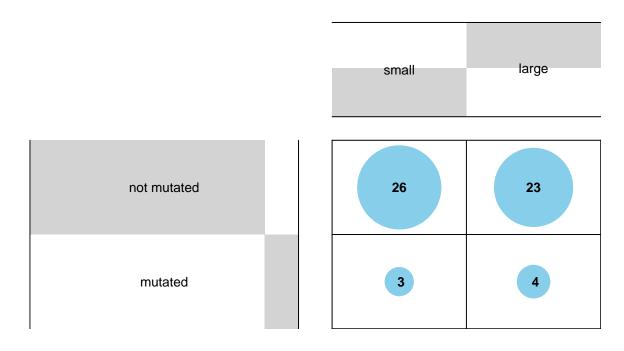
#### CSMD3 vs HDV



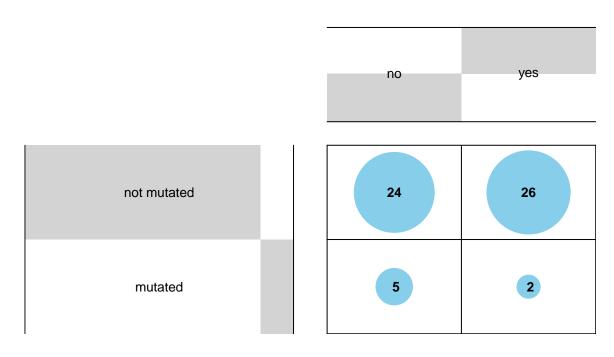
# CSMD3 vs Stage



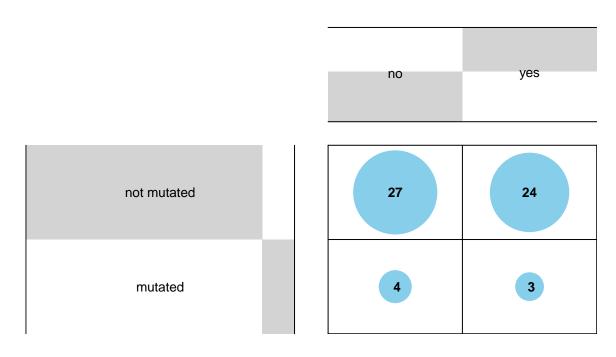
#### **CSMD3 vs Tumor Size**



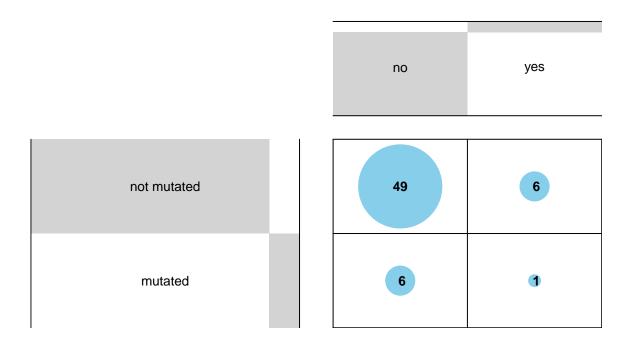
#### **CSMD3** vs Cirrhosis



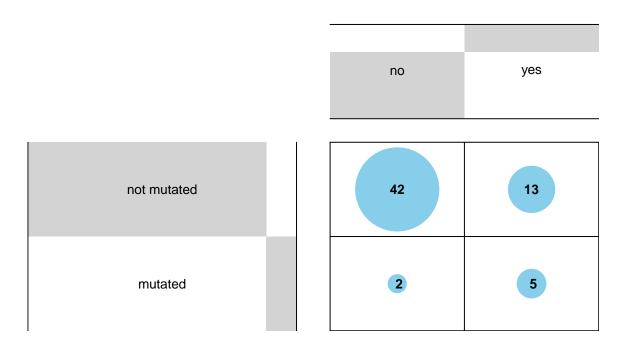
# **CSMD3 vs Obesity**



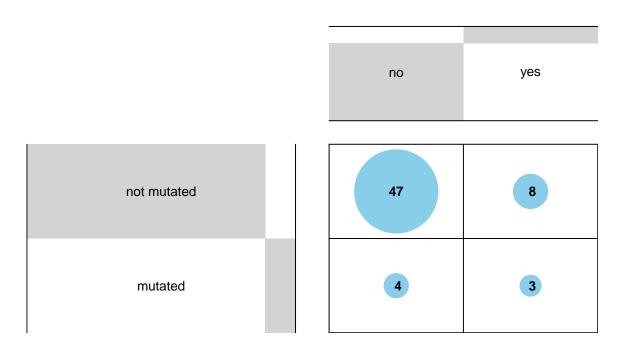
#### **CSMD3** vs Alcohol



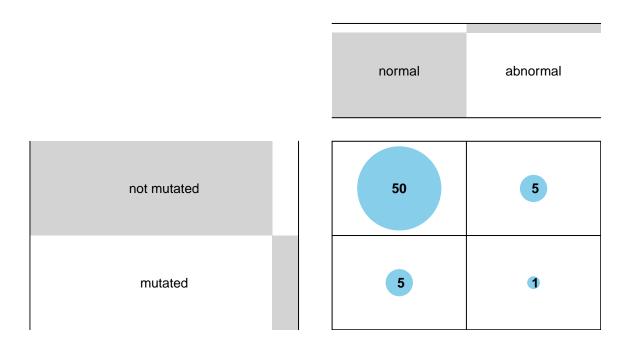
#### CSMD3 vs Smoker



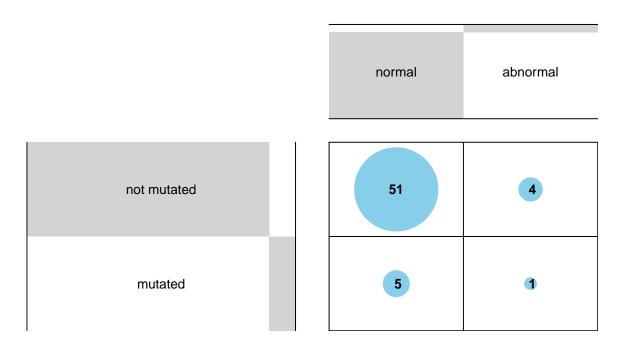
#### CSMD3 vs Fam Hx Liv C



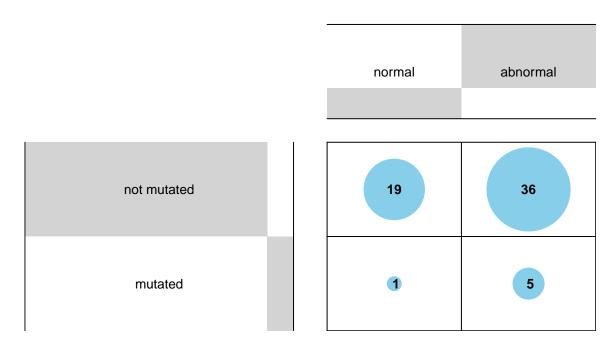
#### **CSMD3** vs Albumin



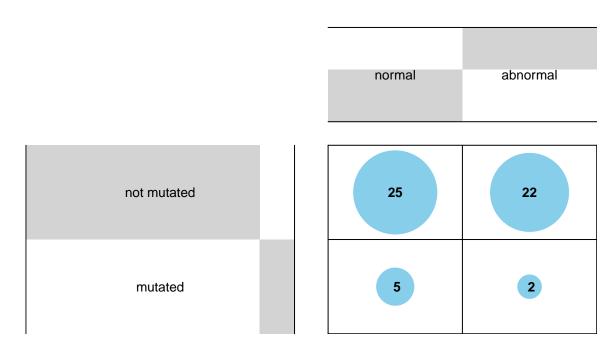
# **CSMD3** vs Bilirubin



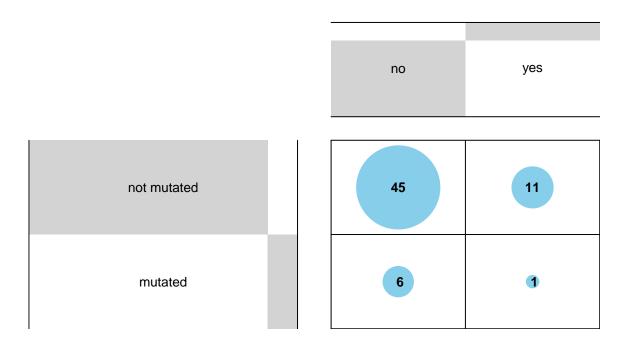
# CSMD3 vs ALT Fisher's exact test p-value = 0.65; odds ratio = 2.6



# CSMD3 vs AFP

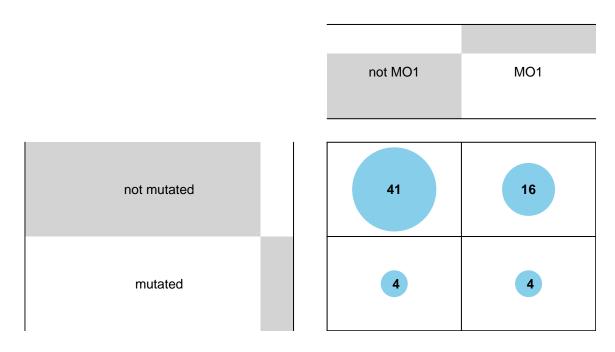


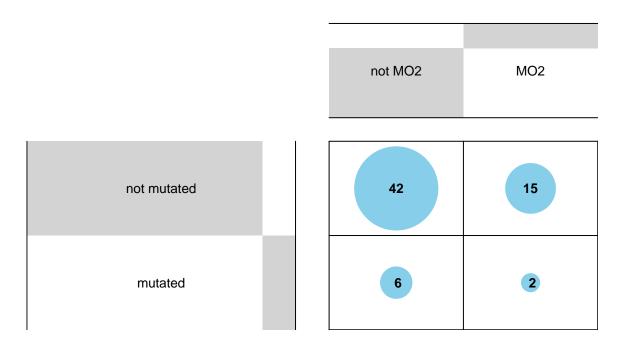
#### **CSMD3** vs Multinodular

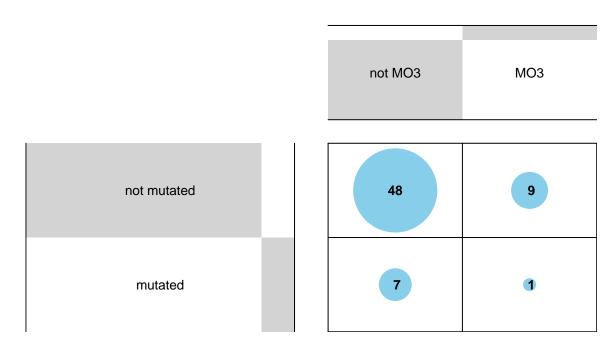


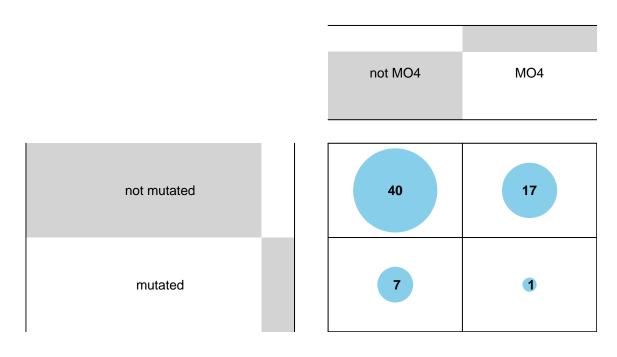
# **CSMD3** vs Risk Group

	low risk	high risk
not mutated	45	12
mutated	5	3

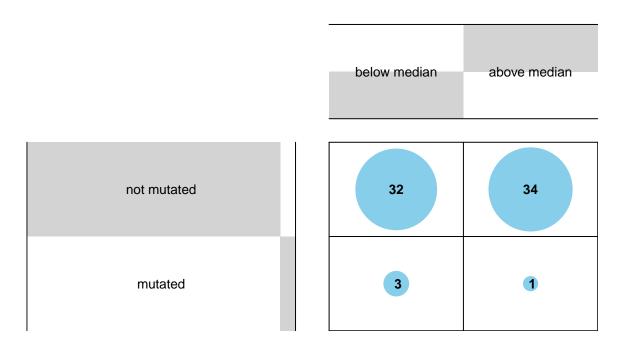




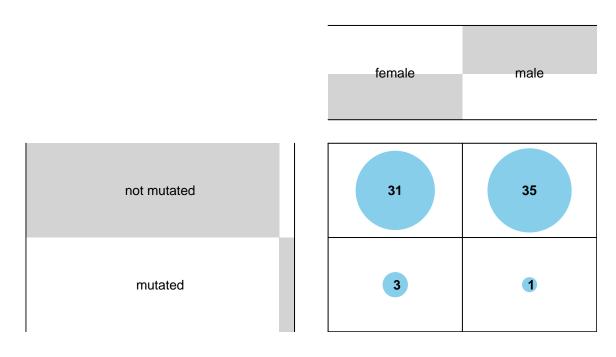




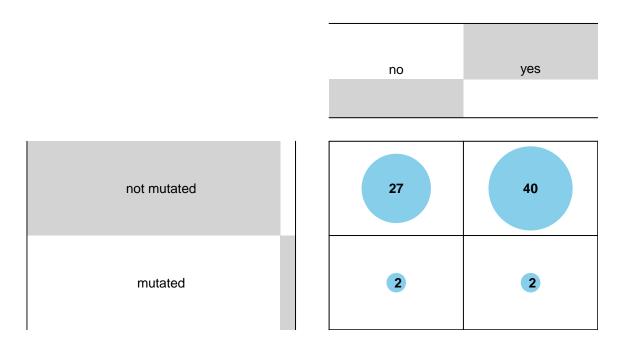
# VPS13A vs Age



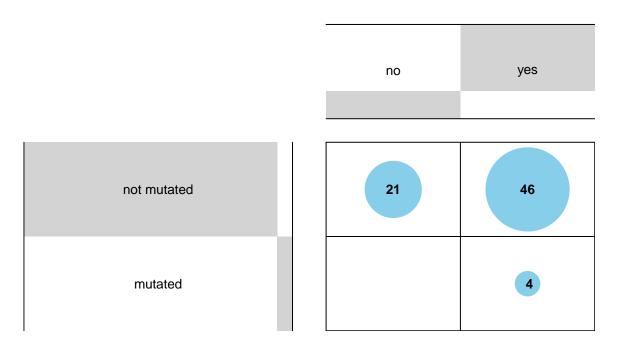
#### **VPS13A vs Sex**



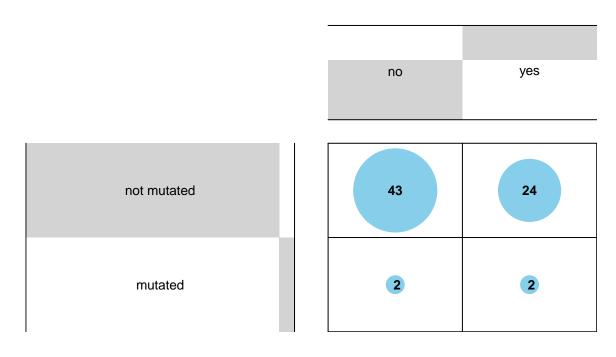
#### **VPS13A vs HCV**



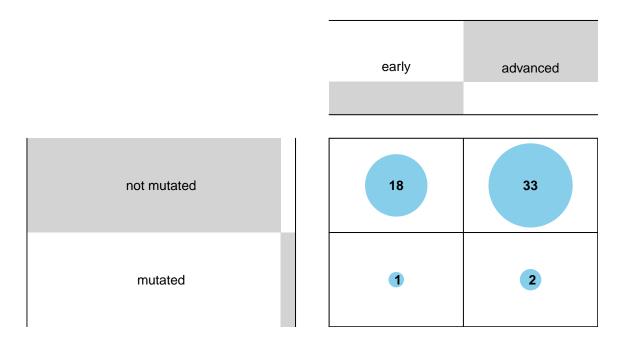
# VPS13A vs HBV



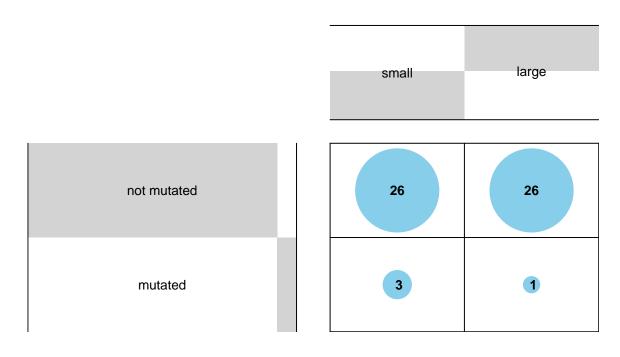
#### **VPS13A vs HDV**



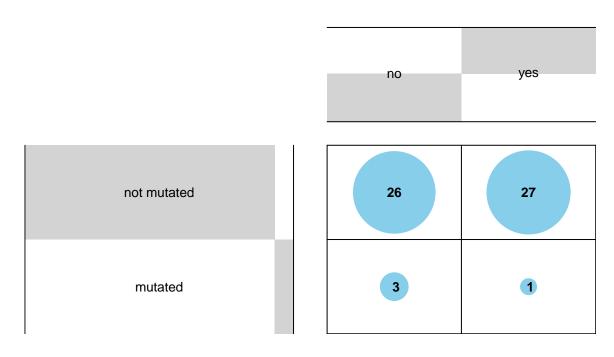
# **VPS13A vs Stage**



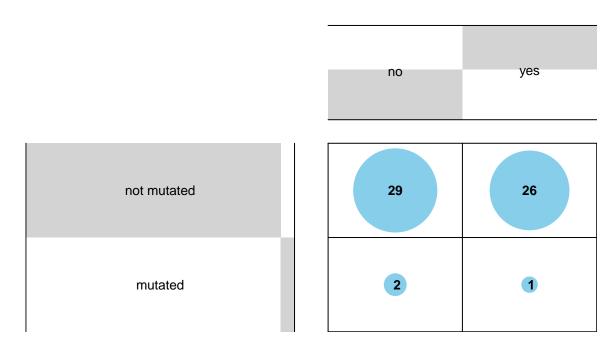
#### **VPS13A vs Tumor Size**



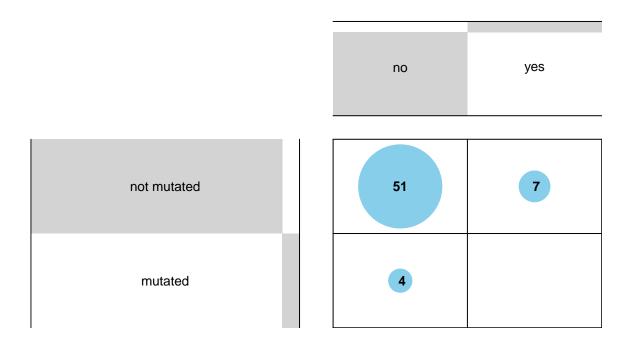
# **VPS13A vs Cirrhosis**



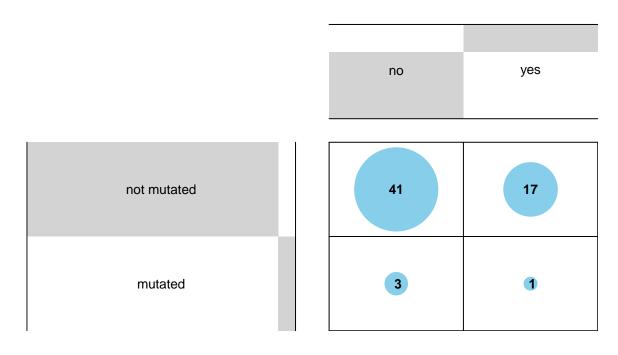
# **VPS13A vs Obesity**



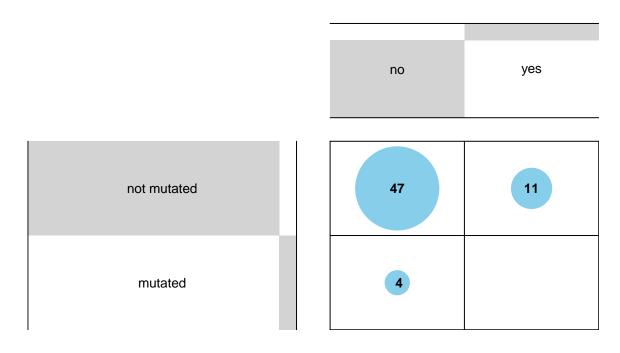
#### **VPS13A vs Alcohol**



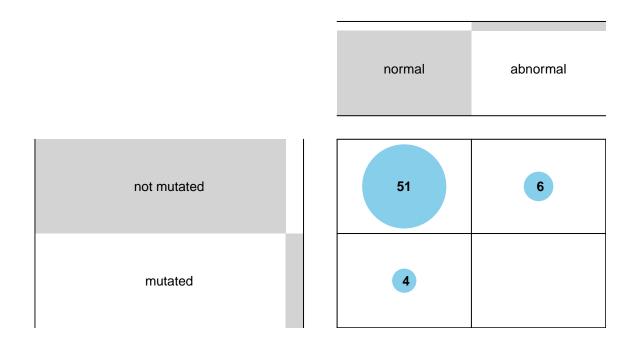
# **VPS13A vs Smoker**



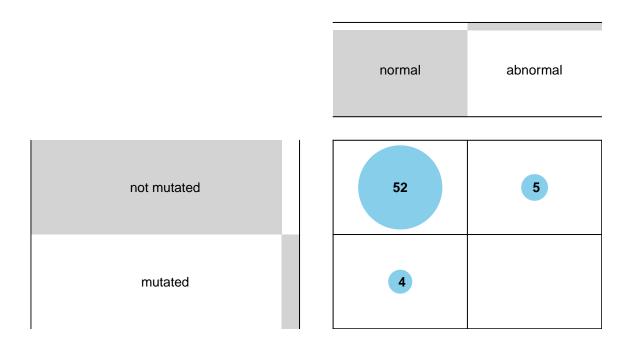
#### **VPS13A vs Fam Hx Liv C**



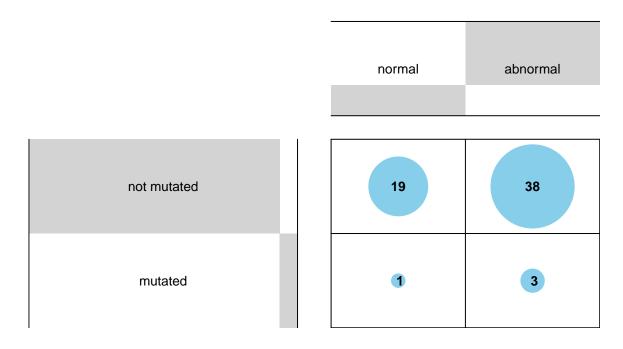
#### **VPS13A vs Albumin**



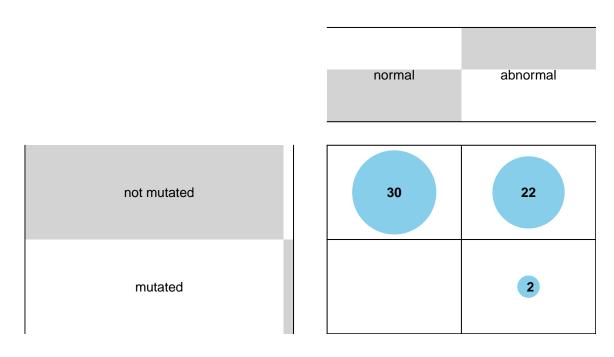
#### **VPS13A vs Bilirubin**



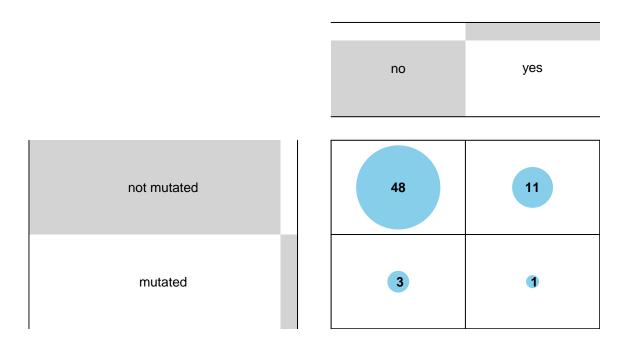
#### **VPS13A vs ALT**



# VPS13A vs AFP Fisher's exact test p-value = 0.19; odds ratio = Inf



#### **VPS13A vs Multinodular**



# **VPS13A vs Risk Group**

	low risk	high risk
not mutated	46	15
mutated	4	

