

Pneumonia

rule

$(\text{std}(\text{skwns}) < 16.88) \wedge (\text{std}(\text{mel10}=1687\text{Hz}) < 0.54) \wedge (\text{min}(\text{mel8}=1194\text{Hz}) < -4.20) \wedge (\text{std}(\text{mel8}=1194\text{Hz}) < 0.19)$
 $(\text{std}(\text{skwns}) < 16.88) \wedge (\text{std}(\text{mel10}=1687\text{Hz}) < 0.54) \wedge (\text{min}(\text{mel8}=1194\text{Hz}) < -4.20) \wedge (\text{std}(\text{mel8}=1194\text{Hz}) \geq 0.19) \wedge (\text{max}(\text{mel6}=845\text{Hz}) \geq -3.58) \wedge (\text{std}(\text{skwns}) < 16.88) \wedge (\text{std}(\text{mel10}=1687\text{Hz}) \geq 0.54) \wedge (\text{bsd}(\text{mel14}=3366\text{Hz}) \geq 3.5) \wedge (3\text{ac}(\text{mel8}=1194\text{Hz}) \geq 0.01)$
 $(\text{std}(\text{skwns}) \geq 20.37) \wedge (\text{std}(\text{mel9}=1419\text{Hz}) \geq 0.14) \wedge (\text{med}(\text{mel9}=1419\text{Hz}) < -3.28)$
 $(\text{min}(\text{mfcc2}) < 1.50) \wedge (\text{max}(\text{mfcc4}) \geq 0.56) \wedge (\text{mean}(\text{mfcc5}) < 0.48) \wedge (\text{med}(\text{mel11}=2005\text{Hz}) < 9.76\text{e-}5)$
 $(\text{min}(\text{mfcc2}) \geq 1.50) \wedge (\text{min}(\text{mfcc3}) \geq -0.53) \wedge (\text{min}(\text{mel14}=3366\text{Hz}) \geq 2.98\text{e-}8) \wedge (\text{med}(\text{cntrd}) < 19.89) \wedge (3\text{ac}(\text{mfcc4}) \geq 0.00)$
 $\wedge G[(\text{max}(\text{cntrd}) \geq 1084.33) \square (\text{std}(\text{skwns}) \leq 0.08)]$
 $\langle G \rangle (\text{max}(\text{mel8}=1194\text{Hz}) \leq -4.91) \wedge [G](\text{max}(\text{cntrd}) < 1084.33) \wedge [G](\text{std}^+(\text{mel10}=1687\text{Hz}) < 0.42) \wedge [G](\text{max}(\text{mel8}=1194\text{Hz}) \leq -4.91) \rightarrow [\text{DBE}](\text{std}^+(\text{mel10}=1687\text{Hz}) < 0.42)$
 $\langle G \rangle ((\text{max}(\text{mfcc2}) \leq 1.60) \wedge [\overline{\text{DBE}}](\text{min}(\text{mfcc5}) \geq -0.01)) \wedge [G](\text{max}(\text{mfcc2}) \leq 1.60) \rightarrow [G](\text{max}(\text{mfcc5}) < 0.91)$
 $\langle G \rangle ((\text{max}(\text{mfcc3}) \leq -0.52) \wedge \langle L \rangle (\text{max}(\text{crest}) \leq 20.89)) \wedge [G](\text{max}(\text{mfcc2}) > 1.60) \wedge [G](\text{max}(\text{mfcc3}) \leq -0.52) \rightarrow [\overline{\text{DBE}}](\text{max}(\text{mfcc4}) > -0.53) \wedge [G](\text{max}(\text{mfcc2}) > 1.60) \wedge [G](\text{max}(\text{mfcc3}) > -0.52) \wedge [G](\text{max}(\text{mel12}=2383\text{Hz}) > 1.23\text{e-}8) \wedge [G](\text{std}^+(\text{mfcc6}) < 0.32)$

Bronchiectasis

rule

$\text{std}(\text{decrs}) < 2.77$
 $\text{std}(\text{decrs}) \geq 2.77$
 $\text{mean}(\text{decrs}) < -1.49$
 $\text{mean}(\text{decrs}) \geq -1.49$
 $\langle G \rangle ((\text{max}(\text{mel7}=1005\text{Hz}) \geq -4.14) \wedge \langle \text{AO} \rangle ((\text{max}(\text{kurts}) \leq 6.44) \wedge [\overline{\text{DBE}}](\text{mean}(\text{mel7}=1005\text{Hz}) \leq -4.18) \wedge [\overline{\text{DBE}}](\text{median}(\text{decrs}) \geq -0.36) \wedge (\text{std}^+(\text{mel1}=357\text{Hz}) \geq 0.11)))$
 $\langle G \rangle ((\text{max}(\text{mel7}=1005\text{Hz}) \geq -4.14) \wedge \langle \text{AO} \rangle (\text{max}(\text{kurts}) \leq 6.44)) \wedge [G](\text{max}(\text{mel7}=1005\text{Hz}) \geq -4.14) \rightarrow [\text{AO}](\text{max}(\text{kurts}) \leq 6.44) \rightarrow [\overline{\text{DBE}}](\text{mean}(\text{mel7}=1005\text{Hz}) \geq -4.14)$
 $\langle G \rangle (\text{max}(\text{mel7}=1005\text{Hz}) \geq -4.14) \wedge [G](\text{max}(\text{mel7}=1005\text{Hz}) \geq -4.14) \rightarrow [\text{AO}](\text{max}(\text{kurts}) > 6.44)$
 $[G](\text{max}(\text{mel7}=1005\text{Hz}) < -4.14) \wedge [G](\text{std}(\text{mel13}=2832\text{Hz}) > 0.00)$
 $\langle G \rangle ((\text{max}(\text{kurts}) \leq 5.06) \wedge [\overline{\text{DBE}}](\text{median}(\text{mel8}=1194\text{Hz}) \leq 9.17\text{e-}5)) \wedge [G](\text{max}(\text{kurts}) \leq 5.06) \rightarrow [\overline{\text{DBE}}](\text{median}(\text{mel8}=1194\text{Hz}) \leq 9.17\text{e-}5) \rightarrow (\text{quantile}(\text{mel1}=357\text{Hz}) \geq 0.11)$
 $\langle G \rangle (\text{max}(\text{kurts}) \leq 5.06) \wedge [G](\text{max}(\text{kurts}) \leq 5.06) \rightarrow [\overline{\text{DBE}}](\text{median}(\text{mel8}=1194\text{Hz}) > 9.17\text{e-}5)$
 $\langle G \rangle (\text{std}^+(\text{mel2}=424\text{Hz}) \geq 0.01) \wedge [G](\text{max}(\text{kurts}) > 5.06) \wedge [G](\text{max}(\text{mel7}=1005\text{Hz}) > 8.51\text{e-}7)$

COPD

rule

$(\text{med}(\text{entrp}) < 0.21) \wedge (\text{min}(\text{mel12}=2383\text{Hz}) \geq -8.02) \wedge (\text{std}(\text{mel10}=1687\text{Hz}) \geq 0.15) \wedge (\text{mean}(\text{slope}) \geq -0.03)$
 $(\text{med}(\text{entrp}) \geq 0.23) \wedge (\text{min}(\text{mel14}=3366\text{Hz}) \geq -5.87)$
 $(\text{mean}(\text{crest}) < 120.66) \wedge (\text{qnt}(\text{mel6}=845\text{Hz}) \geq 1.73)$
 $(\text{mean}(\text{crest}) \geq 120.66) \wedge (\text{min}(\text{mfcc2}) < 1.55) \wedge (\text{med}(\text{mel13}=2832\text{Hz}) < 8.06\text{e-}5) \wedge (\text{mean}(\text{slope}) \geq -0.05)$
 $(\text{mean}(\text{crest}) \geq 120.66) \wedge (\text{min}(\text{mfcc2}) \geq 1.55) \wedge (\text{med}(\text{slope}) < -0.02) \wedge (\text{max}(\text{mfcc5}) < 0.83) \wedge (\text{max}(\text{mfcc6}) \geq 0.02)$
 $\langle G \rangle ((\text{max}(\text{mel1}=357\text{Hz}) \leq -3.83) \wedge \langle \overline{L} \rangle ((\text{max}(\text{mel13}=2832\text{Hz}) \geq -8.07) \wedge (\text{max}(\text{skwns}) \leq 1.57) \wedge \langle G \rangle (\text{std}^+(\text{entrp}) \geq 0.11)))$
 $\langle G \rangle ((\text{max}(\text{mel1}=357\text{Hz}) \leq -3.83) \wedge \langle \overline{L} \rangle ((\text{max}(\text{mel13}=2832\text{Hz}) \geq -8.07) \wedge (\text{max}(\text{skwns}) \leq 1.57) \wedge [\overline{\text{DBE}}](\text{std}^-(\text{cntrd}) \leq 13.24))) \wedge [G](\text{max}(\text{mel1}=357\text{Hz}) \leq -3.83) \rightarrow [\overline{L}](\text{max}(\text{mel13}=2832\text{Hz}) < -8.07)$
 $\langle G \rangle (\text{max}(\text{mel1}=357\text{Hz}) \leq -3.83) \wedge [G](\text{max}(\text{mel1}=357\text{Hz}) \leq -3.83) \rightarrow [\overline{L}](\text{max}(\text{mel13}=2832\text{Hz}) < -8.07)$
 $\langle G \rangle (\text{max}(\text{mel12}=2383\text{Hz}) \geq -4.46) \wedge [G](\text{max}(\text{mel1}=357\text{Hz}) > -3.83)$
 $[G](\text{max}(\text{mel1}=357\text{Hz}) > -3.83) \wedge [G](\text{max}(\text{mel12}=2383\text{Hz}) < -4.46) \wedge [G](\text{max}(\text{cntrd}) < 986.78) \wedge [G](\text{max}(\text{mel7}=1005\text{Hz}) < -2.36)$
 $\langle G \rangle ((\text{max}(\text{mel5}=711\text{Hz}) \leq 5.15\text{e-}5) \wedge \langle \text{AO} \rangle ((\text{min}(\text{cntrd}) \geq 984.58) \wedge \langle \text{AO} \rangle (\text{min}(\text{mfcc4}) \geq 0.44))) \wedge [G](\text{max}(\text{mel5}=711\text{Hz}) \leq 5.15\text{e-}5) \rightarrow [\text{AO}](\text{min}(\text{cntrd}) \geq 984.58)$
 $\langle G \rangle ((\text{max}(\text{mfcc6}) \geq 0.05) \wedge (\text{max}(\text{mfcc5}) \leq 0.24)) \wedge [G](\text{max}(\text{mel5}=711\text{Hz}) > 5.15\text{e-}5)$

URTI

rule

$(\text{mean}(\text{skwns}) < 17.49) \wedge (\text{mean}(\text{mel4}=599\text{Hz}) \geq -5.19) \wedge (\text{std}(\text{mel1}=357\text{Hz}) \geq 0.48) \wedge (3\text{ac}(\text{mel3}=504\text{Hz}) < 0.15) \wedge (\text{qnt}(\text{mel14}=3366\text{Hz}) \geq 2.10)$
 $(\text{mean}(\text{skwns}) \geq 17.49) \wedge (\text{min}(\text{mel1}=357\text{Hz}) < -3.17) \wedge (\text{mean}(\text{slope}) < -0.02) \wedge (\text{qnt}(\text{cntrd}) < 2.05)$
 $(\text{mean}(\text{skwns}) \geq 17.49) \wedge (\text{min}(\text{mel1}=357\text{Hz}) < -3.17) \wedge (\text{mean}(\text{slope}) < -0.02) \wedge (\text{qnt}(\text{cntrd}) \geq 2.05) \wedge (\text{max}(\text{mel10}=1687\text{Hz}) \geq -4.21) \wedge (\text{std}(\text{decrs}) < 2.77)$
 $(\text{mean}(\text{mfcc2}) < 3.53) \wedge (\text{med}(\text{mfcc2}) \geq 1.49) \wedge (\text{max}(\text{mfcc3}) \geq 0.26) \wedge (\text{qnt}(\text{kurts}) < 2.14) \wedge (\text{bsm}(\text{mfcc1}) \geq 10.5) \wedge (\text{bsd}(\text{mfcc6}) < 4.5)$
 $(\text{mean}(\text{mfcc2}) \geq 3.53) \wedge (\text{mean}(\text{mel3}=504\text{Hz}) \geq 9.25\text{e-}5) \wedge (\text{max}(\text{mel13}=2832\text{Hz}) < 1.44\text{e-}6)$
 $\langle G \rangle (\text{max}(\text{flatn}) \geq 0.14) \wedge [G](\text{max}(\text{flatn}) \geq 0.14) \rightarrow [L](\text{max}(\text{flatn}) < 0.28) \wedge [G](\text{max}(\text{flatn}) \geq 0.14) \rightarrow [\overline{L}](\text{sumdiagcov}^-(\text{flatn}) > 0.01) \wedge [G](\text{max}(\text{flatn}) \geq 0.14) \rightarrow [\overline{L}](\text{sumdiagcov}^-(\text{flatn}) > 0.01)$
 $\langle G \rangle ((\text{max}(\text{mel7}=1005\text{Hz}) \leq -4.79) \wedge \langle \text{AO} \rangle (\text{sumdiagcov}^-(\text{entrp}) \leq 0.04)) \wedge [G](\text{max}(\text{flatn}) < 0.14) \wedge [G](\text{max}(\text{mel7}=1005\text{Hz}) \leq -4.79) \rightarrow [\overline{\text{DBE}}](\text{max}(\text{mel8}=1194\text{Hz}) < 0.19)$
 $\langle G \rangle ((\text{max}(\text{mfcc2}) \geq 5.02) \wedge [\overline{\text{AO}}](\text{std}^-(\text{sprd}) \leq 1.03))$
 $\langle G \rangle ((\text{max}(\text{mfcc2}) \geq 5.02) \wedge (\text{mean}(\text{flatn}) \geq 0.02) \wedge \langle G \rangle (\text{std}^+(\text{entrp}) \geq 0.10)) \wedge [G](\text{max}(\text{mfcc2}) \geq 5.02) \rightarrow [\overline{\text{AO}}](\text{std}^-(\text{sprd}) > 1.03) \wedge [G](\text{max}(\text{mfcc2}) \geq 5.02) \rightarrow [\overline{\text{AO}}](\text{std}^-(\text{sprd}) > 1.03)$

interesting_rules_Pneumonia

$\langle G \rangle (\max(\text{skwns}) \leq 1.13) \wedge [G] (\max(\text{mfcc2}) < 5.02) \wedge [G] (\max(\text{mfcc4}) > -0.03) \wedge [G] (\text{std}^+(\text{skwns}) < 3.45) \wedge [G] (\text{std}^+(\text{mfcc4}) < 0.61) \wedge [G] ((\max(\text{skwns}) \leq 1.13) \wedge (\max(\text{mfcc2}) < 5.02) \wedge (\max(\text{mfcc4}) > -0.03) \wedge (\text{std}^+(\text{skwns}) < 3.45) \wedge (\text{std}^+(\text{mfcc4}) < 0.61))$

Bronchiolitis

rule

$(\text{mean}(\text{kurts}) < 5761.28) \wedge (\text{med}(\text{mel6}=845\text{Hz}) < -3.25) \wedge (\text{mean}(\text{entrp}) < 0.21) \wedge (\max(\text{mel1}=357\text{Hz}) \geq -2.47) \wedge (\text{mean}(\text{skwns}) < 15.58) \wedge (\text{std}(\text{mel3}=357\text{Hz}) < 1.23\text{e-}9)$

$(\text{mean}(\text{kurts}) < 5761.28) \wedge (\text{med}(\text{mel6}=845\text{Hz}) < -3.25) \wedge (\text{mean}(\text{entrp}) \geq 0.21) \wedge (\min(\text{skwns}) < 3.35)$

$\text{mean}(\text{kurts}) \geq 5761.28$

$(\max(\text{mfcc2}) < 6.36) \wedge (\text{med}(\text{mfcc5}) < 0.11)$

$(\max(\text{mfcc2}) < 6.36) \wedge (\text{med}(\text{mfcc5}) \geq 0.11) \wedge (\text{mean}(\text{crest}) < 134.78) \wedge (\text{qnt}(\text{mel6}=845\text{Hz}) \geq 1.85) \wedge (\text{mean}(\text{mel4}=599\text{Hz}) \geq 1.47\text{e-}5)$

$(\max(\text{mfcc2}) < 6.36) \wedge (\text{med}(\text{mfcc5}) \geq 0.11) \wedge (\text{mean}(\text{crest}) \geq 134.78) \wedge (\text{med}(\text{mfcc2}) < 2.03)$

$(\max(\text{mfcc2}) \geq 6.36) \wedge (\text{med}(\text{skwns}) < 15.43)$

$\langle G \rangle ((\max(\text{crest}) \geq 39.35) \wedge \langle \text{AO} \rangle ((\text{median}(\text{flux}) \geq 0.21) \wedge \langle \text{AO} \rangle ((\min(\text{mel4}=599\text{Hz}) \leq -5.09) \wedge (\max(\text{mel8}=1194\text{Hz}) \geq -5.55)))) \wedge [G] ((\max(\text{crest}) \geq 39.35) \wedge (\text{std}(\text{mel3}=357\text{Hz}) < 1.23\text{e-}9))$

$[G] (\max(\text{crest}) < 39.35) \wedge [G] (\text{sumdiagcov} \square (\text{entrp}) > 0.00)$

$\langle G \rangle ((\max(\text{crest}) \geq 39.35) \wedge \langle \text{AO} \rangle ((\text{mean}(\text{mel1}=357\text{Hz}) \geq 0.00) \wedge (\text{mean}(\text{mfcc1}) \leq -19.99))) \wedge [G] ((\max(\text{crest}) \geq 39.35) \rightarrow [\text{AO}] ((\text{mean}(\text{mel1}=357\text{Hz}) \geq 0.00) \wedge (\text{std}(\text{mel3}=357\text{Hz}) < 1.23\text{e-}9)))$

$[G] (\max(\text{crest}) < 39.35) \wedge [G] (\text{std} \square (\text{mel11}=2005\text{Hz}) > 1.23\text{e-}9)$

interesting_rules_Pneumonia

| consequent | coverage | confidence | lift | natoms | type | condition |
|------------|----------|------------|------|--------|---------------|-----------|
| Pneumonia | 0.17 | 1 | 2.2 | 4 | propositional | Pneumonia |
| Pneumonia | 0.15 | 0.73 | 1.61 | 7 | propositional | Pneumonia |
| Healthy | 0.12 | 0.92 | 1.68 | 4 | propositional | Pneumonia |
| Healthy | 0.22 | 0.95 | 1.75 | 3 | propositional | Pneumonia |
| Healthy | 0.37 | 0.86 | 1.75 | 4 | propositional | Pneumonia |
| Pneumonia | 0.27 | 0.96 | 1.91 | 5 | propositional | Pneumonia |
| Healthy | 0.17 | 1 | 2.02 | 2 | modal | Pneumonia |
| Pneumonia | 0.28 | 0.93 | 1.84 | 5 | modal | Pneumonia |
| Healthy | 0.4 | 0.92 | 1.67 | 4 | modal | Pneumonia |
| Healthy | 0.12 | 0.58 | 1.05 | 12 | modal | Pneumonia |
| Pneumonia | 0.25 | 0.96 | 2.15 | 4 | modal | Pneumonia |

| consequent | coverage | confidence | lift | natoms | type | condition |
|----------------|----------|------------|------|--------|---------------|----------------|
| Bronchiectasis | 0.5 | 1 | 2 | 1 | propositional | Bronchiectasis |
| Healthy | 0.5 | 1 | 2 | 1 | propositional | Bronchiectasis |
| Healthy | 0.61 | 1 | 1.64 | 1 | propositional | Bronchiectasis |
| Bronchiectasis | 0.39 | 1 | 2.57 | 1 | propositional | Bronchiectasis |
| Healthy | 0.17 | 1 | 2 | 5 | modal | Bronchiectasis |
| Bronchiectasis | 0.17 | 1 | 2 | 8 | modal | Bronchiectasis |
| Bronchiectasis | 0.28 | 0.8 | 1.6 | 3 | modal | Bronchiectasis |
| Healthy | 0.17 | 0.67 | 1.33 | 2 | modal | Bronchiectasis |
| Healthy | 0.44 | 0.94 | 1.69 | 5 | modal | Bronchiectasis |
| Bronchiectasis | 0.14 | 1 | 2.25 | 3 | modal | Bronchiectasis |
| Bronchiectasis | 0.17 | 0.83 | 1.88 | 3 | modal | Bronchiectasis |

| consequent | coverage | confidence | lift | natoms | type | condition |
|------------|----------|------------|------|--------|---------------|-----------|
| Healthy | 0.24 | 0.96 | 1.86 | 4 | propositional | COPD |
| COPD | 0.27 | 0.97 | 2.01 | 2 | propositional | COPD |
| COPD | 0.29 | 0.94 | 1.64 | 2 | propositional | COPD |
| Healthy | 0.32 | 0.97 | 2.27 | 4 | propositional | COPD |
| COPD | 0.16 | 0.89 | 1.55 | 5 | propositional | COPD |
| Healthy | 0.32 | 0.94 | 1.92 | 4 | modal | COPD |
| Healthy | 0.1 | 0.91 | 1.85 | 13 | modal | COPD |
| COPD | 0.12 | 1 | 1.96 | 3 | modal | COPD |
| COPD | 0.15 | 1 | 1.96 | 2 | modal | COPD |
| COPD | 0.13 | 0.93 | 1.82 | 4 | modal | COPD |
| Healthy | 0.31 | 0.97 | 1.84 | 7 | modal | COPD |
| COPD | 0.25 | 0.96 | 2.04 | 3 | modal | COPD |

| consequent | coverage | confidence | lift | natoms | type | condition |
|------------|----------|------------|------|--------|---------------|-----------|
| URTI | 0.12 | 0.9 | 1.94 | 5 | propositional | URTI |
| Healthy | 0.12 | 0.6 | 1.12 | 4 | propositional | URTI |
| Healthy | 0.12 | 0.7 | 1.31 | 8 | propositional | URTI |
| Healthy | 0.1 | 0.78 | 1.49 | 6 | propositional | URTI |
| URTI | 0.16 | 0.86 | 1.8 | 3 | propositional | URTI |
| Healthy | 0.14 | 0.5 | 1.08 | 7 | modal | URTI |
| URTI | 0.24 | 0.9 | 1.69 | 7 | modal | URTI |
| URTI | 0.1 | 0.78 | 1.37 | 2 | modal | URTI |
| URTI | 0.14 | 0.83 | 1.46 | 10 | modal | URTI |

interesting_rules_Pneumonia

| | | | | | |
|-------------------|-----------------|-------------------|-------------|-----------------|---------------|
| Healthy | 0.12 | 0.5 | 1.16 | 9 modal | URTI |
| | | | | | |
| consequent | coverage | confidence | lift | natoms | type |
| Bronchiolitis | 0.11 | 1 | 2.07 | 7 propositional | Bronchiolitis |
| Bronchiolitis | 0.25 | 0.93 | 1.93 | 4 propositional | Bronchiolitis |
| Healthy | 0.27 | 0.87 | 1.67 | 1 propositional | Bronchiolitis |
| Healthy | 0.18 | 0.9 | 1.63 | 2 propositional | Bronchiolitis |
| Bronchiolitis | 0.23 | 0.77 | 1.72 | 5 propositional | Bronchiolitis |
| Healthy | 0.12 | 1 | 1.81 | 4 propositional | Bronchiolitis |
| Bronchiolitis | 0.16 | 0.78 | 1.74 | 2 propositional | Bronchiolitis |
| Bronchiolitis | 0.3 | 0.88 | 1.83 | 8 modal | Bronchiolitis |
| Healthy | 0.16 | 1 | 1.93 | 2 modal | Bronchiolitis |
| Bronchiolitis | 0.25 | 0.93 | 1.63 | 7 modal | Bronchiolitis |
| Healthy | 0.21 | 0.83 | 1.94 | 2 modal | Bronchiolitis |
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| scale | featset |
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| semitones | () |
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scale **featset**

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