Figure 2: Effect of two features’ combination on prediction by surgical departments

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| **1** | (‘3+ doctors’, ‘no match in the count (2)’) |
| **2** | ('1 doctor', 'signature of all staff members (nurses, anesthesiologist, surgeon)') |
| **3** | (‘female’, ‘no match in the count (2)’) |
| **4** | ('1 nurse', 'verification of procedure type to patients file') |
| **5** | ('no match in the count (1)', 'signature of all staff members (nurses, anesthesiologist, surgeon)') |
| **6** | ('no match in the count (2)', 'patient states full name and second identifier (loud)') |
| **7** | ('no match in the count (2)', 'patient readiness for anesthesia') |
| **8** | ('no match in the count (2)', 'signature of all staff members (nurses, anesthesiologist, surgeon)') |
| **9** | ('no match in the count (2)', 'signed blood product consent') |
| **10** | ('no match in the count (2)', 'signed surgical consent') |
| **11** | ('no match in the count (2)', 'signed anesthesia consent') |
| **12** | ('no match in the count (2)', 'verification of anesthesia's type to patients file') |
| **13** | ('no match in the count (2)', 'verification of procedures type to patients file') |
| **14** | ('no match in the count (2)', 'verification of execution of special medical orders given prior to surgery (antibiotics, special medications etc)') |
| **15** | ('no match in the count (2)', 'verify procedure's type to patient's file') |
| **16** | ('1 nurse', 'time out is performed with participation of all staff members') |
| **17** | ('3+ doctors', 'no match in the count (2)') |
| **18** | ('3-4 hours', 'no match in the count (2)') |
| **19** | ('big hospital', 'no match in the count (2)') |
| **20** | ('age 0-10', 'no match in the count (2)') |
| **21** | ('age 60-70', 'no match in the count (2)') |
| **22** | ('small hospital', 'no match in the count (2)') |
| **23** | ('2 nurses', 'no match in the count (2)') |
| **24** | ('female', 'no match in the count (2)') |
| **25** | ('age 50-60', 'no match in the count (2)') |
| **26** | ('big hospital', 'no match in the count (2)') |
| **27** | ('location', 'no match in the count (2)') |
| **28** | ('male', 'no match in the count (2)') |
| **29** | ('medium hospital', 'no match in the count (2)') |
| **30** | ('more than 4 hours', 'no match in the count (2)') |
| **31** | ('no match in the count (2)', 'big hospital') |
| **32** | ('1 nurse', 'availability of blood products') |
| **33** | ('age 40-50', 'no match in the count (2)') |
| **34** | ('medium hospital', 'no match in the count (2)') |
| **35** | ('small hospital', 'no match in the count (2)') |
| **36** | ('1 doctor', 'anesthesia device intact') |
| **37** | ('1 doctor', 'availability of intact equipment needed for surgery') |
| **38** | ('1 nurse', 'anesthesia device intact') |
| **39** | ('1 nurse', 'anesthesia evaluation') |
| **40** | ('1 nurse', 'anesthesia evaluation form') |
| **41** | ('1 nurse', 'availability of intact equipment ') |
| **42** | ('1 nurse', 'availability of intact equipment needed for surgery') |

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| **43** | ('1 nurse', 'documentation of allergy') |
| **44** | ('age 10-20', 'no match in the count (2)') |
| **45** | ('1 nurse', 'verify type of procedure in surgical consent') |
| **46** | ('1 nurse', 'documentation of medical history (1)') |
| **47** | ('male', 'no match in the count (1)') |
| **48** | ('medium hospital', 'signed blood product consent') |
| **49** | ('1 nurse', 'identification w/guardian, if needed') |
| **50** | ('count is incorrect', 'count starts after removing all items from surgical area') |
| **51** | ('age 10-20', 'count is incorrect') |
| **52** | ('1-2 hours', 'no match in the count (1)') |
| **53** | ('count includes all items, devices and equipment', 'no match in the count (1)') |
| **54** | ('2 nurses', 'no match in the count (1)') |
| **55** | ('3+ doctors', 'no match in the count (1)') |
| **56** | ('small hospital', 'verification of anesthesia type to patients file') |
| **57** | ('small hospital', 'verification of execution of special medical orders given prior to surgery') |
| **58** | ('small hospital', 'patient states full name and second identifier (loud)') |
| **59** | ('no match in the count (2)', 'surgical sign matches desired surgery in patients file') |
| **60** | ('availability of special medications', 'no match in the count (2)') |
| **61** | ('availability of blood products', 'no match in the count (2)') |
| **62** | ('imaging results', 'no match in the count (2)') |
| **63** | ('anesthesia evaluation', 'no match in the count (2)') |
| **64** | ('availability of intact equipment needed for surgery', 'no match in the count (2)') |
| **65** | ('documentation of allergy ', 'no match in the count (2)') |
| **66** | ('documentation of infectious disease (1)', 'no match in the count (2)') |
| **67** | ('documentation of medical history (1)', 'no match in the count (2)') |
| **68** | ('documentation of physical exam (2)', 'no match in the count (2)') |
| **69** | ('laboratory result(2)', 'no match in the count (2)') |
| **70** | ('name and second identifier verified with bracelet (1)', 'no match in the count (2)') |
| **71** | ('no match in the count (2)', 'patient says full name and second identifier (loud)') |
| **72** | ('no match in the count (2)', 'signature of staff member') |
| **73** | ('no match in the count (2)', 'verify procedure type in patients file') |
| **74** | ('no match in the count (2)', 'verify procedures type with patient') |
| **75** | ('no match in the count (2)', 'verify type of procedure in anesthesia consent') |
| **76** | ('no match in the count (2)', 'verify type of procedure in surgical consent') |
| **77** | ('availability of blood products', 'medium hospital') |
| **78** | ('availability of blood products', 'male') |
| **79** | ('availability of blood products', 'up to 1 hour') |