**Supplementary 1.** Univariate logistic regression analysis for the failure and success of I-131 treatment

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| **Factors** | **Failure of I-131 Treatment (n=15)** | **Success of I-131 Treatment (n=74)** |
| Age (mean ± SD) | 48.46 ± 15.42 | 48.84 ± 12.89 |
| Thyroid uptake % (mean ± SD) | 65.4 ± 19.77 | 61.32 ± 24.73 |
| I-131 dosage in mCi [Millicurie] (mean ± SD) | 19.02 ± 5.25 | 10.6 ± 2.36 |
| Gender, n%  |
|  Female | 12 (80%) | 62 (83.8%) |
|  Male | 3 (20%) | 12 (16.2%) |
| Ethnicity, n % |
|  Declined | 1 (6.7%) | 1 (1.4%) |
|  Ecuadorian | 1 (6.7%) | - |
|  Filipino | - | 2 (2.7%) |
|  Guatemalan | - | 1 (1.4%) |
|  Mexican/Mexican-American | 1 (6.7%) | 3 (4.1%) |
|  Non-Hispanic | 5 (33.3%) | 42 (56.8%) |
|  Other Hispanic | - | 1 (1.4%) |
|  Chinese  | - | 1 (1.4%) |
|  Salvadoran | - | 2 (2.7%) |
|  Unknown | 7 (46.7%) | 21 (28.4%)  |
| Diagnosis, n % |
|  Graves' disease | 9 (60%) | 51 (68.9%) |
|  Graves' disease with thyrotoxicosis | - | 1 (1.4%) |
|  Thyrotoxicosis | - | 2 (2.7%) |
|  Hyperthyroidism | - | 2 (2.7%) |
|  Multinodular goitre or Thyroid adenoma | 1 (6.7%) | 3 (4.1%) |
|  Toxic multinodular goitre | 2 (13.3%) | 7 (9.5%) |
|  Subclinical hyperthyroidism | - | 1 (1.4%) |
|  Questionable toxic thyroid nodule | - | 1 (1.4%) |
|  Toxic thyroid nodule | 3 (20%) | 6 (8.1%) |
| Thyroid uptake (mean) % | 6.7% | 1.4% |