# Package 'healthfinance'

October 13, 2022

Title Financial Projections and Planning for Health Care Practices

Version 0.1.0

**Description** Provides a shiny interface for a free, open-source managerial accounting-like system for health care practices. This package allows health care administrators to project revenue with monthly adjustments and procedure-specific boosts up to a 3-year period. Granular data (patient-level) to aggregated data (department- or hospital-level) can all be used as valid inputs provided historical volume and revenue data is available. For more details on managerial accounting techniques, see Brewer et al. (2015, ISBN:9780078025792).

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**Encoding** UTF-8

LazyData true

**Depends** R (>= 2.10)

**Imports** ggplot2 (>= 3.3), lubridate (>= 1.7), readr (>= 1.3), scales (>= 1.1), shiny (>= 1.4), tibble (>= 3.0)

RoxygenNote 7.1.1

URL https://rrrlw.github.io/healthfinance/

BugReports https://github.com/rrrlw/healthfinance/issues

**Suggests** testthat (>= 2.3)

#### NeedsCompilation no

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**Repository** CRAN

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calc\_rev

Calculate 3-year Revenue for Healthcare Practice

#### Description

Allows calculation of projected revenue for upcoming 36 months along with target revenue for corresponding months.

#### Usage

```
calc_rev(
   procedures,
   growth = rep(0, 3),
   comp_ratio = rep(1, 4),
   ins_prop = rep(0.25, 4),
   tech_fee_mult = 10,
   month_prop = rep(1/12, 12),
   restoration = rep(1, 36),
   boost_amt = numeric(0),
   boost_proc = list(),
   boost_start = integer(0),
   boost_end = integer(0)
)
```

#### Arguments

procedures	df or tibble containing 3 columns (name, annual volume, annual revenue)
growth	numeric vector of length 3; c(1, 10, 100) would represent expected growth of 1 percent in year 1, 10 percent in year 2 (compared to year 1), and 100 percent in year 3 (compared to year 2)
comp_ratio	numeric vector of length 4 containing compensation ratio (on average) of follow- ing insurances relative to Medicare: Medicare (should be 1), Medicaid, Com- mercial (private), and Other (self-pay, bad debt)
ins_prop	numeric vector of length 4 containing proportion of patients with following types of insurance: Medicare, Medicaid, Commercial (private), and Other (self-pay, bad debt); sum of this vector should equal unity
<pre>tech_fee_mult</pre>	technical fee as a multiple of procedural fee
month_prop	proportion of revenue expected in each of 12 months of the year

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restoration	proportion of expected revenue expected in each of 36 upcoming months due to acute economic event being modeled
boost_amt	boost amount for up to 8 procedure sets
boost_proc	list of boost procedures for each of 8 boosts above
boost_start	start month (between 1 and 36, inclusive) for each of 8 boosts above
boost_end	end month (between 1 and 36, inclusive) for each of 8 boosts above

#### Value

list with 2 numeric vectors of length 36 each

#### Examples

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Financial Projections and Planning for Healthcare Practices

#### Description

Provides a shiny interface for a free, open-source managerial accounting-like system for healthcare practices. This package allows healthcare administrators to project revenue with monthly adjustments and procedure-specific boosts up to a 3-year period. Granular data (patient-level) to aggregated data (department- or hospital-level) can all be used as valid inputs provided historical volume and revenue data is available.

#### hfin

## Description

Opens the shiny interface for the health finance functionality provided by the healthfinance package. The interface currently consists of 3 tabs: (1) import; (2) model; and (3) export.

#### Usage

hfin()

#### Value

shiny application object

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