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% Christopher Brant   ENGR 1410-625   2/16/16
% Function for Assignment A10

function[D, V, DNum] = RecDose(MassPat, MassTab, DoseVol, Gender,
    DoseType)

g = 9.8;

PatW = (MassPat * g) * 0.225;

TabDen = (MassTab / 1000) / DoseVol;

if strcmp(Gender, 'M') == 1
    SF = 1;
else
    SF = 0.7;
end

if strcmp(DoseType, 'T') == 1
    DoseCalc = (MassPat * SF) / (3500 * TabDen * DoseVol);
    D = ceil(DoseCalc);
    V = 0;
    DNum = 0;
elseif strcmp(DoseType, 'L') == 1
    D = PatW / (28 * DoseVol);
    V = DoseVol;
    DNum = D / V;
end
```

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