

# データベースアプリの入手

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## Free Educational CD Downloads

The following files are downloadable installation files for CDs of dose coefficients available here at no cost. They can be used by teachers, students, and those interested radiological protection together with their parent ICRP Publications. Please note that while we encourage you to download and use these CDs, ICRP retains copyright and you must not edit or attempt to repackage these materials for sale.

These downloads replace ICRP CD1, CD2 and CD3 which are now out of print. These free downloads are for Windows operating systems, including Win 7, on 32 and 64 bit machines.

**ICRP Database of Dose Coefficients: Workers and Members of the Public; Ver. 3.0**  
Available as a Windows setup file named **ICRPDOSE\_setup.exe.**

ICRP Database of Dose Coefficients: Embryo and Fetus; Ver. 2.0

※ Windows用です。講師の環境ではWindows 10でも動作することを確認しています。

ダウンロードしてインストール

# データベースアプリの実行

1. 核種を選ぶ

2. 対象と年齢を選ぶ (※1)

ICRP Database of Dose Coefficients: Workers and Members of the Public

File General Info ICRP 68 ICRP 72 Biokinetics Help

**INTAKE**

Radionuclides

Radionuclide (eg Co-60): Cs-137

Z	Element	Symbol	A	Half-life
55	Caesium	Cs	132	6.475d
55	Caesium	Cs	134	2.062y
55	Caesium	Cs	134m	2.90h
55	Caesium	Cs	135	2.3E6y
55	Caesium	Cs	135m	53m
55	Caesium	Cs	137	30.0y

**Subject(s)**

Ages at intake: Adult  
15 year old  
10 year old  
5 year old

Adult Worker  
 Public

**Intake Route(s)**

Aerosol size (AMAD): 0.03 microns  
0.1 microns  
0.3 microns  
1.0 microns

Ingestion  
 Inhalation

**OUTPUT**

Number of Periods: All (selected) Five Custom

Organs / Tissues: All (selected) with wT Custom

1 day  
7 days  
30 days  
1 year

Adrenals  
Bladder Wall  
Bone Surface  
Brain

Batch File: Load Save Delete Command Line: Add

Caesium (Cs-137), NINHL INGT ENVI AGE(A,5y) TEN FULL

Run

Status: Idle

3. 経口摂取か吸入  
なのか選ぶ (※2)

4. Addで命令を  
実行行列に追加

5. Runでデータ  
が表示される

※1 対象はPublicに✓、年齢は複数選択可能

※2 吸入 (Inhalation) の場合、吸入する粒子径も選ぶ

# 実行結果

組織別の等価線量が縦に並び、最下行が実効線量

※成人は摂取後50年、  
未成年は70歳まで

左から順に摂取後一定期間の線量が並び、右端が生涯積算被ばく量(※)

Dose Coefficients (Sv/Bq) - Viewer

File Help

Cs-137, adult member of the public  
Ingestion: f1 = 1.0  
Highest committed equivalent dose coefficient: Colon, 1.5E-08 Sv/Bq  
Remainder formulation: default

Time after intake	1 day	7 days	30 days	1 year	5 years	10 years	20 years	30 years	45 years	50 years
Adrenals	9.7E-11	6.3E-10	2.4E-09	1.3E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08
Bladder Wall	1.1E-10	7.4E-10	2.6E-09	1.3E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08
Bone Surface	9.2E-11	6.2E-10	2.4E-09	1.2E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08
Brain	7.8E-11	5.3E-10	2.1E-09	1.1E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08
Breast	7.5E-11	5.1E-10	2.0E-09	1.0E-08	1.1E-08	1.1E-08	1.1E-08	1.1E-08	1.1E-08	1.1E-08
GI-Tract										
Oesophagus	8.7E-11	5.9E-10	2.3E-09	1.2E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08
St Wall	4.2E-10	9.2E-10	2.6E-09	1.2E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08
SI Wall	1.1E-10	6.5E-10	2.5E-09	1.3E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08
ULI Wall	1.4E-10	7.8E-10	2.6E-09	1.3E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08
LLI Wall	1.5E-10	1.1E-09	3.2E-09	1.5E-08	1.7E-08	1.7E-08	1.7E-08	1.7E-08	1.7E-08	1.7E-08
Colon	1.5E-10	9.0E-10	2.9E-09	1.4E-08	1.5E-08	1.5E-08	1.5E-08	1.5E-08	1.5E-08	1.5E-08
Kidneys	9.3E-11	6.1E-10	2.4E-09	1.2E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08
Liver	9.2E-11	6.1E-10	2.4E-09	1.2E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08
Muscle	8.5E-11	5.7E-10	2.2E-09	1.1E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08
Ovaries	9.9E-11	6.6E-10	2.5E-09	1.3E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08
Pancreas	1.1E-10	6.6E-10	2.5E-09	1.3E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08
Red Marrow	8.8E-11	5.9E-10	2.3E-09	1.2E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08
Respiratory Tract										
ET Airways	8.7E-11	5.9E-10	2.3E-09	1.2E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08
Lungs	8.6E-11	5.7E-10	2.2E-09	1.1E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08
Skin	7.2E-11	4.8E-10	1.9E-09	9.6E-09	1.1E-08	1.1E-08	1.1E-08	1.1E-08	1.1E-08	1.1E-08
Spleen	9.9E-11	6.2E-10	2.4E-09	1.2E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08
Testes	8.4E-11	5.7E-10	2.2E-09	1.1E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08
Thymus	8.7E-11	5.9E-10	2.3E-09	1.2E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08
Thyroid	8.7E-11	5.9E-10	2.3E-09	1.2E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08
Uterus	9.8E-11	6.6E-10	2.5E-09	1.3E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08	1.4E-08
Remainder	8.5E-11	5.7E-10	2.2E-09	1.1E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08	1.2E-08
Effective dose	1.4E-10	6.8E-10	2.4E-09	1.2E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08	1.3E-08

Result 1 of 2    Print    Save    Close

複数年齢を選択して実行した場合、この矢印で年齢を切り替える