

Care Intelligence Engine - API Reference

Healthcare AI Platform - Complete API Documentation

Platform Overview

The **Care Intelligence Engine** provides AI-powered healthcare analytics through four specialized APIs:

API	Purpose	Model
Hospice Risk	Predict hospice transition risk	hh-hos-risk-v4
PDGM	Optimize PDGM billing & reduce LUPA risk	hh-pdgm-opt
Optimization		
Hospice LOS	Predict patient length of stay	hos-los-v2
Recertification	Assess recertification timing & audit risk	hos-recert-opt

Base URLs

Environment	URL
Production Gateway	https://apim-hh2hos-northcentralus.azure-apim.com
Developer Portal	https://apim-hh2hos-northcentralus.developer.azure-apim.com

Authentication

All APIs require a subscription key:

Ocp-Apim-Subscription-Key: YOUR_SUBSCRIPTION_KEY

Get Your Subscription Key

1. Visit Developer Portal
 2. Sign in with Microsoft Entra ID
 3. Subscribe to a product tier
 4. Copy your key from Profile → Subscriptions
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API Endpoints Summary

Hospice Risk API

POST /hospice-risk/predict

Predict hospice transition risk for home health patients.

Documentation: HOSPICE_RISK_API_SCHEMA.md

PDGM Optimization API

POST /pdgm/analyze

Analyze PDGM episodes for LUPA risk and billing optimization.

Documentation: PDGM_OPTIMIZATION_API_SCHEMA.md

Hospice LOS API

POST /hospice-los/predict

Predict hospice patient length of stay for discharge planning.

Documentation: HOSPICE_LOS_API_SCHEMA.md

Recertification API

POST /recertification/assess

Assess recertification timing, audit risk, and compliance status.

Documentation: RECERTIFICATION_API_SCHEMA.md

Quick Start

Python Example

```
import requests
```

```
BASE_URL = "https://apim-hh2hos-northcentralus.azure-api.net"  
SUBSCRIPTION_KEY = "YOUR_SUBSCRIPTION_KEY"
```

```
headers = {  
    "Content-Type": "application/json",  
    "Ocp-Apim-Subscription-Key": SUBSCRIPTION_KEY
```

```

}

# Hospice Risk Prediction
response = requests.post(
    f"{BASE_URL}/hospice-risk/predict",
    headers=headers,
    json={
        "messages": [{"role": "user", "content": "Patient data here..."}],
        "max_tokens": 500
    }
)

# PDGM Analysis
response = requests.post(
    f"{BASE_URL}/pdgm/analyze",
    headers=headers,
    json={
        "messages": [{"role": "user", "content": "Episode data here..."}],
        "max_tokens": 500
    }
)

# Hospice LOS Prediction
response = requests.post(
    f"{BASE_URL}/hospice-los/predict",
    headers=headers,
    json={
        "messages": [{"role": "user", "content": "Patient data here..."}],
        "max_tokens": 500
    }
)

# Recertification Assessment
response = requests.post(
    f"{BASE_URL}/recertification/assess",
    headers=headers,
    json={
        "messages": [{"role": "user", "content": "Certification data here..."}],
        "max_tokens": 500
    }
)

```

Product Tiers & Rate Limits

Tier	Monthly Cost	API Calls	Best For
Starter	\$500/mo	1,000/month	Pilot programs, small agencies
Standard	\$4,999/mo	Unlimited*	Small to mid-size agencies
Professional	\$9,999/mo	Unlimited*	Growing agencies ready to scale
Enterprise	Custom	Unlimited*	Health systems, large organizations

*Fair use policy applies. See <https://quantumtechit.ai/pricing/> for details.

Use Cases by API

Hospice Risk API

- Identify patients appropriate for hospice transition
- Support care coordination decisions
- Reduce unnecessary hospitalizations

PDGM Optimization API

- Prevent LUPA penalties
- Optimize visit scheduling
- Maximize appropriate reimbursement

Hospice LOS API

- Plan discharge and care transitions
- Allocate resources efficiently
- Support family education and planning

Recertification API

- Ensure compliant recertifications
- Identify audit risk before it occurs
- Streamline IDG review process

Security & Compliance

- **HIPAA Compliant** - All data encrypted in transit and at rest

- **Enterprise Security** - Comprehensive audit logging and controls
- **Azure Private Endpoints** - Available for Enterprise tier
- **Audit Logging** - Complete request/response logging

Model Performance

API	Accuracy	Data Size
Hospice Risk	94%+	
PDGM Optimization	92%+	
Hospice LOS	85%+	
Recertification	99.8%	

Support

Resource	Details
Developer Portal	https://apim-hh2hos-northcentralus.developer.azure-api.net
Technical Support	ciesupport@quantumtechit.ai
Engineering Support	cieengineering@quantumtechit.ai
Phone	(847) 871-9691
Support Portal	https://quantumtechit.ai/contact/
Privacy Policy	https://quantumtechit.ai/privacy/
Pricing	https://quantumtechit.ai/pricing/

Care Intelligence Engine - Transforming Healthcare with AI