





WOMAN and MAN

最新科学が読み解く性



第2回

何が違う？
なぜ違う？



松本和也

命にかかわる

NHK G

男女の違い





ロサンゼルス



シャーロット・ボーンステインさん(60)

シャーロットさんの診断結果 (発作前)

Patient: Simmons, Charlotte

Age/Sex: 20/F

Series Date: 8/27/98

CERVICAL CTFLR

Frontal, lateral, and AP spot views are obtained. Viewed frontally a right list to the T level identifies a mild hypokyphosis in association with asymmetric anterior head carriage. A demonstration of C1 on T1 is noted.

Overall skull density is mildly asymmetric. The C5 vertebral body appears widened, superior of the bodies. The C7 vertebral body appears to be diminished in height and demonstrates superior endplate. The C7 vertebral foramina are well demonstrated, but right superior hypokyphosis. The vertebral joint spaces are well demonstrated. The facet joint are well demonstrated. Minimal apical pleural capping is noted bilaterally.

IMPRESSIONS

1. Schmorl's (or Blum) (C) vertebra, which may represent a benign degenerative or possibly congenital is lightly advised.
2. Subaxial a "Zahn's fracture" at C7, possibly representing osteoporotic collapse of a fracture.
3. Mild asymmetric.
4. Minimal asymmetric pleural capping.
5. Asymmetric apical C7 T.P.
6. Minimal asymmetric pleural capping.

シャーロットさんの診断結果

(発作前)

no defects to suggest isch

狭心症などのおそれなし

abnormalities.

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冠動脈







シャーロット・ボーンステインさん(60)

女性の狭心症^{hen} 調査報告

... from a large series of women enrolled in the Women's Ischemia Syndrome Evaluation (WISE) study. Previous studies have suggested that women with chest pain have a lower prevalence of significant coronary artery disease (CAD) compared with men. Detailed analyses of angiographic findings relative to risk factors and outcomes are not available. All coronary angiograms were reviewed in a central core laboratory. Quantitative measurement of percent stenosis was used to assess the presence and severity of disease. Of the 323 women enrolled in the pilot phase, 34% had no detectable, 23% had measurable but minimal, and 43% had significant (>50% diameter stenosis) CAD. Of those with significant CAD, most had multivessel disease. Features suggesting

(MI), current hormone replacement therapy, and history of presence of significant disease. The rate of hospitalization for a cardiac cause was significantly higher frequently in those women with significant CAD compared with no CAD. Common findings of no angiographically detectable disease in asymptomatic women at coronary angiography suggest the need for better clinical recognition of myocardial ischemia. Women with minimal CAD have lower rates of rehospitalization and mortality compared with those and thus should not be considered low risk. Excerpta Medica, Inc.

(Am J C

The design, objectives, and methods of the Women's Ischemia Syndrome Evaluation (WISE) study have been previously published.¹ Briefly, its purpose is to improve diagnostic testing for ischemic heart disease in women and to study pathophysiologic mechanisms and management in women with chest pain.

analysis of coronary angiograms in women with suspected myocardial ischemia to define the prevalence, extent, and severity of coronary artery disease and to identify predictors of those with and without significant CAD.

女性の狭心症 調査報告

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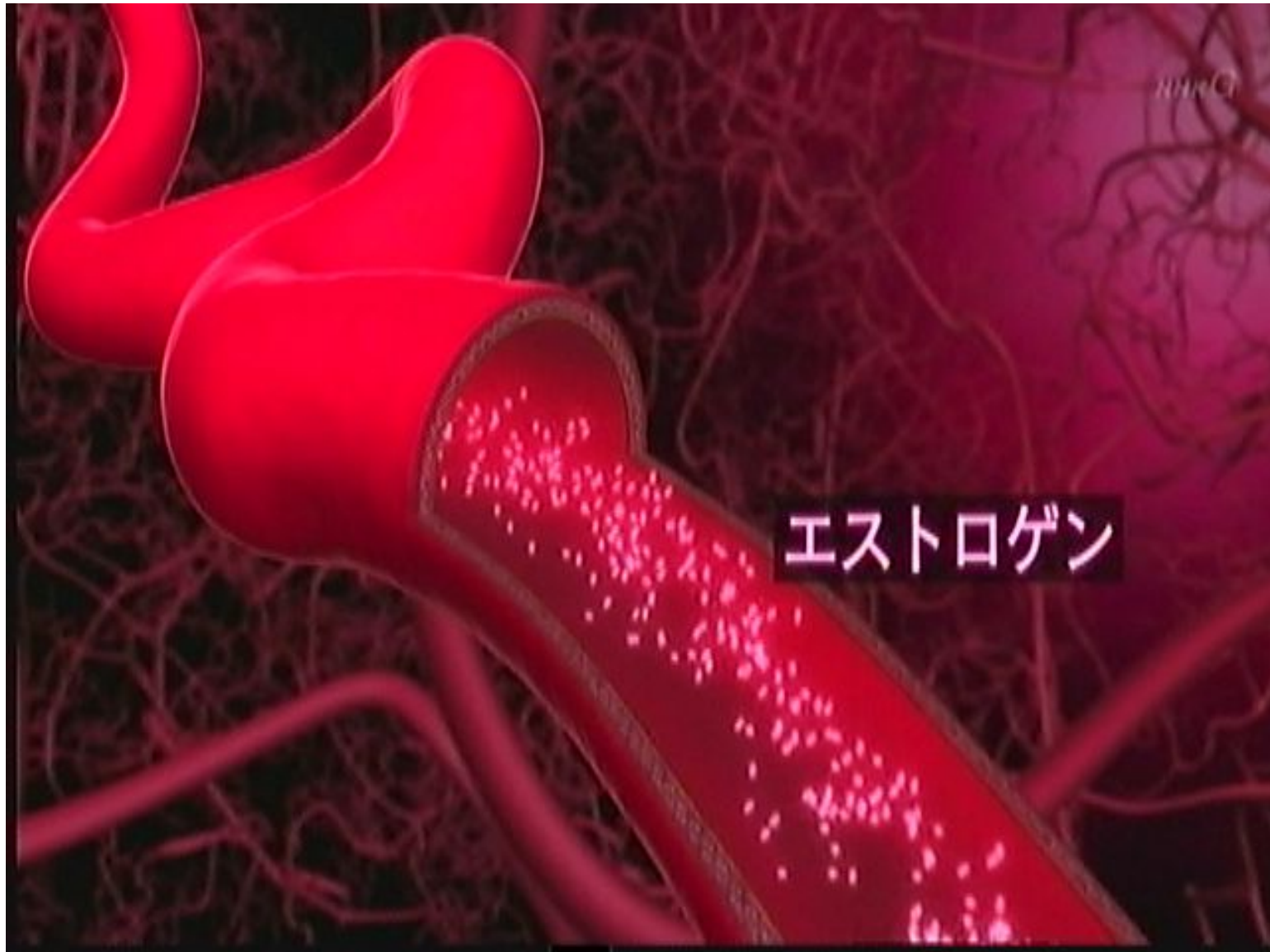
微小血管に問題

The design, objectives, and methods of the Women's Ischemia Syndrome Evaluation (WISE) study

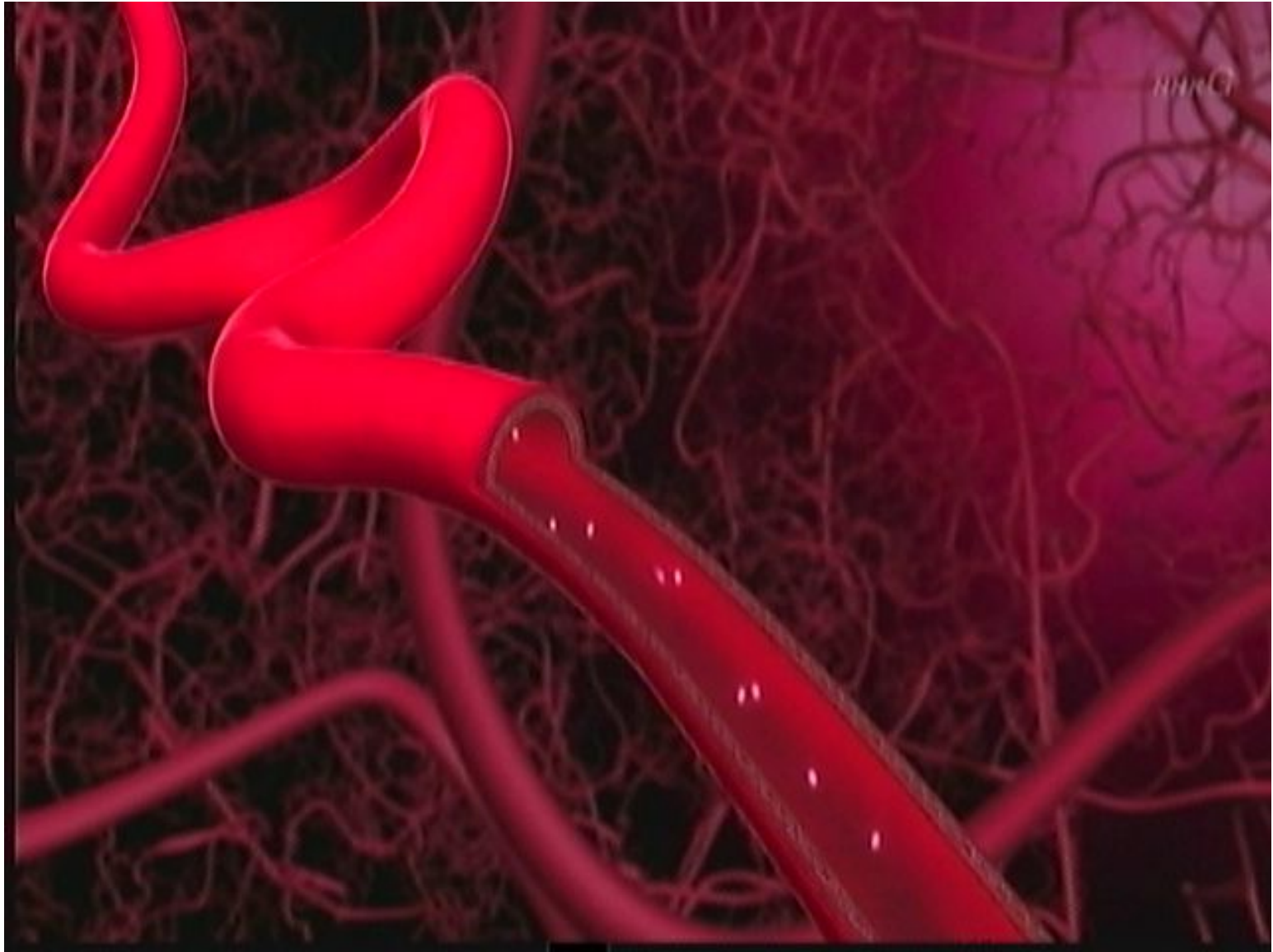


シーダース・サイナイ病院 女性心臓センター長

ノエル・バリー マーズ医師



エストロゲン



50
万人
48
46
44

心臓病による死亡者数

1980 1990 2000

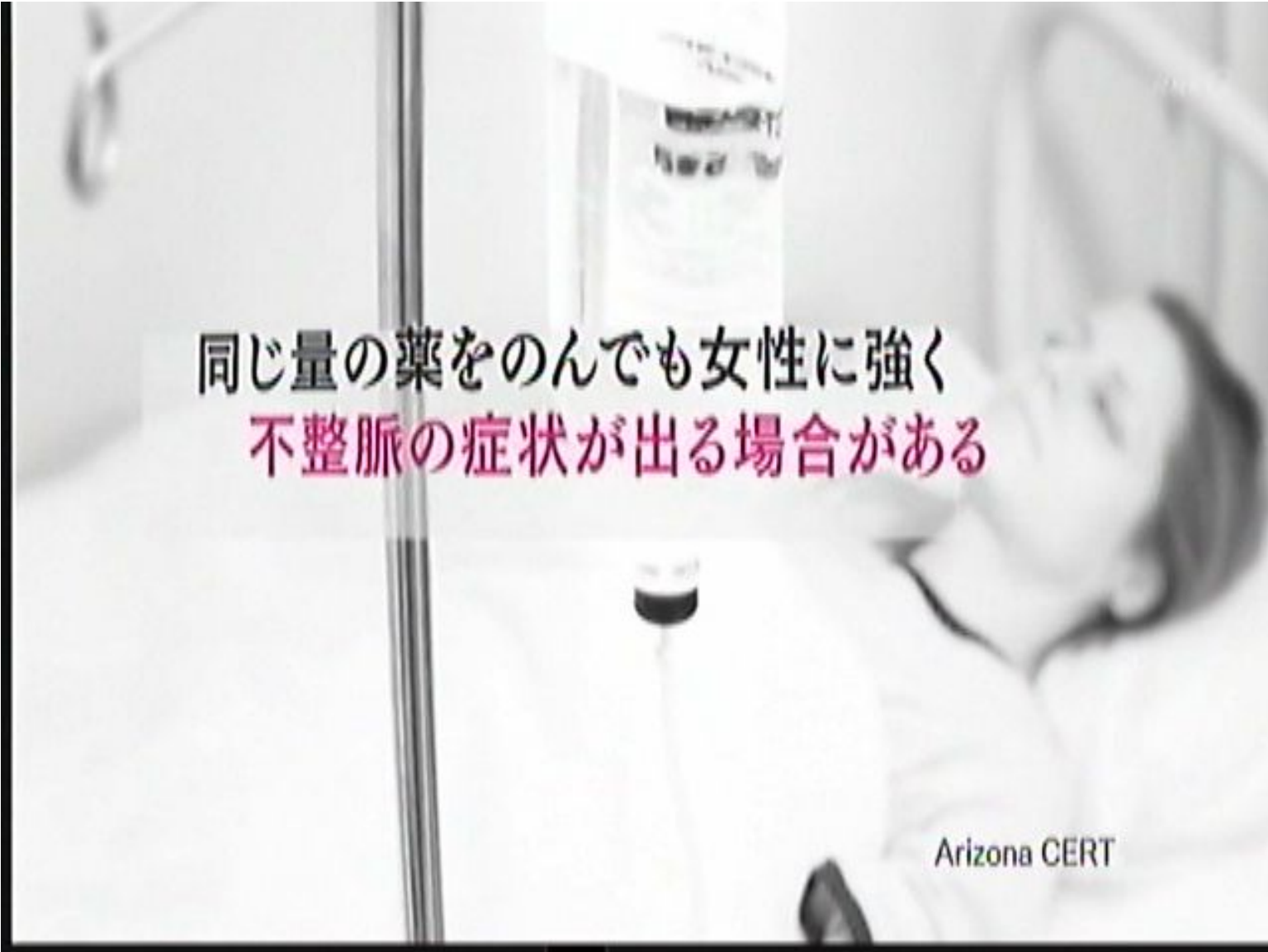




NIH 国立衛生研究所

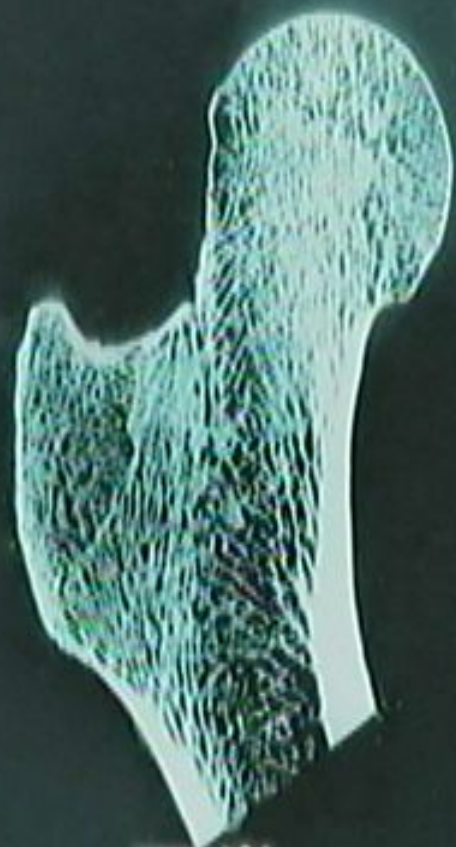


女性健康局局长
ビビアン・ピン博士



同じ量の薬をのんでも女性に強く
不整脈の症状が出る場合がある

Arizona CERT



正常



骨粗しょう症

第4回大股骨頭部骨折全国頻度調査成績
(折茂肇ほか 日本医事新報)

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骨粗しょう症による骨折は
女性が男性の4倍近い



過敏性腸症候群

女性は男性のおよそ2倍

The Role of Gender and Biological Sex
in Irritable Bowel Syndrome



慢性疲労症候群

女性の有病率が高い

Prevalence and Incidence of
Chronic Fatigue Syndrome in Wichita, Kansas*

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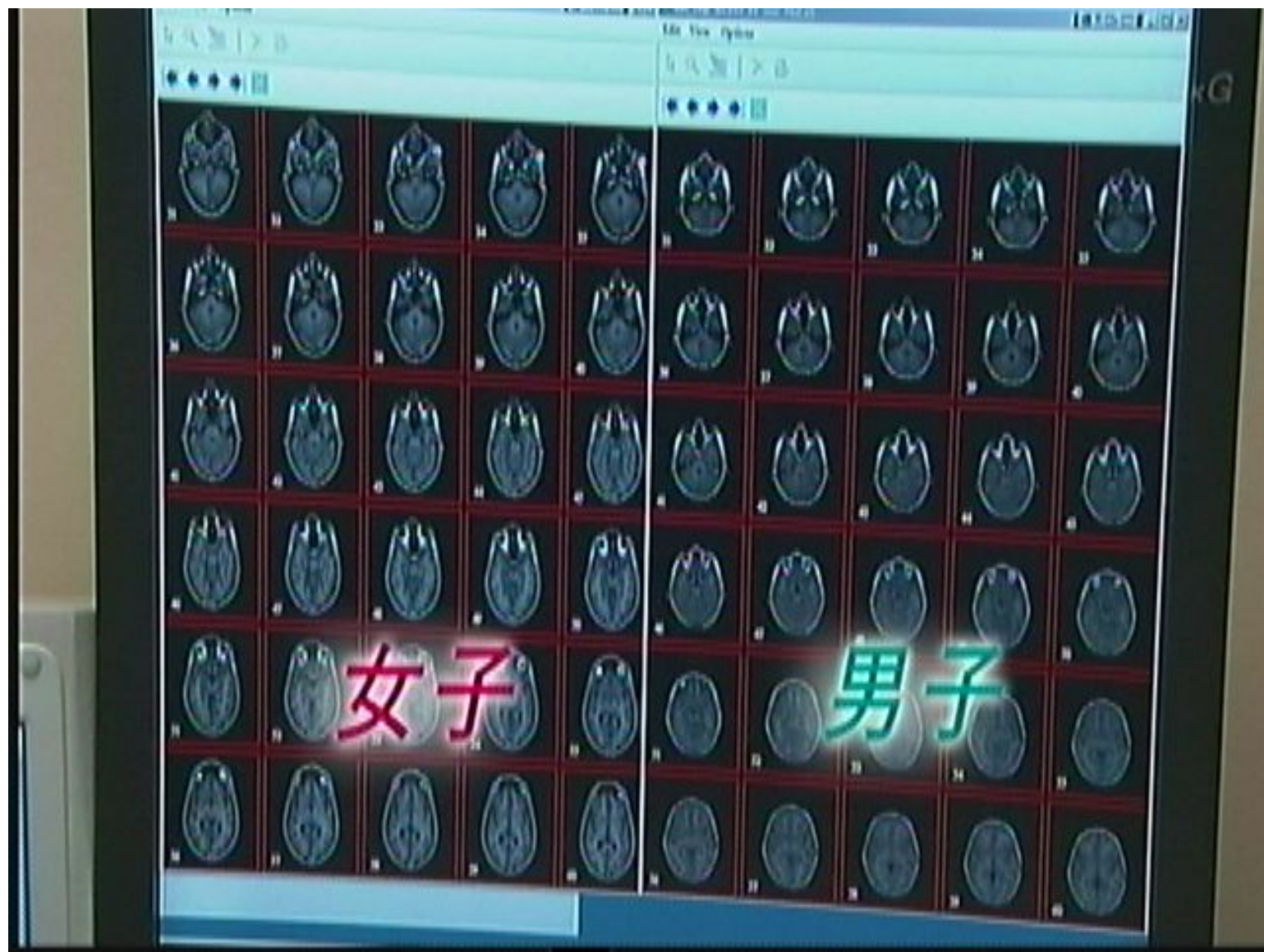
どこが違う？

女と男の脳



国立精神衛生研究所





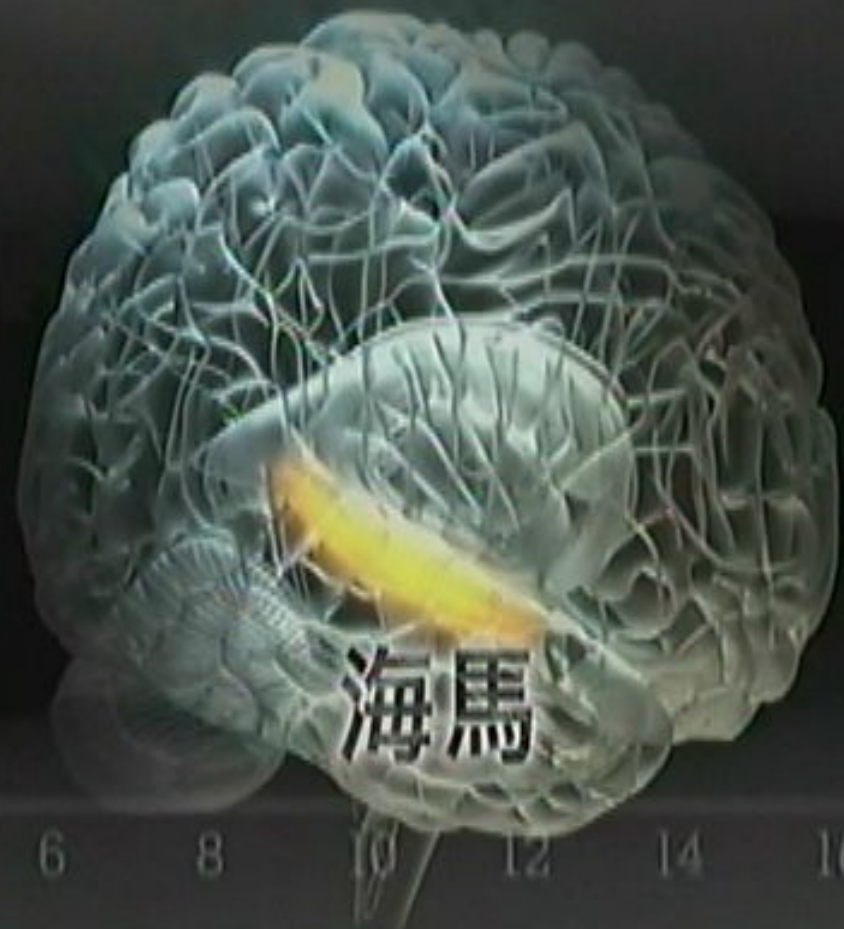
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海馬

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大きさ



海馬

年齢 6 8 10 12 14 16 18

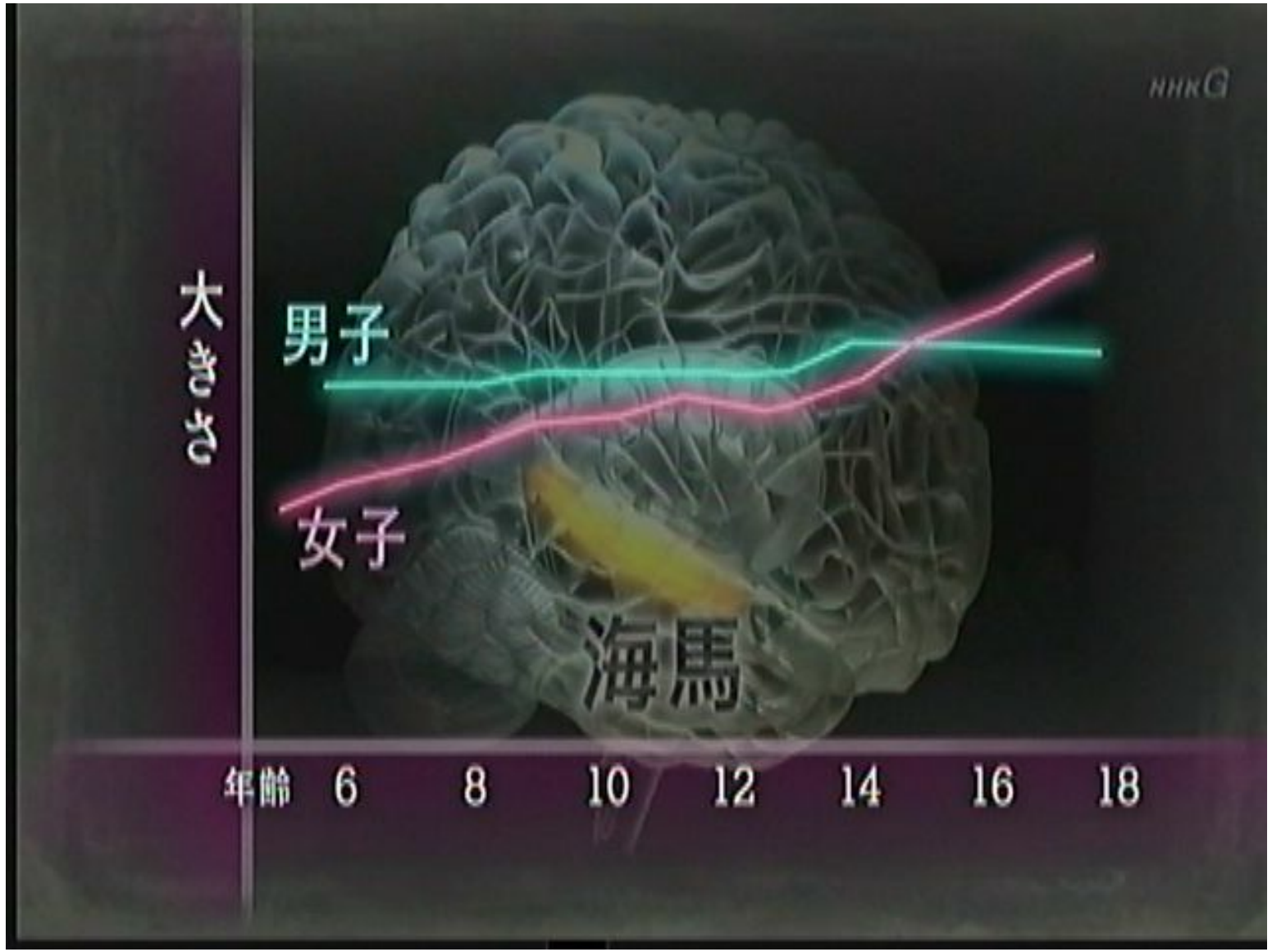
大きさ

男子

女子

海馬

年齢 6 8 10 12 14 16 18



NHK



扁桃體

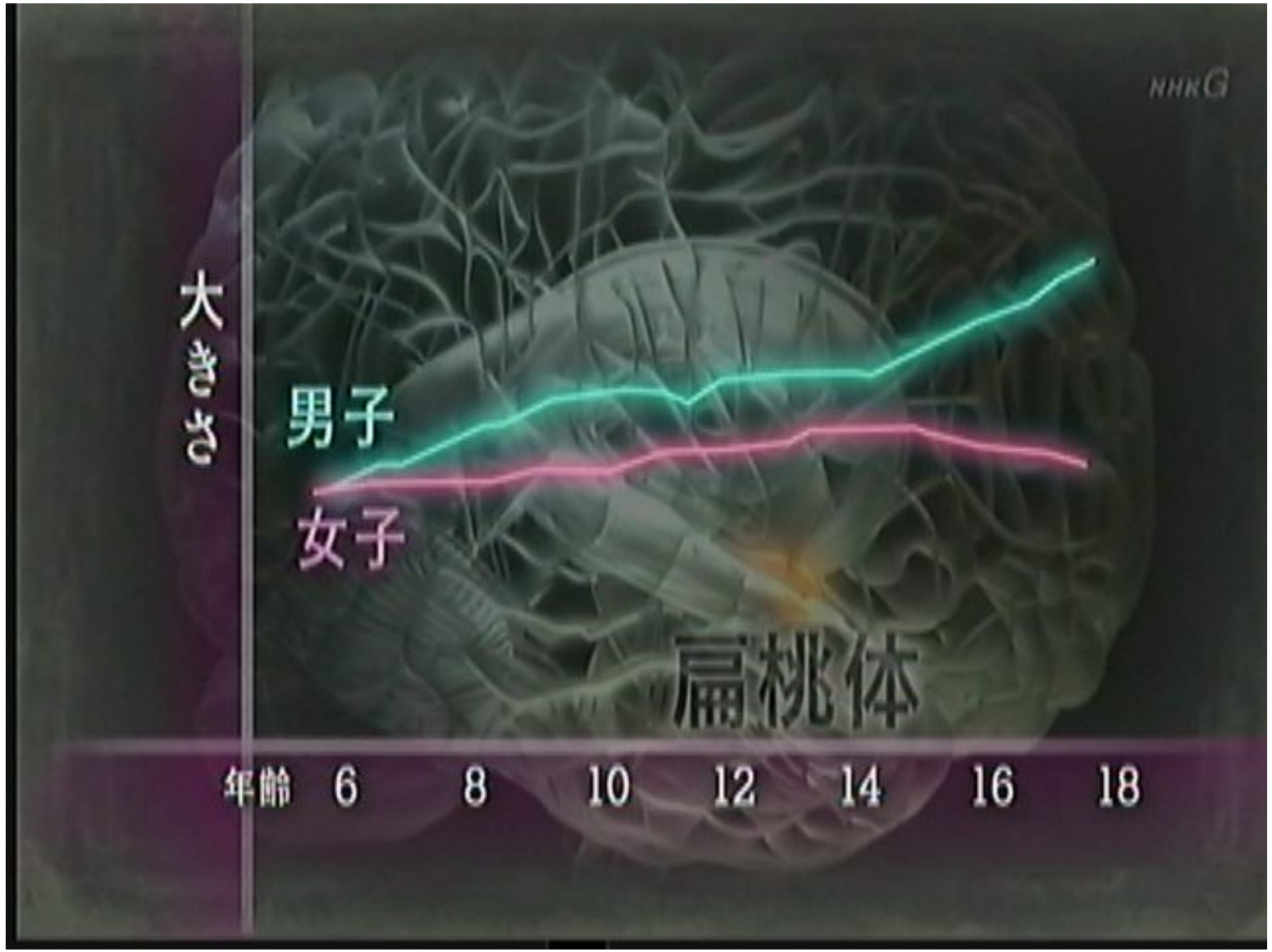
大きさ

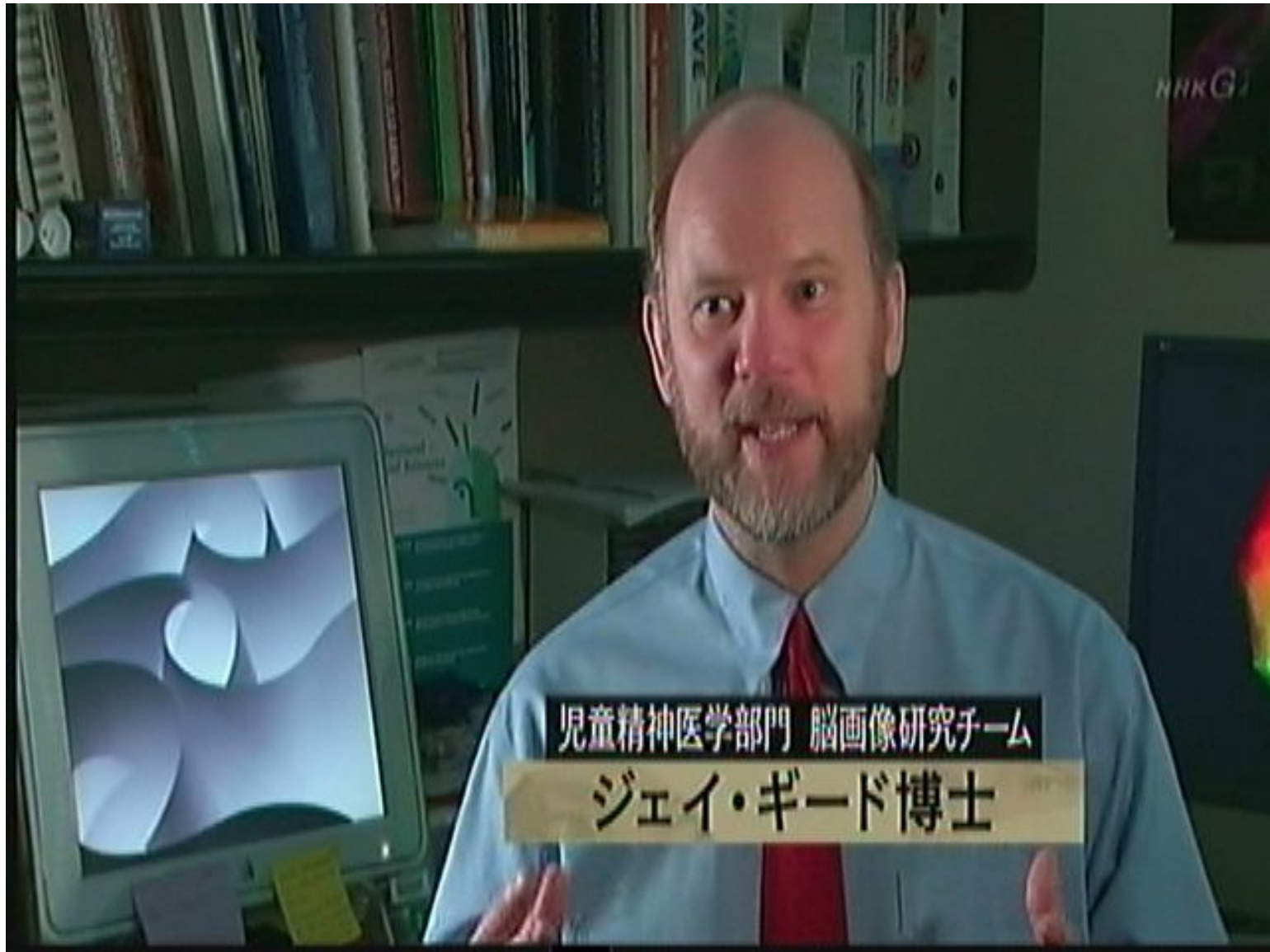
男子

女子

扁桃體

年齢 6 8 10 12 14 16 18

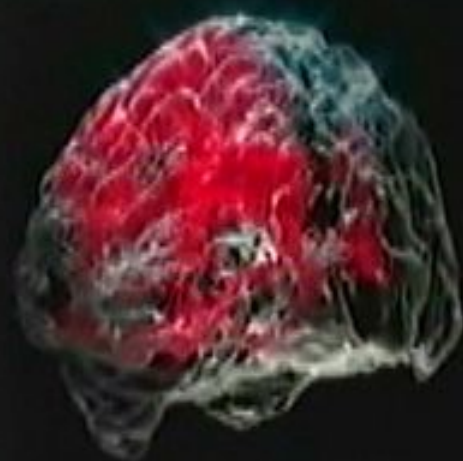




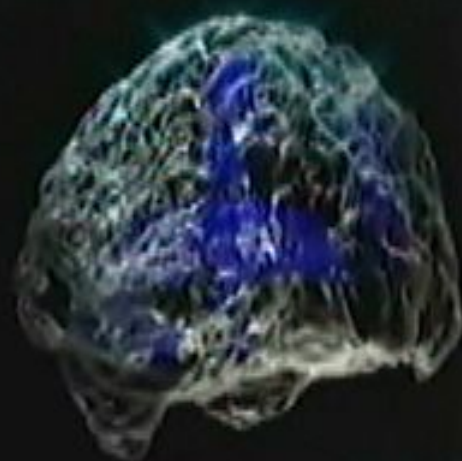
児童精神医学部門 脳画像研究チーム

ジェイ・ギード博士

nhkG

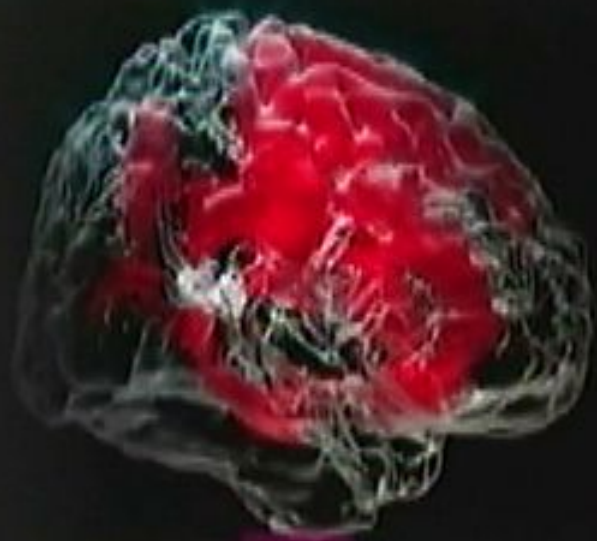


女



男

NHK



女



男



うつ病にかかる人は13歳を過ぎると
女性の方が多くなる

Development of gender differences in depression

NHK

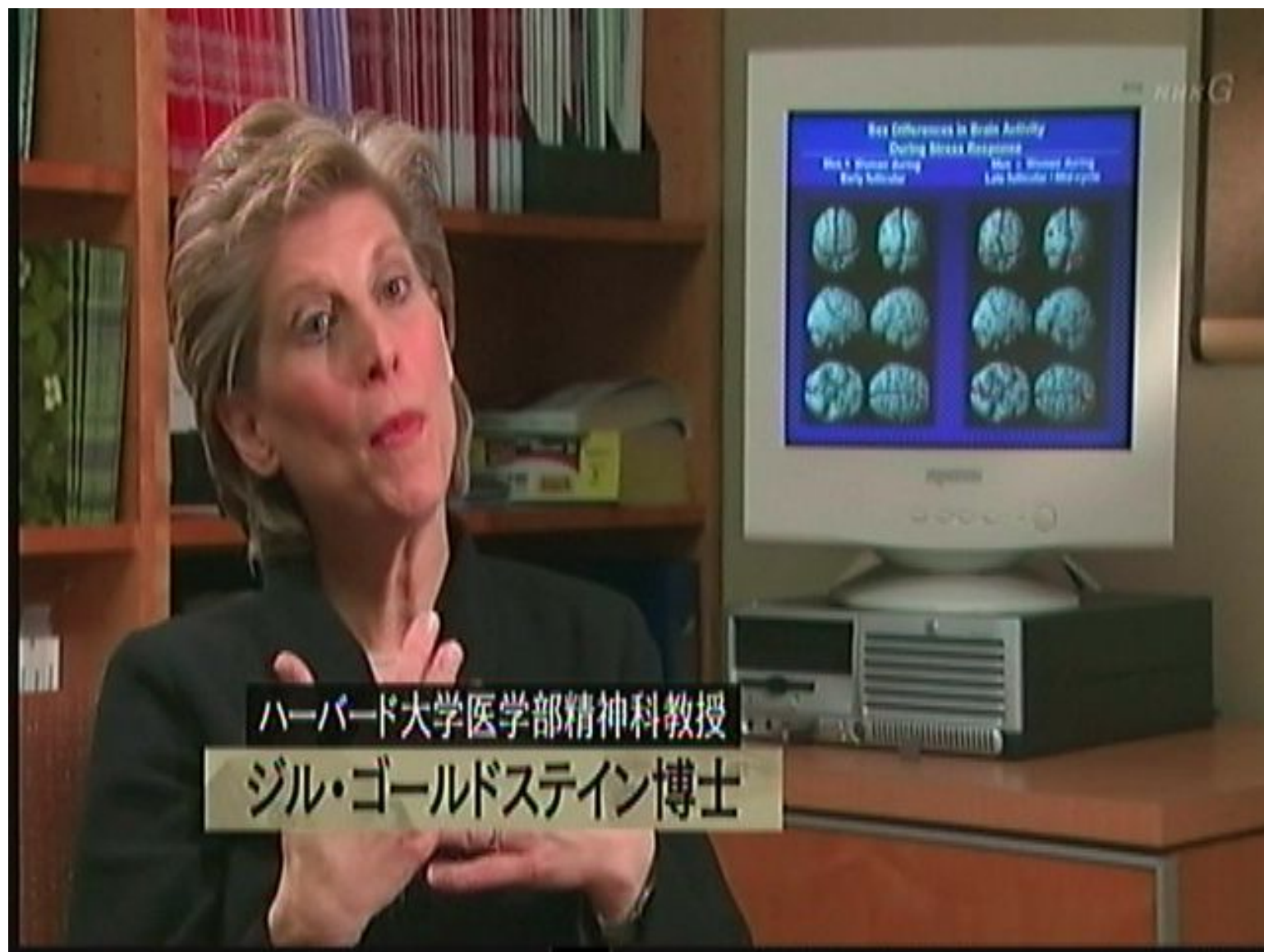
アルツハイマー病
発症リスクは女性が男性の2倍

The Alzheimer's Association 2008
Alzheimer's Disease Facts and Figures report

自閉症は男性が2.5倍

Cumulative incidence of childhood autism





ハーバード大学医学部精神科教授

ジル・ゴールドSTEIN博士



横



上

PHK G



横



上

1111G

nhkG

空間認知力



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千葉大学



空間認知力テスト

20
%

15

10

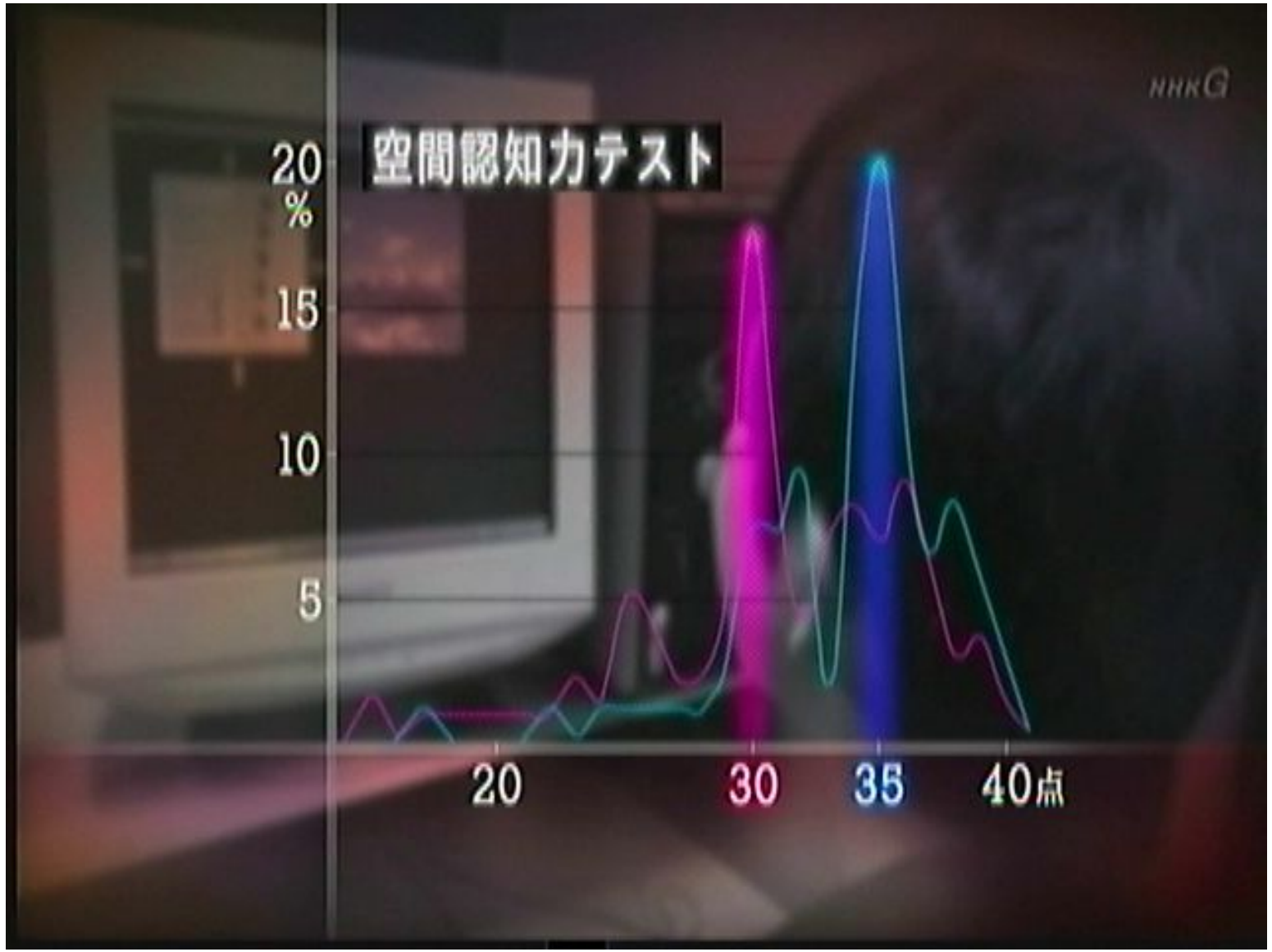
5

20

30

35

40点



F

Future
Fact
Fire
Free
Foreign
Federal
Force

11.77

Field
Flag
Fever
Flood
Fundamental

Five
Flight
Forest
Focus
France
Friend
Forever

13.25

Fiscal
Fidelity
Feminine
Furniture
Floor
Forgive
Flexible

Five
Flight
Forest
Focus
France
Friend
Forever
Fashion
February
Feminine
Furniture
Floor
Forge
Flexible

言

葉



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レスブリッジ大学准教授

デボラ・ソーシャー博士





DESTINATION 2

• turn SE and go 19m / 57 ft

• turn S and go 27m / 81 ft

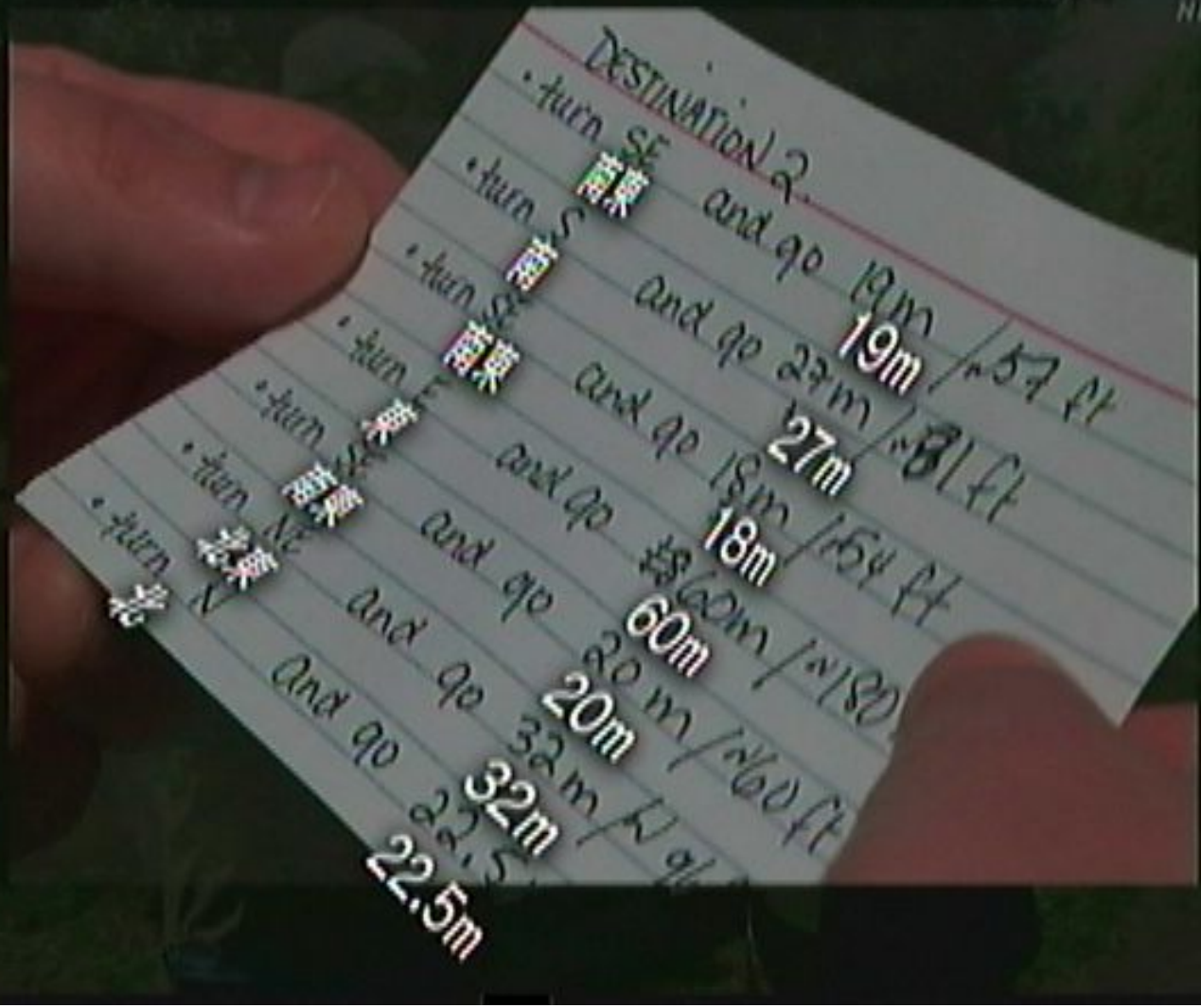
• turn SE and go 18m / 54 ft

• turn S and go 60m / 180 ft

• turn NE and go 20m / 60 ft

• turn N and go 32m / 96 ft

• turn N and go 22.5m









こっちが北東

間違えた回数

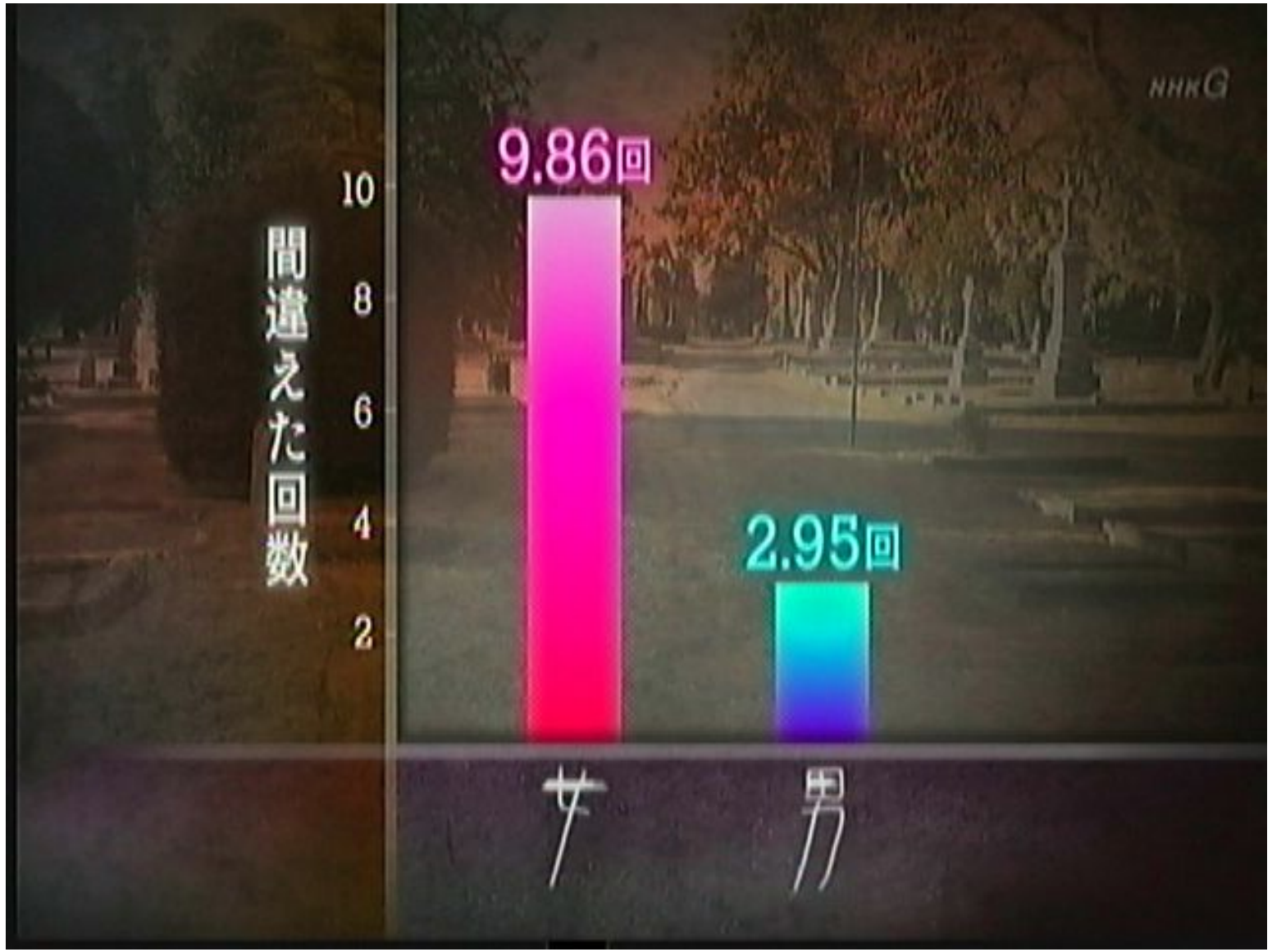
10
8
6
4
2

9.86回

2.95回

女

男



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遠い昔の進化

レスブリッジ大学准教授
デボラ・ソーシャー博士





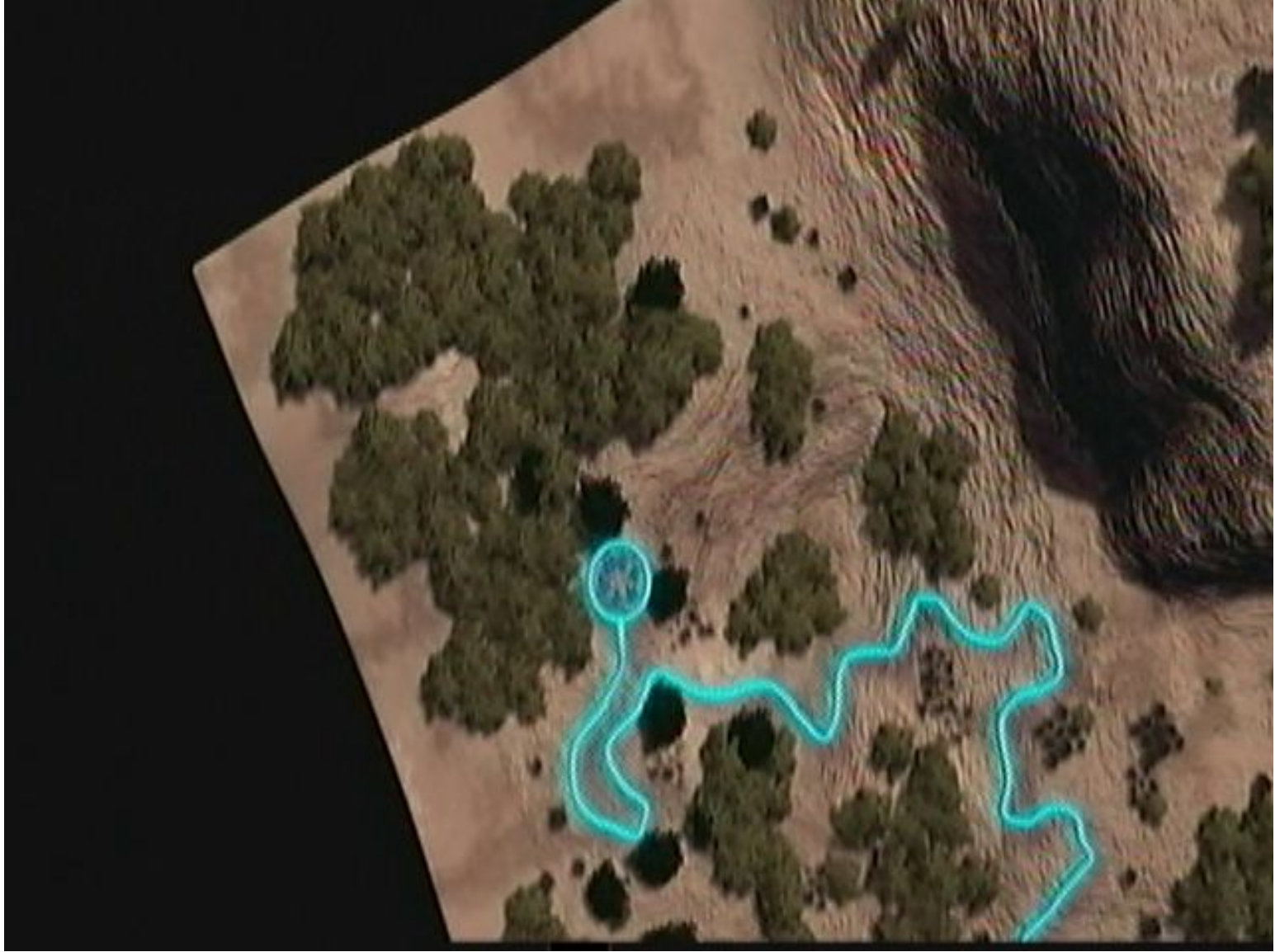


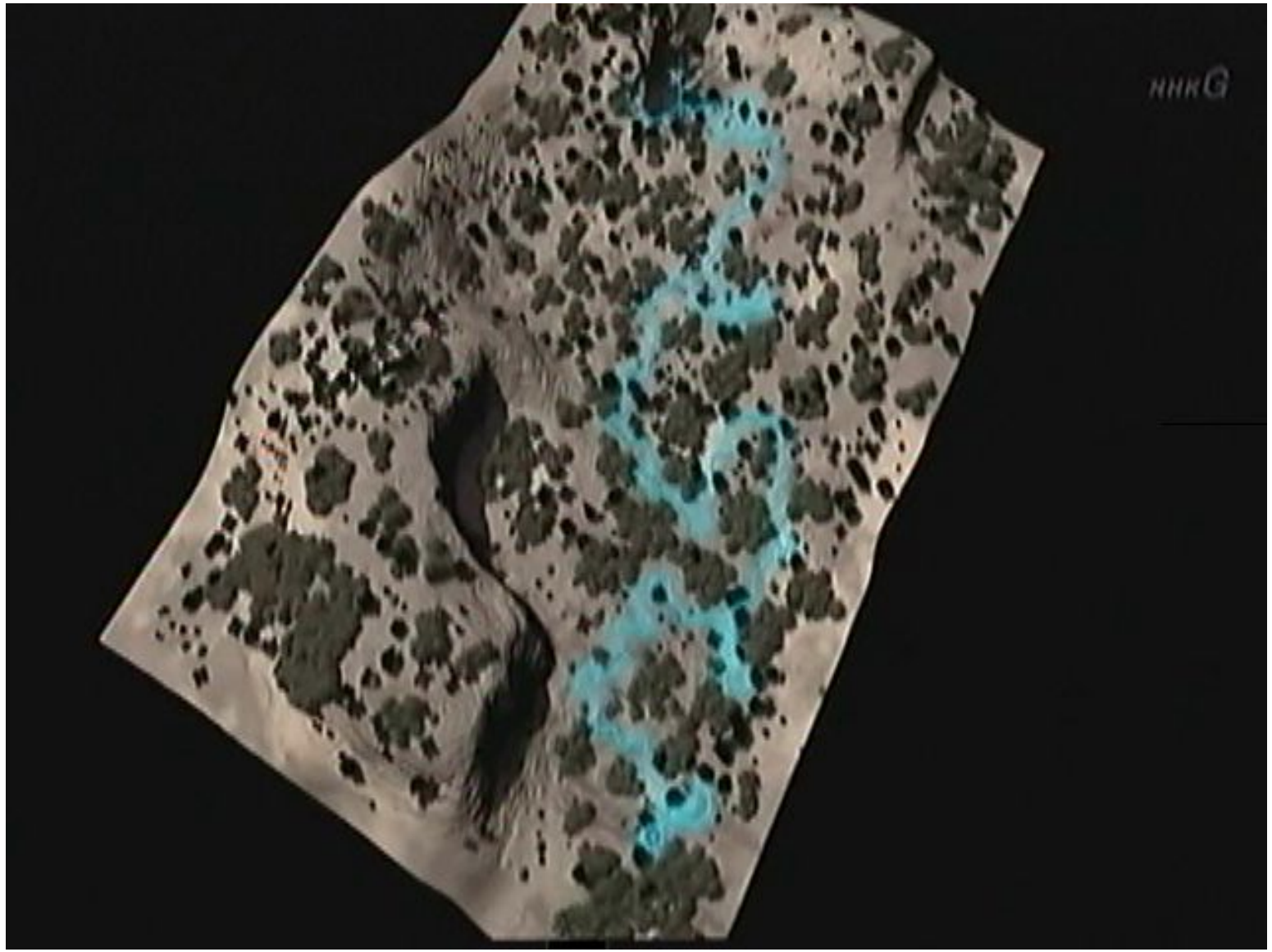


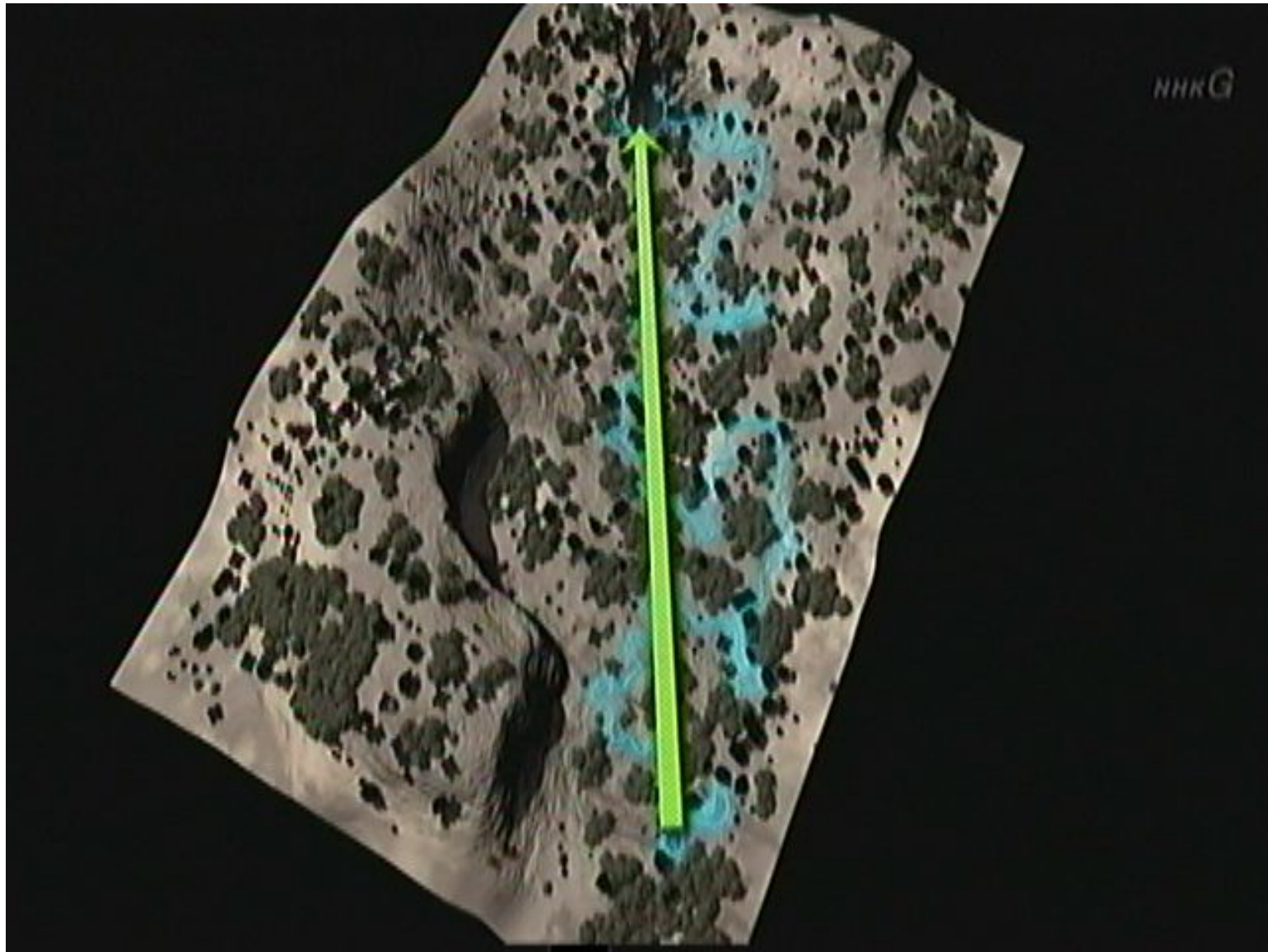
















もっと大きな像を探していたんだ

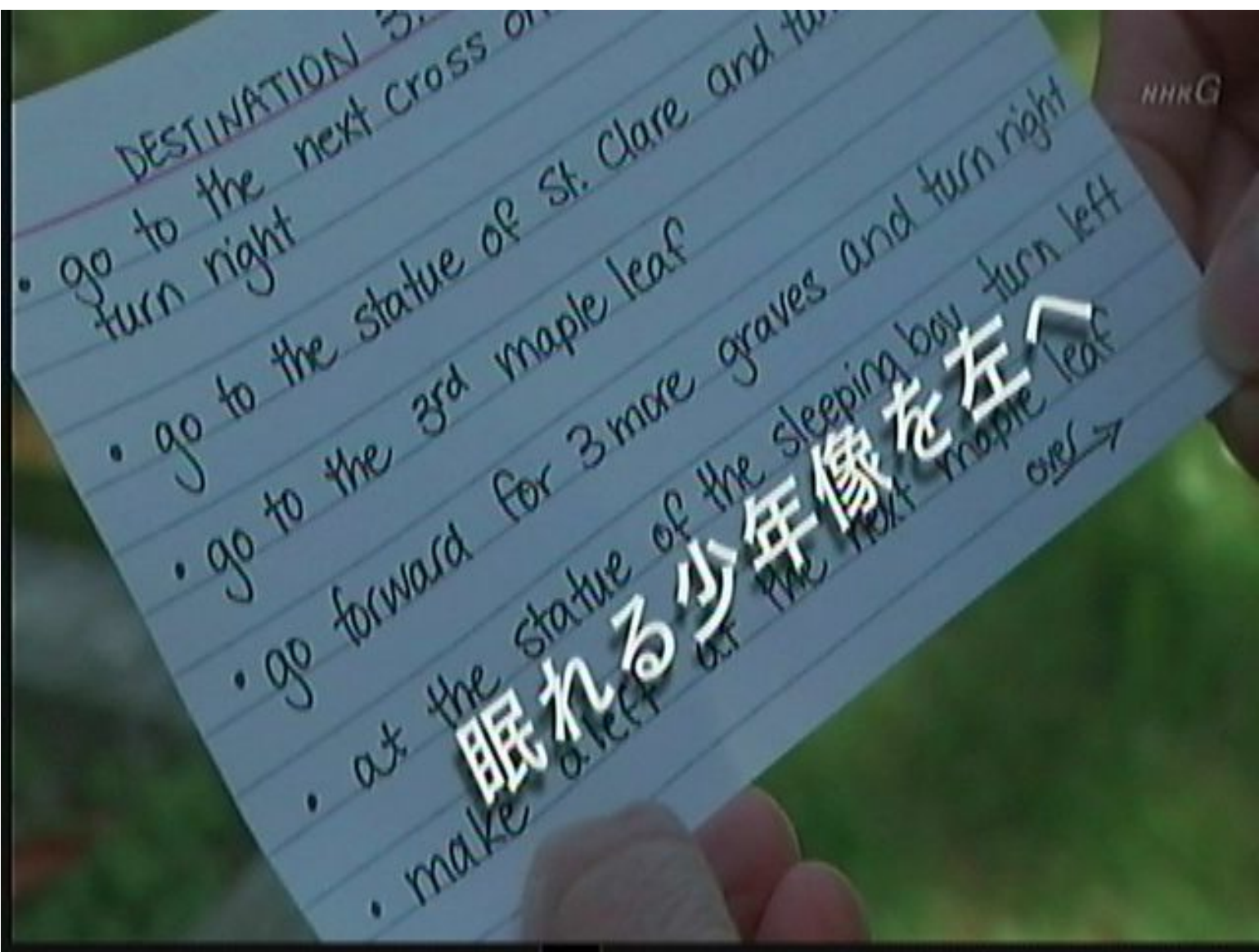


指示を勝手に解釈してしまった

DESTINATION 3.

- go to the next cross on the left and turn right
- go to the statue of St. Clare and turn right
- go to the 3rd maple leaf
- forward for 3 more graves and turn right
- statue of the sleeping boy turn
- the next maple

聖人像を右に曲がれ



DESTINATION 3.

- go to the next cross and turn right
- go to the statue of St. Clare and the 3rd maple leaf
- go forward for 3 more graves and turn right
- at the statue of the sleeping boy turn left
- make a left at the next maple leaf over ->

眠れる少年像を左へ



聖人像 見つけた



間違えた回数

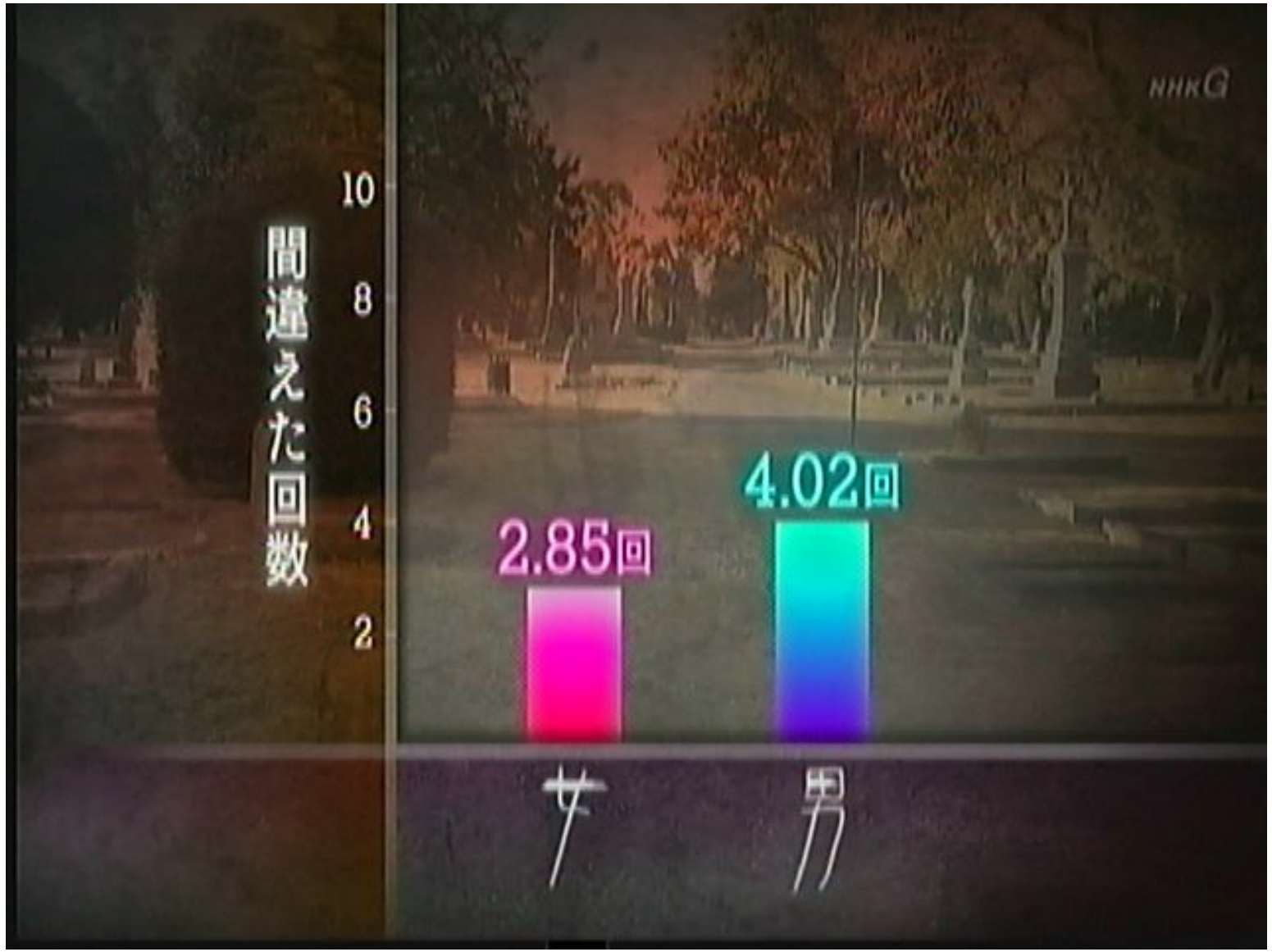
10
8
6
4
2

2.85回

4.02回

女

男









三日月形の茂み

大きな木

ННКG



NHK G





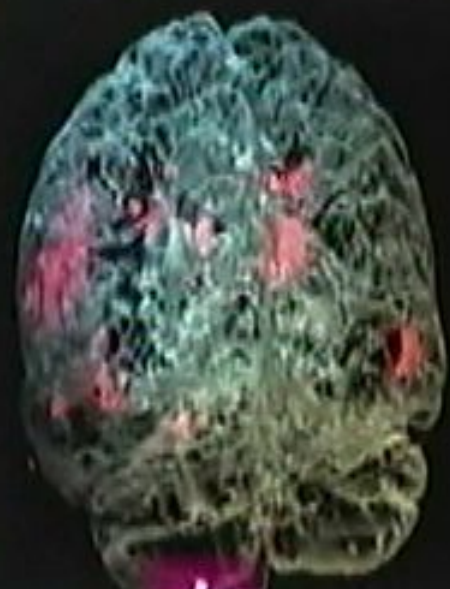
知られざる

脳の戦略

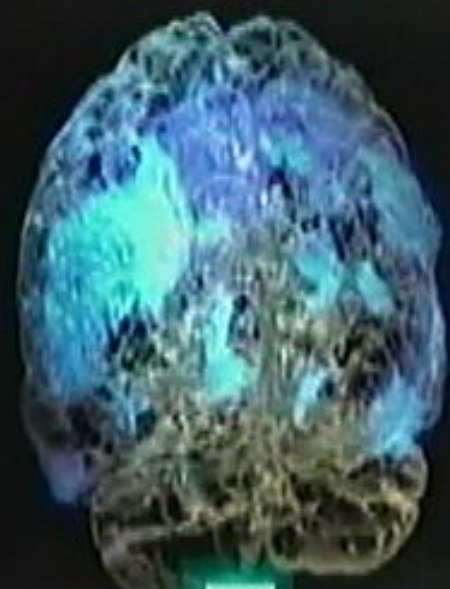


カリフォルニア大学アーバイン校

NHK



女



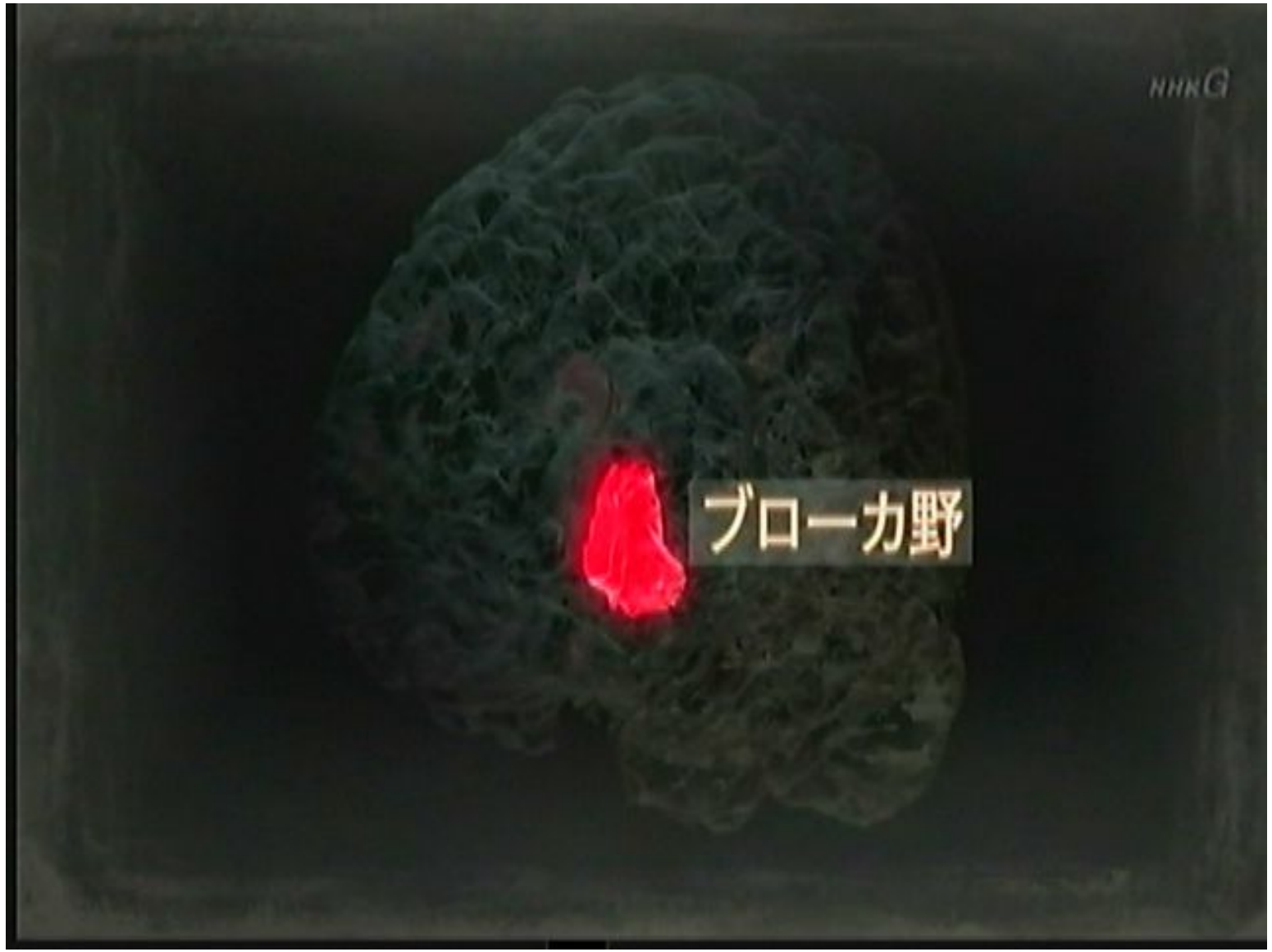
男



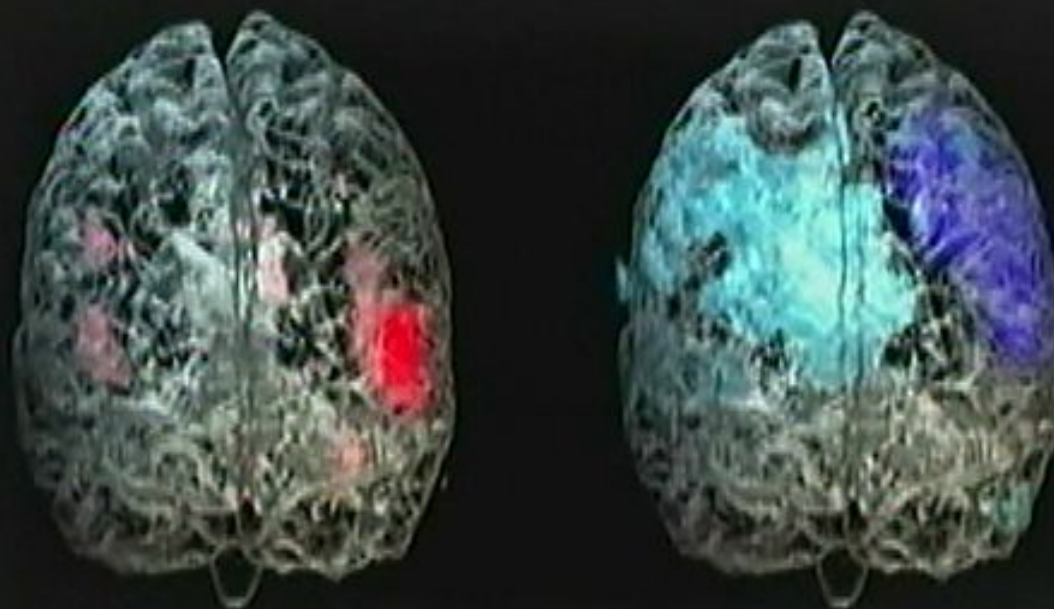
カリフォルニア大学名誉教授

リチャード・ハイアー博士

ブローカ野

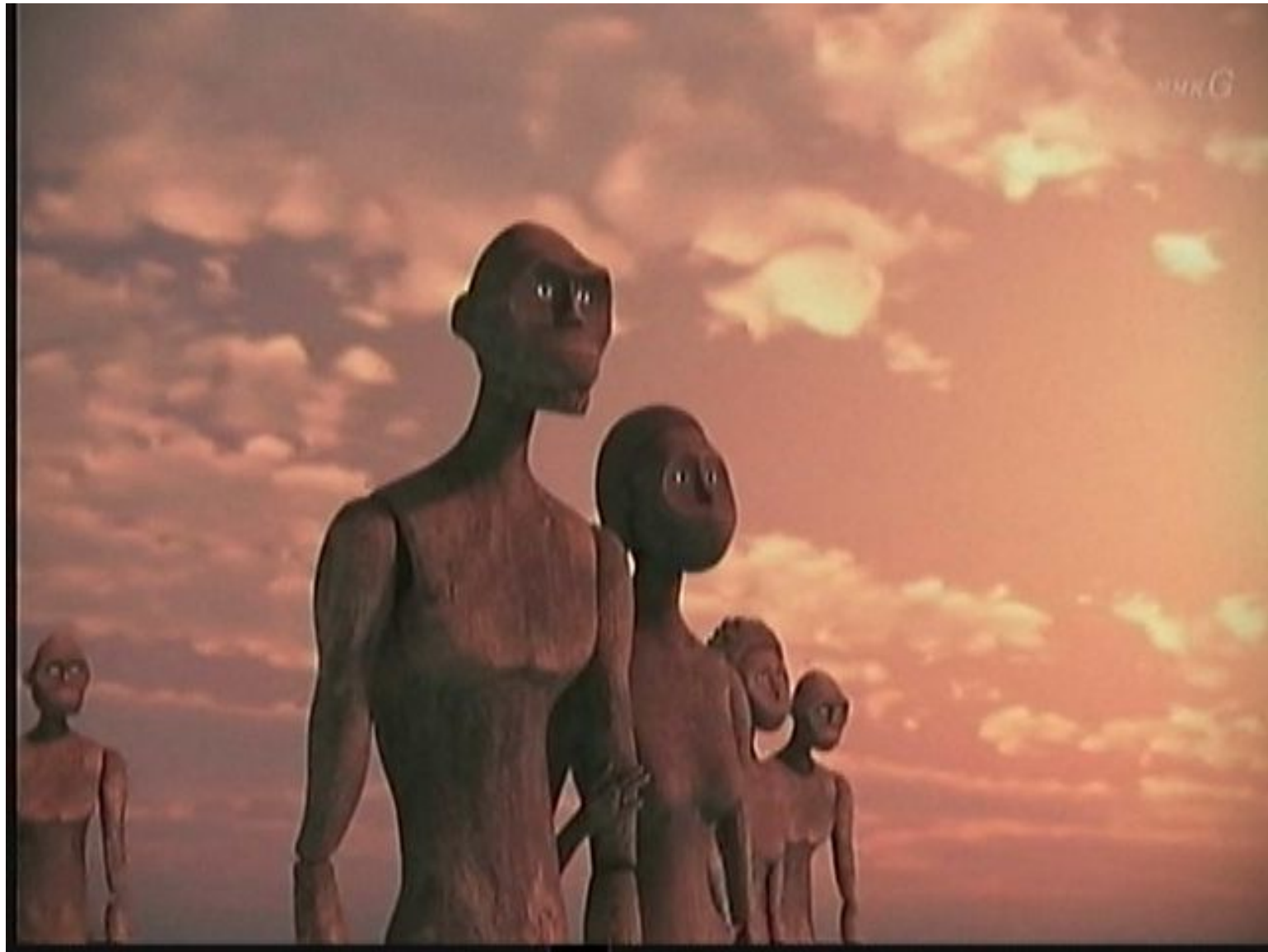


NIH













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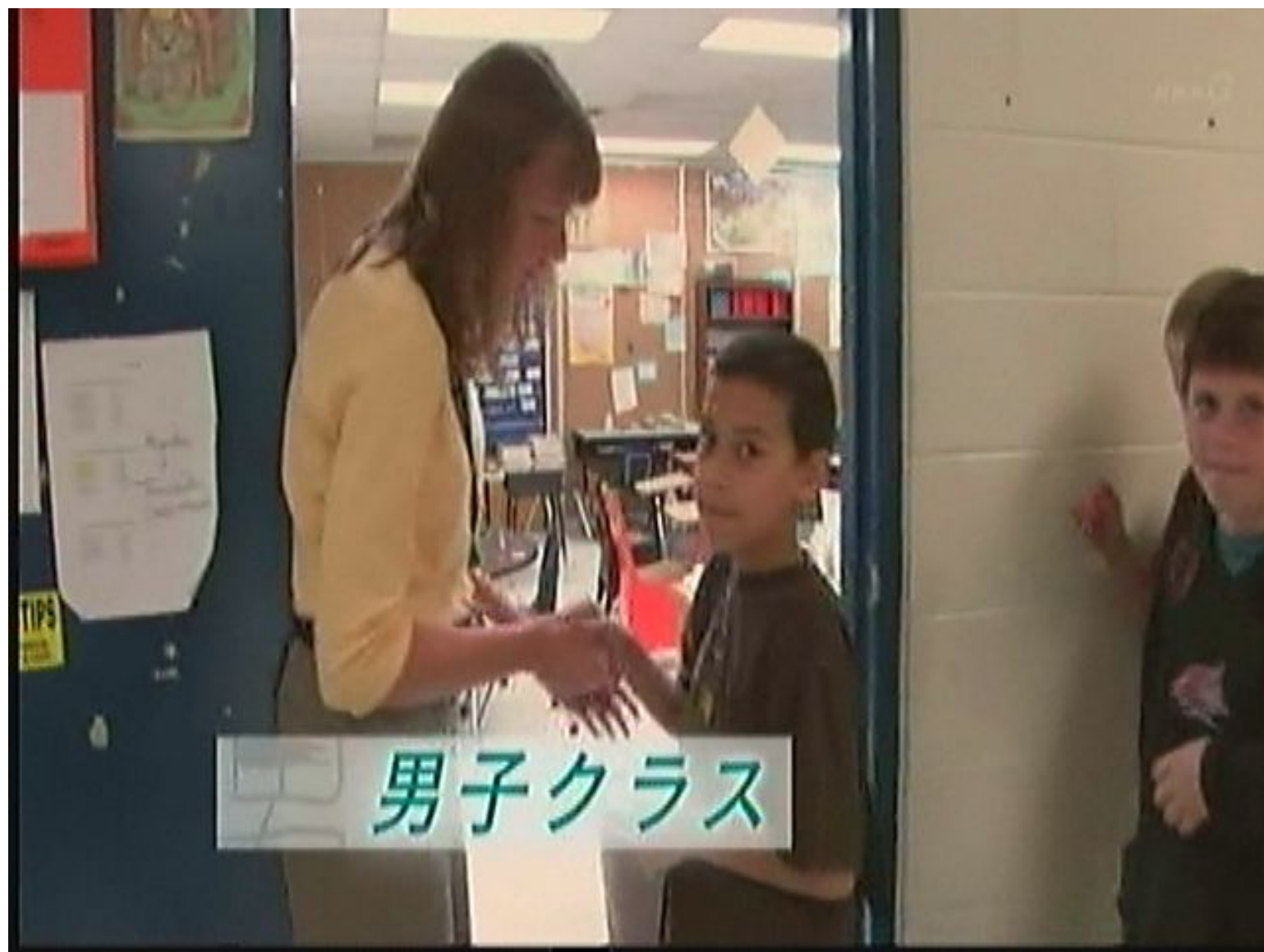




ウッドワードアベニュー小学校
フロリダ



女子クラス



男子クラス

throughout the area served by the local educational agency that are designed to advance student academic achievement.

“(21) Initiatives to generate, maintain, and strengthen parental and community involvement.

“(22) Programs and activities that expand learning opportunities through best-practice models designed to improve classroom learning and teaching.

“(23) Programs to provide same-gender schools and classrooms (consistent with applicable law).

“(24) Services that are designed to prevent school violence.

“(25) School safety programs, including programs to implement the policy described in section 9507 and which include payment of reasonable transportation costs and other expenses for such students.

落ちこぼれを作らないための

初等中等教育法

(2002年)

training in schools.

"(19) Programs to establish smaller learning communities. HHKG

"(20) Activities that encourage and expand improvements throughout the area served by the local educational agency that are designed to advance student academic achievement.

"(21) Initiatives to generate, maintain, and strengthen parental and community involvement.

"(22) Programs and activities that expand learning opportunities through best-practice models designed to improve classroom learning and teaching.

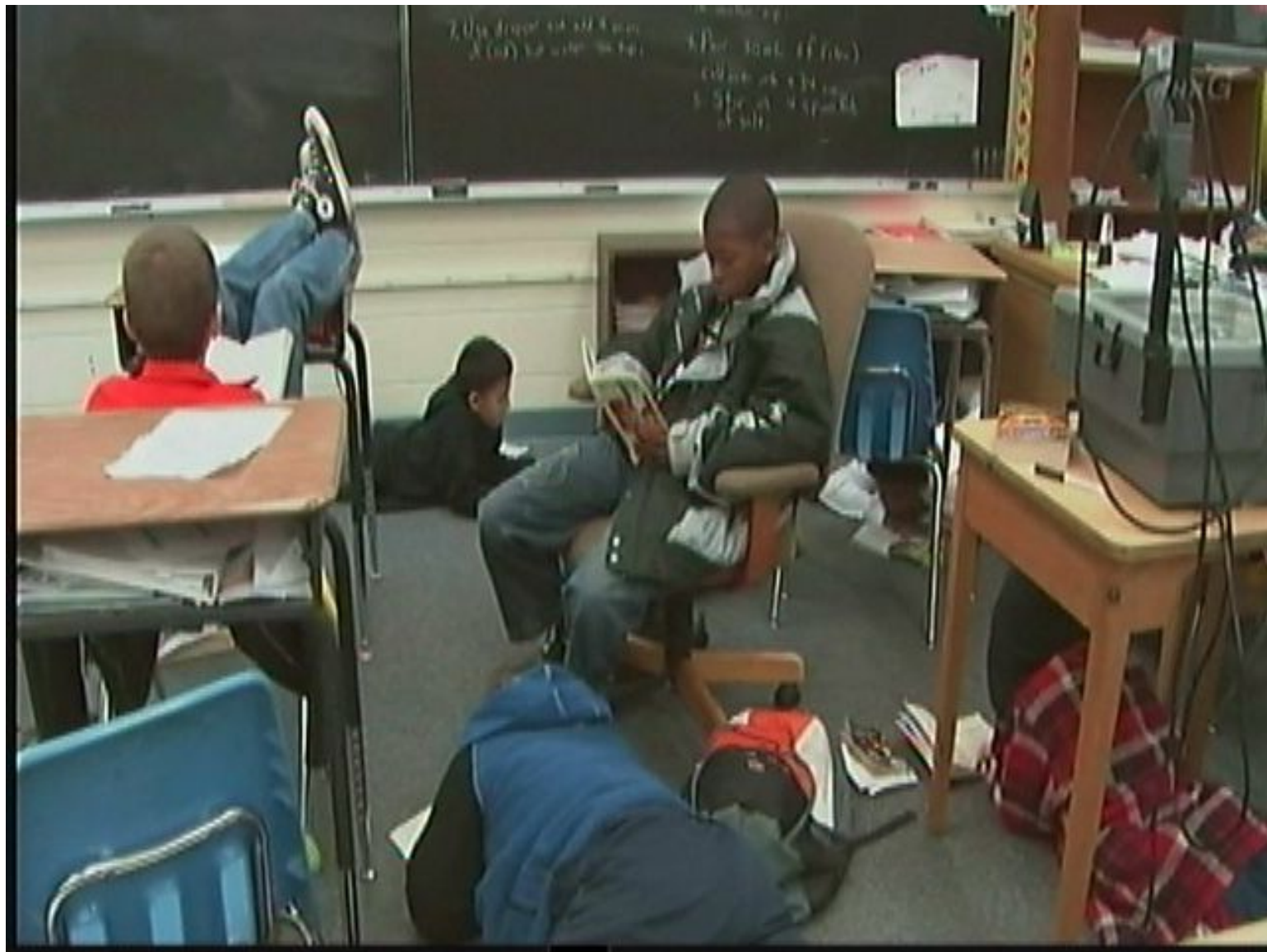
"(23) Programs to provide same-gender schools and classrooms (consistent with applicable law).

"(24) Service learning activities.

同性による学校やクラスを設置すること

ment the policy described in section 9507 and which may include payment of reasonable transportation costs and tuition costs for such students.

"(26) Programs that employ research-based cognitive and perceptual development approaches and rely on a diagnostic-prescriptive model to improve students' learning of academic content at the preschool, elementary, and secondary levels.





女子クラス







ディーダラ・ヒックス校長



シカゴ

男女別クラス実施報告会

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顧客がビジネス上の決断をする際 —

NHK G

重要視するポイントに
男女の違いはあるのでしょうか？



顧客が男性の場合



本日は執行役員がまいりました



御社の要求に対する解決策は —



これしかありません
自信をもって ご提案いたします




顧客が女性の場合

NHKG

御社の要求を検討した結果 —

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5つほどのポイントが
浮かんできました



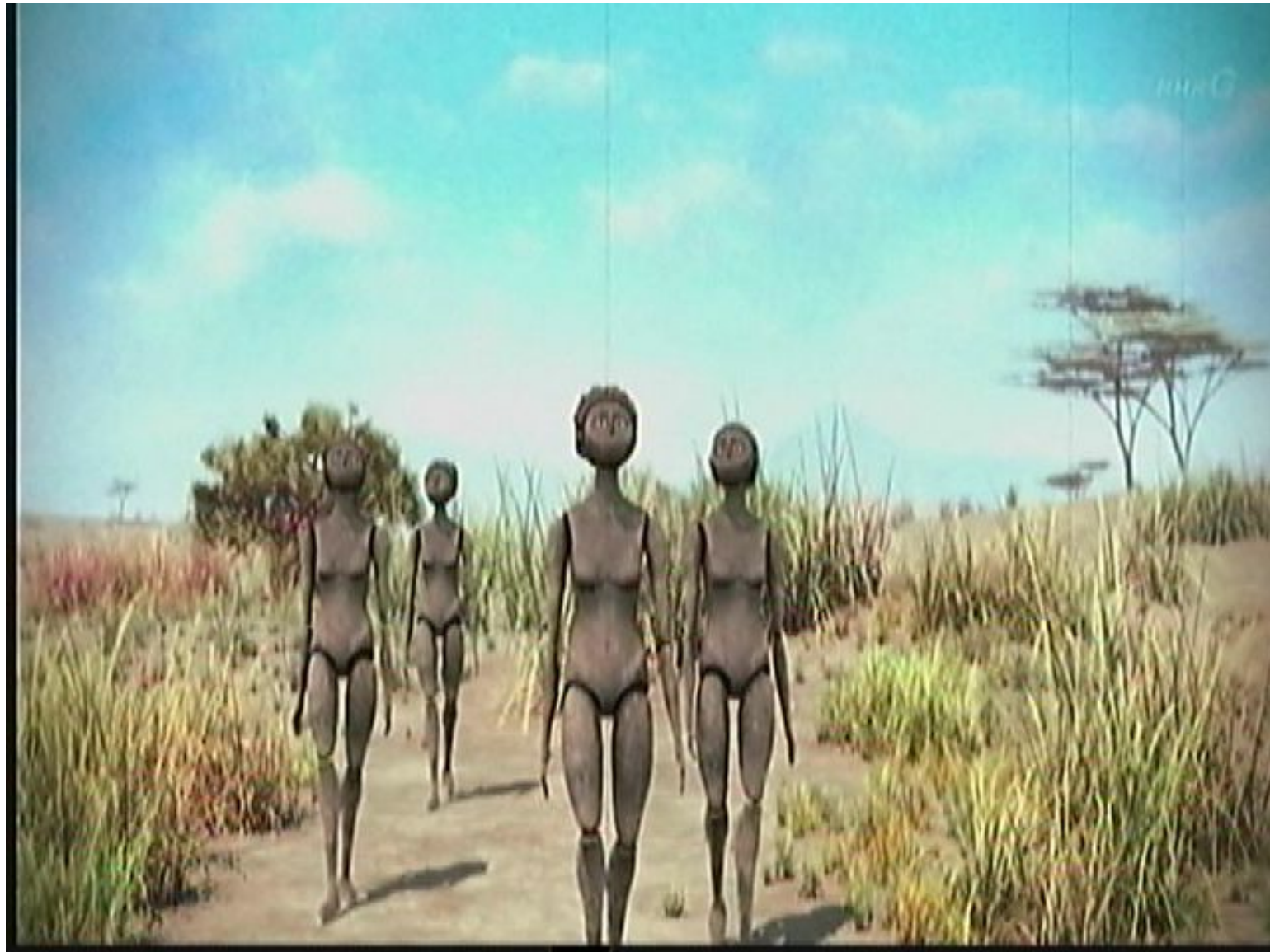
そのことを 御社と共有することが
なにより大事だと考えました



デロイト社役員
バーバラ・アダチさん









デント中学校
サウスカロライナ





解き方①

$$2x - y = 8$$

$$2(5 - y) - y = 8$$

解き方②



自分のやりやすい方法を選べるのが好き



先生は「これでやれ」と
押しつけたりしないの

